

111th Edition

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# Statistical Abstract of the United States 1991



**The National Data Book**



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## Preface

The *Statistical Abstract of the United States* published since 1878, is the standard summary of statistics on the social, political, and economic organization of the United States. It is designed to serve as a convenient volume for statistical reference and as a guide to other statistical publications and sources. The latter function is served by the introductory text to each section, the source note appearing below each table and Appendix I, which comprises the Guide to Sources of Statistics, the Guide to State Statistical Abstracts and the Guide to Foreign Statistical Abstracts.

This volume includes a selection of data from many statistical publications, both government and private. Publications cited as sources usually contain additional statistical detail and more comprehensive discussions of definitions and concepts than can be presented here. Data not available in publications issued by the contributing agency but obtained from unpublished records are identified in the source notes as "unpublished data". More information on the subjects covered in the tables so noted may generally be obtained from the source.

Except as indicated, figures are for the United States as presently constituted. Although emphasis in the *Statistical Abstract* is primarily given to national data, many tables present data for regions and individual States and a smaller number for metropolitan areas and cities. Appendix II, Metropolitan Area Concepts and Components, presents explanatory text, a complete current listing and population data for metropolitan statistical areas (MSA's), the primary metropolitan statistical areas (PMSA's), and the consolidated metropolitan statistical areas (CMSA's). Table 36 in section 1 presents selected population characteristics for MSA's with population of 250,000 or more. Statistics for the Commonwealth of Puerto Rico and for outlying areas of the United States are included in many State tables and are supplemented by information in Section 30. Additional information for States, cities, counties, metropolitan areas, and other small units, as well as more historical data are available in various supplements to the *Abstract* (see inside back cover).

**Changes in this edition.**—Some users may notice the *Abstract* has a different look this year. Reflecting the increasingly advanced technology within the printing industry, this edition has been composed using the Bureau's in-house publishing system, rather than the prior method of the Government Printing Office's electronic photocomposition method. This change also presented us with the opportunity (and challenge) of putting the entire tabular portion of the *Abstract* in separate Lotus 123 spreadsheet files, each table a separate file. Not surprisingly, in the short run, technical difficulties in the adaptation of the new process resulted in some production delay, as problem areas were identified and modifications were made. For the long term, however, the conversion to this newer method offers advanced opportunities, such as the possibility of having the *Abstract* offered at some future time in an electronic form and the potential of faster, more streamlined production. It is our hope future editions will reflect such advances.

Subject matter content changes include presentation of selected 1990 Census data in the Population and the Construction and Housing sections and expanded coverage of the 1987 Economic Census throughout other sections. Among other areas in which we have introduced other new material are injuries and accidents, medical device implants, computers and computer usage in school and on the job, child support, child care, State aid to local governments, military personnel, household net worth, mortgage delinquency rates, foreign corporate activity in the U.S., space shuttle flights, new car prices, and agriculture imports and exports. (See Appendix VI, pp. 933-935 for a complete list of new tables introduced in this edition.)

Statistics in this edition are generally for the most recent year or period available by the winter of 1990. Special effort was made to include updates for summary tables presenting key economic series which became available in early 1991, including series covering the labor force, the consumer price index, commercial banks, retail sales, and construction activity. Each year almost 1,500 tables and charts are reviewed and evaluated; new tables and charts of current interest are added, continuing series are updated, and less timely data are condensed or eliminated. Text notes and appendices are revised as appropriate.

*USA Statistics in Brief, 1991*, the pocket-size loose insert in front of the book, is available separately. Price and ordering information can be obtained from U.S. Bureau of the Census, Customer Services, Washington, DC 20233 (telephone 301-763-4100). A 25 percent discount will be available on orders of 100 copies or more sent to the same address.

**Historical statistics.**—Specific headnote references in this *Abstract* link many tables to earlier data shown in *Historical Statistics of the United States, Colonial Times to 1970*. (See Appendix IV, pp. 928 and 929)

**Statistics for States and metropolitan areas.**—Data for States and MSA's may also be found in the *State and Metropolitan Area Data Book, 1991*.

**Statistical reliability and responsibility.**—The contents of this volume were taken from

many sources. All data from either censuses and surveys or from administrative records are subject to error arising from a number of factors: Sampling variability (for statistics based on samples), reporting errors in the data for individual units, incomplete coverage, nonresponse, imputations and processing error. (See also Appendix III, pp. 913-927) The Bureau of the Census cannot accept the responsibility for the accuracy or limitations of the data presented here, other than those for which it collects. The responsibility for selection of the material and for proper presentation, however, rests with the Bureau.

**For additional information on data presented.**—Please consult the source publications available in local libraries or write to the agency indicated in the source notes. Write to the Bureau of the Census only if it is cited as the source.

**Suggestions and comments.**—Users of the *Statistical Abstract* and its supplements (see inside back cover) are urged to make their data needs known for consideration in planning future editions. Suggestions and comments for improving coverage and presentation of data should be sent to the Director, U.S. Bureau of the Census, Washington, DC 20233.

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## APPROXIMATE CONVERSION MEASURES

[For assistance on metric usage, call or write the Office of Metric Programs, U.S. Department of Commerce, Washington, DC 20230 (202-377-0944)]

Symbol	When you know conventional	Multiply by	To find metric	Symbol
in	inch	2.54	centimeter	cm
ft	foot	30.48	centimeter	cm
yd	yard	0.91	meter	m
mi	mile	1.61	kilometer	km
in <sup>2</sup>	square inch	6.45	square centimeter	cm <sup>2</sup>
ft <sup>2</sup>	square foot	0.09	square meter	m <sup>2</sup>
yd <sup>2</sup>	square yard	0.84	square meter	m <sup>2</sup>
mi <sup>2</sup>	square mile	2.59	square kilometer	km <sup>2</sup>
	acre	0.41	hectare	ha
oz	ounce <sup>1</sup>	28.35	gram	g
oz (troy)	ounce <sup>2</sup>	31.10	gram	g
	short ton (2,000 lbs)	0.91	metric ton	t
	long ton (2,240 lbs)	metric ton	t	
fl oz	fluid ounce	29.57	milliliter	mL
c	cup	0.24	liter	L
pt	pint	0.47	liter	L
qt	quart	0.95	liter	L
gal	gallon	3.78	liter	L
ft <sup>3</sup>	cubic foot	0.03	cubic meter	m <sup>3</sup>
yd <sup>3</sup>	cubic yard	0.76	cubic meter	m <sup>3</sup>
F	degrees Fahrenheit (subtract 32)	0.55	degrees Celsius	C

Symbol	When you know metric	Multiply by	To find conventional	Symbol
cm	centimeter	0.39	inch	in
cm	centimeter	0.33	foot	ft
m	meter	1.09	yard	yd
km	kilometer	0.62	mile	mi
cm <sup>2</sup>	square centimeter	0.15	square inch	in <sup>2</sup>
m <sup>2</sup>	square meter	10.76	square foot	ft <sup>2</sup>
m <sup>2</sup>	square meter	1.20	square yard	yd <sup>2</sup>
km <sup>2</sup>	square kilometer	0.39	square mile	mi <sup>2</sup>
ha	hectare	2.47	acre	
g	gram	.035	ounce <sup>1</sup>	oz
g	gram	.032	ounce <sup>2</sup>	oz (troy)
t	metric ton	1.10	short ton (2,000 lbs)	
t	metric ton	0.98	long ton (2,240 lbs)	
mL	milliliter	0.03	fluid ounce	fl oz
L	liter	4.24	cup	c
L	liter	2.13	pint (liquid)	pt
L	liter	1.05	quart (liquid)	qt
L	liter	0.26	gallon	gal
m <sup>3</sup>	cubic meter	35.32	cubic foot	ft <sup>3</sup>
m <sup>3</sup>	cubic meter	1.32	cubic yard	yd <sup>3</sup>
C	degrees Celsius	1.80	degrees Fahrenheit (after subtracting 32)	F

<sup>1</sup> For weighing ordinary commodities.

<sup>2</sup> For weighing precious metals, jewels, etc.

## Example of table structure:

**No. 1036. Motor Vehicles—Registrations, Factory Sales, and Retail Sales:  
1960 to 1989**

[For definition of average annual percent change, see Guide to Tabular  
Presentation. See also *Historical Statistics, Colonial Times to 1970*, series Q 148-155]

YEAR	REGISTRATION <sup>1</sup> (mil.)			Motor-cyclo- regis- trations <sup>1</sup> (1,000)	FACTORY SALES (1,000)			RETAIL SALES (1,000)					
	Total cars, trucks, buses	Pas- senger cars <sup>2</sup>	Trucks and buses		Total cars, trucks, buses	Pas- senger cars	Trucks and buses <sup>3</sup>	Passenger cars			Trucks		
								Total	Do- mestic	Im- ports	Total	Do- mestic	Im- ports
1960	73.9	61.7	12.2	574	7,869	6,675	1,194	6,641	6,142	499	963	926	37
1965	90.4	75.3	15.1	1,382	11,057	9,306	1,752	9,332	8,763	569	1,553	1,539	14
1970	108.4	89.2	19.2	2,824	8,239	6,547	1,692	8,405	7,119	1,285	1,811	1,746	65
1975	132.9	106.7	26.2	4,964	8,985	6,713	2,272	8,640	7,053	1,587	2,478	2,249	229
1980	155.8	121.6	34.2	5,894	8,067	6,400	1,667	8,979	6,581	2,398	2,487	2,001	488
1981	158.3	123.1	35.2	5,831	7,956	6,255	1,701	8,536	6,209	2,327	2,260	1,809	451
1982	159.6	123.7	35.9	5,754	6,955	5,049	1,906	7,982	5,759	2,223	2,560	2,146	414
1983	163.9	126.2	37.7	5,585	9,153	6,739	2,414	9,182	6,795	2,387	3,129	2,658	471
1984	166.2	128.1	38.1	5,480	10,696	7,621	3,075	10,391	7,952	2,439	4,093	3,475	618
1985	171.7	131.9	39.8	5,444	11,359	8,002	3,357	11,042	8,204	2,838	4,682	3,902	780
1986	176.2	135.4	40.8	5,262	10,909	7,516	3,393	11,460	8,215	3,245	4,863	3,921	942
1987	179.0	137.3	41.7	4,886	10,907	7,085	3,821	10,277	7,081	3,196	4,912	4,055	857
1988	184.4	141.3	43.1	4,584	11,225	7,105	4,121	10,626	7,526	3,100	5,149	4,508	641
1989 <sup>4</sup>	188.7	144.4	44.3	4,376	10,869	6,807	4,062	9,898	7,073	2,825	4,941	4,403	538

<sup>1</sup> Includes publicly owned vehicles. Excludes military services' vehicles. <sup>2</sup> Includes taxis. <sup>3</sup> Includes standard equipment. <sup>4</sup> Estimate.

Source: Registrations—U.S. Federal Highway Administration, *Selected Highway Statistics and Charts*, annual; sales—Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *MVMA Motor Vehicle Facts and Figures*, annual.

**Headnotes** immediately below table titles provide information important for correct interpretation or evaluation of the table as a whole or for a major segment of it.

**Footnotes** below the bottom rule of tables give information relating to specific items or figures within the table.

**Unit indicators** show the *specified quantities* in which data items are presented. They are used for two primary reasons. Sometimes data are not available in absolute form and are estimates (as in the case of many surveys). In other cases we round the numbers in order to save space to show more data, as in the case above.

**EXAMPLES OF UNIT INDICATOR INTERPRETATION FROM TABLE 1036**

Year	Item	Unit Indicator	Number shown	Multiplier
1989	Car registrations	Millions	144.4	1,000,000
1989	Sales	Thousands	6,807	1,000

**To Determine the Figure It Is Necessary to Multiply the  
Number Shown by the Unit Indicator:**

Car registrations = 144.4 \* 1,000,000 or 144,400,000 (almost 144.5 million).

Sales = 6,807 \* 1,000 or 6,807,000 (over 6.8 million).

When a table presents data with more than one unit indicator, they are found in the column headings or spanner (shown above), stub (table 65), or unit column (table 71). When the data in a table are shown in the same unit indicator, it is shown in boldface as the first part of the headnote (table 2). If no unit indicator is shown, data presented are in absolute form (table 1).

**Heavy vertical rules** are used to separate independent sections of a table, as shown above, or in tables where the stub is continued into one or more additional columns (table 4).

**Averages.** An average is a single number or value that is often used to represent the "typical value" of a group of numbers. It is regarded as a measure of "location" or "central tendency" of a group of numbers.

The **arithmetic mean** is the type of average used most frequently. It is derived by summing the individual item values of a particular group and dividing the total by the number of items. The arithmetic mean is often referred to as simply the "mean" or "average".

The **median** of a group of numbers is the middle number or value when each item in the group is arranged according to size (lowest to highest or visa versa); it generally has the same number of items above it as well as below it. If there is an even number of items in the group, the median is taken to be the average of the two middle numbers.

**Per capita** (or per person) quantities. A per capita figure represents an average computed for every person in a specified group (or population). It is derived by taking the total for an item (such as income, taxes, or retail sales) and dividing it by the number of persons in the specified population.

**Index numbers.** An index number is the measure of difference or change, usually expressed as a percent, relating one quantity (the variable) of a specified kind to another quantity of the same kind. Index numbers are widely used to express changes in prices over periods of time but may also be used to express differences between related subjects for a single point in time.

To compute a price index, a base year or period is selected. The base year price (of the commodity or service) is then designated as the base or reference price to which the prices for other years or periods are related. Many price indexes use the year 1982 as the base year; in tables this is shown as "1982=100". A method of expressing the price relationship is: The price of a set of one or more items for a related year (e.g. 1990) **divided by** the price of the same set of items for the base year (e.g. 1982). The result multiplied by 100 provides the index number. When 100 is subtracted from the index number, the result equals the percent change in price from the base year.

**Average annual percent change.** Unless otherwise stated in the *Abstract* (as in Section 1, Population), average annual percent change is computed by use of a *compound interest formula*. This formula assumes that the rate of change is constant throughout a specified compounding period (one year for average annual rates of change). The formula is similar to that used to compute the balance of a savings account which receives compound interest. According to this formula, at the end of a compounding period the amount of accrued change (e.g. school enrollment or bank interest) is added to the amount which existed at the beginning the period. As a result, over time (e.g., with each year or quarter), the same rate of change is applied to a larger and larger figure.

The *exponential formula*, which is based on continuous compounding, is often used to measure population change. It is preferred by population experts because they view population and population-related subjects as changing without interruption, ever ongoing. Both exponential and compound interest formulas assume a constant rate of change. The former, however, applies the amount of change continuously to the base rather than at the end of each compounding period. When the average annual rates are small (e.g., less than 5 percent) both formulas give virtually the same results. For an explanation of these two formulas as they relate to population, see U.S. Bureau of the Census, *The Methods and Materials of Demography*, vol. 2, 3d printing (rev.), 1975, pp. 372-381.

**Current and constant dollars.** Statistics in some tables in a number of sections are expressed in both current and constant dollars (see, for example, table 698 in section 14). Current dollar figures reflect actual prices or costs prevailing during the specified year(s). Constant dollar figures are estimates representing an effort to remove the effects of price changes from statistical series reported in dollar terms. In general, constant dollar series are derived by dividing current dollar estimates by the appropriate price index for the appropriate period (for example, the Consumer Price Index). The result is a series as it would presumably exist if prices were the same throughout, as in the base year—in other words as if the dollar had constant purchasing power. Any changes in this constant dollar series would reflect only changes in real volume of output, income, expenditures, or other measure.

### Explanation of Symbols:

The following symbols, used in the tables throughout this book, are explained in condensed form in footnotes to the tables where they appear:

- Represents zero or rounds to less than half the unit of measurement shown.

B Base figure too small to meet statistical standards for reliability of a derived figure.

D Figure withheld to avoid disclosure pertaining to a specific organization or individual.

NA Data not enumerated, tabulated, or otherwise available separately.

NS Percent change irrelevant or insignificant.

S Figure does not meet publication standards for reasons other than that covered by symbol B, above.

X Figure not applicable because column heading and stub line make entry impossible, absurd, or meaningless.

Z Entry would amount to less than half the unit of measurement shown.

In many tables, details will not add to the totals shown because of rounding.



# State Rankings

[When States share the same rank, the next lower rank is omitted. Because of rounded data, States may have identical values shown, but different ranks]

DIVISION AND STATE	RESIDENT POPULATION <sup>1</sup>									
	Total, <sup>2</sup> 1990		Percent increase, <sup>2</sup> 1980-90		Per square mile, <sup>2</sup> 1990		Percent in metro area, <sup>3</sup> 1990		Black, <sup>4</sup> 1990	
	Number (1,000)	Rank	Percent	Rank	Number	Rank	Percent	Rank	Number (1,000)	Rank
<b>United States</b>	<b>248,710</b>	<b>(X)</b>	<b>9.8</b>	<b>(X)</b>	<b>70.3</b>	<b>(X)</b>	<b>77.5</b>	<b>(X)</b>	<b>29,986</b>	<b>(X)</b>
<b>New England</b>	<b>13,207</b>	<b>(X)</b>	<b>7.0</b>	<b>(X)</b>	<b>210.3</b>	<b>(X)</b>	<b>80.2</b>	<b>(X)</b>	<b>628</b>	<b>(X)</b>
Maine	1,228	38	9.2	20	39.8	36	35.9	44	5	44
New Hampshire	1,109	40	20.5	6	123.7	18	56.1	34	7	43
Vermont	563	48	10.0	19	60.8	30	23.4	49	2	50
Massachusetts	6,016	13	4.9	28	767.6	3	90.4	8	300	22
Rhode Island	1,003	43	5.9	25	960.3	2	92.5	4	39	38
Connecticut	3,287	27	5.8	26	678.4	4	92.4	5	274	23
<b>Middle Atlantic</b>	<b>37,602</b>	<b>(X)</b>	<b>2.2</b>	<b>(X)</b>	<b>378.1</b>	<b>(X)</b>	<b>90.9</b>	<b>(X)</b>	<b>4,886</b>	<b>(X)</b>
New York	17,990	2	2.5	35	381.0	6	91.1	6	2,859	1
New Jersey	7,730	9	5.0	27	1,042.0	1	100.0	1	1,037	15
Pennsylvania	11,882	5	0.1	45	265.1	8	84.8	9	1,090	13
<b>East North Central</b>	<b>42,009</b>	<b>(X)</b>	<b>0.8</b>	<b>(X)</b>	<b>172.5</b>	<b>(X)</b>	<b>77.5</b>	<b>(X)</b>	<b>4,817</b>	<b>(X)</b>
Ohio	10,847	7	0.5	42	264.9	9	79.0	17	1,155	12
Indiana	5,544	14	1.0	38	154.6	16	68.5	23	432	20
Illinois	11,431	6	(Z)	46	205.6	11	82.7	11	1,694	6
Michigan	9,295	8	0.4	43	163.6	14	80.1	15	1,292	9
Wisconsin	4,892	16	4.0	32	90.1	24	67.4	26	245	25
<b>West North Central</b>	<b>17,660</b>	<b>(X)</b>	<b>2.8</b>	<b>(X)</b>	<b>34.8</b>	<b>(X)</b>	<b>57.4</b>	<b>(X)</b>	<b>899</b>	<b>(X)</b>
Minnesota	4,375	20	7.3	22	55.0	31	67.7	25	95	32
Iowa	2,777	30	-4.7	49	49.7	33	44.0	39	48	36
Missouri	5,117	15	4.1	30	74.3	27	66.2	29	548	19
North Dakota	639	47	-2.1	47	9.3	46	40.3	41	4	46
South Dakota	696	45	0.8	39	8.2	47	29.5	47	3	48
Nebraska	1,578	36	0.5	41	20.5	42	48.5	36	57	34
Kansas	2,478	32	4.8	29	30.3	39	53.8	35	143	28
<b>South Atlantic</b>	<b>43,567</b>	<b>(X)</b>	<b>17.9</b>	<b>(X)</b>	<b>183.6</b>	<b>(X)</b>	<b>74.5</b>	<b>(X)</b>	<b>8,924</b>	<b>(X)</b>
Delaware	666	46	12.1	17	340.8	7	66.3	28	112	30
Maryland	4,781	19	13.4	15	489.2	5	92.8	3	1,190	10
Distr. of Columbia	607	(X)	-4.9	(X)	9,882.8	(X)	100.0	(X)	400	(X)
Virginia	6,187	12	15.7	12	156.3	15	72.5	20	1,163	11
West Virginia	1,793	34	-8.0	50	74.5	26	36.4	43	56	35
North Carolina	6,629	10	12.7	16	136.1	17	56.7	33	1,456	7
South Carolina	3,487	25	11.7	18	115.8	20	60.6	31	1,040	14
Georgia	6,478	11	18.6	8	111.9	21	65.0	30	1,747	5
Florida	12,938	4	32.7	4	239.6	10	90.8	7	1,760	4
<b>East South Central</b>	<b>15,176</b>	<b>(X)</b>	<b>3.5</b>	<b>(X)</b>	<b>85.0</b>	<b>(X)</b>	<b>56.1</b>	<b>(X)</b>	<b>2,977</b>	<b>(X)</b>
Kentucky	3,685	23	0.7	40	92.8	23	46.5	38	263	24
Tennessee	4,877	17	6.2	24	118.3	19	67.7	24	778	18
Alabama	4,041	22	3.8	33	79.6	25	67.4	27	1,021	16
Mississippi	2,573	31	2.1	36	54.9	32	30.1	45	915	17
<b>West South Central</b>	<b>26,703</b>	<b>(X)</b>	<b>12.4</b>	<b>(X)</b>	<b>62.6</b>	<b>(X)</b>	<b>73.5</b>	<b>(X)</b>	<b>3,929</b>	<b>(X)</b>
Arkansas	2,351	33	2.8	34	45.1	35	40.1	42	374	21
Louisiana	4,220	21	0.3	44	96.9	22	69.5	21	1,299	8
Oklahoma	3,146	28	4.0	31	45.8	34	59.4	32	234	26
Texas	16,987	3	19.4	7	64.9	29	81.6	13	2,022	3
<b>Mountain</b>	<b>13,859</b>	<b>(X)</b>	<b>20.1</b>	<b>(X)</b>	<b>16.0</b>	<b>(X)</b>	<b>67.2</b>	<b>(X)</b>	<b>374</b>	<b>(X)</b>
Montana	799	44	1.6	37	5.5	48	23.9	48	2	49
Idaho	1,007	42	6.7	23	12.2	44	20.4	50	3	47
Wyoming	454	50	-3.4	48	4.7	49	29.6	46	4	45
Colorado	3,294	26	14.0	14	31.8	38	61.5	14	133	29
New Mexico	1,515	37	16.3	11	12.5	43	48.4	37	30	39
Arizona	3,865	24	34.8	3	32.3	37	79.0	18	111	31
Utah	1,723	35	17.9	9	21.0	41	77.5	18	12	42
Nevada	1,202	39	50.1	1	10.9	45	82.9	10	79	33
<b>Pacific</b>	<b>39,127</b>	<b>(X)</b>	<b>23.0</b>	<b>(X)</b>	<b>43.7</b>	<b>(X)</b>	<b>90.7</b>	<b>(X)</b>	<b>2,454</b>	<b>(X)</b>
Washington	4,867	16	17.8	10	73.1	28	81.7	12	150	27
Oregon	2,842	29	7.9	21	29.6	40	68.5	22	46	37
California	29,760	1	25.7	5	190.8	12	95.7	2	2,209	2
Alaska	550	49	36.9	2	1.0	50	41.1	40	22	41
Hawaii	1,108	41	14.9	13	172.5	13	75.5	19	27	40

X Not applicable. Z Less than .05 percent. <sup>1</sup> Source: U.S. Bureau of the Census. As of April 1. <sup>2</sup> See table 26, 1991 Statistical Abstract. <sup>3</sup> See table 35, 1991 Statistical Abstract. <sup>4</sup> See table 27, 1991 Statistical Abstract.



# State Rankings

xiii

[When States share the same rank, the next lower rank is omitted. Because of rounded data, States may have identical values shown, but different ranks]

DIVISION AND STATE	RESIDENT POPULATION, <sup>1</sup> 1990									
	Black, percent of resident population		Asian and Pacific Islanders				American Indian, Eskimo, and Aleut			
			Total		Percent of resident population		Total		Percent of resident population	
	Percent	Rank	Number (1,000)	Rank	Percent	Rank	Number (1,000)	Rank	Percent	Rank
<b>United States</b>	<b>12.1</b>	<b>(X)</b>	<b>7,274</b>	<b>(X)</b>	<b>2.9</b>	<b>(X)</b>	<b>1,959</b>	<b>(X)</b>	<b>0.8</b>	<b>(X)</b>
<b>New England</b>	<b>4.8</b>	<b>(X)</b>	<b>232</b>	<b>(X)</b>	<b>1.8</b>	<b>(X)</b>	<b>33</b>	<b>(X)</b>	<b>0.2</b>	<b>(X)</b>
Maine	0.4	47	7	45	0.5	42	6	43	0.5	23
New Hampshire	0.6	44	9	42	0.8	32	2	48	0.2	45
Vermont	0.3	48	3	48	0.6	41	2	50	0.3	33
Massachusetts	5.0	29	143	10	2.4	12	12	36	0.2	42
Rhode Island	3.9	32	18	35	1.8	15	4	46	0.4	27
Connecticut	8.3	21	51	22	1.5	18	7	42	0.2	43
<b>Middle Atlantic</b>	<b>13.3</b>	<b>(X)</b>	<b>1,104</b>	<b>(X)</b>	<b>2.9</b>	<b>(X)</b>	<b>92</b>	<b>(X)</b>	<b>0.2</b>	<b>(X)</b>
New York	15.9	12	694	2	3.9	4	63	9	0.3	30
New Jersey	13.4	16	273	6	3.5	6	15	28	0.2	44
Pennsylvania	9.2	20	137	12	1.2	24	15	29	0.1	50
<b>East North Central</b>	<b>11.5</b>	<b>(X)</b>	<b>573</b>	<b>(X)</b>	<b>1.4</b>	<b>(X)</b>	<b>150</b>	<b>(X)</b>	<b>0.4</b>	<b>(X)</b>
Ohio	10.6	19	91	14	0.8	33	20	22	0.2	47
Indiana	7.8	22	38	26	0.7	37	13	34	0.2	39
Illinois	14.8	13	285	5	2.5	10	22	21	0.2	46
Michigan	13.9	14	105	13	1.1	25	56	10	0.6	21
Wisconsin	5.0	28	54	20	1.1	26	39	14	0.8	19
<b>West North Central</b>	<b>5.1</b>	<b>(X)</b>	<b>195</b>	<b>(X)</b>	<b>1.1</b>	<b>(X)</b>	<b>188</b>	<b>(X)</b>	<b>1.1</b>	<b>(X)</b>
Minnesota	2.2	39	78	15	1.8	17	50	12	1.1	15
Iowa	1.7	40	25	31	0.9	31	7	41	0.3	36
Missouri	10.7	18	41	23	0.8	34	20	23	0.4	29
North Dakota	0.6	45	3	47	0.5	43	26	18	4.1	7
South Dakota	0.5	46	3	49	0.4	49	51	11	7.3	4
Nebraska	3.6	33	12	40	0.8	35	12	35	0.8	20
Kansas	5.8	27	32	30	1.3	21	22	20	0.9	16
<b>South Atlantic</b>	<b>20.5</b>	<b>(X)</b>	<b>631</b>	<b>(X)</b>	<b>1.4</b>	<b>(X)</b>	<b>172</b>	<b>(X)</b>	<b>0.4</b>	<b>(X)</b>
Delaware	16.9	9	9	43	1.4	20	2	49	0.3	32
Maryland	24.9	6	140	11	2.9	8	13	32	0.3	35
Distr. of Columbia	65.8	(X)	11	(X)	1.8	(X)	1	(X)	0.2	(X)
Virginia	18.8	8	159	8	2.6	9	15	27	0.2	37
West Virginia	3.1	34	7	44	0.4	50	2	47	0.1	49
North Carolina	22.0	7	52	21	0.8	36	80	7	1.2	14
South Carolina	29.8	3	22	32	0.6	39	8	40	0.2	38
Georgia	27.0	4	76	16	1.2	23	13	31	0.2	40
Florida	13.6	15	154	9	1.2	22	36	16	0.3	34
<b>East South Central</b>	<b>19.6</b>	<b>(X)</b>	<b>84</b>	<b>(X)</b>	<b>0.6</b>	<b>(X)</b>	<b>41</b>	<b>(X)</b>	<b>0.3</b>	<b>(X)</b>
Kentucky	7.1	25	18	36	0.5	46	6	44	0.2	48
Tennessee	16.0	10	32	29	0.7	38	10	37	0.2	41
Alabama	25.3	5	22	33	0.5	44	17	26	0.4	26
Mississippi	35.6	1	13	38	0.5	47	9	39	0.3	31
<b>West South Central</b>	<b>14.7</b>	<b>(X)</b>	<b>407</b>	<b>(X)</b>	<b>1.5</b>	<b>(X)</b>	<b>350</b>	<b>(X)</b>	<b>1.3</b>	<b>(X)</b>
Arkansas	15.9	11	13	39	0.5	45	13	33	0.5	22
Louisiana	30.8	2	41	24	1.0	28	19	25	0.4	25
Oklahoma	7.4	23	34	27	1.1	27	252	1	8.0	3
Texas	11.9	17	319	4	1.9	14	66	8	0.4	28
<b>Mountain</b>	<b>2.7</b>	<b>(X)</b>	<b>217</b>	<b>(X)</b>	<b>1.6</b>	<b>(X)</b>	<b>481</b>	<b>(X)</b>	<b>3.5</b>	<b>(X)</b>
Montana	0.3	50	4	46	0.5	46	48	13	6.0	5
Idaho	0.3	49	9	41	0.9	30	14	30	1.4	12
Wyoming	0.8	42	3	50	0.6	40	9	38	2.1	8
Colorado	4.0	31	60	18	1.8	16	28	17	0.8	17
New Mexico	2.0	39	14	37	0.9	29	134	4	8.9	2
Arizona	3.0	36	55	19	1.5	19	204	3	5.6	6
Utah	0.7	43	33	28	1.9	13	24	19	1.4	11
Nevada	6.6	26	38	25	3.2	7	20	24	1.6	10
<b>Pacific</b>	<b>6.3</b>	<b>(X)</b>	<b>3,831</b>	<b>(X)</b>	<b>9.8</b>	<b>(X)</b>	<b>453</b>	<b>(X)</b>	<b>1.2</b>	<b>(X)</b>
Washington	3.1	35	211	7	4.3	3	81	6	1.7	9
Oregon	1.6	41	69	17	2.4	11	38	15	1.4	13
California	7.4	24	2,846	1	9.6	2	242	2	0.8	18
Alaska	4.1	30	20	34	3.6	5	86	5	15.6	1
Hawaii	2.5	37	685	3	61.8	1	5	45	0.5	24

X Not applicable. <sup>1</sup> Source: U.S. Bureau of the Census. As of April 1.

## State Rankings

[When States share the same rank, the next lower rank is omitted. Because of rounded data, States may have identical values shown, but different ranks]

DIVISION AND STATE	RESIDENT POPULATION, PERSONS OF HISPANIC ORIGIN, <sup>1</sup> 1990				HOUSEHOLDS, PERCENT CHANGE, <sup>2</sup> 1980-90		BIRTHS, <sup>3</sup> 1988			
	Total		Percent of resident population				Rate per 1,000 population <sup>4</sup>		Percent to mothers under under 20 years old <sup>5</sup>	
	Number (1,000)	Rank	Percent	Rank	Percent	Rank	Rate	Rank	Percent	Rank
<b>United States</b>	<b>22,354</b>	<b>(X)</b>	<b>9.0</b>	<b>(X)</b>	<b>14.4</b>	<b>(X)</b>	<b>15.9</b>	<b>(X)</b>	<b>12.5</b>	<b>(X)</b>
<b>New England</b>	<b>568</b>	<b>(X)</b>	<b>4.3</b>	<b>(X)</b>	<b>13.3</b>	<b>(X)</b>	<b>14.9</b>	<b>(X)</b>	<b>8.7</b>	<b>(X)</b>
Maine	7	47	0.6	49	17.7	20	14.3	45	10.9	30
New Hampshire	11	45	1.0	39	27.1	5	16.0	14	7.5	49
Vermont	4	50	0.7	45	18.1	19	14.6	38	8.9	44
Massachusetts	288	10	4.8	16	10.5	28	15.0	28	8.2	47
Rhode Island	46	32	4.6	17	11.6	25	14.3	45	10.3	35
Connecticut	213	13	6.5	12	12.5	23	14.9	31	8.6	46
<b>Middle Atlantic</b>	<b>3,186</b>	<b>(X)</b>	<b>8.5</b>	<b>(X)</b>	<b>6.3</b>	<b>(X)</b>	<b>15.0</b>	<b>(X)</b>	<b>9.8</b>	<b>(X)</b>
New York	2,214	3	12.3	6	4.7	46	15.7	18	9.4	38
New Jersey	740	6	9.6	9	9.7	31	15.3	25	8.9	44
Pennsylvania	232	11	2.0	29	6.5	42	13.8	47	10.9	30
<b>East North Central</b>	<b>1,438</b>	<b>(X)</b>	<b>3.4</b>	<b>(X)</b>	<b>6.4</b>	<b>(X)</b>	<b>15.1</b>	<b>(X)</b>	<b>12.7</b>	<b>(X)</b>
Ohio	140	16	1.3	34	6.6	41	14.8	35	13.5	18
Indiana	99	21	1.8	31	7.2	38	14.7	37	14.1	14
Illinois	904	5	7.9	10	3.9	47	15.9	15	12.5	20
Michigan	202	14	2.2	28	7.0	39	15.1	26	12.5	20
Wisconsin	93	23	1.9	30	10.3	29	14.6	38	9.8	37
<b>West North Central</b>	<b>289</b>	<b>(X)</b>	<b>1.6</b>	<b>(X)</b>	<b>8.3</b>	<b>(X)</b>	<b>14.9</b>	<b>(X)</b>	<b>10.3</b>	<b>(X)</b>
Minnesota	54	30	1.2	35	14.0	22	15.5	22	7.3	50
Iowa	33	35	1.2	37	1.1	49	13.5	49	9.3	40
Missouri	62	29	1.2	36	9.4	32	14.9	31	13.7	16
North Dakota	5	49	0.7	43	5.8	44	15.1	26	7.6	48
South Dakota	5	48	0.8	42	6.8	40	15.7	18	10.6	33
Nebraska	37	33	2.3	26	5.4	45	14.9	31	9.3	40
Kansas	94	22	3.8	20	8.3	35	15.5	22	11.4	25
<b>South Atlantic</b>	<b>2,133</b>	<b>(X)</b>	<b>4.9</b>	<b>(X)</b>	<b>25.4</b>	<b>(X)</b>	<b>15.4</b>	<b>(X)</b>	<b>14.3</b>	<b>(X)</b>
Delaware	16	43	2.4	25	19.5	18	15.8	17	12.8	19
Maryland	125	17	2.6	23	19.7	17	16.4	11	11.2	27
Distr. of Columbia	33	(X)	5.4	(X)	-1.4	(X)	17.1	(X)	17.6	(X)
Virginia	160	15	2.6	24	23.0	9	15.5	22	11.2	27
West Virginia	8	46	0.5	50	0.3	50	11.6	50	16.9	6
North Carolina	77	28	1.2	38	23.2	7	15.0	28	18.0	10
South Carolina	31	36	0.9	40	22.1	11	15.9	15	16.8	7
Georgia	109	20	1.7	32	26.4	6	16.7	10	16.5	9
Florida	1,574	4	12.2	7	37.1	4	14.9	31	13.7	16
<b>East South Central</b>	<b>95</b>	<b>(X)</b>	<b>0.6</b>	<b>(X)</b>	<b>11.9</b>	<b>(X)</b>	<b>14.6</b>	<b>(X)</b>	<b>17.9</b>	<b>(X)</b>
Kentucky	22	39	0.6	48	9.2	33	13.7	48	17.3	4
Tennessee	33	34	0.7	44	14.5	21	14.4	44	17.2	5
Alabama	25	38	0.6	47	12.3	24	14.8	35	17.4	3
Mississippi	16	42	0.6	46	10.2	30	16.1	13	20.7	1
<b>West South Central</b>	<b>4,539</b>	<b>(X)</b>	<b>17.0</b>	<b>(X)</b>	<b>16.8</b>	<b>(X)</b>	<b>17.1</b>	<b>(X)</b>	<b>15.8</b>	<b>(X)</b>
Arkansas	20	40	0.8	41	9.2	34	14.6	38	18.9	2
Louisiana	93	24	2.2	27	6.2	43	16.8	9	16.8	7
Oklahoma	86	25	2.7	22	7.8	37	14.6	38	16.0	10
Texas	4,340	2	25.5	3	23.2	8	18.0	5	15.2	13
<b>Mountain</b>	<b>1,992</b>	<b>(X)</b>	<b>14.6</b>	<b>(X)</b>	<b>26.3</b>	<b>(X)</b>	<b>17.6</b>	<b>(X)</b>	<b>12.1</b>	<b>(X)</b>
Montana	12	44	1.5	33	7.9	36	14.5	42	9.9	36
Idaho	53	31	5.3	14	11.3	26	15.7	18	11.6	24
Wyoming	26	37	5.7	13	1.9	48	15.0	28	12.0	23
Colorado	424	9	12.9	5	20.8	14	16.2	12	10.7	32
New Mexico	579	8	38.2	1	22.9	10	17.9	6	15.7	12
Arizona	688	7	18.8	4	43.0	3	18.8	3	13.8	15
Utah	85	26	4.9	15	19.8	16	21.3	2	9.3	40
Nevada	124	18	10.4	8	53.2	1	17.1	8	12.5	20
<b>Pacific</b>	<b>8,114</b>	<b>(X)</b>	<b>20.7</b>	<b>(X)</b>	<b>20.0</b>	<b>(X)</b>	<b>18.1</b>	<b>(X)</b>	<b>10.9</b>	<b>(X)</b>
Washington	215	12	4.4	18	21.5	12	15.6	21	10.6	33
Oregon	113	19	4.0	19	11.3	27	14.5	42	11.4	25
California	7,688	1	25.8	2	20.3	15	18.8	3	11.1	29
Alaska	18	41	3.2	21	43.7	2	21.4	1	9.3	40
Hawaii	81	27	7.3	11	21.2	13	17.3	7	9.4	38

X Not applicable. <sup>1</sup> See table 27, 1991 Statistical Abstract. Source: U.S. Bureau of the Census. As of April 1. <sup>2</sup> See table 61, 1991 Statistical Abstract. Source: U.S. Bureau of the Census. As of April 1. <sup>3</sup> Source: U.S. National Center for Health Statistics. <sup>4</sup> See table 85, 1991 Statistical Abstract. Registered births per 1,000 population, by place of residence. <sup>5</sup> See table 93, 1991 Statistical Abstract.

# State Rankings

XV

[When States share the same rank, the next lower rank is omitted. Because of rounded data, States may have identical values shown, but different ranks]

DIVISION AND STATE	LEGAL ABORTIONS, RATIO PER 1,000 LIVE BIRTHS, <sup>1</sup> 1988		INFANT MORTALITY RATE, <sup>2</sup> 1988		COMMUNITY HOSPITALS					
					Beds per 100,000 population, <sup>3</sup> 1988		Occupancy rate, <sup>4</sup> 1988		Average daily room charges, <sup>5</sup> 1980	
	Rate	Rank	Rate	Rank	Rate	Rank	Rate	Rank	Dollars	Rank
<b>United States</b> . . . . .	<b>404</b>	<b>(X)</b>	<b>10.0</b>	<b>(X)</b>	<b>384</b>	<b>(X)</b>	<b>65.7</b>	<b>(X)</b>	<b>315</b>	<b>(X)</b>
<b>New England</b> . . . . .	<b>436</b>	<b>(X)</b>	<b>8.1</b>	<b>(X)</b>	<b>355</b>	<b>(X)</b>	<b>73.5</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>
Maine . . . . .	283	28	7.9	46	382	27	70.7	11	330	15
New Hampshire . . . . .	261	33	8.3	42	323	36	65.6	17	321	18
Vermont . . . . .	454	11	6.8	50	315	39	66.5	14	374	9
Massachusetts . . . . .	452	12	7.9	46	394	26	73.4	8	404	6
Rhode Island . . . . .	481	8	8.2	43	328	33	83.0	3	365	10
Connecticut . . . . .	510	6	8.9	33	300	41	76.2	7	434	2
<b>Middle Atlantic</b> . . . . .	<b>520</b>	<b>(X)</b>	<b>10.3</b>	<b>(X)</b>	<b>413</b>	<b>(X)</b>	<b>79.2</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>
New York . . . . .	634	1	10.8	13	417	20	85.3	1	415	3
New Jersey . . . . .	557	5	9.9	23	369	29	78.0	4	271	26
Pennsylvania . . . . .	302	25	9.9	23	435	15	71.1	9	408	4
<b>East North Central</b> . . . . .	<b>345</b>	<b>(X)</b>	<b>10.5</b>	<b>(X)</b>	<b>407</b>	<b>(X)</b>	<b>63.7</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>
Ohio . . . . .	326	23	9.7	25	418	19	65.3	18	307	19
Indiana . . . . .	185	43	11.0	11	414	22	58.2	37	271	26
Illinois . . . . .	395	15	11.3	8	424	18	63.1	25	326	16
Michigan . . . . .	446	13	11.1	10	372	28	66.3	15	338	13
Wisconsin . . . . .	251	37	8.4	40	398	24	63.3	24	223	40
<b>West North Central</b> . . . . .	<b>263</b>	<b>(X)</b>	<b>8.9</b>	<b>(X)</b>	<b>503</b>	<b>(X)</b>	<b>60.8</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>
Minnesota . . . . .	281	29	7.8	48	476	9	63.9	21	281	23
Iowa . . . . .	254	36	8.7	36	516	5	60.7	30	220	41
Missouri . . . . .	264	31	10.1	20	480	7	61.9	27	259	30
North Dakota . . . . .	198	42	10.5	18	694	1	63.9	21	236	35
South Dakota . . . . .	82	50	10.1	20	558	3	59.2	35	206	46
Nebraska . . . . .	263	32	9.0	28	574	2	55.9	45	208	45
Kansas . . . . .	308	24	8.0	44	468	10	56.4	43	267	28
<b>South Atlantic</b> . . . . .	<b>411</b>	<b>(X)</b>	<b>11.6</b>	<b>(X)</b>	<b>374</b>	<b>(X)</b>	<b>66.5</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>
Delaware . . . . .	502	7	11.8	6	304	40	77.0	6	385	7
Maryland . . . . .	466	10	11.3	8	289	43	77.6	5	277	24
Distr. of Columbia . . . . .	1,257	(X)	23.2	(X)	775	(X)	75.8	(X)	325	(X)
Virginia . . . . .	385	18	10.4	19	334	32	67.2	12	228	36
West Virginia . . . . .	141	45	9.0	28	463	12	61.0	29	240	34
North Carolina . . . . .	392	17	12.5	2	335	31	71.1	9	215	43
South Carolina . . . . .	259	34	12.3	3	328	33	67.1	13	212	44
Georgia . . . . .	333	21	12.6	1	402	23	65.7	16	197	47
Florida . . . . .	437	14	10.6	17	416	21	61.4	28	277	24
<b>East South Central</b> . . . . .	<b>242</b>	<b>(X)</b>	<b>11.4</b>	<b>(X)</b>	<b>465</b>	<b>(X)</b>	<b>61.3</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>
Kentucky . . . . .	215	40	10.7	15	427	17	60.6	31	266	29
Tennessee . . . . .	292	26	10.8	13	480	7	64.9	19	196	48
Alabama . . . . .	284	27	12.1	5	454	13	60.0	33	225	38
Mississippi . . . . .	123	48	12.3	3	509	6	57.5	38	162	50
<b>West South Central</b> . . . . .	<b>300</b>	<b>(X)</b>	<b>9.4</b>	<b>(X)</b>	<b>385</b>	<b>(X)</b>	<b>55.9</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>
Arkansas . . . . .	182	44	10.7	15	448	14	56.9	40	180	49
Louisiana . . . . .	243	39	11.0	11	431	16	55.6	47	220	41
Oklahoma . . . . .	257	35	9.0	28	398	24	57.4	39	224	39
Texas . . . . .	333	21	9.0	28	362	30	55.5	48	228	36
<b>Mountain</b> . . . . .	<b>297</b>	<b>(X)</b>	<b>9.2</b>	<b>(X)</b>	<b>322</b>	<b>(X)</b>	<b>59.7</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>
Montana . . . . .	265	30	8.7	36	558	3	62.5	26	294	21
Idaho . . . . .	125	47	8.8	35	323	36	56.6	41	259	30
Wyoming . . . . .	90	49	8.9	33	467	11	51.7	49	242	33
Colorado . . . . .	335	20	9.6	27	326	35	60.6	31	326	16
New Mexico . . . . .	251	37	10.0	22	274	46	58.9	36	252	32
Arizona . . . . .	350	19	9.7	25	291	42	63.5	23	296	20
Utah . . . . .	139	46	8.0	44	267	47	56.5	42	338	13
Nevada . . . . .	558	4	8.4	40	320	38	55.8	46	285	22
<b>Pacific</b> . . . . .	<b>566</b>	<b>(X)</b>	<b>8.6</b>	<b>(X)</b>	<b>284</b>	<b>(X)</b>	<b>63.5</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>
Washington . . . . .	475	9	9.0	28	267	47	59.8	34	346	12
Oregon . . . . .	393	16	8.6	38	289	43	56.4	43	375	8
California . . . . .	598	2	8.6	38	288	45	64.3	20	452	1
Alaska . . . . .	215	40	11.6	7	230	50	49.8	50	407	5
Hawaii . . . . .	579	3	7.2	49	253	49	83.2	2	349	11

NA Not available. X Not applicable. <sup>1</sup> See table 104, 1991 Statistical Abstract. Source: The Alan Guttmacher Institute, New York, NY, (copyright). Abortion ratios are computed as the number of abortions per 1,000 live births from July 1, 1987 to June 30, 1988 by state of occurrence. <sup>2</sup> See table 115, 1991 Statistical Abstract. Source: U.S. National Center for Health Statistics. Represents deaths of infants under 1 year old per 1,000 live births, by place of residence. Excludes fetal deaths. <sup>3</sup> See table 168, 1991 Statistical Abstract. Source: American Hospital Association, Chicago, IL (copyright). <sup>4</sup> Ratio of average daily census to every 100 beds. <sup>5</sup> See table 171, 1991 Statistical Abstract. Source: Health Insurance Association of America, Washington, DC. As of January. Covers non-government short-term general hospitals and represents average cost to patient to semi-private room.

## State Rankings

[When States share the same rank, the next lower rank is omitted. Because of rounded data, States may have identical values shown, but different ranks]

DIVISION AND STATE	PHYSICIANS, RATE PER 100,000 POPULATION, <sup>1</sup> 1988		PUBLIC ELEMENTARY AND SECONDARY SCHOOLS						COLLEGE ENROLLMENT, PERCENT FEMALE, <sup>2 6</sup> 1988	
			Enrollment, projected increase, <sup>2 3</sup> 1988-91		Teachers' average salaries, <sup>4</sup> 1989-90		Highschool graduates, percent increase, <sup>5</sup> 1980-92			
	Rate	Rank	Percent	Rank	Dollars	Rank	Percent	Rank	Percent	Rank
<b>United States</b>	<b>210</b>	<b>(X)</b>	<b>3.0</b>	<b>(X)</b>	<b>31,200</b>	<b>(X)</b>	<b>-18.9</b>	<b>(X)</b>	<b>54.0</b>	<b>(X)</b>
<b>New England</b>	<b>280</b>	<b>(X)</b>	<b>3.3</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>-30.9</b>	<b>(X)</b>	<b>55.5</b>	<b>(X)</b>
Maine	173	29	1.4	28	26,881	35	-20.1	28	56.3	7
New Hampshire	186	23	8.2	6	28,986	24	-16.2	21	54.5	25
Vermont	244	5	1.1	30	28,798	26	-22.4	30	58.8	1
Massachusetts	322	2	2.2	22	34,175	9	-36.6	50	55.3	16
Rhode Island	244	5	3.7	17	36,057	6	-33.0	47	54.7	22
Connecticut	293	4	4.8	11	40,461	2	-29.7	42	56.0	12
<b>Middle Atlantic</b>	<b>267</b>	<b>(X)</b>	<b>1.1</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>-32.9</b>	<b>(X)</b>	<b>54.9</b>	<b>(X)</b>
New York	307	3	0.8	33	38,925	3	-34.0	49	55.5	15
New Jersey	234	8	3.3	18	35,676	8	-33.5	48	54.8	20
Pennsylvania	227	9	0.2	35	33,338	11	-31.1	45	54.0	30
<b>East North Central</b>	<b>187</b>	<b>(X)</b>	<b>0.3</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>-25.7</b>	<b>(X)</b>	<b>53.4</b>	<b>(X)</b>
Ohio	191	18	-0.4	41	31,200	16	-23.8	32	51.3	48
Indiana	151	40	-0.4	41	30,493	21	-23.5	31	52.2	45
Illinois	210	12	0.9	32	32,794	12	-25.3	36	54.1	29
Michigan	180	26	-0.1	39	36,010	7	-28.0	38	54.7	22
Wisconsin	181	25	2.2	22	31,921	15	-28.7	40	54.0	30
<b>West North Central</b>	<b>180</b>	<b>(X)</b>	<b>1.7</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>-26.5</b>	<b>(X)</b>	<b>53.6</b>	<b>(X)</b>
Minnesota	212	11	3.9	16	32,190	13	-28.4	39	54.7	22
Iowa	145	43	-2.5	48	26,747	36	-32.7	46	52.2	45
Missouri	190	21	2.2	22	27,229	32	-24.4	34	53.8	35
North Dakota	167	34	-0.8	45	23,016	47	-24.2	33	47.4	49
South Dakota	138	46	3.1	20	21,300	50	-29.9	43	54.8	20
Nebraska	168	33	0.7	34	25,522	38	-24.6	35	53.3	37
Kansas	169	31	2.3	21	28,671	27	-19.1	27	54.2	28
<b>South Atlantic</b>	<b>207</b>	<b>(X)</b>	<b>4.7</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>-11.8</b>	<b>(X)</b>	<b>55.2</b>	<b>(X)</b>
Delaware	191	18	4.1	15	33,377	10	-30.3	44	57.9	2
Maryland	325	1	7.4	8	36,601	4	-28.9	41	56.2	9
Dist. of Columbia	591	(X)	-1.2	(X)	37,950	(X)	-34.0	(X)	53.2	(X)
Virginia	204	14	4.5	13	30,926	17	-13.7	17	56.1	10
West Virginia	164	36	-7.7	50	22,842	48	-14.1	19	56.3	7
North Carolina	179	27	1.2	29	27,814	30	-13.7	17	55.9	13
South Carolina	156	39	1.8	26	27,200	33	-10.3	12	56.1	10
Georgia	167	34	5.9	10	27,892	29	-8.4	9	53.2	38
Florida	203	15	9.1	4	28,806	25	2.4	3	54.5	25
<b>East South Central</b>	<b>160</b>	<b>(X)</b>	<b>-0.8</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>-13.6</b>	<b>(X)</b>	<b>54.6</b>	<b>(X)</b>
Kentucky	161	37	-2.7	49	26,275	37	-18.2	25	56.9	4
Tennessee	187	22	-	37	27,052	34	-10.8	13	53.9	33
Alabama	151	40	0.1	36	25,500	39	-12.6	15	52.5	44
Mississippi	125	49	-1.2	47	24,364	42	-13.0	16	56.6	5
<b>West South Central</b>	<b>166</b>	<b>(X)</b>	<b>1.5</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>-6.9</b>	<b>(X)</b>	<b>53.5</b>	<b>(X)</b>
Arkansas	144	45	0.2	40	22,009	49	-11.0	14	56.5	6
Louisiana	184	24	1.1	30	24,300	43	-21.8	29	55.1	18
Oklahoma	145	43	-0.5	43	23,070	46	-18.6	26	54.0	30
Texas	169	31	2.1	25	27,496	31	0.5	4	52.8	40
<b>Mountain</b>	<b>177</b>	<b>(X)</b>	<b>5.8</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>-5.9</b>	<b>(X)</b>	<b>52.5</b>	<b>(X)</b>
Montana	150	42	0.7	44	25,081	41	-26.4	37	52.8	40
Idaho	120	50	-	37	23,861	44	-4.5	8	52.2	45
Wyoming	134	48	-1.0	46	28,188	28	-9.8	11	55.6	14
Colorado	202	16	4.5	13	30,758	19	-16.8	22	52.7	42
New Mexico	173	29	8.2	6	25,120	40	-14.7	20	54.4	27
Arizona	191	18	11.5	1	29,402	23	-0.3	6	53.1	39
Utah	177	28	3.2	19	23,735	45	19.0	1	47.2	50
Nevada	158	38	10.2	2	30,590	20	12.9	2	55.1	18
<b>Pacific</b>	<b>232</b>	<b>(X)</b>	<b>7.9</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>-5.7</b>	<b>(X)</b>	<b>54.0</b>	<b>(X)</b>
Washington	206	13	4.6	12	30,475	22	-8.9	10	55.3	16
Oregon	196	17	1.5	27	30,840	18	-17.1	23	52.6	43
California	242	7	9.2	3	36,418	5	-3.3	7	53.9	33
Alaska	138	46	8.4	5	43,153	1	-	5	57.1	3
Hawaii	225	10	6.5	9	32,047	14	-17.4	24	53.8	35

- Represents or rounds to zero. NA Not available. X Not applicable. <sup>1</sup> See table 160, 1991 Statistical Abstract. Source: American Medical Association, Chicago, IL (copyright). Covers active non-Federal physicians and includes physicians not classified according to activity status. <sup>2</sup> Source: U.S. Department of Education, National Center for Education Statistics. <sup>3</sup> See tables 234 and 235, 1991 Statistical Abstract. <sup>4</sup> See table 238, 1991 Statistical Abstract. Source: National Education Association, Washington, DC (copyright). Data presented are revised. <sup>5</sup> See table 256, 1991 Statistical Abstract. <sup>6</sup> See table 267, 1991 Statistical Abstract.

# State Rankings

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[When States share the same rank, the next lower rank is omitted. Because of rounded data, States may have identical values shown, but different ranks]

DIVISION AND STATE	VIOLENT CRIME RATE PER 100,000 POPULATION, <sup>1</sup> 1989		FEDERAL AND STATE PRISONERS, PERCENT CHANGE, <sup>2</sup> 1980-89		SOCIAL SECURITY RECIPIENTS, PERCENT OF POPULATION, <sup>3</sup> 1989		PUBLIC AID RECIPIENTS, PERCENT OF POPULATION, <sup>4</sup> 1989		FOOD STAMP RECIPIENTS, PERCENT OF POPULATION, <sup>5</sup> 1989	
	Rate	Rank	Percent	Rank	Percent	Rank	Percent	Rank	Percent	Rank
<b>United States</b>	<b>663</b>	<b>(X)</b>	<b>115.3</b>	<b>(X)</b>	<b>15.4</b>	<b>(X)</b>	<b>6.1</b>	<b>(X)</b>	<b>7.6</b>	<b>(X)</b>
<b>New England</b>	<b>495</b>	<b>(X)</b>	<b>129.9</b>	<b>(X)</b>	<b>16.2</b>	<b>(X)</b>	<b>5.1</b>	<b>(X)</b>	<b>4.9</b>	<b>(X)</b>
Maine	137	46	78.7	39	17.3	9	6.1	14	6.7	23
New Hampshire	168	44	257.7	1	14.3	38	1.8	50	2.1	50
Vermont	133	48	86.7	35	15.2	31	5.2	24	6.0	27
Massachusetts	675	11	136.2	15	16.2	21	6.0	15	5.4	39
Rhode Island	378	32	204.9	5	17.9	6	5.9	17	5.8	30
Connecticut	512	22	115.9	23	16.0	25	4.2	34	3.6	49
<b>Middle Atlantic</b>	<b>784</b>	<b>(X)</b>	<b>156.3</b>	<b>(X)</b>	<b>16.5</b>	<b>(X)</b>	<b>6.5</b>	<b>(X)</b>	<b>7.2</b>	<b>(X)</b>
New York	1,131	1	134.8	16	15.6	29	7.8	6	8.1	14
New Jersey	609	15	230.4	4	15.7	28	5.1	25	4.7	45
Pennsylvania	379	31	160.3	9	18.4	4	5.8	18	7.5	19
<b>East North Central</b>	<b>589</b>	<b>(X)</b>	<b>107.4</b>	<b>(X)</b>	<b>15.9</b>	<b>(X)</b>	<b>6.7</b>	<b>(X)</b>	<b>8.2</b>	<b>(X)</b>
Ohio	469	28	126.4	19	16.3	19	7.1	7	9.7	9
Indiana	406	29	84.7	36	16.1	23	3.6	43	5.1	44
Illinois	846	5	107.7	28	14.9	35	6.7	9	8.3	13
Michigan	709	9	109.9	27	15.8	27	8.3	4	9.4	11
Wisconsin	223	43	70.6	42	17.0	12	6.6	11	5.8	29
<b>West North Central</b>	<b>385</b>	<b>(X)</b>	<b>102.1</b>	<b>(X)</b>	<b>16.8</b>	<b>(X)</b>	<b>4.6</b>	<b>(X)</b>	<b>6.3</b>	<b>(X)</b>
Minnesota	288	36	55.1	45	15.2	32	4.6	30	5.7	32
Iowa	266	39	44.5	47	18.3	5	4.5	33	5.7	31
Missouri	633	13	143.1	12	17.5	8	5.5	21	7.9	16
North Dakota	63	50	78.3	40	16.8	15	3.4	45	5.6	34
South Dakota	136	47	101.1	30	17.8	7	4.0	38	6.9	22
Nebraska	280	37	68.6	43	16.4	17	3.5	44	5.6	35
Kansas	401	30	125.4	21	16.1	22	3.9	41	5.3	42
<b>South Atlantic</b>	<b>768</b>	<b>(X)</b>	<b>79.2</b>	<b>(X)</b>	<b>16.2</b>	<b>(X)</b>	<b>5.1</b>	<b>(X)</b>	<b>6.8</b>	<b>(X)</b>
Delaware	556	18	128.3	18	15.2	33	4.0	36	4.5	46
Maryland	855	4	113.6	24	12.8	44	4.9	28	5.3	43
Distr. of Columbia	2,142	(X)	194.7	(X)	12.9	(X)	10.5	(X)	9.8	(X)
Virginia	313	34	84.7	36	13.4	42	3.8	42	5.4	40
West Virginia	147	45	22.2	49	19.8	2	8.2	5	13.7	3
North Carolina	546	20	12.5	50	15.9	26	5.3	23	5.9	28
South Carolina	814	6	98.9	31	15.1	34	5.5	21	13.0	4
Georgia	736	8	71.5	41	13.4	41	6.6	11	7.7	18
Florida	1,109	2	92.9	33	20.3	1	4.2	34	5.5	37
<b>East South Central</b>	<b>473</b>	<b>(X)</b>	<b>93.4</b>	<b>(X)</b>	<b>16.8</b>	<b>(X)</b>	<b>7.4</b>	<b>(X)</b>	<b>12.1</b>	<b>(X)</b>
Kentucky	357	33	131.0	17	17.1	11	7.0	8	11.9	5
Tennessee	549	19	51.3	46	16.4	18	6.7	9	10.0	7
Alabama	591	17	112.5	25	16.9	14	6.3	13	10.6	6
Mississippi	311	35	102.7	29	17.0	12	11.0	1	18.8	1
<b>West South Central</b>	<b>642</b>	<b>(X)</b>	<b>63.2</b>	<b>(X)</b>	<b>14.0</b>	<b>(X)</b>	<b>5.7</b>	<b>(X)</b>	<b>10.7</b>	<b>(X)</b>
Arkansas	474	25	120.2	22	19.2	3	6.0	15	9.3	12
Louisiana	782	7	94.1	32	14.6	37	9.2	2	16.4	2
Oklahoma	492	24	138.2	13	16.3	20	5.0	26	7.8	17
Texas	659	12	36.5	48	12.6	46	4.9	28	10.0	8
<b>Mountain</b>	<b>472</b>	<b>(X)</b>	<b>171.0</b>	<b>(X)</b>	<b>13.9</b>	<b>(X)</b>	<b>3.9</b>	<b>(X)</b>	<b>6.7</b>	<b>(X)</b>
Montana	116	49	84.3	38	16.8	16	4.6	30	6.6	24
Idaho	255	42	126.4	19	15.2	30	2.6	49	5.6	33
Wyoming	258	41	92.1	34	12.6	45	3.4	45	5.5	38
Colorado	471	27	178.4	8	12.3	48	4.0	38	6.3	25
New Mexico	704	10	137.2	14	13.9	40	5.7	20	9.6	10
Arizona	600	16	203.1	6	16.0	24	4.1	37	8.0	15
Utah	259	40	155.2	10	10.8	49	3.2	47	5.5	36
Nevada	625	14	192.9	7	14.0	39	2.8	48	4.1	48
<b>Pacific</b>	<b>854</b>	<b>(X)</b>	<b>212.7</b>	<b>(X)</b>	<b>13.0</b>	<b>(X)</b>	<b>7.9</b>	<b>(X)</b>	<b>6.1</b>	<b>(X)</b>
Washington	472	26	57.5	44	14.7	36	5.8	18	5.4	41
Oregon	519	21	112.3	26	17.1	10	4.2	34	7.2	20
California	978	3	255.3	2	12.4	47	8.8	3	6.2	26
Alaska	498	23	233.8	3	6.1	50	4.6	30	4.4	47
Hawaii	270	38	150.8	11	13.0	43	5.0	26	6.9	21

X Not applicable. <sup>1</sup> See table 294, 1991 Statistical Abstract. Source: U.S. Federal Bureau of Investigation. Based on offenses known to the police. <sup>2</sup> See table 338, 1991 Statistical Abstract. Source: U.S. Bureau of Justice Statistics. <sup>3</sup> See table 594, 1991 Statistical Abstract. Source: U.S. Social Security Administration. Data compiled by U.S. Bureau of the Census. <sup>4</sup> See table 614, 1991 Statistical Abstract. Source: U.S. Social Security Administration and Family Support Administration. Data compiled by U.S. Bureau of the Census. Total recipients of Aid to Families with Dependent Children and Federal Supplemental Income as percent of resident population. <sup>5</sup> See table 611, 1991 Statistical Abstract. Source: U.S. Department of Agriculture, Food and Nutrition Service.

## State Rankings

[When States share the same rank, the next lower rank is omitted. Because of rounded data, States may have identical values shown, but different ranks]

DIVISION AND STATE	FEDERAL GOVERNMENT, FUNDS FOR DEFENSE, <sup>1</sup> 1989		CIVILIAN LABOR FORCE, <sup>2</sup> 1989				NONAGRICULTURAL EMPLOYMENT <sup>4</sup>			
			Unemployment rate <sup>3</sup>		Female participation rate		Percent increase, 1980-89		Service employees, percent of total, 1989	
	Mil. dol.	Rank	Rate	Rank	Rate	Rank	Percent	Rank	Percent	Rank
<b>United States</b> . . . . .	<b>212,189</b>	<b>(X)</b>	<b>5.3</b>	<b>(X)</b>	<b>57.4</b>	<b>(X)</b>	<b>19.9</b>	<b>(X)</b>	<b>25.0</b>	<b>(X)</b>
<b>New England</b> . . . . .	<b>20,027</b>	<b>(X)</b>	<b>3.9</b>	<b>(X)</b>	<b>60.9</b>	<b>(X)</b>	<b>20.2</b>	<b>(X)</b>	<b>27.2</b>	<b>(X)</b>
Maine . . . . .	1,486	33	4.1	37	58.1	32	30.0	10	22.8	33
New Hampshire . . . . .	1,005	37	3.5	46	63.6	4	36.6	4	23.6	27
Vermont . . . . .	241	48	3.7	43	63.7	3	30.6	9	25.6	13
Massachusetts . . . . .	9,776	5	4.0	40	61.0	15	17.5	26	29.7	2
Rhode Island . . . . .	797	50	4.1	37	59.2	27	15.7	31	26.9	8
Connecticut . . . . .	6,722	10	3.7	43	60.8	16	17.7	24	25.3	16
<b>Middle Atlantic</b> . . . . .	<b>18,684</b>	<b>(X)</b>	<b>4.7</b>	<b>(X)</b>	<b>53.6</b>	<b>(X)</b>	<b>13.8</b>	<b>(X)</b>	<b>27.4</b>	<b>(X)</b>
New York . . . . .	8,315	6	5.1	23	52.8	44	14.7	35	28.4	5
New Jersey . . . . .	5,097	14	4.1	37	56.8	34	21.2	19	25.7	12
Pennsylvania . . . . .	5,272	13	4.5	31	52.8	44	7.6	43	27.0	7
<b>East North Central</b> . . . . .	<b>18,271</b>	<b>(X)</b>	<b>5.7</b>	<b>(X)</b>	<b>58.3</b>	<b>(X)</b>	<b>11.2</b>	<b>(X)</b>	<b>23.3</b>	<b>(X)</b>
Ohio . . . . .	6,937	8	5.5	19	56.8	34	10.3	41	23.7	25
Indiana . . . . .	2,690	24	4.7	28	59.5	26	15.9	30	20.4	44
Illinois . . . . .	3,040	21	6.0	13	58.5	29	6.8	44	24.7	19
Michigan . . . . .	2,124	26	7.1	5	56.5	37	13.4	36	23.1	30
Wisconsin . . . . .	1,480	34	4.4	32	63.1	5	15.0	34	22.8	33
<b>West North Central</b> . . . . .	<b>14,122</b>	<b>(X)</b>	<b>4.5</b>	<b>(X)</b>	<b>60.6</b>	<b>(X)</b>	<b>14.5</b>	<b>(X)</b>	<b>24.0</b>	<b>(X)</b>
Minnesota . . . . .	2,009	29	4.3	33	62.7	7	18.1	23	25.5	14
Iowa . . . . .	621	40	4.3	33	62.6	9	8.1	42	23.0	32
Missouri . . . . .	7,799	7	5.5	19	58.3	30	17.2	27	24.0	24
North Dakota . . . . .	451	42	4.3	33	60.8	16	6.2	45	25.4	15
South Dakota . . . . .	318	46	4.2	36	61.7	10	15.5	32	24.4	21
Nebraska . . . . .	846	38	3.1	49	59.8	23	12.4	38	23.7	25
Kansas . . . . .	2,078	28	4.0	40	60.1	19	13.0	37	21.6	39
<b>South Atlantic</b> . . . . .	<b>47,785</b>	<b>(X)</b>	<b>4.8</b>	<b>(X)</b>	<b>58.1</b>	<b>(X)</b>	<b>32.3</b>	<b>(X)</b>	<b>24.3</b>	<b>(X)</b>
Delaware . . . . .	408	43	3.5	46	63.9	2	32.5	8	24.2	22
Maryland . . . . .	6,734	9	3.7	43	63.1	5	25.5	15	27.5	6
Distr. of Columbia . . . . .	2,067	(X)	5.0	(X)	64.2	(X)	10.8	(X)	37.1	(X)
Virginia . . . . .	15,119	3	3.9	42	61.3	12	32.8	7	24.5	20
West Virginia . . . . .	344	45	8.6	1	42.9	50	-5.1	49	22.5	36
North Carolina . . . . .	4,542	16	3.5	46	60.4	18	28.9	11	18.3	48
South Carolina . . . . .	3,136	20	4.7	28	56.8	34	26.4	14	18.3	48
Georgia . . . . .	5,586	12	5.5	19	59.8	23	36.4	5	20.7	41
Florida . . . . .	9,839	4	5.6	17	54.9	41	47.5	1	28.5	4
<b>East South Central</b> . . . . .	<b>10,368</b>	<b>(X)</b>	<b>6.3</b>	<b>(X)</b>	<b>53.0</b>	<b>(X)</b>	<b>18.6</b>	<b>(X)</b>	<b>20.2</b>	<b>(X)</b>
Kentucky . . . . .	2,086	27	6.2	11	52.7	46	18.5	22	21.8	38
Tennessee . . . . .	1,985	30	5.1	23	54.2	43	23.3	18	21.6	39
Alabama . . . . .	3,505	18	7.0	6	52.0	48	17.1	28	19.0	47
Mississippi . . . . .	2,792	23	7.8	3	52.7	46	11.1	40	16.6	50
<b>West South Central</b> . . . . .	<b>23,025</b>	<b>(X)</b>	<b>6.8</b>	<b>(X)</b>	<b>56.6</b>	<b>(X)</b>	<b>11.4</b>	<b>(X)</b>	<b>23.0</b>	<b>(X)</b>
Arkansas . . . . .	1,031	36	7.2	4	56.0	39	20.1	21	19.5	45
Louisiana . . . . .	3,273	19	7.9	2	49.1	49	-4.0	48	22.8	33
Oklahoma . . . . .	2,464	25	5.6	17	55.4	40	1.4	47	22.4	37
Texas . . . . .	16,257	2	6.7	7	58.9	28	16.4	29	23.6	27
<b>Mountain</b> . . . . .	<b>14,499</b>	<b>(X)</b>	<b>5.5</b>	<b>(X)</b>	<b>58.9</b>	<b>(X)</b>	<b>24.7</b>	<b>(X)</b>	<b>26.9</b>	<b>(X)</b>
Montana . . . . .	293	47	5.9	14	59.6	25	3.6	46	24.8	17
Idaho . . . . .	372	44	5.1	23	58.2	31	11.3	39	20.7	41
Wyoming . . . . .	233	49	6.3	10	60.0	20	-7.9	50	19.1	46
Colorado . . . . .	4,860	15	5.8	15	61.1	14	17.6	25	25.9	11
New Mexico . . . . .	1,586	32	6.7	7	54.4	42	20.5	20	24.8	17
Arizona . . . . .	4,330	17	5.2	22	56.2	38	43.7	3	26.7	9
Utah . . . . .	1,968	31	4.6	30	61.2	13	25.4	16	24.2	22
Nevada . . . . .	757	39	5.0	27	62.7	7	45.6	2	43.1	1
<b>Pacific</b> . . . . .	<b>47,407</b>	<b>(X)</b>	<b>5.2</b>	<b>(X)</b>	<b>58.6</b>	<b>(X)</b>	<b>26.2</b>	<b>(X)</b>	<b>25.5</b>	<b>(X)</b>
Washington . . . . .	5,950	11	6.2	11	61.4	11	27.2	12	23.1	30
Oregon . . . . .	570	41	5.7	16	59.9	21	15.5	32	23.2	29
California . . . . .	36,717	1	5.1	23	57.9	33	27.1	13	26.1	10
Alaska . . . . .	1,350	35	6.7	7	64.8	1	34.2	6	20.7	41
Hawaii . . . . .	2,820	22	2.6	50	59.9	21	24.7	17	28.7	3

X Not applicable. <sup>1</sup> See table 520, 1991 Statistical Abstract. Source: U.S. Bureau of the Census. <sup>2</sup> See table 636, 1991 Statistical Abstract. Source: U.S. Bureau of Labor Statistics. <sup>3</sup> Unemployed as percent of civilian labor force. <sup>4</sup> See table 668, 1991 Statistical Abstract. Source: U.S. Bureau of Labor Statistics.

# State Rankings

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[When States share the same rank, the next lower rank is omitted. Because of rounded data, States may have identical values shown, but different ranks]

DIVISION AND STATE	UNION MEMBERSHIP, PERCENT OF TOTAL MANUFACTURING EMPLOYEES, <sup>1</sup> 1988		DISPOSABLE PERSONAL INCOME PER CAPITA <sup>2</sup>				WOMEN-OWNED FIRMS, PERCENT INCREASE, <sup>3</sup> 1982-87		BLACK-OWNED FIRMS, PERCENT INCREASE, <sup>4</sup> 1982-87	
			Total, 1989		Percent increase, constant (1982) dollars, 1980-89					
	Percent	Rank	Dollars	Rank	Percent	Rank	Percent	Rank	Percent	Rank
<b>United States</b>	<b>24.9</b>	<b>(X)</b>	<b>14,948</b>	<b>(X)</b>	<b>18.6</b>	<b>(X)</b>	<b>57.5</b>	<b>(X)</b>	<b>37.6</b>	<b>(X)</b>
<b>New England</b>	<b>16.3</b>	<b>(X)</b>	<b>18,185</b>	<b>(X)</b>	<b>36.0</b>	<b>(X)</b>	<b>75.3</b>	<b>(X)</b>	<b>68.0</b>	<b>(X)</b>
Maine	18.7	23	14,110	21	30.6	6	65.3	12	20.2	43
New Hampshire	6.7	44	17,829	5	39.8	1	90.7	1	86.2	1
Vermont	8.3	42	13,945	25	25.7	11	71.6	8	55.6	10
Massachusetts	19.9	22	18,636	4	39.5	2	76.3	5	71.1	3
Rhode Island	11.1	35	15,189	14	24.8	12	80.7	3	72.8	2
Connecticut	15.6	27	20,687	1	35.5	4	71.9	7	65.4	4
<b>Middle Atlantic</b>	<b>40.2</b>	<b>(X)</b>	<b>17,093</b>	<b>(X)</b>	<b>27.3</b>	<b>(X)</b>	<b>64.7</b>	<b>(X)</b>	<b>46.7</b>	<b>(X)</b>
New York	48.2	2	17,293	7	28.9	7	61.4	16	50.9	11
New Jersey	24.8	14	20,180	2	37.3	3	85.6	2	59.6	6
Pennsylvania	40.7	5	14,811	18	17.0	21	57.7	20	23.4	37
<b>East North Central</b>	<b>39.3</b>	<b>(X)</b>	<b>16,652</b>	<b>(X)</b>	<b>14.6</b>	<b>(X)</b>	<b>53.6</b>	<b>(X)</b>	<b>26.6</b>	<b>(X)</b>
Ohio	40.9	4	13,994	24	13.0	30	50.3	32	29.0	30
Indiana	37.6	6	13,451	30	14.2	26	45.0	40	17.1	44
Illinois	33.3	7	16,060	10	17.3	20	60.6	18	28.6	31
Michigan	53.6	1	14,757	20	14.4	25	53.7	28	25.2	34
Wisconsin	24.3	15	13,933	26	12.0	36	55.8	25	29.1	29
<b>West North Central</b>	<b>21.1</b>	<b>(X)</b>	<b>13,866</b>	<b>(X)</b>	<b>14.7</b>	<b>(X)</b>	<b>52.3</b>	<b>(X)</b>	<b>31.4</b>	<b>(X)</b>
Minnesota	18.1	24	14,771	19	17.4	19	56.7	22	39.0	22
Iowa	20.8	19	13,183	33	10.0	41	48.5	34	16.6	47
Missouri	32.4	8	14,008	23	17.7	18	62.1	15	35.5	23
North Dakota	10.4	36	11,937	40	8.7	42	44.6	42	5.6	49
South Dakota	2.7	50	12,335	38	12.6	31	42.8	44	23.5	36
Nebraska	9.9	39	13,268	32	12.6	31	41.9	46	26.5	32
Kansas	11.4	34	14,103	22	12.3	34	45.5	39	22.1	40
<b>South Atlantic</b>	<b>10.2</b>	<b>(X)</b>	<b>14,492</b>	<b>(X)</b>	<b>24.4</b>	<b>(X)</b>	<b>66.8</b>	<b>(X)</b>	<b>47.2</b>	<b>(X)</b>
Delaware	20.5	20	14,949	17	20.9	14	70.6	9	42.5	17
Maryland	30.0	9	17,489	6	30.7	5	69.3	10	57.4	9
Distr. of Columbia	(NA)	(X)	19,337	(X)	25.6	(X)	23.5	(X)	1.2	(X)
Virginia	12.2	31	15,936	11	28.4	8	66.0	11	42.4	18
West Virginia	29.8	10	10,901	49	7.5	46	43.4	43	16.9	46
North Carolina	4.6	47	12,979	34	27.2	9	63.0	14	46.2	15
South Carolina	3.1	49	11,665	42	19.8	16	57.5	21	40.4	20
Georgia	11.9	33	13,464	29	26.9	10	65.3	12	57.8	7
Florida	8.9	40	15,049	16	19.9	15	76.5	4	63.7	5
<b>East South Central</b>	<b>15.0</b>	<b>(X)</b>	<b>11,822</b>	<b>(X)</b>	<b>18.0</b>	<b>(X)</b>	<b>49.4</b>	<b>(X)</b>	<b>45.6</b>	<b>(X)</b>
Kentucky	23.0	16	11,873	41	14.1	27	46.2	36	32.8	24
Tennessee	13.5	30	12,854	35	22.9	13	51.1	30	44.8	16
Alabama	15.3	28	11,634	43	18.2	17	55.6	27	48.2	13
Mississippi	8.1	43	10,102	50	13.4	29	42.0	45	49.6	12
<b>West South Central</b>	<b>15.4</b>	<b>(X)</b>	<b>12,839</b>	<b>(X)</b>	<b>8.3</b>	<b>(X)</b>	<b>45.4</b>	<b>(X)</b>	<b>28.4</b>	<b>(X)</b>
Arkansas	12.0	32	11,243	48	16.0	22	45.0	40	32.2	26
Louisiana	20.4	21	11,348	46	2.4	48	45.8	37	24.0	35
Oklahoma	17.1	25	11,591	44	2.4	49	29.5	49	22.0	41
Texas	15.1	29	13,687	27	10.2	40	49.2	33	30.6	28
<b>Mountain</b>	<b>7.7</b>	<b>(X)</b>	<b>13,418</b>	<b>(X)</b>	<b>10.7</b>	<b>(X)</b>	<b>56.0</b>	<b>(X)</b>	<b>35.8</b>	<b>(X)</b>
Montana	25.0	13	12,390	37	7.6	45	39.1	48	40.0	21
Idaho	8.6	41	12,041	39	8.0	43	41.6	47	11.9	48
Wyoming	15.9	26	12,399	36	-12.1	50	28.6	50	10.0	50
Colorado	10.0	38	15,050	15	12.4	33	55.8	25	32.7	25
New Mexico	10.4	36	11,302	47	5.8	47	55.9	24	20.8	42
Arizona	3.8	48	13,625	28	14.6	24	72.6	6	42.2	19
Utah	5.0	46	11,425	45	11.1	38	56.3	23	23.2	38
Nevada	6.2	45	16,295	9	12.1	35	61.3	17	57.5	8
<b>Pacific</b>	<b>23.1</b>	<b>(X)</b>	<b>16,362</b>	<b>(X)</b>	<b>13.2</b>	<b>(X)</b>	<b>55.7</b>	<b>(X)</b>	<b>23.2</b>	<b>(X)</b>
Washington	28.2	11	15,438	13	12.0	36	52.3	29	26.2	33
Oregon	21.4	18	13,422	31	8.0	43	45.6	38	31.7	27
California	22.6	17	16,779	8	13.5	28	57.8	19	22.8	39
Alaska	25.5	12	19,100	3	10.3	39	47.3	35	17.1	44
Hawaii	41.4	3	15,584	12	14.9	23	50.5	31	47.2	14

NA Not available. X Not applicable. <sup>1</sup> See table 696, 1991 Statistical Abstract. Source: Grant/Thornton, Chicago, IL.  
<sup>2</sup> See table 711, 1991 Statistical Abstract. Source: U.S. Bureau of Economic Analysis. <sup>3</sup> See table 877, 1991 Statistical Abstract. Source: U.S. Bureau of the Census. <sup>4</sup> See table 878, 1991 Statistical Abstract. Source: U.S. Bureau of the Census.

## State Rankings

[When States share the same rank, the next lower rank is omitted. Because of rounded data, States may have identical values shown, but different ranks]

DIVISION AND STATE	BUSINESS FAILURES, PERCENT INCREASE, <sup>1</sup> 1989-90		SAIF-INSURED SAVINGS INSTITUTIONS, RETURN ON ASSETS, <sup>2</sup> 1989		MOTOR VEHICLE ACCIDENT DEATHS PER 100,000 POPULATION, <sup>3</sup> 1989		AGRICULTURE <sup>4</sup>			
	Average value of land and buildings per acre, percent increase, <sup>5</sup> 1985-90		Farm marketings, cash receipts, <sup>6</sup> 1989							
	Percent	Rank	Percent	Rank	Rate	Rank	Percent	Rank	Mil. dol.	Rank
<b>United States</b>	<b>20.0</b>	<b>(X)</b>	<b>-1.47</b>	<b>(X)</b>	<b>18.9</b>	<b>(X)</b>	<b>-2.8</b>	<b>(X)</b>	<b>159,173</b>	<b>(X)</b>
<b>New England</b>	<b>138.5</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>13.0</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>1,927</b>	<b>(X)</b>
Maine	49.2	15	0.51	3	15.5	41	32.9	9	447	42
New Hampshire	120.0	7	0.37	8	17.2	31	57.1	4	142	48
Vermont	45.1	16	0.13	14	20.5	19	27.0	12	426	44
Massachusetts	146.2	5	-1.80	34	11.8	48	59.9	3	429	43
Rhode Island	226.8	1	-1.00	30	10.0	50	69.9	1	79	49
Connecticut	192.5	3	0.01	17	12.5	45	48.5	5	404	45
<b>Middle Atlantic</b>	<b>61.3</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>13.3</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>7,098</b>	<b>(X)</b>
New York	67.1	10	-1.85	36	12.5	45	27.1	11	2,857	23
New Jersey	105.6	8	-0.57	26	11.5	49	60.5	2	660	40
Pennsylvania	37.5	20	2.69	40	15.6	39	33.9	8	3,581	19
<b>East North Central</b>	<b>-5.8</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>16.2</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>23,059</b>	<b>(X)</b>
Ohio	31.6	27	0.17	12	15.6	39	3.5	25	3,812	16
Indiana	25.3	30	0.46	5	17.4	30	-4.2	31	4,318	11
Illinois	-37.2	50	-0.02	19	15.0	42	2.5	26	6,710	5
Michigan	1.0	38	0.10	15	17.6	27	4.3	32	2,940	21
Wisconsin	-7.2	41	0.36	10	16.8	33	-8.2	37	5,278	9
<b>West North Central</b>	<b>20.8</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>17.5</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>39,490</b>	<b>(X)</b>
Minnesota	61.8	12	-2.00	38	13.9	43	-7.5	36	6,526	6
Iowa	-1.1	40	-0.31	24	18.0	25	3.6	24	9,119	3
Missouri	5.7	37	-1.80	34	20.4	20	2.5	26	3,900	13
North Dakota	38.1	18	-0.16	21	12.3	47	-6.7	34	2,108	28
South Dakota	90.1	9	-0.73	29	21.1	17	16.6	14	2,992	20
Nebraska	65.7	11	-1.24	33	18.4	24	15.9	15	8,521	4
Kansas	13.5	34	-1.94	37	17.0	32	5.6	23	6,324	7
<b>South Atlantic</b>	<b>29.0</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>22.1</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>20,228</b>	<b>(X)</b>
Delaware	158.1	4	-0.26	23	17.5	29	46.2	6	663	39
Maryland	195.7	2	0.16	13	16.0	36	14.3	16	1,346	35
Distr. of Columbia	129.5	(X)	0.76	(X)	12.4	(X)	(X)	(X)	(X)	(X)
Virginia	34.7	23	0.03	16	16.4	34	43.6	7	2,058	29
West Virginia	42.6	17	0.48	4	25.2	8	7.4	21	314	46
North Carolina	35.2	22	-0.20	22	22.3	14	-0.5	29	4,551	10
South Carolina	128.0	6	0.01	17	28.4	2	5.7	22	1,225	36
Georgia	8.4	36	-0.70	28	25.4	7	18.8	13	3,869	15
Florida	15.7	32	-1.11	32	23.8	11	32.9	9	6,203	8
<b>East South Central</b>	<b>27.5</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>23.5</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>9,768</b>	<b>(X)</b>
Kentucky	55.0	13	0.62	2	21.0	18	8.3	19	2,928	22
Tennessee	26.6	28	-0.14	20	21.9	16	11.4	17	1,921	30
Alabama	38.0	19	-1.04	31	24.9	9	10.7	18	2,628	25
Mississippi	-14.7	45	-4.09	44	27.8	3	-11.8	39	2,292	27
<b>West South Central</b>	<b>15.7</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>20.4</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>20,147</b>	<b>(X)</b>
Arkansas	-15.3	46	7.37	48	26.9	5	-14.4	42	4,131	12
Louisiana	-17.8	47	-3.07	41	19.6	23	-33.2	48	1,861	32
Oklahoma	25.4	29	2.63	39	20.3	21	-14.1	41	3,594	18
Texas	23.9	31	-6.27	46	19.8	22	-27.1	47	10,760	2
<b>Mountain</b>	<b>13.5</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>22.9</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>13,389</b>	<b>(X)</b>
Montana	-	39	0.65	1	22.5	13	-	28	1,610	33
Idaho	32.6	24	0.22	11	23.5	12	-7.3	35	2,715	24
Wyoming	50.0	14	-0.55	25	26.7	6	-15.5	43	856	37
Colorado	37.0	21	4.10	45	15.7	38	-15.6	44	3,899	14
New Mexico	-19.1	48	-6.97	47	35.2	1	8.1	20	1,424	34
Arizona	-13.3	42	-11.11	49	24.9	9	-9.2	38	1,902	31
Utah	32.4	25	-3.67	43	17.8	26	-21.2	46	748	38
Nevada	9.5	35	0.37	8	27.6	4	-17.6	45	235	47
<b>Pacific</b>	<b>7.4</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>17.6</b>	<b>(X)</b>	<b>(NA)</b>	<b>(X)</b>	<b>24,066</b>	<b>(X)</b>
Washington	-35.1	49	0.42	7	16.4	34	-13.6	40	3,639	17
Oregon	32.4	25	-3.46	42	22.3	14	-2.1	30	2,297	26
California	13.9	33	-0.66	27	17.6	27	-4.8	33	17,515	1
Alaska	-14.0	44	13.37	50	15.9	37	(NA)	(X)	29	50
Hawaii	-13.5	43	0.44	6	13.2	44	(NA)	(X)	587	41

- Represents or rounds to zero. NA Not available. X Not applicable. <sup>1</sup> See table 882, 1991 Statistical Abstract. Source: Dun & Bradstreet Corporation, New York, NY (copyright). <sup>2</sup> See table 821, 1991 Statistical Abstract. Source: U.S. Office of Thrift Supervision. SAIF—Savings Association Insurance Fund. Net income after taxes as a percent of average assets. Minus sign (-) indicates loss. <sup>3</sup> See table 1043, 1991 Statistical Abstract. Source: U.S. National Center for Health Statistics. <sup>4</sup> Source: U.S. Department of Agriculture, Economic Research Service. <sup>5</sup> See table 1123, 1991 Statistical Abstract. <sup>6</sup> See table 1135, 1991 Statistical Abstract.



# State Rankings

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[When States share the same rank, the next lower rank is omitted. Because of rounded data, States may have identical values shown, but different ranks]

DIVISION AND STATE	OCCUPIED HOUSING UNITS, <sup>1</sup> 1990				MANUFACTURING PRODUCTION WORKERS, PERCENT INCREASE, <sup>2</sup> 1982-87		U.S. EXPORTS BY STATE OF ORIGIN, <sup>3</sup> 1990		RETAIL SALES PER HOUSEHOLD, PERCENT INCREASE, <sup>4</sup> 1987-89	
	Total		Persons per occupied housing unit		Percent	Rank	Mil. dol.	Rank	Percent	Rank
	Number (1,000)	Rank	Number	Rank						
<b>United States</b>	<b>91,947</b>	<b>(X)</b>	<b>2.71</b>	<b>(X)</b>	<b>-1.3</b>	<b>(X)</b>	<b>5,315,065</b>	<b>(X)</b>	<b>8.3</b>	<b>(X)</b>
<b>New England</b>	<b>4,943</b>	<b>(X)</b>	<b>2.67</b>	<b>(X)</b>	<b>-10.4</b>	<b>(X)</b>	<b>17,447</b>	<b>(X)</b>	<b>9.2</b>	<b>(X)</b>
Maine	465	39	2.64	35	-10.0	40	870	41	8.0	28
New Hampshire	411	40	2.70	18	-4.7	34	973	38	6.7	34
Vermont	211	48	2.67	27	2.0	27	1,154	37	6.9	32
Massachusetts	2,247	13	2.68	26	-12.3	44	9,501	10	8.9	26
Rhode Island	378	41	2.66	30	-8.1	37	595	43	11.1	14
Connecticut	1,230	27	2.67	28	-11.6	42	4,356	19	11.2	11
<b>Middle Atlantic</b>	<b>13,930</b>	<b>(X)</b>	<b>2.70</b>	<b>(X)</b>	<b>-12.1</b>	<b>(X)</b>	<b>38,196</b>	<b>(X)</b>	<b>10.0</b>	<b>(X)</b>
New York	6,639	2	2.71	16	-13.5	46	22,072	4	13.1	6
New Jersey	2,795	9	2.77	11	-10.4	41	7,633	14	6.3	36
Pennsylvania	4,496	5	2.64	34	-11.7	43	8,491	12	8.4	27
<b>East North Central</b>	<b>15,597</b>	<b>(X)</b>	<b>2.69</b>	<b>(X)</b>	<b>2.7</b>	<b>(X)</b>	<b>55,248</b>	<b>(X)</b>	<b>8.9</b>	<b>(X)</b>
Ohio	4,088	7	2.65	32	2.6	24	13,378	7	5.6	39
Indiana	2,065	14	2.68	23	5.1	20	5,273	16	6.5	35
Illinois	4,202	6	2.72	14	-9.1	38	12,965	8	10.4	18
Michigan	3,419	8	2.72	15	12.7	3	18,474	5	9.7	21
Wisconsin	1,822	18	2.69	22	6.4	13	5,158	17	14.3	4
<b>West North Central</b>	<b>6,720</b>	<b>(X)</b>	<b>2.63</b>	<b>(X)</b>	<b>3.9</b>	<b>(X)</b>	<b>13,780</b>	<b>(X)</b>	<b>10.0</b>	<b>(X)</b>
Minnesota	1,648	20	2.66	30	6.9	11	5,091	18	10.9	16
Iowa	1,064	30	2.61	42	0.1	31	2,189	30	11.9	9
Missouri	1,981	15	2.61	42	3.3	23	3,130	24	6.8	33
North Dakota	241	47	2.65	33	4.0	21	360	45	14.1	5
South Dakota	259	45	2.69	20	10.6	7	205	49	11.7	10
Nebraska	602	35	2.62	40	0.3	29	693	42	11.2	11
Kansas	945	31	2.62	39	6.8	12	2,113	31	10.3	19
<b>South Atlantic</b>	<b>16,503</b>	<b>(X)</b>	<b>2.64</b>	<b>(X)</b>	<b>4.6</b>	<b>(X)</b>	<b>43,662</b>	<b>(X)</b>	<b>3.9</b>	<b>(X)</b>
Delaware	247	46	2.69	19	2.5	26	1,344	36	4.7	43
Maryland	1,749	19	2.73	13	-4.4	33	2,592	28	2.7	45
Distr. of Columbia	250	(X)	2.43	(X)	-13.3	(X)	320	(X)	13.7	(X)
Virginia	2,292	12	2.70	17	6.4	13	9,333	11	7.6	29
West Virginia	689	34	2.61	45	-9.5	39	1,550	35	9.1	24
North Carolina	2,517	10	2.63	37	5.3	19	8,010	13	3.7	44
South Carolina	1,258	26	2.77	10	0.2	30	3,116	25	5.9	37
Georgia	2,367	11	2.74	12	10.9	6	5,763	15	2.0	47
Florida	5,135	4	2.52	50	5.7	18	11,634	9	1.9	48
<b>East South Central</b>	<b>5,652</b>	<b>(X)</b>	<b>2.69</b>	<b>(X)</b>	<b>6.5</b>	<b>(X)</b>	<b>11,360</b>	<b>(X)</b>	<b>6.9</b>	<b>(X)</b>
Kentucky	1,380	23	2.67	28	8.2	16	3,175	23	10.7	17
Tennessee	1,854	17	2.63	38	6.3	15	3,746	21	0.7	49
Alabama	1,507	21	2.68	24	5.8	17	2,834	27	10.1	20
Mississippi	911	32	2.82	5	8.5	8	1,605	33	9.7	21
<b>West South Central</b>	<b>9,668</b>	<b>(X)</b>	<b>2.76</b>	<b>(X)</b>	<b>-13.3</b>	<b>(X)</b>	<b>49,695</b>	<b>(X)</b>	<b>12.0</b>	<b>(X)</b>
Arkansas	891	33	2.64	36	8.5	8	920	39	14.9	3
Louisiana	1,499	22	2.82	6	-22.0	49	14,199	6	18.1	1
Oklahoma	1,206	28	2.61	44	-13.4	45	1,646	32	16.7	2
Texas	6,071	3	2.80	7	-16.3	48	32,931	2	9.4	23
<b>Mountain</b>	<b>5,033</b>	<b>(X)</b>	<b>2.71</b>	<b>(X)</b>	<b>5.8</b>	<b>(X)</b>	<b>9,632</b>	<b>(X)</b>	<b>3.9</b>	<b>(X)</b>
Montana	306	44	2.61	41	-1.3	32	229	46	7.3	31
Idaho	361	42	2.79	9	12.6	4	898	40	5.0	42
Wyoming	169	50	2.69	20	-22.9	50	264	46	7.6	29
Colorado	1,282	25	2.57	49	-6.1	36	2,274	29	5.4	40
New Mexico	543	36	2.79	8	7.7	10	249	47	5.9	37
Arizona	1,369	24	2.68	25	21.7	1	3,729	22	2.3	46
Utah	537	37	3.21	1	1.5	28	1,596	34	5.1	41
Nevada	466	38	2.58	47	21.5	2	394	44	-3.8	50
<b>Pacific</b>	<b>13,902</b>	<b>(X)</b>	<b>2.81</b>	<b>(X)</b>	<b>3.2</b>	<b>(X)</b>	<b>76,045</b>	<b>(X)</b>	<b>9.6</b>	<b>(X)</b>
Washington	1,872	16	2.60	46	3.5	22	24,432	3	11.1	14
Oregon	1,103	29	2.58	48	11.0	5	4,065	20	11.2	11
California	10,381	1	2.87	4	2.6	24	44,520	1	9.1	24
Alaska	189	49	2.91	3	-16.0	47	2,850	26	12.6	7
Hawaii	356	43	3.11	2	-5.0	35	179	50	12.2	8

X Not applicable. <sup>1</sup> See tables 61 and 1284, 1991 Statistical Abstract. Source: U.S. Bureau of the Census. <sup>2</sup> See table 1305, 1991 Statistical Abstract. Source: U.S. Bureau of the Census. <sup>3</sup> See table 1402, 1991 Statistical Abstract. Source: U.S. Bureau of the Census. <sup>4</sup> See table 1362, 1991 Statistical Abstract. Source: Market Statistics, New York, NY (copyright). <sup>5</sup> Total U.S. exports amounted to \$390,394 million in 1990. However, only the \$315,065 million could be allocated by State of origin.



## Telephone Contacts List

To help *Abstract* users find more data and information about statistical publications, we are issuing this list of contacts for Federal agencies with major statistical programs. The intent is to give a single, first-contact point-of-entry for users of statistics. These agencies will provide general information on their statistical programs and publications, as well as specific information on how to order their publications.

### Executive Office of the President

#### *Office of Management and Budget*

Administrator

Office of Information and Regulatory Affairs

Office of Management and Budget

Washington, DC 20503

*Information:* 202-395-3000

*Publications:* 202-395-7332

### Department of Agriculture

#### *Economic Research Service*

Information Division

Economic Research Service

U.S. Department of Agriculture

Room 208

1301 New York Ave., N.W.

Washington, DC 20005-4788

*Information and Publications:* 202-219-0515

#### *National Agricultural Statistics Service*

National Agricultural Statistics Service

U.S. Department of Agriculture

14th St. and Independence Ave., S.W.

Washington, DC 20250

*Information and Publications:* 202-447-4021

### Department of Commerce

U.S. Department of Commerce

Room 5058 Main Commerce

14th St. and Constitution Ave., N.W.

Washington, DC 20230

*Newsroom:* 202-377-4901

#### *Bureau of the Census*

Customer Services Branch

Data User Services Division

Bureau of the Census

U.S. Department of Commerce

Washington, DC 20233

*Information and Publications:* 301-763-4100

#### *Bureau of Economic Analysis*

Current Business Analysis Division, BE-53

Bureau of Economic Analysis

U.S. Department of Commerce

Washington, DC 20230

*Information and Publications:* 202-523-0777

### Department of Commerce —Con.

#### *International Trade Administration*

Trade Statistics Division

Office of Trade and Investment Analysis

International Trade Administration

Room 2814 B

U.S. Department of Commerce

Washington, DC 20230

*Information and Publications:* 202-377-4211

#### *National Oceanic and Atmospheric Administration*

National Oceanic and Atmospheric Administration Library

U.S. Department of Commerce

6009 Executive Blvd.

Rockville, MD 20852

*Library:* 301-443-8330

### Department of Defense

#### *Department of Defense*

Office of the Assistant Secretary of Defense  
(Public Affairs)

Attention: Directorate for Public Correspondence

The Pentagon, 2E777

Washington, DC 20301-1400

*Information:* 202-697-5737

### Department of Education

#### *Office of Information Services*

Statistical Information Office

U.S. Department of Education

555 New Jersey Ave., N.W.

Washington, DC 20208-5641

*Information and Publications:* 202-219-1651;  
1-800-424-1616

### Department of Energy

#### *Energy Information Administration*

Office of Energy Information Services

Energy Information Administration

U.S. Department of Energy

Washington, DC 20585

*Information and Publications:* 202-586-8800

**Department of Health and Human Services**

*Health Resources and Services Administration*

Administrator for Health Resources and Services

Health Resources and Services Administration

U.S. Department of Health and Human Services

5600 Fishers Lane

42 Parklawn Building 14-05

Rockville, MD 20857

*Information:* 301-443-2216

*Publications:* 301-443-2086

*Alcohol, Drug Abuse, and Mental Health Administration*

U.S. Department of Health and Human Services

5600 Fishers Lane

Room 12C15

Rockville, MD 20857

*Information:* 301-443-3783

*Publications:* 301-468-2600

*Centers for Disease Control*

Office of Information

Centers for Disease Control

21600 Clifton Road, N.E.

Atlanta, GA 30333

*Public Inquiries:* 404-639-3534

*Health Care Financing Administration*

Office of Public Affairs

Health Care Financing Administration

U.S. Department of Health and Human Services

Room 428H, Humphrey Building

200 Independence Ave., S.W.

Washington, DC 20201

*Information:* 202-245-6145

*Publications:* 301-597-0977

*National Center for Health Statistics*

Scientific and Technical Information Branch

National Center for Health Statistics

U.S. Department of Health and Human Services

6525 Belcrest Rd Rm. 1064

Hyattsville, MD 20782

*Information and Publications:* 301-436-8500

*Social Security Administration*

Publications Staff

Office of Research and Statistics

Social Security Administration

U.S. Department of Health and Human Services

Van Ness Centre, Room 209

4301 Connecticut Ave., N.W.

Washington, DC 20008

*Information and Publications:* 202-282-7138

**Department of Housing and Urban Development**

*Assistant Secretary for Community Planning and Development*

Office of the Assistant Secretary for Community Planning and Development

U.S. Department of Housing and Urban Development

451 7th St., S.W.

Washington, DC 20410-0555

*Information and Publications:* 202-755-6420

**Department of the Interior**

*Bureau of Mines*

Office of Public Information

Bureau of Mines

U.S. Department of the Interior

401 E St., N.W.

Washington, DC 20241

*Information:*

*Publications:* 202-634-4885

*Geological Survey*

Public Inquiries Office

Geological Survey

U.S. Department of the Interior

507 National Center

Reston, VA 22092

*Information and Publications:* 703-648-6892

**Department of Justice**

*Bureau of Justice Statistics*

Statistics Division

Bureau of Justice Statistics

U.S. Department of Justice

633 Indiana Ave., N.W.

Washington, DC 20531

*Information and Publications:* 202-307-6100

*National Criminal Justice Reference Service*

Box 6000

Rockville, MD 20850

*Information and Publications:* 301-251-5500

*Publications:* 1-800-732-3277

*Federal Bureau of Investigation*

National Crime Information Center

Federal Bureau of Investigation

U.S. Department of Justice

9th St. and Pennsylvania Ave., N.W.

Washington, DC 20535

*Information and Publications:* 202-324-2606

*Immigration and Naturalization Service*

Statistics Branch

Immigration and Naturalization Service

U.S. Department of Justice

425 I St., N.W.

Washington, DC 20536

Attention: Tariff Rm. 235

*Information and Publications:* 202-376-3066

**Department of Labor***Bureau of Labor Statistics*

Office of Publications and Information Services

Bureau of Labor Statistics

U.S. Department of Labor

441 G St., N.W., Room 2831A

Washington, DC 20212

*Information and Publications:* 202-523-1221

*Recording: CPI and PPI* 202-523-9658

*Employment and Training Administration*

Office of Public Information

Employment and Training Administration

U.S. Department of Labor

200 Constitution Ave., N.W., Room S2322

Washington, DC 20210

*Information and Publications:* 202-523-6871

**Department of Transportation***Federal Aviation Administration*

Public Inquiry Center

APA 200

Federal Aviation Administration

U.S. Department of Transportation

800 Independence Ave., S.W.

Washington, DC 20591

*Information and Publications:* 202-267-3484

*Federal Highway Administration*

Office of Public Affairs

Federal Highway Administration

U.S. Department of Transportation

400 7th St., S.W.

Washington, DC 20590

*Information and Publications:* 202-366-0660

*National Highway Traffic Safety Administration*

Office of Public Affairs

National Highway Traffic Safety Administration

U.S. Department of Transportation

400 7th St., S.W.

Washington, DC 20590

*Information:* 202-366-0123

*Publications:* 202-366-2588

**Department of the Treasury***Internal Revenue Service*

Statistics of Income Division

Internal Revenue Service

U.S. Department of the Treasury

P.O. Box 2608

Washington, DC 20013

*Information and Publications:* 202-233-1755

**Department of Veterans Affairs***Department of Veterans Affairs*

Office of Public Affairs

Department of Veterans Affairs

810 Vermont Ave., N.W.

Washington, DC 20420

*Information:* 202-233-2741

**Independent Agencies***Environmental Protection Agency*

Public Information Center, PM-211B

Environmental Protection Agency

401 M St., S.W.

Washington, DC 20460

*Information and Publications:* 202-382-2080

*Federal Reserve Board*

Division of Research and Statistics

Federal Reserve Board

Washington, DC 20551

*Information:* 202-452-3301

*Publications:* 202-452-3245

*National Science Foundation*

Office of Public Information

National Science Foundation

1800 G St., N.W.

Washington, DC 20550

*Information:* 202-357-9498

*Publications:* 202-357-7861

*Securities and Exchange Commission*

Office of Public Affairs

Securities and Exchange Commission

450 5th St., N.W.

Washington, DC 20549

*Information:* 202-272-3100

*Publications:* 202-272-7460



## Section 1 Population

This section presents statistics on the growth, distribution, and characteristics of the U.S. population. The principal source of these data is the Bureau of the Census, which conducts a decennial census of population, a monthly population survey, a program of population estimates and projections, and a number of other periodic surveys relating to population characteristics. For a list of relevant publications, see the Guide to Sources of Statistics in Appendix I.

**Decennial censuses.**—The U.S. Constitution provides for a census of the population every 10 years, primarily to establish a basis for apportionment of members of the House of Representatives among the States. For over a century after the first census in 1790, the census organization was a temporary one, created only for each decennial census. In 1902, the Bureau of the Census was established as a permanent Federal agency, responsible for enumerating the population and also for compiling statistics on other subjects.

The census of population is a complete count. That is, an attempt is made to account for every person, for each person's residence, and for other characteristics (sex, age, family relationships, etc.). Since the 1940 census, in addition to the complete count information, some data have been obtained from representative samples of the population. In the 1980 census, two sampling rates were employed. For most of the country, one in every six households (about 17 percent) received the long form or sample questionnaire; in areas estimated to have fewer than 2,500 inhabitants, every other household (50 percent) received the sample questionnaire to enhance the reliability of sample data for small governmental units. Exact agreement is not to be expected between sample data and the complete census count. Sample data may be used with confidence where large numbers are involved and assumed to indicate trends and relationships where small numbers are involved.

Three different census counts for the resident population in 1970 are shown in the tables: 203,211,926; 203,235,298; and 203,302,031. The first is the initial tabulated count, the second is the official count, and the third contains the latest revisions. Breakdowns of the revised count of 203,302,031 are not available for demographic characteristics and may not be available for some levels of geography. The complete count data from the 1980 census shown in this edition are consistent with figures published in the 1980 census final reports, series PC80-1-A.

Census data presented here have not been adjusted for underenumeration. Results from the evaluation program for the 1980 census did not produce a definitive estimate of the undercount, but did show that coverage improved substantially over previous censuses. The 1980 Post-Enumeration Program (PEP) estimates of overall coverage ranged between a 1.0 percent overcount and a 2.1 percent undercount; Demographic Analysis (DA) estimated the net undercount at between 1.0 and 2.2 percent. Consistent estimates of census coverage for the last 5 censuses (1940-80) have been prepared by the method of demographic analysis. For one set of estimates, demographic analysis shows a net underenumeration of about 3.2 million persons in 1980, 6.1 million in 1970, and 6.2 million in 1960. Among the persons not counted in 1980 about 1.5 million were White-and-other races and 1.7 million were Black. The overall rate of net underenumeration in 1980, according to this set of estimates, was 1.4 percent. In 1970, the rate was 2.9 percent as compared with 3.3 percent in 1960 and 4.4 percent in 1950. The percent net undercount of Blacks—while still high relative to the rest of the population—dropped from 8.0 percent in 1970 to 5.9 percent in 1980. See *The Coverage of Population in the 1980 Census, Evaluation and Research Reports*, PHC80-E4, for a discussion of the various estimates of census coverage.

**Current Population Survey (CPS).**—This is a monthly nationwide survey of a scientifically selected sample representing the noninstitutional civilian population. The sample is located in 729 areas comprising approximately 1,200 counties and independent cities with coverage in every State and the District of Columbia and is subject to sampling error. At the present time, about 71,000 housing units or other living quarters are assigned for interview at any time, of which about 57,000 are occupied by households eligible for interview; of these, in turn, between 4 and 5 percent are, for various reasons, unavailable for interview.

While the primary purpose of the CPS is to obtain monthly statistics on the labor force, it also serves as a vehicle for inquiries on other subjects. Using CPS data, the Bureau issues a series of publications under the general title of Current Population Reports, which cover population characteristics (series P-20), consumer income (series P-60), special studies (series P-23), and other topics.

Estimates of population characteristics based on the 1980 CPS will not necessarily agree with the counts from the 1980 census because the CPS and the 1980 census used different procedures for collecting and processing the data for racial groups, the Hispanic population, and other topics. Caution should also be used when comparing estimates for 1980 and later, (for education data, 1981 and later), which reflect 1980 census-based population controls, to those for 1971 through 1979 (for education, to 1980), which reflect 1970 census-based population controls. This change in population controls had relatively little impact on derived measures such as means, medians, and percent distribution, but did have a significant impact on levels. For example, use of 1980-based population controls resulted in about a 2-percent increase in the civilian noninstitutional population and in the number of families and households. Thus, estimates of levels for 1980 and later will differ from those for earlier years by more than what could be attributed to actual changes in the population and these differences could be disproportionately greater for subpopulation groups than for the total population.

**Components of Selected Population Universes: March 1, 1989**  
(In thousands)

POPULATION UNIVERSE	Number
<b>Total population including Armed Forces overseas</b> .....	<b>247,966</b>
Armed Forces overseas .....	521
Resident population .....	247,445
Armed Forces in the United States .....	1,684
Living off post or with their families on post .....	904
Living on post without families .....	780
Civilian population .....	245,761
Institutional population .....	2,980
Noninstitutional population .....	242,781
Civilian noninstitutional population plus Armed Forces living off post or with their families on post (March Current Population Survey universe) .....	243,685
Civilian noninstitutional population (Current Population Survey universe in months other than March) .....	242,781

**Population estimates and projections.**—National population estimates are derived by using decennial census data as benchmarks and data available from various agencies as follows: Births and deaths (National Center for Health Statistics); immigrants (Immigration and Naturalization Service); Armed Forces (Department of Defense and Department of Transportation); net movement between Puerto Rico and the U.S. mainland (Puerto Rico Planning Board); and Federal employees abroad (Office of Personnel Management and Department of Defense). Estimates for States and smaller areas are based on data series such as births and deaths, school statistics from State departments of education and parochial school systems, and Federal income tax returns. These estimates contain estimated emigration of 160,000 per year since 1980 and net undocumented immigration of 200,000 per year. For further information, see *Current Population Reports*, series P-25, No. 1045.

The estimates of the components of change shown for intercensal periods include the "error of closure," the unexplained difference between the estimated population at the end of the decade and the census count for that date. The error of closure at the national level was quite small during the 1960's (379,000). However, for the 1970's it amounted to almost 5 million.

National population projections indicate the approximate future level and characteristics of the population under given assumptions as to future fertility, mortality, and net immigration. The method used to develop the projections involves preparation of projections of each of the components of population change—births, deaths, and net immigration—and the combination of these with July 1 estimates of the current population. Projections for States incorporate further assumptions about the redistribution of population as a consequence of internal migration.

Population estimates and projections are published in the P-25 and P-26 series of *Current Population Reports*. These estimates and projections are generally consistent with official decennial census figures and do not reflect the amount of estimated census underenumeration. However, these estimates and projections by race have been modified and are not comparable to the 1980 census race categories (see section below under "race"). For details on methodology, see the sources cited below the individual tables.

**Immigration.**—The principal source of immigration data is the *Statistical Yearbook of the Immigration and Naturalization Service*, published annually by the Immigration and Naturalization Service (INS), a unit of the Department of Justice. Immigration statistics are prepared from entry visas and change of immigration status forms. The collection of U.S. immigration statistics began under the Act of 1819. Data on persons arriving in ports were transmitted to the U.S. Secretary of State, who reported the information periodically to Congress. Subsequently, reports to the Secretary of State and to Congress were required by law, as well as the collection of data on immigrants arriving at land borders. Beginning in 1906, those arriving were divided into immigrants and nonimmigrants, depending on how long they intended to remain in the United States.

Immigrants are aliens admitted for legal permanent residence in the United States. The procedures for admission depend on whether the alien is residing inside or outside the United States at the time of application for permanent residence. Eligible aliens residing outside the U.S.

are issued immigrant visas by the U.S. Department of State. Eligible aliens residing in the U.S. are allowed to change their status from temporary to permanent residence at INS district offices. The category, immigrant, includes persons who may have entered the U.S. as nonimmigrants or refugees, but who subsequently changed their status to that of a permanent resident. Thus, immigrants as measured in tables 5 through 10 do not equal net civilian immigration as shown in table 14. Nonresident aliens admitted to the United States for a temporary period are nonimmigrants (tables 424 and 425). Refugees are considered nonimmigrants when initially admitted into the United States.

U.S. immigration law gives preferential immigration status to aliens who are related to certain U.S. citizens or legal permanent residents, aliens with needed job skills, or aliens who qualify as refugees. Immigration to the United States can be divided into two general categories: (1) those subject to the annual worldwide limitation, and (2) those exempt from it. A maximum of 270,000 immigrants may be admitted annually under the current worldwide limitation. Visa allocation is determined by a system consisting of six preference categories, each with its own numerical limitation. The first, second, fourth, and fifth preferences are based on the alien's relationship with a U.S. citizen or legal permanent resident, and the third and sixth preferences are based on needed job skills (see table 6). Aliens not eligible for any of the six preferences may qualify for the nonpreference category. Heavy demand for preference visas has resulted in no nonpreference visas being issued since 1978. Those exempt from the worldwide limitation include immediate relatives of U.S. citizens, refugees and asylees adjusting to permanent residence, and other various classes of special immigrants (see table 6).

Effective November 1966, Cubans admitted or paroled (i.e., admitted without an immigration visa) into the United States after January 1, 1959, and present in the United States for at least 2 years, may obtain permanent resident status. A court decision in September 1976 exempted Cuban refugees from numerical limitations, retroactive to 1968. The Refugee Act of 1980 changed the residency requirement from two years to one year. Beginning in fiscal year 1985, INS began adjusting eligible Cuban entrants who were admitted to the U.S. as part of the Mariel boat lift of 1980, which consisted of approximately 125,000 people.

Effective October 28, 1977, refugees from Vietnam, Laos, or Cambodia were eligible to apply for permanent resident status. Public Law 95-145 provided that Indochinese paroled into the United States after March 31, 1975, or physically present on that date, may become permanent residents after living for at least 2 years in the United States. This period was changed to one year under the Refugee Act of 1980. P.L. 95-145 expired on October 18, 1983. Indochinese refugees who entered the U.S. between March 1975 and April 1980 are eligible to adjust status under P.L. 95-412, the Act of October 5, 1978, which allows for the adjustment of refugee-parolees.

The Refugee Act of 1980, effective April 1, 1980, provides for a uniform admission procedure for refugees of all countries, based on the United Nation's definition of refugees. Authorized admission ceilings are set annually by the President in consultation with Congress. After one year of residence in the United States, refugees are eligible for immigrant status.

The Immigration Reform and Control Act of 1986 (IRCA) allows two groups of aliens to become temporary and then permanent residents of the United States: aliens who have been in the United States unlawfully since January 1, 1982 (legalization applicants) and aliens who were employed in seasonal agricultural work for a minimum period of time (Special Agricultural Worker (SAW) applicants). The application period for temporary residency for legalization applicants began on May 5, 1987 and ended on May 4, 1988, while the application period for SAW applicants began on June 1, 1987 and ended on November 30, 1988. Legalization applicants became eligible for permanent residence beginning in fiscal year 1989. The 1989 immigrant data include 478,814 temporary residents who were granted permanent residence under the legalization program of IRCA.

**Metropolitan Areas.**—The general concept of a metropolitan area is one of a large population nucleus together with adjacent communities which have a high degree of social and economic integration with that nucleus. Consolidated metropolitan statistical areas (CMSA's) are large metropolitan complexes within which individual components, designated as primary metropolitan statistical areas (PMSA's), have been defined. Metropolitan statistical areas (MSA's), CMSA's, and PMSA's are defined by the Office of Management and Budget as a standard for Federal agencies in the preparation and publication of statistics relating to metropolitan areas. The new terms MSA, CMSA, and PMSA went into effect June 30, 1983, replacing the previous terms SMSA (standard metropolitan statistical area) and SCMSA (standard consolidated statistical area). The entire territory of the United States is classified as metropolitan (inside MSA's or CMSA's) or nonmetropolitan (outside MSA's or CMSA's). MSA's, CMSA's, and PMSA's are defined in terms of entire counties except in New England, where the definitions are in terms of cities and towns. To summarize data for New England that are available only by counties, New England County Metropolitan Areas (NECMA's) have been defined as a convenience for data users. From time to time, new metropolitan areas are created and the boundaries of others change. As a result, data for metropolitan areas over time may not be comparable and the analysis of historical trends must be made cautiously. For descriptive details and a listing of area titles and components of each metropolitan area, see Appendix II.

**Urban and rural.**—According to the 1980 census definition, the urban population comprises all persons living in (a) places of 2,500 or more inhabitants incorporated as cities, villages, boroughs (except in Alaska and New York), and towns (except in the New England States, New

York, and Wisconsin), but excluding those persons living in the rural portions of extended cities (places with low population density in one or more large parts of their area); (b) census designated places (previously termed unincorporated) of 2,500 or more inhabitants; and (c) other territory, incorporated or unincorporated, included in urbanized areas. An urbanized area consists of a central city or a central core, together with contiguous closely settled territory, that combined have a total population of at least 50,000.

In censuses prior to 1950, the urban population comprised all persons living in incorporated places of 2,500 or more inhabitants and areas (usually minor civil divisions) classified as urban under special rules relating to population size and density. To improve its measure of the urban population, the Bureau of the Census in 1950 adopted the concept of the urbanized area and delineated boundaries for unincorporated places. The 1950 definition has continued substantially unchanged, except for minor modifications in 1960, the introduction of the extended city concept in 1970, and changes in the criteria for defining urbanized areas for 1980 so as to permit such areas to be defined around smaller centers. In all definitions, the population not classified as urban constitutes the rural population.

**Residence.**—In determining residence, the Bureau of the Census counts each person as an inhabitant of a usual place of residence (i.e., the place where one usually lives and sleeps). While this place is not necessarily a person's legal residence or voting residence, the use of these different bases of classification would produce the same results in the vast majority of cases.

**Race.**—In the 1980 census, 15 groups were listed in the race item on the 1980 census questionnaire: White, Black, American Indian, Eskimo, Aleut, Chinese, Filipino, Japanese, Asian Indian, Korean, Vietnamese, Hawaiian, Samoan, Guamanian, and Other. The concept of race as used by the Census Bureau does not denote any clear-cut scientific definition of biological stock. Since the 1980 census obtained information on race through self-identification by respondents, the data represent self-classification by people according to the race with which they identify.

In 1980, if persons of mixed racial parentage could not provide a single response to the race question, the race of the person's mother was used; however, if a single response could not be provided for the mother, then the first race reported by the person was used. This is a modification of the 1970 census procedure in which the race of the person's father was used.

The 1980 population totals for "White" and "Other" are not comparable with corresponding figures from previous censuses. The lack of comparability is due to changes in the way some respondents reported their race as well as changes in 1980 census procedures related to the racial classification. (For a fuller explanation, see *1980 Census of Population, Volume I, General Population Characteristics* (PC80-1-B).)

Estimates of the population by race for April 1, 1980 (shown in tables 19 and 22) are modified counts and are not comparable to the 1980 census race categories. These estimates were computed using 1980 census data by race which had been modified to be consistent with the race categories used in the reporting of vital statistics by the U.S. National Center for Health Statistics. A detailed explanation of the race modification procedure appears in *Current Population Reports*, series P-25, No. 1045.

In the Current Population Survey (CPS) and other household sample surveys in which data are obtained through personal interview, respondents are asked to classify their race as: (1) White, (2) Black, (3) American Indian, Aleut, or Eskimo, or (4) Asian or Pacific Islander. The procedures for classifying persons of mixed races who could not provide a single response to the race question are generally similar to those used in the 1980 census. For comments on comparability of 1980 CPS and census data, see section above on Current Population Survey.

**Hispanic population.**—In the 1990 census, the Bureau of the Census collected data on the Hispanic origin population in the United States by using a self-identification question. Persons of Spanish/Hispanic origin are those who classified themselves in one of the specific Hispanic origin categories listed on the questionnaire—Mexican, Puerto Rican, Cuban, or Other Spanish/Hispanic origin. The difference between the 1980 and the 1990 questionnaire was that in the 1980 census, a Hispanic origin question was used with prelisted categories for the largest Spanish origin groups and a residual "Other Spanish/Hispanic" category. For the 1990 census the questionnaire was modified by adding a space for the respondent to write-in the entry for the "Other Spanish/Hispanic" category. It should be noted that Hispanic persons may be of any race.

In the Current Population Survey (CPS), information on Hispanic persons was gathered by using a self-identification question. Persons classified themselves in one of the Hispanic categories in response to the question: "What is the origin or descent of each person in this household?" Hispanic persons in the CPS were persons who reported themselves as Mexican-American, Chicano, Mexican, Puerto Rican, Cuban, Central or South American (Spanish countries), or other Hispanic origin.

**Nativity.**—The native population consists of all persons born in the U.S., Puerto Rico, or an outlying area of the U.S. It also includes persons born at sea or in a foreign country who have at least one American parent. All others are classified as "foreign born."

**Mobility status.**—The U.S. population is classified according to mobility status on the basis of a comparison between the place of residence of each individual at the time of the survey or census and the place of residence at a specified earlier date. Nonmovers are all persons who were living in the same house or apartment at the end of the period as at the beginning of the period. Movers are all persons who were living in a different house at the end of the period from



that in which they were living at the beginning of the period. Movers from abroad include all persons, either citizens or aliens, whose place of residence was outside the U.S. at the beginning of the period; that is, in Puerto Rico, an outlying area under the jurisdiction of the U.S., or a foreign country.

**Living arrangements.**—Living arrangements refer to residency in households or in group quarters. A "household" comprises all persons who occupy a "housing unit," that is, a house, an apartment or other group of rooms, or a single room that constitutes "separate living quarters." A household includes the related family members and all the unrelated persons, if any, such as lodgers, foster children, wards, or employees who share the housing unit. A person living alone or a group of unrelated persons sharing the same housing unit is also counted as a household. See text, section 26, Construction and Housing, for definition of "housing unit."

All persons not living in households are classified as living in group quarters. These individuals may be institutionalized, e.g., under care or custody in juvenile facilities, jails, correctional centers, hospitals, or rest homes; or they may be residents in college dormitories, military barracks, rooming houses, etc. (see table 75).

**Householder.**—Since 1980, the terms "householder" and "family householder" have been used in the presentation of data that had previously been presented with the designations "head of household" and "head of family". The householder is the first adult household member listed on the questionnaire. The instructions call for listing first the person (or one of the persons) in whose name the home is owned or rented. If a home is owned or rented jointly by a married couple, either the husband or the wife may be listed first. Prior to 1980, the husband was always considered the household head (householder) in married-couple households.

**Family.**—The term "family" refers to a group of two or more persons related by birth, marriage, or adoption and residing together in a household. A family includes among its members the householder.

**Subfamily.**—Subfamilies are divided into "related" and "unrelated" subfamilies. A subfamily consists of a married couple and their children, if any, or one parent with one or more never married children under 18 years old living in a household. A related subfamily is related to, but does not include, the householder. Members of a related subfamily are also members of the family with whom they live. The number of related subfamilies, therefore, is not included in the count of families. An unrelated subfamily may include persons such as guests, lodgers, or resident employees and their spouses and/or children; none of whom is related to the householder.

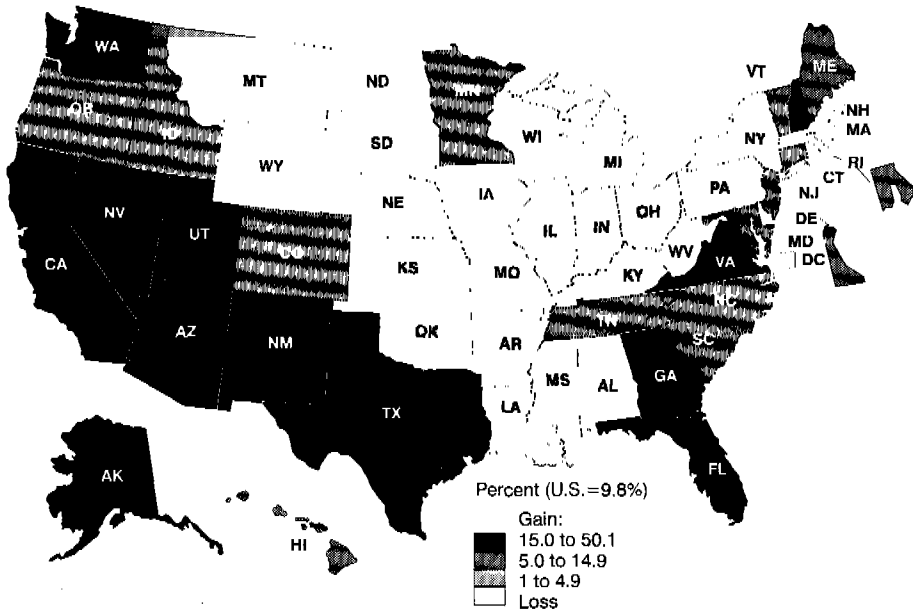
**Married couple.**—A "married couple" is defined as a husband and wife living together in the same household, with or without children and other relatives.

**Unrelated individuals.**—"Unrelated individuals" are persons (other than inmates of institutions) who are not members of families or subfamilies. An unrelated individual may be a nonfamily householder who lives alone or with nonrelatives only, or a secondary individual such as a guest, lodger, or resident employee. Persons in group quarters, except inmates of institutions, are classified as secondary individuals.

**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

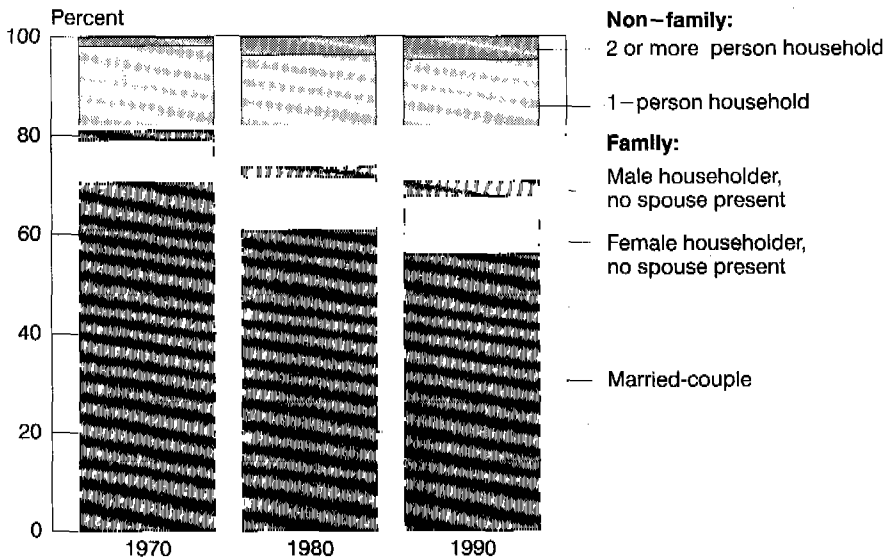
**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

Figure 1.1

**Percent Change in State Population: 1980 to 1990**

Source: Chart prepared by U.S. Bureau of the Census. For data, see table 26.

Figure 1.2

**Distribution of Households, by Type: 1970 to 1990**

Source: Chart prepared by U.S. Bureau of the Census. For data, see table 56.

**No. 1. Population and Area: 1970 to 1990**

[Area figures represent area on indicated date including in some cases considerable areas not then organized or settled, and not covered by the census. Total area figures for 1970-1990 have been recalculated on the basis of the remeasurement of States and counties for the 1980 census. The land and water area figures for past censuses have not been adjusted and are not strictly comparable with the total area data for comparable dates because the land areas were derived from different base data, and these values are known to have changed with the construction of reservoirs, draining of lakes, etc. Density figures are based on land area measurements as reported in earlier censuses]

CENSUS DATE	RESIDENT POPULATION				AREA (square miles)		
	Number	Per square mile of land area	Increase over preceding census		Gross	Land	Water
			Number	Percent			
CONTERRMINOUS U.S. <sup>1</sup>							
1790 (Aug. 2)	3,929,214	4.5	(X)	(X)	891,364	864,746	24,065
1800 (Aug. 4)	5,308,483	6.1	1,379,269	35.1	891,364	864,746	24,065
1810 (Aug. 6)	7,239,881	4.3	1,931,398	36.4	1,722,685	1,681,828	34,175
1820 (Aug. 7)	9,638,453	5.5	2,398,572	33.1	1,792,552	1,749,462	38,544
1830 (June 1)	12,866,020	7.4	3,227,567	33.5	1,792,552	1,749,462	38,544
1840 (June 1)	17,069,453	9.8	4,203,433	32.7	1,792,552	1,749,462	38,544
1850 (June 1)	23,191,876	7.9	6,122,423	35.9	2,991,655	2,940,042	52,705
1860 (June 1)	31,443,321	10.6	8,251,445	35.6	3,021,295	2,969,640	52,747
1870 (June 1)	<sup>2</sup> 39,818,449	<sup>13</sup> 13.4	8,375,128	26.6	3,021,295	2,969,640	52,747
1880 (June 1)	50,155,783	16.9	10,337,334	26.0	3,021,295	2,969,640	52,747
1890 (June 1)	62,947,714	21.2	12,791,931	25.5	3,021,295	2,969,640	52,747
1900 (June 1)	75,994,575	25.6	13,046,861	20.7	3,021,295	2,969,834	52,553
1910 (Apr. 15)	91,972,266	31.0	15,977,691	21.0	3,021,295	2,969,565	52,822
1920 (Jan. 1)	105,710,620	35.6	13,738,354	14.9	3,021,295	2,969,451	52,936
1930 (Apr. 1)	122,775,046	41.2	17,064,426	16.1	3,021,295	2,977,128	45,259
1940 (Apr. 1)	131,669,275	44.2	8,894,229	7.2	3,021,295	2,977,128	45,259
1950 (Apr. 1)	150,697,361	50.7	19,028,086	14.5	3,021,295	2,974,726	47,661
1960 (Apr. 1)	178,464,236	60.1	27,766,875	18.4	3,021,295	2,968,054	54,207
UNITED STATES							
1950 (Apr. 1)	151,325,798	42.6	19,161,229	14.5	3,618,770	3,552,206	63,005
1960 (Apr. 1)	179,323,175	50.6	27,997,377	18.5	3,618,770	3,540,911	74,212
1970 (Apr. 1)	<sup>3</sup> 203,302,031	<sup>57</sup> 57.4	23,978,856	13.4	3,618,770	<sup>3</sup> 3,540,023	<sup>74</sup> 74,444
1980 (Apr. 1)	226,545,805	64.0	23,243,774	11.4	3,618,770	3,539,289	79,481
1990 (Apr. 1)	248,709,873	70.3	22,164,068	9.8	3,787,425	3,536,342	<sup>4</sup> 251,083

X Not applicable. <sup>1</sup> Excludes Alaska and Hawaii. <sup>2</sup> Revised to include adjustments for underenumeration in southern States; unrevised number is 38,558,371 (13.0 per square mile). <sup>3</sup> Figures corrected after 1970 final reports were issued. <sup>4</sup> Comprises inland, coastal, Great Lakes, and territorial water. Data for prior years cover inland water only. For further explanation, see table 347.

Source: U.S. Bureau of the Census, *U.S. Census of Population: 1920 to 1980*, vol. I; and other reports and unpublished data. See also *Areas of the United States, 1940, and Area Measurement Reports, 1960*, series GE-20, No. 1.

**No. 2. Population: 1900 to 1990**

[In thousands, except percent. Estimates as of July 1. Prior to 1940, excludes Alaska and Hawaii. Total population includes Armed Forces abroad; civilian population excludes Armed Forces. For basis of estimates, see text, section 1. See also *Historical Statistics, Colonial Times to 1970*, series A-6-8]

YEAR	Resident population	YEAR	TOTAL		Resident population	Civilian population	YEAR	TOTAL		Resident population	Civilian population
			Population	Per cent change				Population	Per cent change		
1900	76,094	1951	154,878	1.71	153,982	151,599	1971	207,661	1.27	206,827	204,866
1905	83,822	1952	157,553	1.73	156,393	153,892	1972	209,896	1.08	209,284	207,511
1910	92,407	1953	160,184	1.67	158,956	156,595	1973	211,909	0.96	211,357	209,600
1915	100,546	1954	163,026	1.77	161,884	159,695	1974	213,854	0.92	213,342	211,636
1920	106,461	1955	165,931	1.78	165,069	162,967	1975	215,973	0.99	215,465	213,789
1925	115,829	1956	168,903	1.79	168,088	166,055	1976	218,035	0.95	217,563	215,894
1930	123,077	1957	171,984	1.82	171,187	169,110	1977	220,239	1.01	219,760	218,106
1935	127,250	1958	174,882	1.68	174,149	172,226	1978	222,585	1.06	222,095	220,467
1940	132,457	1959	177,830	1.69	177,135	175,277	1979	225,055	1.11	224,567	222,969
1941	133,669	1960	180,671	1.60	179,979	178,140	1980	227,719	1.18	227,217	225,613
1942	134,617	1961	183,691	1.67	182,992	181,143	1981	229,945	0.98	229,444	227,796
1943	135,107	1962	186,538	1.55	185,771	183,677	1982	232,171	0.97	231,648	229,979
1944	133,915	1963	189,242	1.45	188,483	186,493	1983	234,296	0.92	233,781	232,086
1945	133,434	1964	191,889	1.40	191,141	189,141	1984	236,343	0.87	235,820	234,104
1946	140,686	1965	194,303	1.26	193,526	191,605	1985	238,466	0.90	237,924	236,219
1947	144,083	1966	196,560	1.16	195,576	193,420	1986	240,658	0.92	240,140	238,419
1948	146,730	1967	198,712	1.09	197,457	195,264	1987	242,820	0.90	242,305	240,566
1949	149,304	1968	200,706	1.00	199,399	197,113	1988	245,051	0.92	244,529	242,847
1950	152,271	1969	202,677	0.98	201,385	199,145	1989	247,350	0.94	246,828	245,140
		1970	205,052	1.17	203,984	201,895	1990	249,975	1.06	249,466	247,826

<sup>1</sup> Estimates reflect the census of April 1, 1990 and are subject to change.

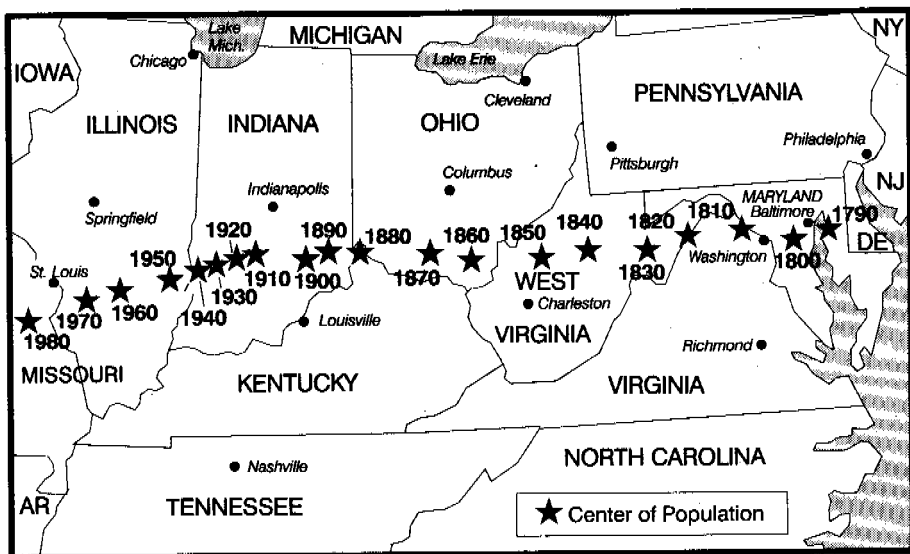
Source: U.S. Bureau of the Census, *Current Population Reports*, series P-25, Nos. 311, 1045, and 1069.

**1990 Census Note:** The population counts set forth herein are subject to possible correction for undercount or overcount. The United States Department of Commerce is considering whether to correct those counts and will publish corrected counts, if any, not later than July 15, 1991.

### No. 3. Center of Population: 1790 to 1980

["Center of population" is that point at which an imaginary flat, weightless, and rigid map of the United States would balance if weights of identical value were placed on it so that each weight represented the location of one person on the date of the census]

YEAR	North latitude			West longitude			Approximate location
	*	°	**	*	°	**	
1790 (Aug. 2)	39	16	30	76	11	12	23 miles east of Baltimore, MD
1850 (June 1)	38	59	0	81	19	0	23 miles southeast of Parkersburg, WV
1900 (June 1)	39	9	36	85	48	54	6 miles southeast of Columbus, IN
1950 (Apr. 1)	38	50	21	88	9	33	8 miles north-northwest of Olney, Richland County IL
1960 (Apr. 1)	38	35	58	89	12	35	In Clinton Co. about 6 1/2 miles northwest of Centralia, IL
1970 (Apr.)	38	27	47	89	42	22	5.3 miles east-southeast of the Mascoutah City Hall in St. Clair County, IL
1980 (Apr. 1)	38	8	13	90	34	26	1/4 mile west of De Soto in Jefferson County, MO



### Population

#### No. 4. U.S. Population Abroad, by Selected Area: 1989

[In thousands. As of May 1. Data compiled as part of noncombatant personnel evacuation requirements report]

AREA	Total <sup>1</sup>	Resident U.S. citizen	U.S. tourists	AREA	Total <sup>1</sup>	Resident U.S. citizen	U.S. tourists
<b>Total <sup>2</sup></b>	<b>4,244.4</b>	<b>2,241.7</b>	<b>1,164.5</b>	Japan	94.6	34.9	8.6
Australia	84.2	67.0	13.9	Jerusalem	35.3	30.0	5.1
Belgium	19.5	12.8	4.5	Mexico	690.2	425.4	262.0
Brazil	53.8	41.5	11.6	Netherlands	32.5	22.5	3.9
Canada	650.7	259.7	388.9	Panama	27.1	7.5	0.3
Colombia	23.5	20.8	2.1	Philippines	197.6	120.6	3.4
Costa Rica	27.7	23.7	3.6	Portugal	32.1	20.8	8.6
Dominican Republic	65.7	48.8	15.6	Saudi Arabia	25.1	20.1	1.2
Egypt	26.2	17.8	2.7	South Korea	54.9	11.7	15.5
France	134.3	44.6	88.5	Spain	106.1	61.4	26.0
Greece	67.5	54.0	9.6	Switzerland	36.5	24.1	11.4
Hong Kong	25.0	17.3	6.6	Turkey	23.0	11.2	2.8
Ireland	36.5	31.8	4.4	United Kingdom	256.9	170.1	42.5
Israel	93.7	77.2	15.9	Venezuela	24.0	20.3	3.3
Italy	157.7	83.4	49.4	West Germany	627.8	152.3	12.3

<sup>1</sup> Includes Dept. of Defense noncombatant employees, other U.S. government employees, and dependents of U.S. military and civilian employees, not shown separately. <sup>2</sup> Includes other countries not shown separately.

Source: U.S. Dept. of State, unpublished data.

## No. 5. Immigration: 1820 to 1989

[In thousands, except rate. For fiscal years ending in year shown, except as noted; see text, section 9. For definition of immigrants, see text, section 1. For 1820-1867, alien passengers arriving, 1868-1891 and 1895-1897, immigrants arriving; 1892-1894 and 1898 to the present, immigrants admitted. Rates based on Bureau of the Census estimates as of July 1 for resident population through 1929, and for total population thereafter (excluding Alaska and Hawaii prior to 1959). See also *Historical Statistics, Colonial Times to 1970*, series C 89]

PERIOD	Number	Rate <sup>1</sup>	PERIOD OR YEAR	Number	Rate <sup>1</sup>	YEAR	Number	Rate <sup>1</sup>
1820-1869	55,458	3.4	1841-1950	1,035	0.7	1977	462	2.1
1820-1830 <sup>2</sup>	152	1.2	1951-1960	2,515	1.5	1978	601	2.8
1831-1840 <sup>3</sup>	599	3.9	1961-1970	3,322	1.7	1979	460	2.1
1841-1850 <sup>4</sup>	1,713	8.4	1971-1980	4,493	2.1	1980	531	2.3
1851-1860 <sup>4</sup>	2,598	9.3	1981-1989	5,802	2.7	1981	597	2.6
1861-1870 <sup>5</sup>	2,315	6.4				1982	594	2.6
1871-1880	2,812	6.2	1970	373	1.8	1983	560	2.4
1881-1890	5,247	9.2	1971	370	1.8	1984	544	2.3
1891-1900	3,688	5.3	1972	385	1.8	1985	570	2.4
1901-1910	8,795	10.4	1973	400	1.9	1986	602	2.5
1911-1920	5,736	5.7	1974	395	1.9	1987	602	2.5
1921-1930	4,107	3.5	1975	386	1.8	1988	643	2.6
1931-1940	528	0.4	1976	399	1.9	1989 <sup>6</sup>	1,091	4.4

<sup>1</sup> Annual rate per 1,000 U.S. population. Rate computed by dividing sum of annual immigration totals by sum of annual U.S. population totals for same number of years. <sup>2</sup> Oct. 1, 1819-Sept. 30, 1830. <sup>3</sup> Oct. 1, 1830-Dec. 31, 1840. <sup>4</sup> Calendar years. <sup>5</sup> Jan. 1, 1861-June 30, 1870. <sup>6</sup> Includes persons who were granted permanent residence under the legalization program of the Immigration Reform and Control Act of 1986.

## No. 6. Immigrants Admitted, by Class of Admission: 1980 to 1989

[For fiscal year ending September 30. For definition of immigrants, see text, section 1. See also *Historical Statistics, Colonial Times to 1970*, series C 143-157]

CLASS OF ADMISSION	1980	1984	1985	1986	1987	1988	1989
Immigrants, total	530,639	543,903	570,009	601,708	601,516	643,025	1,090,924
Numerically limited	289,479	262,016	264,208	266,968	271,135	264,148	280,275
New arrivals	239,590	224,750	226,505	228,522	239,941	234,586	252,401
Adjustments	49,889	37,266	37,703	38,446	31,194	29,562	27,874
Exempt from numerical limitation	241,160	281,887	305,801	334,740	330,381	378,877	810,649
New arrivals	99,765	119,879	129,860	147,588	147,054	143,299	150,030
Adjustments	141,395	162,008	175,941	187,152	183,327	235,578	660,619
Numerically limited, total	289,479	262,016	264,208	266,968	271,135	264,148	280,275
Unmarried sons/daughters of U.S. citizens and their children (1st preference)	5,668	7,569	9,319	10,910	11,382	12,107	13,259
Spouses, unmarried sons/daughters of alien residents, and their children (2d pref.)	110,269	112,309	114,997	110,926	110,758	102,777	112,771
Professional or highly skilled immigrants (3d preference)	18,583	24,852	24,905	26,823	26,921	26,680	26,798
Married sons/daughters of U.S. citizens (4th preference)	10,752	14,681	18,460	20,702	20,703	21,940	28,975
Brothers or sisters of U.S. citizens (5th preference)	90,167	77,765	70,481	70,401	68,966	63,948	64,087
Needed skilled or unskilled workers (6th preference)	25,786	24,669	25,990	26,802	26,952	26,927	25,957
Conditional entries by refugees	12,222	(X)	(X)	(X)	(X)	(X)	(X)
Nonpreference	-	-	7	-	3,040	6,029	7,068
Recaptured Cuban numbers	15,813	(X)	(X)	(X)	(X)	(X)	(X)
Other	119	171	49	404	2,413	3,740	3,360
Exempt from numerical limitations	241,160	281,887	305,801	334,740	330,381	378,877	810,649
Immediate relatives	157,743	183,247	204,368	223,468	218,575	219,340	217,514
Spouses of U.S. citizens	98,854	116,596	129,790	137,597	132,452	130,977	125,744
Children of U.S. citizens	27,207	32,080	35,592	40,639	40,940	40,863	41,276
Orphans	5,139	8,327	9,286	9,945	10,097	9,120	7,948
Parents of U.S. citizens	33,682	34,571	38,986	45,232	45,183	47,500	50,494
Refugee and asylee adjustments	75,835	92,127	95,040	104,383	91,840	81,719	84,288
Cuban Refugee Act, Nov. 1966	6,021	3,460	14,288	30,152	26,869	10,993	5,206
Indochinese Refugee Act, Oct. 1977	22,497	875	166	136	83	42	40
Refugee-Parolee Act, Oct. 1978	46,058	7,657	3,766	1,720	866	437	381
Asylees, Refugee Act of 1980	1,250	5,607	5,000	5,000	5,000	5,445	5,145
Refugees, Refugee Act of 1980	(X)	74,528	71,820	67,375	59,022	64,801	73,516
Other refugees	9	-	-	-	-	1	-
Special immigrants	3,142	2,338	2,551	2,992	3,646	5,120	4,986
Ministers of religion	1,529	1,540	1,853	2,060	2,041	2,207	2,595
Employees of U.S. Government abroad	1,354	535	479	773	1,112	2,047	1,713
Foreign medical graduates, Act of Dec. 1981	(X)	174	87	48	28	7	11
Other special immigrants	259	89	132	111	465	859	667
Aliens adjusted	254	132	105	95	12,834	69,069	13,459
Children born abroad to resident aliens or subsequent to issuance of visa	4,059	3,759	3,508	3,554	3,269	3,082	2,806
Others not subject to numerical limitation	127	284	229	248	217	547	8,782

- Represents zero. X Not applicable. <sup>1</sup> Includes 478,814 persons who were granted permanent residence under the legalization program of the Immigration Reform and Control Act (IRCA) of 1986. <sup>2</sup> Includes spouses and children. <sup>3</sup> In 1980, conditional entries were a 7th preference class. <sup>4</sup> Under sections 244 and 249, Immigration and Naturalization Act. Includes Cuban/Haitian entrants under the Act of November 1986. <sup>5</sup> Includes Amerasians under Public Law 100-202. Amerasians are aliens born in Vietnam between January 1, 1962 and January 1, 1976 who were fathered by U.S. citizens.

Source of tables 5 and 6: U.S. Immigration and Naturalization Service, *Statistical Yearbook*, annual.

## No. 7. Immigrants, by Country of Birth: 1961 to 1989

[In thousands. For fiscal years ending in year shown; see text, section 9. For definition of immigrants, see text, section 1]

COUNTRY OF BIRTH	1961-1970, total	1971-1980, total	1981-1988, total	1989	COUNTRY OF BIRTH	1961-1970, total	1971-1980, total	1981-1988, total	1989
<b>All countries</b> . . .	<b>3,321.7</b>	<b>4,493.3</b>	<b>4,710.7</b>	<b>1,090.9</b>	Thailand . . . . .	5.0	44.1	46.2	9.3
<b>Europe</b> <sup>1</sup> . . . . .	<b>1,238.6</b>	<b>801.3</b>	<b>510.3</b>	<b>82.9</b>	Turkey . . . . .	6.8	18.6	16.4	2.0
Czechoslovakia . . . . .	21.4	10.2	9.1	1.0	Vietnam . . . . .	4.6	179.7	314.9	37.7
France . . . . .	34.3	17.8	17.7	2.6	<b>North America</b> <sup>1</sup> . . . . .	<b>1,351.1</b>	<b>1,645.0</b>	<b>1,560.0</b>	<b>607.4</b>
Germany . . . . .	200.0	66.0	55.8	6.8	Canada . . . . .	286.7	114.8	90.2	12.2
Greece . . . . .	90.2	93.7	23.9	2.5	Mexico . . . . .	443.3	637.2	569.0	405.2
Hungary . . . . .	17.3	11.6	6.9	1.2	Caribbean <sup>1</sup> . . . . .	519.5	759.8	688.4	88.9
Ireland . . . . .	42.4	14.1	15.5	7.0	Barbados . . . . .	9.4	20.9	14.1	1.6
Italy . . . . .	206.7	130.1	26.7	2.9	Cuba . . . . .	256.8	276.8	138.6	10.0
Netherlands . . . . .	27.8	10.7	9.3	1.2	Dominican Republic . . . . .	94.1	148.0	182.9	26.7
Poland . . . . .	73.3	43.6	61.8	15.1	Haiti . . . . .	37.5	58.7	106.2	13.7
Portugal . . . . .	79.3	104.5	32.2	3.8	Jamaica . . . . .	71.0	142.0	164.3	24.5
Romania . . . . .	14.9	17.5	29.7	4.6	Trinidad and Tobago . . . . .	24.6	61.8	27.4	5.4
Soviet Union . . . . .	15.7	43.2	47.4	11.1	Central America <sup>1</sup> . . . . .	97.7	132.4	211.5	101.0
Spain . . . . .	30.5	30.0	12.3	1.6	Costa Rica . . . . .	17.4	12.1	10.7	2.0
Sweden . . . . .	18.7	6.3	7.9	1.1	El Salvador . . . . .	15.0	34.4	76.5	57.9
Switzerland . . . . .	16.3	6.6	5.4	0.8	Guatemala . . . . .	15.4	25.6	36.6	19.0
United Kingdom . . . . .	230.5	123.5	112.1	14.1	Honduras . . . . .	15.5	17.2	29.9	7.6
Yugoslavia . . . . .	46.2	42.1	13.9	2.5	Nicaragua . . . . .	10.1	13.0	23.7	8.8
<b>Asia</b> <sup>1</sup> . . . . .	<b>445.3</b>	<b>1,633.8</b>	<b>2,168.7</b>	<b>312.1</b>	Panama . . . . .	18.4	22.7	22.1	3.5
Afghanistan . . . . .	0.4	2.0	20.2	3.2	<b>South America</b> <sup>1</sup> . . . . .	<b>228.3</b>	<b>284.4</b>	<b>311.2</b>	<b>58.9</b>
Cambodia . . . . .	1.2	8.4	105.3	6.1	Argentina . . . . .	42.1	25.1	17.0	3.3
China: Mainland . . . . .	96.7	202.5	295.5	14.0	Brazil . . . . .	20.5	13.7	16.2	3.3
Taiwan . . . . .	25.6	47.5	43.9	9.7	Chile . . . . .	11.5	17.6	18.4	3.0
Hong Kong . . . . .	31.2	176.8	200.0	31.2	Colombia . . . . .	70.3	77.6	85.0	15.2
India . . . . .	10.4	46.2	108.6	21.2	Ecuador . . . . .	37.0	50.2	38.0	7.5
Iran . . . . .	6.4	23.4	16.3	1.5	Guyana . . . . .	7.1	47.5	73.2	10.8
Iraq . . . . .	12.9	26.6	27.4	4.2	Peru . . . . .	18.6	29.1	38.5	10.2
Israel . . . . .	38.5	47.9	32.7	4.8	Venezuela . . . . .	8.5	7.1	12.7	2.1
Japan . . . . .	14.0	29.6	24.3	3.9	<b>Africa</b> <sup>1</sup> . . . . .	<b>39.3</b>	<b>91.5</b>	<b>131.2</b>	<b>25.2</b>
Jordan . . . . .	35.8	272.0	272.9	34.2	Egypt . . . . .	17.2	25.5	23.6	3.7
Korea . . . . .	0.1	22.6	122.7	12.5	Nigeria . . . . .	1.5	8.8	21.3	5.2
Laos . . . . .	7.5	33.8	30.3	5.7	South Africa . . . . .	4.5	11.5	11.8	1.9
Lebanon . . . . .	4.9	31.2	43.6	8.0	<b>Australia</b> . . . . .	<b>9.9</b>	<b>14.3</b>	<b>10.6</b>	<b>1.5</b>
Pakistan . . . . .	101.5	360.2	374.5	57.0	<b>Other countries</b> <sup>2</sup> . . . . .	<b>9.2</b>	<b>23.0</b>	<b>20.7</b>	<b>2.8</b>
Philippines . . . . .	4.6	13.3	14.9	2.7					
Syria . . . . .									

<sup>1</sup> Includes countries not shown separately. <sup>2</sup> Includes New Zealand.

## No. 8. Immigrants Admitted by Leading Country of Birth and Metropolitan Area of Intended Residence: 1989

[For year ending September 30. Includes Puerto Rico. Includes new arrivals and persons adjusting their status. MSA-metropolitan statistical area; PMSA-primary metropolitan statistical area; and NECMA-New England county metropolitan area as defined by U.S. Office of Management and Budget, June 30, 1986. See text, section 1, and Appendix I]

METROPOLITAN AREA OF INTENDED RESIDENCE	Total <sup>1</sup>	Mexico	El Salvador	Philippines	Vietnam	Korea	China: Mainland	India	Dominican Republic	Jamaica
<b>Total</b> <sup>2</sup> . . . . .	<b>1,090,924</b>	<b>405,172</b>	<b>57,878</b>	<b>57,034</b>	<b>37,739</b>	<b>34,222</b>	<b>32,272</b>	<b>31,175</b>	<b>26,723</b>	<b>24,523</b>
Los Angeles-Long Beach, CA PMSA . . . . .	262,805	149,827	32,693	10,516	3,936	6,385	3,749	1,559	50	342
New York, NY PMSA . . . . .	116,598	1,599	2,009	2,717	782	3,336	9,983	3,216	15,778	11,156
Chicago, IL PMSA . . . . .	60,336	32,541	480	3,040	595	1,384	874	2,951	73	353
Anaheim-Santa Ana, CA PMSA . . . . .	36,597	19,763	1,101	1,304	4,084	1,423	517	657	15	12
Houston, TX PMSA . . . . .	34,682	18,382	5,490	741	1,250	348	413	813	26	127
Washington, DC-MD-VA MSA . . . . .	26,695	330	4,408	1,131	1,652	1,854	753	1,199	207	749
Miami-Hialeah, FL PMSA . . . . .	24,569	435	558	209	44	55	127	106	823	1,971
San Diego, CA MSA . . . . .	23,233	13,794	163	3,455	926	217	212	117	11	21
San Francisco, CA PMSA . . . . .	22,754	3,800	2,349	3,611	991	384	3,500	268	6	13
Riverside-San Bernardino, CA PMSA . . . . .	20,630	14,668	606	874	521	334	134	194	4	22
San Jose, CA PMSA . . . . .	19,891	7,333	454	2,085	2,985	495	808	827	8	10
Boston-Lawrence-Salem-Lowell-Brockton, MA NECMA . . . . .	17,160	93	403	231	1,093	267	1,267	582	1,040	540
Oakland, CA PMSA . . . . .	15,843	3,671	514	2,502	848	437	1,318	718	10	20
Dallas, TX PMSA . . . . .	15,601	9,499	578	233	640	383	190	498	11	29
Newark, NJ PMSA . . . . .	12,436	53	345	582	235	278	290	804	409	829
Nassau-Suffolk, NY PMSA . . . . .	10,589	78	1,306	365	67	413	379	773	593	803
Bergen-Passaic, NJ PMSA . . . . .	10,527	180	194	615	27	702	236	755	1,153	532
Philadelphia, PA-NJ PMSA . . . . .	10,427	97	49	541	1,196	1,075	445	1,102	94	527
El Paso, TX MSA . . . . .	8,583	8,123	20	34	14	53	10	15	-	-
Jersey City, NJ PMSA . . . . .	8,158	61	449	730	145	158	96	778	896	44
Fresno, CA MSA . . . . .	7,958	5,013	77	165	113	39	72	184	1	2
Phoenix, AZ MSA . . . . .	7,142	3,961	124	192	444	181	136	164	4	6
McAllen-Edinburg-Mission, TX MSA . . . . .	6,962	6,787	28	4	-	14	2	3	8	-

- Represents zero. <sup>1</sup> Includes other countries, not shown separately. <sup>2</sup> Includes other metropolitan areas, not shown separately.Source of tables 7 and 8: U.S. Immigration and Naturalization Service, *Statistical Yearbook*, annual.

# Immigrants Admitted

11

## No. 9. Immigrants Admitted, by Leading States of Intended Residence and Country of Birth: 1989

[For year ending September 30. For definition of immigrants, see text, section 1]

COUNTRY OF BIRTH	Total <sup>1</sup>	California	New York	Texas	Illinois	Florida	New Jersey	Massachusetts	Virginia	Maryland
<b>Total</b>	<b>1,090,924</b>	<b>457,417</b>	<b>134,766</b>	<b>112,927</b>	<b>69,263</b>	<b>48,474</b>	<b>42,187</b>	<b>20,990</b>	<b>15,890</b>	<b>14,258</b>
Europe <sup>2</sup>	82,891	16,063	15,845	2,207	9,593	4,092	6,632	5,005	1,435	1,294
Poland	15,101	880	2,753	139	6,122	270	1,602	444	85	107
Soviet Union	11,128	4,577	2,934	52	694	75	312	898	43	216
United Kingdom	14,090	3,087	1,862	760	497	1,248	735	593	425	290
Asia <sup>2</sup>	312,149	119,334	39,450	14,458	15,429	6,811	14,933	8,067	8,665	6,462
China:										
Mainland	32,272	11,083	10,602	872	961	473	1,099	1,370	420	565
Taiwan	13,974	5,991	2,045	928	393	235	904	313	328	328
Hong Kong	9,740	4,116	2,189	388	289	202	255	430	117	165
India	31,175	5,578	4,558	1,917	3,267	872	4,017	771	829	906
Iran	21,243	11,554	1,425	1,298	521	580	415	367	740	745
Korea	34,222	10,584	4,282	1,357	1,706	515	1,716	432	1,450	1,284
Laos	12,524	5,486	261	354	266	121	24	263	109	55
Pakistan	8,000	1,361	1,567	853	1,099	362	581	104	392	232
Philippines	57,034	28,445	3,380	1,631	3,504	1,218	2,825	314	1,402	806
Thailand	9,332	4,376	415	362	358	225	76	340	266	168
Vietnam	37,739	16,045	1,501	2,784	759	823	679	1,546	1,190	511
North America <sup>2</sup>	607,398	307,653	54,583	91,843	41,627	26,861	11,275	5,161	3,070	3,762
Canada	12,151	2,342	1,116	516	300	1,985	331	370	196	171
Mexico	405,172	244,818	1,773	81,493	37,801	2,751	433	103	227	211
Caribbean <sup>2</sup>	88,932	1,662	43,144	708	833	17,185	8,106	3,633	357	1,436
Cuba	10,046	684	630	140	102	6,527	1,141	82	19	35
Dominican Republic	26,723	115	16,500	59	78	1,089	2,986	1,110	42	101
Haiti	13,658	73	6,546	32	176	3,222	1,457	1,224	24	173
Jamaica	24,523	486	12,370	195	390	4,620	1,819	711	143	721
Central America <sup>2</sup>	101,034	58,816	8,539	9,119	2,690	6,742	2,402	1,053	2,268	1,943
El Salvador	57,878	38,597	3,371	6,852	614	852	1,096	432	1,723	1,404
Guatemala	19,049	12,535	1,309	836	1,429	612	421	278	228	202
Nicaragua	8,830	3,621	421	457	68	2,844	148	34	155	158
South America <sup>2</sup>	58,926	8,254	20,679	1,871	1,697	7,987	7,481	1,194	1,399	1,278
Colombia	15,214	1,550	4,177	723	506	2,991	2,485	359	195	170
Guyana	10,789	200	8,050	112	57	433	852	83	36	284
Peru	10,175	2,396	2,160	275	268	1,327	1,717	145	413	299
Africa	25,166	4,035	3,991	2,384	847	803	1,803	1,471	1,054	1,436
Other	4,394	2,078	218	164	70	100	63	92	67	26

<sup>1</sup> Includes other States, Puerto Rico and other outlying areas, not shown separately. <sup>2</sup> Includes other countries, not shown separately.

Source: U.S. Immigration and Naturalization Service, *Statistical Yearbook*, annual.

## No. 10. Immigrants Admitted as Permanent Residents Under Refugee Acts, by Country of Birth: 1961 to 1989

[For fiscal years ending in year shown; see text, section 9. Covers immigrants who were allowed to enter U.S. under 1953 Refugee Relief Act and later acts; Hungarian parolees under July 1958 Act; refugee-escapee parolees under July 1960 Act; conditional entries by refugees under Oct. 1965 Act; Cuban parolees under Nov. 1966 Act; beginning 1978, Indochina refugees under Act of Oct. 1977; beginning 1980, refugee-parolees under the Act of Oct. 1978, and asylees under the Act of March 1980; and beginning 1981 refugees under the Act of March 1980]

COUNTRY OF BIRTH	1961-1970, total	1971-1980, total	1981-1988, total	1989	COUNTRY OF BIRTH	1961-1970, total	1971-1980, total	1981-1988, total	1989
<b>Total</b>	<b>212,843</b>	<b>539,447</b>	<b>831,968</b>	<b>84,288</b>	Iran	58	364	29,957	8,167
Europe	55,235	71,858	104,053	18,348	Iraq	119	6,851	7,208	191
Austria	233	185	314	26	Korea	1,316	85	114	4
Bulgaria	1,799	1,238	893	126	Laos	-	21,690	121,107	12,033
Czechoslovakia	5,709	3,646	6,861	640	Malaysia	9	192	1,146	72
Germany	665	143	589	108	Philippines	100	216	2,752	361
Greece	596	478	908	185	Syria	383	1,336	1,479	273
Hungary	4,044	4,358	3,486	588	Thailand	13	1,241	21,835	4,347
Italy	1,198	346	264	44	Turkey	1,489	1,193	1,445	175
Netherlands	3,134	8	10	-	Vietnam	7	150,266	282,033	21,883
Poland	3,197	5,882	26,144	3,842	Other Asia	1,307	1,538	2,312	346
Portugal	1,361	21	19	-	<b>North America</b>	<b>132,068</b>	<b>252,633</b>	<b>105,190</b>	<b>6,740</b>
Romania	7,158	6,812	23,274	3,338	Cuba	131,557	251,514	100,454	5,245
Soviet Union	4,114	31,309	39,856	9,264	El Salvador	1	45	940	198
Spain	18,299	11,297	615	37	Nicaragua	3	36	2,821	1,075
Yugoslavia	2,867	818	722	127	Other N. America	507	1,038	975	222
Other Europe	19,895	210,683	603,474	56,751	<b>South America</b>	<b>123</b>	<b>1,244</b>	<b>1,537</b>	<b>175</b>
Asia	-	-	-	-	Chile	4	420	492	18
Afghanistan	-	-	18,196	2,606	Other S. America	119	824	1,045	156
Cambodia	-	7,739	103,697	5,648	<b>Africa</b>	<b>5,486</b>	<b>2,991</b>	<b>17,668</b>	<b>2,269</b>
China	5,308	13,780	7,093	502	Egypt	5,386	1,473	308	49
Hong Kong	2,128	3,468	1,820	66	Ethiopia	2	1,307	15,076	1,784
Indonesia	7,658	222	1,280	77	Other Africa	88	211	2,284	436
					<b>Other</b>	<b>36</b>	<b>38</b>	<b>46</b>	<b>5</b>

- Represents zero. <sup>1</sup> Covers Mainland and Taiwan.

Source: U.S. Immigration and Naturalization Service, *Statistical Yearbook*, annual; and releases.

**No. 11. Total Population, by Race: 1960 to 1989**

[As of July 1. Includes Armed Forces overseas. For derivation of estimates, see text, section 1]

YEAR	Total (1,000)	White (1,000)	Black (1,000)	Other races (1,000)	PERCENT—		
					White	Black	Other races
1960	180,671	160,023	19,006	1,642	88.6	10.5	0.9
1970	205,052	179,644	22,801	2,607	87.6	11.1	1.3
1975	215,973	187,629	24,778	3,567	86.9	11.5	1.7
1980	227,757	195,571	26,903	5,283	85.9	11.8	2.3
1985	239,279	203,159	28,994	7,125	84.9	12.1	3.0
1989	248,762	209,326	30,788	8,647	84.1	12.4	3.5

**No. 12. Total Population, by Sex, Race, and Age: 1989**

[In thousands, except as indicated. As of July 1. Includes Armed Forces abroad. See headnote, table 11]

AGE	Total <sup>1</sup>	Male	Female	White	Black	AGE	Total <sup>1</sup>	Male	Female	White	Black
<b>Total</b>	<b>248,762</b>	<b>121,445</b>	<b>127,317</b>	<b>209,326</b>	<b>30,788</b>	50-54 yrs. old.	11,377	5,511	5,866	9,790	1,223
Under 5 yrs. old.	18,752	9,598	9,155	15,050	2,890	50 yrs. old.	2,411	1,165	1,247	2,063	267
Under 1 yr. old.	3,945	2,020	1,925	3,163	619	51 yrs. old.	2,312	1,123	1,189	1,991	245
1 yr. old.	3,717	1,904	1,813	2,983	577	52 yrs. old.	2,209	1,070	1,139	1,886	240
2 yrs. old.	3,660	1,872	1,788	2,931	567	53 yrs. old.	2,210	1,073	1,137	1,908	234
3 yrs. old.	3,710	1,896	1,812	2,983	561	54 yrs. old.	2,235	1,079	1,155	1,931	237
4 yrs. old.	3,721	1,904	1,816	2,989	565	55-59 yrs. old.	10,726	5,121	5,605	9,310	1,116
5-9 yrs. old.	18,212	9,321	8,891	14,628	2,802	55 yrs. old.	2,102	1,010	1,092	1,809	228
5 yrs. old.	3,605	1,844	1,761	2,895	550	56 yrs. old.	2,076	995	1,081	1,796	219
6 yrs. old.	3,678	1,883	1,795	2,959	558	57 yrs. old.	2,176	1,039	1,137	1,886	230
7 yrs. old.	3,733	1,910	1,822	3,000	573	58 yrs. old.	2,163	1,027	1,135	1,886	219
8 yrs. old.	3,573	1,831	1,742	2,874	549	59 yrs. old.	2,209	1,049	1,160	1,933	219
9 yrs. old.	3,624	1,853	1,770	2,900	573	60-64 yrs. old.	10,867	5,079	5,788	9,569	1,035
10-14 yrs. old.	16,950	8,689	8,260	13,574	2,679	60 yrs. old.	2,229	1,053	1,176	1,937	234
10 yrs. old.	3,563	1,826	1,737	2,846	571	61 yrs. old.	2,235	1,053	1,182	1,970	212
11 yrs. old.	3,418	1,751	1,667	2,740	540	62 yrs. old.	2,114	984	1,129	1,858	203
12 yrs. old.	3,384	1,735	1,649	2,712	534	63 yrs. old.	2,103	978	1,125	1,859	194
13 yrs. old.	3,257	1,668	1,589	2,608	513	64 yrs. old.	2,187	1,010	1,176	1,945	192
14 yrs. old.	3,327	1,708	1,619	2,668	522	65-69 yrs. old.	10,170	4,631	5,538	9,029	916
15-19 yrs. old.	17,847	9,123	8,725	14,367	2,767	65 yrs. old.	2,175	1,001	1,174	1,921	204
15 yrs. old.	3,278	1,681	1,598	2,619	520	66 yrs. old.	2,045	935	1,111	1,812	187
16 yrs. old.	3,355	1,718	1,637	2,672	542	67 yrs. old.	2,089	954	1,135	1,857	186
17 yrs. old.	3,536	1,815	1,720	2,832	561	68 yrs. old.	1,987	905	1,082	1,781	164
18 yrs. old.	3,794	1,936	1,858	3,068	583	69 yrs. old.	1,874	837	1,037	1,657	176
19 yrs. old.	3,884	1,973	1,911	3,177	561	70-74 yrs. old.	8,012	3,464	4,549	7,193	661
20-24 yrs. old.	18,886	9,529	9,356	15,490	2,695	70 yrs. old.	1,741	772	969	1,552	154
20 yrs. old.	3,772	1,913	1,859	3,078	549	71 yrs. old.	1,708	751	956	1,541	134
21 yrs. old.	3,625	1,835	1,790	2,964	523	72 yrs. old.	1,619	700	918	1,457	131
22 yrs. old.	3,671	1,851	1,820	3,014	521	73 yrs. old.	1,487	632	855	1,338	120
23 yrs. old.	3,777	1,899	1,879	3,101	538	74 yrs. old.	1,458	608	850	1,306	123
24 yrs. old.	4,040	2,031	2,008	3,332	563	75-79 yrs. old.	6,033	2,385	3,648	5,430	486
25-29 yrs. old.	21,830	10,979	10,851	18,192	2,861	75 yrs. old.	1,376	566	811	1,237	113
25 yrs. old.	4,242	2,136	2,106	3,519	571	76 yrs. old.	1,297	521	776	1,185	106
26 yrs. old.	4,282	2,153	2,128	3,564	566	77 yrs. old.	1,212	476	735	1,089	98
27 yrs. old.	4,400	2,210	2,191	3,666	578	78 yrs. old.	1,120	432	688	1,009	89
28 yrs. old.	4,326	2,173	2,153	3,618	555	79 yrs. old.	1,028	391	637	930	79
29 yrs. old.	4,580	2,307	2,273	3,825	591	80-84 yrs. old.	3,728	1,306	2,422	3,409	256
30-34 yrs. old.	22,218	11,151	11,068	18,622	2,767	80 yrs. old.	921	338	583	832	72
30 yrs. old.	4,575	2,299	2,276	3,812	590	81 yrs. old.	815	290	526	750	51
31 yrs. old.	4,483	2,251	2,233	3,764	552	82 yrs. old.	720	253	467	661	47
32 yrs. old.	4,507	2,263	2,244	3,778	561	83 yrs. old.	669	228	441	614	44
33 yrs. old.	4,297	2,149	2,147	3,602	527	84 yrs. old.	603	198	405	552	42
34 yrs. old.	4,357	2,189	2,168	3,666	536	85-89 yrs. old.	1,962	588	1,374	1,791	142
35-39 yrs. old.	19,676	9,782	9,894	16,664	2,273	85 yrs. old.	515	164	351	470	37
35 yrs. old.	4,204	2,101	2,103	3,545	504	86 yrs. old.	448	137	311	408	32
36 yrs. old.	4,033	2,008	2,025	3,417	462	87 yrs. old.	387	114	272	353	28
37 yrs. old.	3,934	1,954	1,980	3,332	456	88 yrs. old.	332	95	237	303	24
38 yrs. old.	3,744	1,853	1,891	3,183	419	89 yrs. old.	281	78	203	257	20
39 yrs. old.	3,762	1,866	1,896	3,187	431	90-94 yrs. old.	790	195	594	719	61
40-44 yrs. old.	16,908	8,319	8,589	14,571	1,731	90 yrs. old.	234	62	171	213	17
40 yrs. old.	3,761	1,856	1,905	3,200	419	91 yrs. old.	190	48	142	174	14
41 yrs. old.	3,583	1,768	1,815	3,091	364	92 yrs. old.	151	36	115	138	12
42 yrs. old.	3,855	1,903	1,952	3,376	357	93 yrs. old.	117	26	91	107	9
43 yrs. old.	2,825	1,381	1,444	2,430	287	94 yrs. old.	97	23	74	87	9
44 yrs. old.	2,885	1,411	1,473	2,474	303	95-99 yrs. old.	229	53	176	200	25
45-49 yrs. old.	13,528	6,608	6,921	11,678	1,396	95 yrs. old.	77	19	59	69	8
45 yrs. old.	2,846	1,391	1,455	2,447	299	96 yrs. old.	58	14	44	51	6
46 yrs. old.	3,068	1,499	1,569	2,676	296	97 yrs. old.	42	10	32	37	5
47 yrs. old.	2,748	1,339	1,409	2,359	296	98 yrs. old.	30	7	23	25	4
48 yrs. old.	2,440	1,193	1,247	2,112	246	99 yrs. old.	22	5	17	19	3
49 yrs. old.	2,427	1,185	1,241	2,083	260	100 yrs. old and over	61	13	48	50	9
						Median age (yr.)	32.6	31.5	33.8	33.6	27.7

<sup>1</sup> Includes other races, not shown separately.Source of tables 11 and 12: U.S. Bureau of the Census, *Current Population Reports*, series P-25, Nos. 1045 and 1057.



## No. 13. Total Population, by Age and Sex: 1960 to 1989

[In thousands, except as indicated. As of July 1. Includes Armed Forces abroad. For derivation of estimates, see text, section 1. For definition of median, see Guide to Tabular Presentation. See also *Historical Statistics, Colonial Times to 1970*, series A23-25 and A29-41]

YEAR AND SEX	Total, all ages	Under 5 years	5 to 9 years	10 to 14 years	15 to 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 39 years	40 to 44 years	45 to 49 years	50 to 54 years	55 to 59 years	60 to 64 years	65 to 69 years	70 to 74 years	75 years and over	14 to 17 years	18 to 19 years	16 years and over	65 years and over	Median age and over (yr.)
<b>Total:</b>																						
1960.....	180,571	20,341	18,810	16,925	13,442	11,134	10,936	11,983	12,542	11,678	10,914	9,664	8,471	7,154	11,053	5,622	32,965	11,219	16,128	121,835	16,675	29.4
1970.....	205,052	17,166	19,919	20,853	19,333	17,202	13,736	11,587	11,155	11,985	12,151	11,166	10,006	8,676	12,438	7,614	36,872	15,924	24,712	143,093	20,107	27.9
1975.....	215,973	16,121	17,594	20,646	21,285	19,527	17,280	14,791	11,634	11,197	11,784	11,972	10,646	9,399	13,917	8,779	33,919	17,126	28,005	157,343	22,606	28.7
1980.....	227,573	16,458	16,609	18,236	21,759	21,584	19,804	17,822	14,124	11,744	11,054	11,700	11,045	10,145	15,663	10,051	31,919	16,142	30,350	175,456	22,098	30.0
1984.....	237,001	17,830	16,464	17,511	18,823	21,536	21,661	19,769	16,984	13,635	11,469	11,033	11,444	10,872	16,740	11,231	30,238	14,704	29,391	181,514	27,971	31.1
1986.....	239,279	18,004	16,822	17,101	18,587	21,214	21,862	20,346	17,782	14,077	11,552	10,945	11,342	10,965	17,009	11,531	30,110	14,865	28,749	189,583	28,540	31.4
1987.....	241,625	18,154	17,295	16,565	18,648	20,608	22,132	20,947	18,789	15,983	12,556	10,929	11,273	10,962	17,334	11,840	30,351	14,797	27,987	195,768	28,540	31.7
1988.....	243,942	18,267	16,485	18,497	19,982	22,107	21,409	19,789	18,789	15,983	12,556	10,929	11,273	10,962	17,334	11,840	30,351	14,797	27,987	195,768	28,540	31.7
1989.....	246,307	18,432	18,037	16,626	18,249	19,371	22,004	21,576	19,134	16,150	13,033	11,139	10,988	10,934	17,906	12,468	31,405	13,983	26,885	189,867	30,374	32.0
1989.....	246,762	18,752	18,212	16,950	17,847	18,866	21,830	22,004	19,676	16,908	13,528	11,377	10,726	10,667	18,182	12,802	31,834	13,496	26,564	191,570	30,964	32.6
<b>Male:</b>																						
1960.....	89,320	10,339	9,565	8,602	6,803	5,568	5,423	5,904	6,140	5,732	5,379	4,783	4,145	3,414	5,133	2,409	16,762	5,683	8,093	59,413	7,542	26.5
1970.....	100,354	8,751	10,152	10,622	9,816	8,655	6,821	5,716	5,475	5,847	5,873	5,380	4,761	4,052	5,461	2,953	18,887	8,108	12,451	68,767	8,413	28.6
1975.....	110,888	8,417	8,895	9,314	10,778	10,882	9,897	8,845	6,964	5,756	5,376	5,619	5,480	4,700	6,791	3,575	15,893	8,247	15,327	82,624	10,366	28.8
1980.....	116,648	9,212	8,609	8,762	9,478	10,707	11,006	10,166	8,793	6,910	5,984	5,284	5,383	5,118	7,475	4,062	15,415	7,611	14,529	88,136	11,537	30.3
1984.....	121,445	9,598	9,321	8,689	9,123	9,529	10,979	11,151	9,762	8,319	6,608	5,511	5,121	5,079	8,095	4,541	16,302	6,922	13,438	92,156	12,636	31.5
1986.....	91,352	10,002	9,245	8,323	6,840	5,566	5,512	6,079	6,403	5,946	5,535	4,901	4,326	3,741	5,920	3,212	16,203	5,536	8,034	62,422	9,139	30.3
1987.....	104,698	8,415	9,768	10,230	9,517	8,547	6,915	5,672	5,680	6,148	6,277	5,786	5,225	4,624	7,032	4,061	17,985	7,816	12,261	74,303	11,693	29.2
1988.....	116,869	8,040	8,114	8,923	10,382	10,702	9,906	8,972	7,180	5,988	5,777	5,086	5,136	5,446	8,662	6,476	15,203	7,895	15,022	89,833	15,398	31.3
1989.....	122,631	8,792	8,214	8,339	9,109	10,507	10,866	10,179	8,969	7,167	5,868	5,861	5,960	5,577	9,534	7,469	14,685	7,254	14,219	95,446	17,003	32.6
1989.....	127,317	9,165	8,891	8,260	8,725	9,356	10,851	11,068	9,894	8,589	6,921	5,866	5,605	5,788	10,067	8,261	15,532	6,574	13,126	99,414	18,348	33.8
<b>PERCENT</b>																						
<b>Total:</b>																						
1960.....	100.0	11.3	10.4	9.4	7.4	6.2	6.1	6.6	6.6	6.5	6.0	5.3	4.7	4.0	6.1	3.1	18.2	6.2	8.9	67.4	9.2	(X)
1970.....	100.0	8.4	9.7	10.2	9.4	8.4	6.7	5.7	5.4	5.8	5.9	5.4	4.9	4.2	6.1	3.7	17.9	7.8	12.1	68.8	9.8	(X)
1975.....	100.0	7.2	7.3	8.0	9.3	9.5	8.7	7.8	6.2	5.2	4.9	5.1	5.1	4.5	6.9	4.4	13.7	7.1	13.3	75.7	11.3	(X)
1980.....	100.0	7.5	7.0	7.1	7.8	8.9	9.1	8.5	7.4	5.9	4.6	4.7	4.6	4.7	7.1	4.8	12.6	6.2	12.0	78.7	11.9	(X)
1984.....	100.0	7.5	7.3	6.8	7.2	7.6	6.8	8.9	7.9	6.8	5.4	4.6	4.3	4.4	7.3	5.1	12.8	5.4	10.7	77.0	12.5	(X)
<b>Male:</b>																						
1960.....	100.0	11.6	10.7	9.6	7.6	6.2	6.1	6.6	6.9	6.4	6.0	5.3	4.6	3.8	5.7	2.7	18.8	6.4	9.1	66.5	8.4	(X)
1970.....	100.0	8.0	9.3	9.8	9.1	8.2	6.6	5.6	5.4	5.9	6.0	5.5	5.0	4.4	6.7	4.5	17.2	7.5	11.7	71.0	11.2	(X)
1975.....	100.0	6.9	6.9	7.6	8.9	9.2	8.5	7.7	6.1	5.1	4.9	5.2	5.3	4.7	7.6	5.5	13.0	6.8	12.9	76.9	13.1	(X)
1980.....	100.0	7.2	6.7	6.8	7.4	8.6	8.9	8.3	7.3	5.8	4.8	4.6	4.4	4.5	7.8	6.1	12.0	5.9	11.6	77.8	13.9	(X)
1984.....	100.0	7.2	6.7	6.5	6.9	7.3	8.5	8.7	7.8	6.7	5.4	4.6	4.4	4.5	7.9	6.5	12.2	5.2	10.3	76.1	14.4	(X)
<b>Female:</b>																						
1960.....	100.0	10.9	10.1	9.1	7.3	6.1	6.0	6.7	7.0	6.5	6.1	5.4	4.7	4.1	6.5	3.5	17.7	6.1	8.8	69.3	10.0	(X)
1970.....	100.0	8.0	9.3	9.8	9.1	8.2	6.6	5.6	5.4	5.9	6.0	5.5	5.0	4.4	6.7	4.5	17.2	7.5	11.7	71.0	11.2	(X)
1975.....	100.0	6.9	6.9	7.6	8.9	9.2	8.5	7.7	6.1	5.1	4.9	5.2	5.3	4.7	7.6	5.5	13.0	6.8	12.9	76.9	13.1	(X)
1980.....	100.0	7.2	6.7	6.8	7.4	8.6	8.9	8.3	7.3	5.8	4.8	4.6	4.4	4.5	7.8	6.1	12.0	5.9	11.6	77.8	13.9	(X)
1984.....	100.0	7.2	6.7	6.5	6.9	7.3	8.5	8.7	7.8	6.7	5.4	4.6	4.4	4.5	7.9	6.5	12.2	5.2	10.3	76.1	14.4	(X)

X Not applicable.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-25, Nos. 519, 917, 1045, and 1057.

## No. 14. Estimated Components of Population Change, by Race: 1960 to 1989

YEAR OR PERIOD	TOTAL (Jan. 1-Dec. 31)						RATE PER 1,000 MID-PERIOD POPULATION				
	Population at start of period (1,000)	Net increase <sup>1</sup>		Natural increase		Net civilian immigration (1,000)	Net growth rate	Natural increase			Net civilian immigration rate
		Total (1,000)	Per-cent <sup>2</sup>	Births <sup>3</sup> (1,000)	Deaths (1,000)			Total	Birth rate <sup>3</sup>	Death rate	
ALL RACES											
1960.....	179,386	2,901	1.62	4,307	1,708	328	16.1	14.4	23.8	9.5	1.8
1965.....	193,223	2,315	1.20	3,801	1,830	373	11.9	10.1	19.6	9.4	1.9
1970.....	203,849	2,617	1.28	3,739	1,927	438	12.8	8.8	18.2	9.4	2.1
1975.....	214,931	2,165	1.01	3,144	1,894	449	10.0	5.8	14.6	8.8	2.1
1980.....	226,451	2,582	1.14	3,612	1,990	845	11.3	7.1	15.9	8.7	3.7
1985.....	238,207	2,325	0.98	3,761	2,087	650	9.7	7.0	15.7	8.7	2.7
1987.....	242,841	2,367	0.97	3,809	2,124	683	9.7	6.9	15.6	8.7	2.8
1988.....	245,208	2,409	0.98	3,913	2,171	667	9.8	7.1	15.9	8.8	2.7
1989.....	247,617	2,505	1.01	3,977	2,155	682	10.1	7.3	16.0	8.7	2.7
Annual averages:											
1960-1964.....	179,386	2,767	1.54	4,210	1,756	346	14.8	13.2	22.6	9.4	1.9
1965-1969.....	193,223	2,125	1.10	3,633	1,889	418	10.7	8.8	18.3	9.5	2.1
1970-1974.....	203,849	2,216	1.09	3,370	1,946	359	10.6	6.8	16.1	9.3	1.7
1975-1979.....	214,931	2,304	1.07	3,293	1,909	449	10.5	6.3	14.9	8.7	2.0
1980-1984.....	226,451	2,351	1.04	3,646	2,001	682	10.1	7.1	15.7	8.6	2.9
1985-1989.....	238,207	2,383	1.00	3,843	2,128	668	9.8	7.0	15.8	8.7	2.7
WHITE											
1970.....	178,692	2,050	1.15	3,095	1,687	327	11.4	7.8	17.2	9.4	1.8
1975.....	186,955	1,459	0.78	2,552	1,661	173	7.8	4.7	13.6	8.9	0.9
1980 <sup>4</sup> .....	195,143	1,272	0.65	2,899	1,739	431	6.5	5.9	14.8	8.9	2.2
1985.....	202,463	1,527	0.75	2,991	1,820	353	7.5	5.8	14.7	9.0	1.7
1987.....	205,490	1,534	0.75	2,992	1,843	386	7.4	5.6	14.5	8.9	1.9
1988.....	207,024	1,580	0.76	3,084	1,887	383	7.6	5.8	14.8	9.1	1.8
1989.....	208,604	1,617	0.78	3,105	1,872	383	7.7	5.9	14.8	8.9	1.8
BLACK											
1970.....	22,617	424	1.87	575	226	39	18.6	15.3	25.2	9.9	1.7
1975.....	24,602	382	1.55	512	218	38	15.4	11.8	20.6	8.8	1.5
1980 <sup>4</sup> .....	26,645	488	1.83	590	233	76	18.1	13.3	21.9	8.7	2.8
1985.....	28,802	421	1.46	608	244	58	14.5	12.5	21.0	8.4	2.0
1987.....	29,656	454	1.53	642	255	67	15.2	12.9	21.5	8.5	2.3
1988.....	30,110	452	1.50	650	259	60	14.9	12.9	21.4	8.5	2.0
1989.....	30,562	485	1.59	681	256	60	15.8	13.8	22.1	8.3	2.0
OTHER RACES											
1970.....	2,540	143	5.62	68	13	73	54.8	21.0	26.1	5.1	27.8
1975.....	3,375	324	9.61	81	15	238	91.0	18.5	22.6	4.1	66.8
1980 <sup>4</sup> .....	4,664	823	17.64	124	18	338	155.7	20.0	23.5	3.5	64.0
1985.....	6,942	377	5.43	161	23	239	52.9	19.3	22.6	3.3	33.6
1987.....	7,694	380	4.94	175	25	230	48.2	19.0	22.3	3.2	29.2
1988.....	8,074	377	4.67	179	26	224	45.7	18.6	21.7	3.1	27.1
1989.....	8,451	402	4.76	190	27	239	46.5	18.9	22.0	3.1	27.6

<sup>1</sup> Includes overseas admissions into, less discharges from, Armed Forces and includes for 1960-1980 "error of closure" (the amount necessary to make the components of change add to the net change between censuses), for which figures are not shown separately. <sup>2</sup> Percent of population at beginning of period. <sup>3</sup> Adjusted for underregistration prior to April 1, 1970. <sup>4</sup> Change in population by race includes the effect of a change in the definition of race.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-25, Nos. 1045 and 1057.

## No. 15. Projections of the Hispanic Population, by Age and Sex: 1995 to 2010

[As of July 1. Includes Armed Forces overseas. See text, section 1 for explanation of methodology. Data are for the middle series with the following assumptions about fertility (ultimate lifetime births per woman), mortality (ultimate life expectancy in 2080) and immigration (yearly net immigration): 1.9 births per woman, 81.0 years, and 143,000 net immigration. These projections are not consistent with those shown in tables 16, 17, and 18. They were also prepared prior to the release of 1990 census results and are therefore not based on 1990 census data.]

AGE AND SEX	POPULATION (1,000)				PERCENT DISTRIBUTION		PERCENT CHANGE	
	1995	2000	2005	2010	2000	2010	1990-2000	2000-2010
<b>Total</b> .....	<b>22,550</b>	<b>25,223</b>	<b>27,959</b>	<b>30,795</b>	<b>100.0</b>	<b>100.0</b>	<b>26.8</b>	<b>22.1</b>
Under 5 years old.....	2,412	2,496	2,644	2,852	9.9	9.3	9.4	14.3
5-17 years old.....	5,555	6,207	6,551	6,848	24.6	22.2	28.6	10.3
18-24 years old.....	2,511	2,767	3,254	3,599	11.0	11.7	15.9	30.1
25-34 years old.....	3,717	3,804	4,036	4,526	15.1	14.7	4.8	19.0
35-44 years old.....	3,430	3,803	3,894	3,983	15.1	12.9	36.4	4.7
45-54 years old.....	2,165	2,811	3,440	3,806	11.1	12.4	68.5	35.4
55-64 years old.....	1,342	1,619	2,093	2,704	6.4	8.8	36.9	67.0
65-74 years old.....	894	1,041	1,183	1,432	4.1	4.7	47.2	37.6
75 years old and over.....	525	678	864	1,045	2.7	3.4	61.8	54.1
16 years old and over.....	15,322	17,419	19,753	22,131	69.0	71.9	29.5	27.1
<b>Male</b> .....	<b>11,285</b>	<b>12,627</b>	<b>14,000</b>	<b>15,419</b>	<b>50.1</b>	<b>50.1</b>	<b>26.9</b>	<b>22.1</b>
<b>Female</b> .....	<b>11,265</b>	<b>12,596</b>	<b>13,960</b>	<b>15,376</b>	<b>49.9</b>	<b>49.9</b>	<b>26.7</b>	<b>22.1</b>

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-25, No. 995.

**No. 16. Projections of Total Population, by Race: 1991 to 2025**

[As of July 1. Includes Armed Forces abroad. See text, section 1 for explanation of methodology. For the series shown, the following assumptions were made about fertility (ultimate lifetime births per woman), mortality (ultimate life expectancy in 2080), and immigration (ultimate yearly net immigration). Lowest series: 1.5 births per woman, 77.9 years, and 300,000 net immigration. Middle series: 1.8 births per woman, 81.2 years, and 500,000 immigration. Highest series: 2.2 births per woman, 88.0 years, and 800,000 net immigration. Zero migration series: 1.8 births per woman and 81.2 years. These projections were prepared prior to the release of 1990 census results and are therefore not based on 1990 census data]

YEAR	TOTAL POPULATION (1,000)				BY RACE (middle series)					
	Lowest series (series 19)	Middle series (series 14)	Highest series (series 9)	Zero migration (series 29)	Number (1,000)			Percent distribution		
					White	Black	Other races	White	Black	Other races
1991	250,178	252,502	254,570	249,402	211,993	31,571	8,938	84.0	12.5	3.5
1992	251,592	254,521	257,235	250,781	213,301	31,988	9,232	83.8	12.6	3.6
1993	252,906	256,466	259,888	252,083	214,542	32,398	9,527	83.7	12.6	3.7
1994	254,121	258,338	262,526	253,308	215,714	32,801	9,823	83.5	12.7	3.8
1995	255,239	260,138	265,151	254,459	216,820	33,199	10,119	83.3	12.8	3.9
1996	256,266	261,872	267,766	255,541	217,862	33,592	10,418	83.2	12.8	4.0
1997	257,207	263,543	270,376	256,561	218,845	33,981	10,717	83.0	12.9	4.1
1998	258,068	265,157	272,986	257,523	219,773	34,366	11,017	82.9	13.0	4.2
1999	258,856	266,730	275,602	258,436	220,661	34,749	11,320	82.7	13.0	4.2
2000	259,576	268,266	278,228	259,304	221,514	35,129	11,624	82.6	13.1	4.3
2005	262,363	275,604	291,710	263,189	225,424	37,003	13,177	81.8	13.4	4.8
2010	264,193	282,575	305,882	266,528	228,978	38,833	14,764	81.0	13.7	5.2
2015	265,072	288,997	320,494	269,131	232,081	40,564	16,352	80.3	14.0	5.7
2020	264,536	294,364	335,022	270,493	234,330	42,128	17,906	79.6	14.3	6.1
2025	262,218	298,252	348,985	270,234	235,369	43,473	19,410	78.9	14.6	6.5

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-25, No. 1018.

**No. 17. Projected Components of Population Change, by Race: 1995 to 2025**

[Includes Armed Forces overseas. Projections are for middle series (series 14); for assumptions, see headnote, table 16. For explanation of methodology, see text, section 1]

YEAR AND RACE	TOTAL (Jan. 1-Dec. 31)					RATE PER 1,000 MIDYEAR POPULATION					
	Population at start of period (1,000)	Net increase <sup>1</sup>		Natural increase		Net civilian immigration (1,000)	Net growth rate <sup>1</sup>	Natural increase			Net civilian immigration rate
		Total (1,000)	Per-cent <sup>2</sup>	Births (1,000)	Deaths (1,000)			Total	Birth rate	Death rate	
ALL RACES											
1995	259,238	1,767	0.68	3,517	2,275	525	6.8	4.8	13.5	8.7	2.0
2000	267,498	1,522	0.57	3,389	2,367	500	5.7	3.8	12.6	8.8	1.9
2005	274,884	1,433	0.52	3,399	2,465	500	5.2	3.4	12.3	8.9	1.8
2010	281,894	1,351	0.48	3,485	2,634	500	4.8	3.0	12.3	9.3	1.8
2025	297,926	622	0.21	3,357	3,235	500	2.1	0.4	11.3	10.9	1.7
WHITE											
1995	216,267	1,074	0.50	2,744	1,966	296	5.0	3.6	12.7	9.1	1.4
2000	221,087	837	0.38	2,602	2,038	273	3.8	2.5	11.7	9.2	1.2
2005	225,048	746	0.33	2,583	2,110	273	3.3	2.1	11.5	9.4	1.2
2010	228,637	674	0.29	2,639	2,238	273	2.9	1.8	11.5	9.8	1.2
2025	235,317	79	0.03	2,490	2,684	273	0.3	-0.8	10.6	11.4	1.2
BLACK											
1995	33,000	396	1.20	601	262	56	11.9	10.2	18.1	7.9	1.7
2000	34,939	379	1.08	597	272	54	10.8	9.2	17.0	7.7	1.5
2005	36,816	372	1.01	604	286	54	10.1	8.6	16.3	7.7	1.5
2010	38,653	358	0.93	616	312	54	9.2	7.8	15.9	8.0	1.4
2025	43,348	247	0.57	602	410	54	5.7	4.5	13.9	9.5	1.3
OTHER RACES											
1995	9,971	298	2.98	172	48	174	29.4	12.2	17.0	4.7	17.2
2000	11,472	305	2.66	190	58	173	26.3	11.4	16.4	5.0	14.9
2005	13,020	315	2.42	211	69	173	23.9	10.8	16.0	5.2	13.1
2010	14,604	319	2.18	230	84	173	21.6	9.9	15.6	5.7	11.7
2025	19,261	296	1.54	265	142	173	15.5	6.4	13.9	7.4	9.0

<sup>1</sup> Includes overseas admissions into, less discharges from, Armed Forces, not shown separately. <sup>2</sup> Percent of population at beginning of period.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-25, No. 1018.

**No. 18. Projections of the Total Population by Age, Sex, and Race: 1995 to 2010**

[As of July 1. Includes Armed Forces overseas. Data are for middle series; for assumptions, see headnote, table 16. For explanation of methodology, see text, section 1. Minus sign (-) indicates decrease]

AGE, SEX, AND RACE	POPULATION (1,000)				PERCENT DISTRIBUTION		PERCENT CHANGE	
	1995	2000	2005	2010	2000	2010	1990- 2000	2000- 2010
<b>Total</b> . . . . .	<b>260,138</b>	<b>268,266</b>	<b>275,604</b>	<b>282,575</b>	<b>100.0</b>	<b>100.0</b>	<b>7.1</b>	<b>5.3</b>
Under 5 years old . . . . .	17,799	16,898	16,611	16,899	6.3	6.0	8.2	(Z)
5-17 years old . . . . .	48,374	48,815	47,471	45,747	18.2	16.2	7.0	6.3
18-24 years old . . . . .	24,281	25,231	26,918	27,155	9.4	9.6	-3.5	7.6
25-34 years old . . . . .	40,962	37,149	35,997	37,572	13.8	13.3	-15.4	1.1
35-44 years old . . . . .	42,336	43,911	40,951	37,202	16.4	13.2	-15.9	1.1
45-54 years old . . . . .	31,297	37,223	41,619	43,207	13.9	15.3	46.0	16.1
55-64 years old . . . . .	21,325	24,156	29,762	35,430	9.0	12.5	46.7	16.1
65-74 years old . . . . .	18,930	18,243	18,410	21,039	6.8	7.4	0.7	15.3
75 years old and over . . . . .	14,834	16,639	17,864	18,323	6.2	6.5	26.2	10.1
16 years old and over . . . . .	201,018	210,134	219,301	227,390	78.3	80.5	8.9	8.2
<b>Male, total</b> . . . . .	<b>127,123</b>	<b>131,191</b>	<b>134,858</b>	<b>138,333</b>	<b>100.0</b>	<b>100.0</b>	<b>7.3</b>	<b>5.4</b>
Under 5 years old . . . . .	9,118	8,661	8,517	8,668	6.6	6.3	-8.1	0.1
5-17 years old . . . . .	24,787	25,027	24,350	23,473	19.1	17.0	7.1	-6.2
18-24 years old . . . . .	12,290	12,770	13,629	13,752	9.7	9.9	-3.4	7.7
25-34 years old . . . . .	20,579	18,962	18,091	18,878	14.2	13.6	-15.5	1.2
35-44 years old . . . . .	21,104	21,945	20,458	18,586	16.7	13.4	-16.8	-15.3
45-54 years old . . . . .	15,292	18,206	20,585	21,432	13.9	15.5	47.5	17.1
55-64 years old . . . . .	10,149	11,557	14,321	17,173	8.8	12.4	44.4	48.6
65-74 years old . . . . .	8,476	8,242	8,407	9,691	6.3	7.0	0.9	17.6
75 years old and over . . . . .	5,326	6,032	6,501	6,681	4.6	4.8	28.9	10.8
16 years old and over . . . . .	96,834	101,392	105,984	110,024	77.3	79.5	9.2	8.5
<b>Female, total</b> . . . . .	<b>133,016</b>	<b>137,076</b>	<b>140,746</b>	<b>144,241</b>	<b>100.0</b>	<b>100.0</b>	<b>7.0</b>	<b>5.2</b>
Under 5 years old . . . . .	8,681	8,237	8,094	8,231	6.0	5.7	-8.3	-0.1
5-17 years old . . . . .	23,587	23,788	23,121	22,274	17.4	15.4	6.9	-6.4
18-24 years old . . . . .	11,991	12,461	13,290	13,402	9.1	9.3	-3.6	7.6
25-34 years old . . . . .	20,384	18,487	17,906	18,694	13.5	13.0	-15.4	1.1
35-44 years old . . . . .	21,233	21,966	20,493	18,616	16.0	12.9	-14.9	-15.3
45-54 years old . . . . .	16,005	18,927	21,034	21,775	13.8	15.1	44.7	15.0
55-64 years old . . . . .	11,175	12,601	15,441	18,257	9.2	12.7	44.9	44.9
65-74 years old . . . . .	10,454	10,001	10,004	11,348	7.3	7.9	-2.0	13.5
75 years old and over . . . . .	9,507	10,607	11,364	11,642	7.7	8.1	24.7	9.8
16 years old and over . . . . .	104,184	108,742	113,317	117,366	79.3	81.4	8.6	7.9
<b>White, total</b> . . . . .	<b>216,820</b>	<b>221,514</b>	<b>225,424</b>	<b>228,978</b>	<b>100.0</b>	<b>100.0</b>	<b>5.2</b>	<b>3.4</b>
Under 5 years old . . . . .	14,251	13,324	12,936	13,084	6.0	5.7	-10.5	-1.8
5-17 years old . . . . .	38,493	38,569	37,118	35,258	17.4	15.4	5.6	-8.6
18-24 years old . . . . .	19,452	19,998	21,188	21,298	9.0	9.3	-6.2	6.5
25-34 years old . . . . .	33,680	29,988	28,603	29,585	13.5	12.9	-18.1	-1.3
35-44 years old . . . . .	35,635	36,574	33,639	29,997	16.5	13.1	-13.2	18.0
45-54 years old . . . . .	26,879	31,618	34,911	35,860	14.3	15.7	44.0	13.4
55-64 years old . . . . .	18,327	20,667	25,407	29,913	9.3	13.1	10.9	44.7
65-74 years old . . . . .	16,681	15,811	15,708	17,875	7.1	7.8	-3.5	13.1
75 years old and over . . . . .	13,421	14,965	15,914	16,108	6.8	7.0	25.1	7.6
16 years old and over . . . . .	169,665	175,579	181,478	186,417	79.3	81.4	6.8	6.2
Male . . . . .	106,365	108,774	110,785	112,610	49.1	49.2	5.4	3.5
Female . . . . .	110,455	112,739	114,639	116,368	50.9	50.8	4.9	3.2
<b>Black, total</b> . . . . .	<b>33,199</b>	<b>35,129</b>	<b>37,003</b>	<b>38,833</b>	<b>100.0</b>	<b>100.0</b>	<b>12.8</b>	<b>10.6</b>
Under 5 years old . . . . .	2,790	2,748	2,764	2,820	7.8	7.3	-2.3	2.6
5-17 years old . . . . .	7,697	7,895	7,889	7,809	22.5	20.1	10.1	-1.1
18-24 years old . . . . .	3,703	3,924	4,198	4,314	11.2	11.1	2.9	9.9
25-34 years old . . . . .	5,534	5,264	5,299	5,590	15.0	14.4	-7.4	6.2
35-44 years old . . . . .	5,041	5,481	5,332	5,076	15.6	13.1	30.2	-7.4
45-54 years old . . . . .	3,261	4,106	4,328	5,369	11.7	13.8	52.9	30.8
55-64 years old . . . . .	2,288	2,578	3,155	3,995	7.3	10.3	19.6	55.0
65-74 years old . . . . .	1,762	1,848	1,994	2,277	5.3	5.9	14.9	23.2
75 years old and over . . . . .	1,122	1,283	1,445	1,584	3.7	4.1	27.7	23.5
16 years old and over . . . . .	23,860	25,708	27,638	29,467	73.2	75.9	15.7	14.6
Male . . . . .	15,840	16,787	17,707	18,602	47.8	47.9	13.2	10.8
Female . . . . .	17,359	18,921	19,931	20,865	52.2	52.1	12.4	10.3
<b>Other races, total</b> . . . . .	<b>10,119</b>	<b>11,624</b>	<b>13,177</b>	<b>14,764</b>	<b>100.0</b>	<b>100.0</b>	<b>34.5</b>	<b>27.0</b>
Under 5 years old . . . . .	758	826	911	995	7.1	6.7	17.8	20.4
5-17 years old . . . . .	2,184	2,350	2,464	2,680	20.2	18.2	22.2	14.1
18-24 years old . . . . .	1,126	1,309	1,532	1,542	11.3	10.4	31.1	17.9
25-34 years old . . . . .	1,748	1,897	2,095	2,396	16.3	16.2	17.1	26.3
35-44 years old . . . . .	1,660	1,856	1,980	2,129	16.0	14.4	34.5	14.7
45-54 years old . . . . .	1,156	1,500	1,780	1,979	12.9	13.4	76.2	32.0
55-64 years old . . . . .	711	912	1,200	1,523	7.8	10.3	59.9	67.1
65-74 years old . . . . .	487	584	708	886	5.0	6.0	51.9	51.8
75 years old and over . . . . .	290	391	506	632	3.4	4.3	79.3	61.8
16 years old and over . . . . .	7,493	8,847	10,186	11,506	76.1	77.9	40.5	30.1
Male . . . . .	4,918	5,629	6,366	7,122	48.4	48.2	33.3	26.5
Female . . . . .	5,202	5,995	6,811	7,642	51.6	51.8	35.6	27.5

Z Less than .05 percent.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-25, No. 1018.

**No. 19. Resident Population—Selected Characteristics: 1790 to 1989**

(In thousands, except as indicated. Excludes Armed Forces abroad. For definition of median, see Guide to Tabular Presentation. See also *Historical Statistics, Colonial Times to 1970*, series A 73-81 and A 143-149)

DATE	SEX		RACE					Hispanic origin <sup>1</sup>	RESIDENCE <sup>2</sup>		Median age (years)
	Male	Female	White	Black	Other				Urban	Rural	
					Total	American Indians and Alaska Natives	Asian and Pacific Islanders				
1790 (Aug.2) <sup>3</sup>	(NA)	(NA)	3,172	757	(NA)	(NA)	(NA)	(NA)	202	3,728	(NA)
1800 (Aug.4) <sup>3</sup>	(NA)	(NA)	4,306	1,002	(NA)	(NA)	(NA)	(NA)	322	4,986	(NA)
1850 (June) <sup>3</sup>	11,838	11,354	19,553	3,639	(NA)	(NA)	(NA)	(NA)	3,544	19,648	18.9
1860 (June) <sup>3</sup>	16,085	15,358	26,923	4,442	79	(NA)	(NA)	(NA)	6,217	25,227	19.4
1870 (June) <sup>3</sup>	19,494	19,065	33,589	4,880	89	(NA)	(NA)	(NA)	9,902	28,656	20.2
1880 (June) <sup>3</sup>	25,519	24,637	43,403	6,581	172	(NA)	(NA)	(NA)	14,130	36,026	20.9
1890 (June) <sup>3</sup>	32,237	30,711	55,101	7,489	358	(NA)	(NA)	(NA)	22,106	40,841	22.0
1900 (June) <sup>3</sup>	38,816	37,178	66,809	8,834	351	(NA)	(NA)	(NA)	30,160	45,835	22.9
1910 (Apr.15) <sup>3</sup>	47,332	44,640	81,732	9,828	413	(NA)	(NA)	(NA)	41,999	49,973	24.1
1920 (Jan.1) <sup>3</sup>	53,900	51,810	94,821	10,463	427	(NA)	(NA)	(NA)	54,158	51,553	25.3
1930 (Apr.1) <sup>3</sup>	62,137	60,638	110,287	11,891	597	(NA)	(NA)	(NA)	68,955	53,820	26.4
1940 (Apr.1) <sup>3</sup>	66,062	65,608	118,215	12,865	589	(NA)	(NA)	(NA)	74,424	57,246	29.0
1950 (Apr.1) <sup>3</sup>	74,833	75,864	134,942	15,042	713	(NA)	(NA)	(NA)	96,468	54,230	30.2
1950 (Apr.1) <sup>3</sup>	75,187	76,139	135,150	15,045	1,131	(NA)	(NA)	(NA)	96,847	54,479	30.2
1960 (Apr.1) <sup>3</sup>	88,331	90,992	158,832	18,872	1,620	(NA)	(NA)	(NA)	125,269	54,054	29.5
1970 (Apr.1) <sup>4</sup>	98,926	104,309	178,098	22,581	2,557	(NA)	(NA)	(NA)	149,325	53,887	28.0
1980 (Apr.1) <sup>5</sup>	110,053	116,493	194,713	26,683	5,150	1,420	3,729	14,609	167,051	59,495	30.0
1984 (July 1) <sup>6</sup>	115,022	121,455	201,290	28,457	6,730	1,559	5,172	17,251	(NA)	(NA)	31.1
1985 (July 1) <sup>6</sup>	116,160	122,576	202,769	28,870	7,097	1,594	5,504	17,865	(NA)	(NA)	31.4
1986 (July 1) <sup>6</sup>	117,370	123,737	204,326	29,303	7,478	1,629	5,849	18,523	(NA)	(NA)	31.7
1987 (July 1) <sup>6</sup>	118,541	124,886	205,833	29,746	7,848	1,665	6,184	19,183	(NA)	(NA)	32.1
1988 (July 1) <sup>6</sup>	119,724	126,060	207,357	30,201	8,227	1,701	6,526	19,847	(NA)	(NA)	32.4
1989 (July 1) <sup>6</sup>	120,982	127,258	208,961	30,660	8,618	1,737	6,881	20,505	(NA)	(NA)	32.7

NA Not available. <sup>1</sup> Persons of Hispanic origin may be of any race. <sup>2</sup> Beginning 1950, current definition. For explanation of change, see text, section 1. <sup>3</sup> Excludes Alaska and Hawaii. <sup>4</sup> The revised 1970 resident population count is 203,302,031; which incorporates changes due to errors found after tabulations were completed. The race and sex data shown here reflect the official 1970 census count while the residence data come from the tabulated count; see text, section 1. <sup>5</sup> The race data shown for April 1, 1980 have been modified; see text, section 1 for explanation. <sup>6</sup> Estimated.

**No. 20. Ratio of Males to Females, by Age Group: 1940 to 1989**

[Represents number of males per 100 females. Total resident population. Persons of Hispanic origin may be of any race]

AGE	1940 (Apr. 1)	1950 (Apr. 1)	1960 (Apr. 1)	1970 (Apr. 1)	1980 (Apr. 1)	1985 (July 1)	1989 (July 1)				
							Total	White	Black	Other races	Hispanic origin
All ages . . . . .	100.7	98.6	97.1	94.8	94.5	94.8	95.1	95.8	90.3	95.7	101.3
Under 14 years . . . . .	103.0	103.7	103.4	103.9	104.6	104.9	104.9	105.3	103.3	102.7	104.0
14 to 24 years . . . . .	98.9	98.2	98.7	98.7	101.9	102.2	102.5	103.1	98.2	107.6	105.7
25 to 44 years . . . . .	98.5	96.4	95.7	95.5	97.4	98.5	99.0	101.0	87.0	94.0	108.8
45 to 64 years . . . . .	105.2	100.1	95.7	91.6	90.7	91.5	92.3	93.8	81.8	85.8	90.3
65 years and over . . . . .	95.5	89.6	82.8	72.1	67.6	67.9	68.9	68.9	67.0	76.7	71.4

Source of tables 19 and 20: U.S. Bureau of the Census, *U.S. Census of Population: 1940*, vol. II, part 1, and vol. IV, part 1; *1950*, vol. II, part 1; *1960*, vol. I, part 1; *1970*, vol. I, part B; and *Current Population Reports*, series P-25, Nos. 1045 and 1057.

**No. 21. Hispanic Population, by Age and Sex: 1980 and 1989**

[1980, as of April; 1989, as of July. Resident population. Hispanic persons may be of any race]

YEAR AND SEX	Total	Under 5 yrs.	5 to 9 yrs.	10 to 14 yrs.	15 to 19 yrs.	20 to 24 yrs.	25 to 29 yrs.	30 to 34 yrs.	35 to 39 yrs.	40 to 44 yrs.	45 to 49 yrs.	50 to 54 yrs.	55 to 59 yrs.	60 to 64 yrs.	65 yrs. and over	Median age (yrs.)
NUMBER (1,000)																
1980, total . . . . .	14,609	1,863	1,537	1,475	1,606	1,586	1,376	1,129	854	712	622	564	454	321	709	23.2
Male . . . . .	7,280	848	783	747	827	819	697	558	416	345	300	270	217	147	305	22.6
Female . . . . .	7,329	815	754	728	780	767	679	570	438	367	321	294	237	174	404	23.8
1989, total . . . . .	20,505	2,222	1,996	1,877	1,773	1,924	2,188	1,959	1,536	1,184	884	726	622	540	1,073	26.1
Male . . . . .	10,317	1,131	1,019	957	905	996	1,159	1,026	779	582	427	346	293	249	447	25.7
Female . . . . .	10,188	1,091	977	920	868	928	1,029	933	757	603	457	380	329	291	626	26.5
PERCENT																
1980, total . . . . .	100.0	11.4	10.5	10.1	11.0	10.9	9.4	7.7	5.8	4.9	4.3	3.9	3.1	2.2	4.9	(X)
Male . . . . .	100.0	11.6	10.8	10.3	11.4	11.3	9.6	7.7	5.7	4.7	4.1	3.7	3.0	2.0	4.2	(X)
Female . . . . .	100.0	11.1	10.3	9.9	10.6	10.5	9.3	7.8	6.0	5.0	4.4	4.0	3.2	2.4	5.5	(X)
1989, total . . . . .	100.0	10.8	9.7	9.2	8.6	9.4	10.7	9.6	7.5	5.8	4.3	3.5	3.0	2.6	5.2	(X)
Male . . . . .	100.0	11.0	9.9	9.3	8.8	9.7	11.2	9.9	7.6	5.6	4.1	3.4	2.8	2.4	4.3	(X)
Female . . . . .	100.0	10.7	9.6	9.0	8.5	9.1	10.1	9.2	7.4	5.9	4.5	3.7	3.2	2.9	6.1	(X)

X Not applicable.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-25, Nos. 1045 and 1057.

## No. 22. Resident Population by Age, Sex, and Race: 1970 to 1989

[In thousands, except as indicated. 1970 and 1980 based on enumerated population as of April 1; other years based on estimated population as of July 1. Excludes Armed Forces overseas. For definition of median, see Guide to Tabular Presentation. See also *Historical Statistics, Colonial Times to 1970*, series A119-134.]

YEAR, SEX, AND RACE	Total, all years	Under 5 years	5 to 9 years	10 to 14 years	15 to 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 39 years	40 to 44 years	45 to 49 years	50 to 54 years	55 to 59 years	60 to 64 years	65 to 69 years	70 years and over	75 years and over	5 to 13 years	14 to 17 years	18 to 24 years	16 years and over	65 years and over	Median age (yr.)
<b>1970, total<sup>1,2</sup></b>	<b>203,235</b>	<b>17,163</b>	<b>19,969</b>	<b>20,804</b>	<b>19,084</b>	<b>16,383</b>	<b>13,486</b>	<b>11,437</b>	<b>11,111</b>	<b>11,111</b>	<b>11,111</b>	<b>9,979</b>	<b>9,979</b>	<b>8,623</b>	<b>12,443</b>	<b>7,500</b>	<b>36,675</b>	<b>15,851</b>	<b>23,714</b>	<b>14,268</b>	<b>67,347</b>	<b>19,972</b>	<b>28.0</b>
Male.....	95,926	8,750	10,175	10,588	9,841	7,925	6,626	5,597	5,416	5,855	5,351	4,769	4,030	4,593	7,782	4,603	18,687	8,069	11,583	67,347	18,387	26.8	
Female.....	104,309	8,413	9,794	10,206	9,443	8,458	6,859	5,838	5,697	6,166	6,269	5,759	5,210	4,030	4,650	2,897	17,988	7,782	12,131	73,920	11,605	29.3	
White.....	178,098	14,664	16,941	17,724	16,412	14,327	11,850	10,000	9,749	10,633	10,968	10,019	9,021	7,818	11,300	6,972	31,171	13,579	20,655	125,520	18,272	28.9	
Black.....	22,591	2,434	2,749	2,812	2,425	1,816	1,429	1,254	1,198	1,199	1,124	990	874	734	1,043	501	5,009	2,073	2,721	14,053	1,544	22.4	
<b>1980, total<sup>1</sup></b>	<b>226,546</b>	<b>16,348</b>	<b>18,700</b>	<b>18,242</b>	<b>17,168</b>	<b>15,531</b>	<b>13,965</b>	<b>11,581</b>	<b>11,581</b>	<b>11,581</b>	<b>11,581</b>	<b>11,581</b>	<b>11,581</b>	<b>10,988</b>	<b>15,988</b>	<b>9,989</b>	<b>31,159</b>	<b>16,247</b>	<b>30,022</b>	<b>171,186</b>	<b>25,549</b>	<b>30.0</b>	
Male.....	110,053	5,962	6,539	6,936	6,316	5,055	4,063	3,457	3,362	3,708	3,988	3,521	3,482	4,670	6,581	3,546	15,923	8,298	13,054	117,186	10,305	28.9	
Female.....	116,493	7,956	8,161	8,926	10,413	10,655	9,816	8,884	7,104	5,961	5,702	6,060	6,139	5,418	8,824	6,420	15,237	7,850	14,968	89,429	15,245	31.3	
White <sup>3</sup> .....	194,713	13,414	13,717	15,095	16,681	19,072	16,658	15,127	12,102	10,110	10,963	10,360	10,344	9,078	14,045	9,117	25,691	13,492	25,381	149,121	23,182	30.9	
Black <sup>3</sup> .....	26,633	2,459	2,509	2,749	3,007	2,749	2,342	1,904	1,469	1,280	1,150	1,135	1,091	874	1,344	748	4,629	2,380	3,948	18,425	2,062	24.9	
Other races <sup>3</sup> .....	5,150	475	474	456	480	496	521	500	375	298	246	215	180	135	191	104	939	376	693	3,650	295	26.8	
<b>1984, total</b>	<b>236,477</b>	<b>17,830</b>	<b>18,464</b>	<b>17,511</b>	<b>18,796</b>	<b>21,328</b>	<b>21,535</b>	<b>19,696</b>	<b>19,932</b>	<b>13,614</b>	<b>11,443</b>	<b>11,032</b>	<b>11,444</b>	<b>10,872</b>	<b>16,740</b>	<b>11,231</b>	<b>30,298</b>	<b>14,704</b>	<b>29,146</b>	<b>180,991</b>	<b>27,971</b>	<b>31.1</b>	
Male.....	120,982	8,598	9,321	9,589	9,991	10,566	10,855	11,078	8,731	8,264	6,951	5,509	5,121	5,079	8,095	4,541	16,302	6,922	13,248	161,663	12,536	31.6	
Female.....	127,226	9,155	8,891	8,266	8,721	9,334	10,634	11,058	9,890	8,580	6,920	5,866	5,605	5,768	10,867	6,261	15,532	6,574	13,100	99,354	18,348	33.8	
White.....	208,961	15,050	14,628	13,574	14,343	15,359	18,367	16,825	14,550	11,672	9,789	9,310	9,569	16,222	11,800	11,531	30,110	14,965	28,500	163,040	28,540	33.6	
Black.....	102,223	7,716	7,504	6,973	7,327	7,731	9,142	9,385	8,342	7,229	5,758	4,791	4,480	4,988	7,250	4,098	13,105	5,541	10,890	78,886	11,347	32.5	
Female.....	106,738	7,335	7,124	6,801	7,015	7,628	8,960	9,192	8,283	7,321	5,915	4,998	5,071	8,972	7,502	7,502	12,429	5,250	10,889	84,404	16,475	34.7	
Black.....	30,660	2,890	2,602	2,679	2,758	2,851	2,827	2,744	2,260	1,726	1,395	1,223	1,116	1,035	1,577	978	4,960	2,145	3,786	21,770	2,555	27.7	
Male.....	14,545	1,469	1,423	1,362	1,394	1,279	1,342	1,289	1,035	782	626	544	508	467	676	349	2,520	1,091	1,847	10,027	1,025	26.3	
Female.....	16,115	1,421	1,378	1,318	1,365	1,372	1,485	1,455	1,225	945	769	679	608	567	901	625	2,440	1,054	1,938	11,743	1,529	28.1	
Other races.....	9,618	813	782	696	711	692	789	824	736	605	454	363	300	264	383	225	1,341	560	980	6,187	607	29.0	
Male.....	4,213	414	394	355	371	357	381	404	354	283	217	174	133	113	169	94	678	290	509	2,979	284	27.8	
Female.....	4,404	389	389	342	341	335	389	420	382	322	217	189	167	150	213	131	663	270	472	3,208	344	30.1	
<b>Percent:</b>																							
1970.....	100.0	8.4	9.8	10.2	9.4	8.1	6.6	5.6	5.5	5.9	6.0	5.5	4.9	4.2	6.1	3.7	18.0	7.8	11.7	98.5	9.8	(X)	
1980.....	100.0	7.2	7.8	8.1	8.1	7.5	6.6	5.6	5.2	5.2	4.9	5.2	5.1	4.5	6.9	4.4	15.3	3.8	13.3	75.6	11.3	(X)	
1989, total.....	100.0	7.2	7.7	7.3	7.2	7.5	6.7	5.9	5.6	5.6	5.4	4.8	4.6	4.4	7.2	3.2	12.5	5.4	10.8	77.0	12.5	(X)	
Male.....	100.0	7.0	7.5	7.7	7.5	7.7	9.0	9.2	8.0	6.9	5.5	4.8	4.2	4.2	6.7	3.8	13.5	5.7	10.9	75.8	10.4	(X)	
Female.....	100.0	7.2	7.0	6.5	6.9	7.3	8.5	8.7	7.8	6.7	5.4	4.6	4.4	4.5	7.9	6.5	12.2	5.2	10.3	78.1	14.4	(X)	
White.....	100.0	7.2	7.0	6.5	6.9	7.4	8.7	8.9	8.0	7.0	5.6	4.7	4.5	4.8	7.8	5.6	12.2	5.2	10.3	78.0	13.3	(X)	
Black.....	100.0	9.4	9.1	8.7	9.0	8.8	9.2	8.9	7.4	5.8	4.5	4.0	3.8	3.4	5.1	2.8	15.6	7.0	12.3	71.0	8.3	(X)	
Other races.....	100.0	9.4	9.1	8.1	8.3	8.0	6.9	6.6	8.5	7.0	5.3	4.2	4.2	3.1	4.4	3.1	16.2	6.5	11.4	71.8	7.0	(X)	

X Not applicable. <sup>1</sup> Includes other races, not shown separately. <sup>2</sup> Official count. The revised 1970 resident population count is 203,902,031; the difference of 66,733 is due to errors found after release of the official series. <sup>3</sup> The race data shown for April 1, 1980 have been modified. See text, section 1 for explanation.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-25, Nos. 917, 1045, and 1057.

**No. 23. U.S. Resident Population, by Region and Division: 1960 to 1990**

[As of April 1; except 1975 and 1985, as of July 1. For composition of divisions, see fig. 1, inside front cover]

REGION AND DIVISION	POPULATION (millions)						PERCENT DISTRIBUTION					
	1960	1970	1975	1980	1985 <sup>1</sup>	1990	1960	1970	1975	1980	1985 <sup>1</sup>	1990
<b>United States</b> . . . . .	<b>179.3</b>	<b>203.3</b>	<b>215.5</b>	<b>226.5</b>	<b>238.7</b>	<b>248.7</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Northeast . . . . .	44.7	49.1	49.4	49.1	49.9	50.8	24.9	24.1	22.9	21.7	20.9	20.4
New England . . . . .	10.5	11.8	12.2	12.3	12.7	13.2	5.9	5.8	5.6	5.5	5.3	5.3
Middle Atlantic . . . . .	34.2	37.2	37.2	36.8	37.2	37.6	19.1	18.3	17.3	16.2	15.6	15.1
Midwest . . . . .	51.6	56.6	57.9	58.9	59.2	59.7	28.8	27.8	26.9	26.0	24.8	24.0
East North Central . . . . .	36.2	40.3	41.1	41.7	41.7	42.0	20.2	19.8	19.1	18.4	17.4	16.9
West North Central . . . . .	15.4	16.3	16.8	17.2	17.5	17.7	8.6	8.0	7.8	7.6	7.3	7.1
South . . . . .	55.0	62.8	69.6	75.4	81.9	85.4	30.7	30.9	32.3	33.3	34.3	34.4
South Atlantic . . . . .	26.0	30.7	34.4	37.0	40.2	43.6	14.5	15.1	15.9	16.3	16.8	17.5
East South Central . . . . .	12.1	12.8	13.8	14.7	15.1	15.2	6.7	6.3	6.4	6.5	6.3	6.1
West South Central . . . . .	17.0	19.3	21.4	23.7	26.5	26.7	9.5	9.5	9.9	10.5	11.1	10.7
West . . . . .	28.1	34.8	38.6	43.2	47.8	52.8	15.6	17.1	17.9	19.1	20.0	21.2
Mountain . . . . .	6.9	8.3	9.8	11.4	12.8	13.7	3.8	4.1	4.6	5.0	5.3	5.5
Pacific . . . . .	21.2	26.5	28.8	31.8	35.0	39.1	11.8	13.1	13.3	14.0	14.7	15.7

**1990 Census Note:** The population counts set forth herein are subject to possible correction for undercount or overcount. The United States Department of Commerce is considering whether to correct these counts and will publish corrected counts, if any, not later than July 15, 1991.

<sup>1</sup> Estimate has not been revised to reflect results of 1990 census.

Source: U.S. Bureau of the Census, *Census of Population: 1970*, vol. 1; *1980 Census of Population*, vol. 1, chapter A (PC80-1-A); *Current Population Reports*, series P-25, Nos. 998 and 1058; and press release, CB91-100.

**No. 24. Annual Immigration, Outmigration, and Net Migration for Regions: 1980 to 1988**

[In thousands. As of March. For persons 1 year old and over. Excludes members of the Armed Forces except those living off post or with their families on post. Based on Current Population Survey; see text, section 1 and Appendix III. For composition of regions, see fig. 1, inside front cover. Minus sign (-) indicates net outmigration]

PERIOD	North-east	Mid-west	South	West	PERIOD	North-east	Mid-west	South	West
<b>1980-1981: Immigrants</b> . . . . .	464	650	1,377	871	<b>1986-1987: Immigrants</b> . . . . .	398	858	1,374	916
Outmigrants . . . . .	706	1,056	890	710	Outmigrants . . . . .	732	969	1,095	750
Net migration . . . . .	-242	-406	487	161	Net migration . . . . .	-334	-111	279	166
<b>1981-1982: Immigrants</b> . . . . .	473	793	1,482	931	<b>1987-1988:</b>				
Outmigrants . . . . .	685	1,163	1,012	819	Total immigrants . . . . .	448	741	1,364	627
Net migration . . . . .	-212	-370	470	112	From Northeast . . . . .	(X)	112	444	122
<b>1982-1983: Immigrants</b> . . . . .	439	661	1,211	880	From Midwest . . . . .	91	(X)	528	528
Outmigrants . . . . .	625	947	973	645	From South . . . . .	250	403	(X)	294
Net migration . . . . .	-186	-286	238	235	From West . . . . .	107	226	393	(X)
<b>1983-1984: Immigrants</b> . . . . .	487	820	1,399	834	Total outmigrants . . . . .	679	829	946	725
Outmigrants . . . . .	578	1,102	973	887	To Northeast . . . . .	(X)	91	250	107
Net migration . . . . .	-91	-282	426	-53	To Midwest . . . . .	112	(X)	403	226
<b>1984-1985: Immigrants</b> . . . . .	482	842	1,329	994	To South . . . . .	444	528	(X)	393
Outmigrants . . . . .	691	1,053	1,169	734	To West . . . . .	122	210	294	(X)
Net migration . . . . .	-209	-211	160	260	Net migration . . . . .	-231	86	418	-98
<b>1985-1986: Immigrants</b> . . . . .	502	1,011	1,355	910					
Outmigrants . . . . .	752	996	1,320	710					
Net migration . . . . .	-250	15	35	200					

X Not applicable.

**No. 25. Mobility Status of the Population, by Selected Characteristics: 1987-1988**

[See headnote, table 24]

AGE AND REGION	Total (1,000)	Non-movers (same house)	PERCENT DISTRIBUTION					
			Movers (different house in U.S.)					
			Total	Same county	Different county			Movers from abroad
					Total	Same State	Different State	
<b>Total</b> . . . . .	<b>237,382</b>	<b>81.9</b>	<b>17.6</b>	<b>11.3</b>	<b>6.4</b>	<b>3.6</b>	<b>2.7</b>	<b>0.5</b>
1-4 years old . . . . .	14,531	73.1	26.3	17.4	9.0	4.7	4.3	0.6
5-9 years old . . . . .	17,880	79.8	19.7	13.4	6.3	3.3	2.9	0.5
10-14 years old . . . . .	16,520	84.2	15.3	10.4	4.9	2.9	2.0	0.5
15-19 years old . . . . .	17,996	82.3	17.2	11.0	6.1	3.5	2.7	0.5
20-24 years old . . . . .	18,839	63.6	35.2	22.3	12.9	7.4	5.5	1.2
25-29 years old . . . . .	21,524	67.4	31.8	20.5	11.3	6.5	4.8	0.8
30-34 years old . . . . .	56,128	81.5	17.9	11.3	6.6	3.8	2.8	0.5
35-39 years old . . . . .	23,795	89.5	10.2	6.3	3.9	2.3	1.6	0.3
40-44 years old . . . . .	21,642	92.8	7.1	3.9	3.1	1.9	1.2	0.1
45-49 years old . . . . .	17,472	95.0	4.9	2.7	2.2	1.2	1.0	0.1
50-54 years old . . . . .	11,055	95.3	4.7	2.9	1.7	1.3	0.4	0.1
55-59 years old . . . . .	49,026	88.1	11.4	7.3	4.1	2.4	1.7	0.5
60-64 years old . . . . .	58,222	83.1	16.6	11.0	5.7	3.5	2.2	0.3
65-74 years old . . . . .	81,255	79.6	19.9	11.9	8.0	4.4	3.6	0.5
75 years old and over . . . . .	48,880	77.9	21.3	14.5	6.8	3.8	2.9	0.8
Northeast . . . . .								
Midwest . . . . .								
South . . . . .								
West . . . . .								

Source of tables 24 and 25: U.S. Bureau of the Census, *Current Population Reports*, series P-20, forthcoming report.

## No. 26. Resident Population—

[As of Apr. 1; except 1983-89, as of July 1. Insofar as possible, population shown for all years is that of present  
See *Historical Statistics, Colonial Times to 1970*, series A 172, for population by regions,

REGION, DIVISION, AND STATE OR OTHER AREA	POPULATION (1,000)										
	1960	1970	1980	1983 <sup>1</sup>	1984 <sup>1</sup>	1985 <sup>1</sup>	1986 <sup>1</sup>	1987 <sup>1</sup>	1988 <sup>1</sup>	1989 <sup>1</sup>	1990
<b>U.S.</b> .....	<b>179,323</b>	<b>203,302</b>	<b>226,546</b>	<b>234,284</b>	<b>236,477</b>	<b>238,736</b>	<b>241,107</b>	<b>243,427</b>	<b>245,785</b>	<b>248,239</b>	<b>248,710</b>
<b>Northeast</b> .....	<b>44,678</b>	<b>49,061</b>	<b>49,135</b>	<b>49,531</b>	<b>49,717</b>	<b>49,865</b>	<b>50,071</b>	<b>50,302</b>	<b>50,590</b>	<b>50,772</b>	<b>50,809</b>
<b>N.E.</b> .....	<b>10,509</b>	<b>11,848</b>	<b>12,348</b>	<b>12,496</b>	<b>12,580</b>	<b>12,664</b>	<b>12,742</b>	<b>12,845</b>	<b>12,965</b>	<b>13,047</b>	<b>13,207</b>
ME .....	969	994	1,125	1,145	1,157	1,164	1,172	1,186	1,206	1,222	1,228
NH .....	607	738	921	959	978	998	1,027	1,057	1,085	1,107	1,109
VT .....	390	445	511	526	531	535	540	547	558	567	563
MA .....	5,149	5,689	5,737	5,764	5,795	5,824	5,835	5,856	5,890	5,913	6,016
RI .....	859	950	947	955	960	967	975	986	993	998	1,003
CT .....	2,535	3,032	3,108	3,147	3,160	3,176	3,194	3,212	3,232	3,239	3,287
<b>M.A.</b> .....	<b>34,168</b>	<b>37,213</b>	<b>36,787</b>	<b>37,035</b>	<b>37,137</b>	<b>37,202</b>	<b>37,329</b>	<b>37,456</b>	<b>37,625</b>	<b>37,726</b>	<b>37,602</b>
NY .....	16,782	18,241	17,558	17,671	17,727	17,768	17,807	17,838	17,909	17,950	17,990
NJ .....	6,067	7,171	7,365	7,469	7,517	7,568	7,626	7,675	7,718	7,736	7,730
PA .....	11,319	11,801	11,864	11,896	11,892	11,866	11,897	11,943	11,998	12,040	11,882
<b>Midwest</b> .....	<b>51,619</b>	<b>56,589</b>	<b>58,866</b>	<b>58,920</b>	<b>59,083</b>	<b>59,199</b>	<b>59,304</b>	<b>59,548</b>	<b>59,867</b>	<b>60,148</b>	<b>59,669</b>
<b>E.N.C.</b> .....	<b>36,225</b>	<b>40,262</b>	<b>41,682</b>	<b>41,509</b>	<b>41,587</b>	<b>41,656</b>	<b>41,742</b>	<b>41,923</b>	<b>42,108</b>	<b>42,298</b>	<b>42,009</b>
OH .....	9,706	10,657	10,798	10,761	10,770	10,775	10,779	10,817	10,865	10,907	10,847
IN .....	4,662	5,195	5,490	5,475	5,492	5,500	5,504	5,531	5,559	5,593	5,544
IL .....	10,081	11,110	11,427	11,494	11,525	11,539	11,554	11,585	11,613	11,658	11,431
MI .....	7,823	8,882	9,262	9,055	9,060	9,089	9,143	9,206	9,240	9,273	9,295
WI .....	3,952	4,418	4,706	4,724	4,740	4,753	4,762	4,785	4,832	4,867	4,892
<b>W.N.C.</b> .....	<b>15,394</b>	<b>16,327</b>	<b>17,183</b>	<b>17,411</b>	<b>17,497</b>	<b>17,543</b>	<b>17,562</b>	<b>17,624</b>	<b>17,759</b>	<b>17,851</b>	<b>17,660</b>
MN .....	3,414	3,806	4,076	4,145	4,163	4,191	4,214	4,245	4,308	4,353	4,375
IA .....	2,758	2,825	2,914	2,896	2,892	2,870	2,840	2,822	2,830	2,840	2,777
MO .....	4,320	4,678	4,917	4,965	5,004	5,036	5,066	5,107	5,140	5,159	5,117
ND .....	632	618	653	681	687	685	679	672	667	660	639
SD .....	681	666	691	699	705	708	708	710	714	715	696
NE .....	1,411	1,485	1,570	1,597	1,605	1,605	1,598	1,594	1,603	1,611	1,578
KS .....	2,179	2,249	2,364	2,428	2,441	2,448	2,458	2,475	2,496	2,513	2,478
<b>South</b> .....	<b>54,973</b>	<b>62,812</b>	<b>75,372</b>	<b>79,735</b>	<b>80,787</b>	<b>81,883</b>	<b>82,992</b>	<b>83,879</b>	<b>84,638</b>	<b>85,523</b>	<b>85,446</b>
<b>S.A.</b> .....	<b>25,972</b>	<b>30,678</b>	<b>36,959</b>	<b>38,884</b>	<b>39,541</b>	<b>40,220</b>	<b>40,940</b>	<b>41,708</b>	<b>42,420</b>	<b>43,115</b>	<b>43,567</b>
DE .....	446	548	594	610	618	626	637	648	660	673	666
MD .....	3,101	3,924	4,217	4,301	4,349	4,393	4,463	4,537	4,626	4,694	4,781
DC .....	764	757	638	625	624	624	625	622	613	604	607
VA .....	3,967	4,621	5,347	5,558	5,635	5,704	5,798	5,916	6,018	6,098	6,187
WV .....	1,860	1,744	1,950	1,963	1,952	1,936	1,917	1,898	1,876	1,857	1,793
NC .....	4,556	5,084	5,882	6,079	6,168	6,258	6,328	6,410	6,489	6,571	6,629
SC .....	2,383	2,591	3,122	3,253	3,297	3,335	3,381	3,426	3,465	3,512	3,487
GA .....	3,943	4,588	5,463	5,736	5,845	5,976	6,102	6,228	6,339	6,436	6,478
FL .....	4,952	6,791	9,746	10,759	11,053	11,368	11,689	12,023	12,338	12,671	12,938
<b>E.S.C.</b> .....	<b>12,050</b>	<b>12,808</b>	<b>14,666</b>	<b>14,950</b>	<b>15,038</b>	<b>15,126</b>	<b>15,199</b>	<b>15,288</b>	<b>15,347</b>	<b>15,406</b>	<b>15,176</b>
KY .....	3,038	3,221	3,661	3,713	3,720	3,724	3,723	3,723	3,726	3,727	3,685
TN .....	3,567	3,926	4,591	4,691	4,728	4,767	4,801	4,856	4,898	4,940	4,877
AL .....	3,267	3,444	3,894	3,963	3,991	4,022	4,051	4,084	4,103	4,118	4,041
MS .....	2,178	2,217	2,521	2,583	2,599	2,614	2,624	2,624	2,620	2,621	2,573
<b>W.S.C.</b> .....	<b>16,951</b>	<b>19,326</b>	<b>23,747</b>	<b>25,900</b>	<b>26,208</b>	<b>26,537</b>	<b>26,853</b>	<b>26,884</b>	<b>26,871</b>	<b>27,002</b>	<b>26,703</b>
AR .....	1,786	1,923	2,286	2,326	2,346	2,360	2,371	2,388	2,396	2,406	2,351
LA .....	3,257	3,645	4,206	4,442	4,462	4,484	4,498	4,448	4,407	4,382	4,220
OK .....	3,328	2,559	3,025	3,317	3,321	3,315	3,304	3,269	3,234	3,224	3,146
TX .....	9,580	11,199	14,229	15,816	16,079	16,378	16,680	16,778	16,834	16,991	16,987
<b>West</b> .....	<b>28,053</b>	<b>34,838</b>	<b>43,172</b>	<b>46,098</b>	<b>46,890</b>	<b>47,788</b>	<b>48,740</b>	<b>49,699</b>	<b>50,690</b>	<b>51,796</b>	<b>52,786</b>
<b>MT</b> .....	<b>6,855</b>	<b>8,289</b>	<b>11,373</b>	<b>12,324</b>	<b>12,543</b>	<b>12,767</b>	<b>12,982</b>	<b>13,171</b>	<b>13,326</b>	<b>13,513</b>	<b>13,659</b>
MT .....	675	694	787	816	823	825	817	809	805	806	799
ID .....	667	713	944	988	1,000	1,005	1,003	1,000	1,003	1,014	1,007
WY .....	330	332	470	516	513	509	507	490	480	475	454
CO .....	1,754	2,210	2,890	3,148	3,189	3,232	3,265	3,294	3,300	3,317	3,294
NM .....	951	1,017	1,303	1,402	1,426	1,450	1,477	1,496	1,510	1,528	1,515
UT .....	1,302	1,775	2,718	2,963	3,053	3,161	3,281	3,397	3,483	3,556	3,665
AZ .....	891	1,059	1,461	1,596	1,623	1,644	1,664	1,680	1,691	1,707	1,723
NV .....	285	489	800	895	916	939	966	1,006	1,054	1,111	1,202
<b>Pac</b> .....	<b>21,198</b>	<b>26,549</b>	<b>31,800</b>	<b>33,774</b>	<b>34,347</b>	<b>35,021</b>	<b>35,758</b>	<b>36,527</b>	<b>37,364</b>	<b>38,283</b>	<b>39,127</b>
WA .....	2,853	3,413	4,132	4,304	4,349	4,407	4,461	4,542	4,652	4,761	4,867
OR .....	1,769	2,092	2,633	2,663	2,679	2,689	2,703	2,723	2,768	2,820	2,842
CA .....	15,717	19,971	23,668	25,307	25,777	26,355	26,999	27,655	28,323	29,063	29,760
AK .....	226	303	402	482	505	522	531	525	525	527	550
HI .....	633	770	965	1,019	1,036	1,050	1,064	1,082	1,096	1,112	1,108
<b>PR</b> .....	<b>2,350</b>	<b>2,712</b>	<b>3,197</b>	<b>3,265</b>	<b>3,269</b>	<b>3,282</b>	<b>3,273</b>	<b>3,292</b>	<b>3,291</b>	<b>(NA)</b>	<b>3,522</b>

**1990 Census Note:** The population counts set forth herein are subject to possible correction for undercount or overcount. The United States Department of Commerce is considering whether to correct these counts and will publish corrected counts, if any, not later than July 15, 1991.

NA Not available. X Not applicable. <sup>1</sup> Estimates have not been revised to reflect results of 1990 census. <sup>2</sup> Persons per square mile were calculated on the basis of land area data from the 1990 census.



## States and Puerto Rico: 1960 to 1990

area of State; for area figures of States, see table 347. Minus sign (-) indicates decrease.  
and A 195-198 for population and density, by States]

RANK				PERCENT CHANGE			POPULATION PER SQ. MILE OF LAND AREA <sup>2</sup>				REGION, DIVISION, AND STATE OR OTHER AREA
1960	1970	1980	1990	1960-1970	1970-1980	1980-1990	1960	1970	1980	1990	
(X)	(X)	(X)	(X)	13.4	11.4	9.8	50.7	57.5	64.1	70.3	U.S.
(X)	(X)	(X)	(X)	9.8	0.2	3.4	275.3	302.3	302.8	313.1	Northeast
(X)	(X)	(X)	(X)	12.7	4.2	7.0	167.3	168.6	195.6	210.3	N.E.
36	38	38	38	2.5	13.2	9.2	31.4	32.2	36.4	39.8	ME
45	41	42	40	21.5	24.8	20.5	67.7	82.2	102.6	123.7	NH
47	48	48	48	14.1	15.0	10.0	42.2	48.1	55.3	60.8	VT
9	10	11	13	10.5	0.8	4.9	656.9	725.8	732.0	787.6	MA
39	39	40	43	10.5	-0.3	5.9	822.5	908.8	906.4	960.3	RI
25	24	25	27	19.6	2.5	5.8	523.2	625.8	641.3	678.4	CT
(X)	(X)	(X)	(X)	8.9	-1.1	2.2	343.5	374.1	369.9	378.1	M.A.
1	2	2	2	8.7	-3.7	2.5	355.4	386.3	371.8	381.0	NY
8	8	9	9	18.2	2.7	5.0	817.8	966.6	992.7	1,042.0	NJ
3	3	4	5	4.3	0.5	0.1	252.6	263.3	264.7	265.1	PA
(X)	(X)	(X)	(X)	9.6	4.0	1.4	68.7	75.3	78.3	79.4	Midwest
(X)	(X)	(X)	(X)	11.1	3.5	0.8	148.7	165.3	171.2	172.5	E.N.C.
5	6	6	7	9.8	1.3	0.5	237.0	260.2	263.7	264.9	OH
11	11	12	14	11.4	5.7	1.0	130.0	144.8	153.1	154.6	IN
4	5	5	6	10.2	2.8	(Z)	181.3	199.8	205.5	205.6	IL
7	7	8	8	13.5	4.3	0.4	137.7	156.3	163.0	163.6	MI
15	16	16	16	11.8	6.5	4.0	72.8	81.3	86.6	90.1	WI
(X)	(X)	(X)	(X)	6.1	5.2	2.8	30.3	32.1	33.8	34.8	W.N.C.
18	19	21	20	11.5	7.1	7.3	42.9	47.8	51.2	55.0	MN
24	25	27	30	2.5	3.1	-4.7	49.4	50.6	52.1	49.7	IA
13	13	15	15	8.3	5.1	4.1	62.7	67.9	71.4	74.3	MO
44	45	46	47	-2.3	5.7	-2.1	9.2	9.0	9.5	9.3	ND
40	44	45	45	-2.1	3.7	0.8	9.0	8.8	9.1	9.2	SD
34	35	35	36	5.2	5.7	0.5	18.4	19.3	20.4	20.5	NE
28	28	32	32	3.2	5.1	4.8	26.6	27.5	28.9	30.3	KS
(X)	(X)	(X)	(X)	14.3	20.0	13.4	63.1	72.1	86.5	98.1	South
(X)	(X)	(X)	(X)	18.1	20.5	17.9	97.6	115.2	138.8	163.6	S.A.
46	46	47	46	22.8	8.4	12.1	228.3	280.4	304.1	340.8	DE
21	18	18	19	26.5	7.5	13.4	317.2	401.4	431.4	489.2	MD
(X)	(X)	(X)	(X)	-1.0	-15.6	-4.9	12,440.3	12,321.6	10,394.6	8,882.8	DC
14	14	14	12	17.3	14.9	15.7	100.2	117.5	135.0	156.3	VA
30	34	34	34	-6.2	11.8	-8.0	77.2	72.4	80.9	74.5	WV
12	12	10	10	11.6	15.7	12.7	93.5	104.4	120.7	136.1	NC
26	26	24	25	8.7	20.5	11.7	79.1	86.0	103.7	115.8	SC
16	15	13	11	18.4	19.1	18.6	68.1	79.2	94.3	111.9	GA
10	9	7	4	37.2	43.5	32.7	91.7	125.8	180.5	239.6	FL
(X)	(X)	(X)	(X)	6.3	14.5	3.5	67.5	71.7	82.1	85.0	E.S.C.
22	23	23	23	6.0	13.7	0.7	76.5	81.1	92.1	92.8	KY
17	17	17	17	10.1	16.9	6.2	86.5	95.2	111.4	118.3	TN
19	21	22	22	5.4	13.1	3.8	64.4	67.9	76.7	79.6	AL
29	29	31	31	1.8	13.7	2.1	46.4	47.3	53.7	54.9	MS
(X)	(X)	(X)	(X)	14.0	22.9	12.4	39.8	45.3	55.7	62.6	W.S.C.
31	32	33	33	7.7	18.9	2.8	34.3	36.9	43.9	45.1	AR
20	20	19	21	11.9	15.4	0.3	74.8	83.7	96.5	96.9	LA
27	27	26	28	9.9	18.2	4.0	33.9	37.3	44.0	45.8	OK
6	4	3	3	16.9	27.1	19.4	36.6	42.8	54.3	64.9	TX
(X)	(X)	(X)	(X)	24.2	23.9	22.3	16.0	19.9	24.6	30.1	West
(X)	(X)	(X)	(X)	20.9	37.2	20.1	8.0	9.7	13.3	16.0	Mt
41	43	44	44	2.9	13.3	1.6	4.6	4.8	5.4	5.5	MT
42	42	41	42	6.9	32.4	6.7	8.1	8.6	11.4	12.2	ID
48	49	49	50	0.7	41.3	-3.4	3.4	3.4	4.8	4.7	WY
33	30	28	26	26.0	30.8	14.0	16.9	21.3	27.9	31.8	CO
37	37	37	37	6.9	28.1	16.3	7.8	8.4	10.7	12.5	NM
35	33	29	24	36.3	53.1	34.8	11.5	15.6	23.9	32.3	AZ
38	36	36	35	18.9	37.9	17.9	10.8	12.9	17.8	21.0	UT
49	47	43	39	71.3	63.8	50.1	2.6	4.5	7.3	10.9	NV
(X)	(X)	(X)	(X)	25.2	19.8	23.0	23.7	29.7	35.5	43.7	Pac
23	22	20	18	19.6	21.1	17.8	42.9	51.3	62.1	73.1	WA
32	31	30	29	18.3	25.9	7.9	18.4	21.8	27.4	29.6	OR
2	1	1	1	27.1	18.5	25.7	100.8	128.0	151.7	190.8	CA
50	50	50	49	33.8	32.8	36.9	0.4	0.5	0.7	1.0	AK
43	40	39	41	21.7	25.3	14.9	98.5	119.9	150.2	172.5	HI
(X)	(X)	(X)	(X)	15.4	17.9	10.2	686.4	792.8	924.1	(NA)	PR

**1990 Census Note:** The population counts set forth herein are subject to possible correction for undercount or overcount. The United States Department of Commerce is considering whether to correct these counts and will publish corrected counts, if any, not later than July 15, 1991.

Source: U.S. Bureau of the Census, *Census of Population: 1970*, vol. I; and *1980 Census of Population*, vol. 1, chapter A (PC80-1-A) and chapter B (PC80-1-B); *Current Population Reports*, series P-25, No. 1058; and press release CB91-100.

## No. 27. Resident Population, by Race and Hispanic Origin—States: 1990

[As of April 1]

REGION, DIVISION, AND STATE	NUMBER (1,000)						PERCENT DISTRIBUTION					
	Total <sup>1</sup>	White	Black	Amer- ican Indian, Eskimo, Aleut	Asian, Pacific Islander	His- panic origin <sup>2</sup>	Total <sup>1</sup>	White	Black	Amer- ican Indian, Eskimo, Aleut	Asian, Pacific Islander	His- panic origin <sup>2</sup>
<b>U.S.</b> .....	<b>248,710</b>	<b>199,686</b>	<b>29,986</b>	<b>1,959</b>	<b>7,274</b>	<b>22,354</b>	<b>100.0</b>	<b>80.3</b>	<b>12.1</b>	<b>0.8</b>	<b>2.9</b>	<b>9.0</b>
<b>Northeast</b> .....	<b>50,809</b>	<b>42,069</b>	<b>5,613</b>	<b>125</b>	<b>1,335</b>	<b>3,754</b>	<b>100.0</b>	<b>82.8</b>	<b>11.0</b>	<b>0.2</b>	<b>2.6</b>	<b>7.4</b>
<b>N.E.</b> .....	<b>13,207</b>	<b>12,033</b>	<b>628</b>	<b>33</b>	<b>232</b>	<b>568</b>	<b>100.0</b>	<b>91.1</b>	<b>4.8</b>	<b>0.2</b>	<b>1.8</b>	<b>4.3</b>
ME .....	1,228	1,208	5	6	7	7	100.0	98.4	0.4	0.5	0.5	0.6
NH .....	1,109	1,087	7	2	9	11	100.0	98.0	0.6	0.2	0.8	1.0
VT .....	563	555	2	2	3	4	100.0	98.6	0.3	0.3	0.6	0.7
MA .....	6,016	5,405	300	12	143	288	100.0	89.8	5.0	0.2	2.4	4.8
RI .....	1,003	917	39	4	18	46	100.0	91.4	3.9	0.4	1.8	4.6
CT .....	3,287	2,859	274	7	51	213	100.0	87.0	8.3	0.2	1.5	6.5
<b>M.A.</b> .....	<b>37,602</b>	<b>30,036</b>	<b>4,986</b>	<b>92</b>	<b>1,104</b>	<b>3,186</b>	<b>100.0</b>	<b>79.9</b>	<b>13.3</b>	<b>0.2</b>	<b>2.9</b>	<b>8.5</b>
NY .....	17,990	13,385	2,859	63	694	2,214	100.0	74.4	15.9	0.3	3.9	12.3
NJ .....	7,730	6,130	1,037	15	273	740	100.0	79.3	13.4	0.2	3.5	9.6
PA .....	11,882	10,520	1,090	15	137	232	100.0	88.5	9.2	0.1	1.2	2.0
<b>Midwest</b> .....	<b>59,669</b>	<b>52,018</b>	<b>5,716</b>	<b>338</b>	<b>768</b>	<b>1,727</b>	<b>100.0</b>	<b>87.2</b>	<b>9.6</b>	<b>0.6</b>	<b>1.3</b>	<b>2.9</b>
<b>E.N.C.</b> .....	<b>42,009</b>	<b>35,764</b>	<b>4,817</b>	<b>150</b>	<b>571</b>	<b>1,438</b>	<b>100.0</b>	<b>85.1</b>	<b>11.5</b>	<b>0.4</b>	<b>1.4</b>	<b>3.4</b>
OH .....	10,847	9,522	1,155	20	91	140	100.0	87.8	10.6	0.2	0.8	1.3
IN .....	5,544	5,021	432	13	38	99	100.0	90.6	7.8	0.2	0.7	1.8
IL .....	11,431	8,953	1,694	22	285	904	100.0	78.3	14.8	0.2	2.5	7.9
MI .....	9,295	7,756	1,292	56	105	202	100.0	83.4	13.9	0.6	1.1	2.2
WI .....	4,892	4,513	245	39	54	93	100.0	92.2	5.0	0.8	1.1	1.9
<b>W.N.C.</b> .....	<b>17,660</b>	<b>16,254</b>	<b>899</b>	<b>188</b>	<b>195</b>	<b>289</b>	<b>100.0</b>	<b>92.0</b>	<b>5.1</b>	<b>1.1</b>	<b>1.1</b>	<b>1.6</b>
MN .....	4,375	4,130	95	50	78	54	100.0	94.4	2.2	1.1	1.8	1.2
IA .....	2,777	2,683	48	7	25	33	100.0	96.6	1.7	0.3	0.9	1.2
MO .....	5,117	4,486	548	20	41	62	100.0	87.7	10.7	0.4	0.8	1.2
ND .....	639	604	4	26	3	5	100.0	94.6	0.6	4.1	0.5	0.7
SD .....	696	638	3	51	3	5	100.0	91.6	0.5	7.3	0.4	0.8
NE .....	1,578	1,481	57	12	12	37	100.0	93.8	3.6	0.8	0.8	2.3
KS .....	2,478	2,232	143	22	32	94	100.0	90.1	5.8	0.9	1.3	3.8
<b>South</b> .....	<b>85,446</b>	<b>65,582</b>	<b>15,829</b>	<b>563</b>	<b>1,122</b>	<b>6,767</b>	<b>100.0</b>	<b>76.8</b>	<b>18.5</b>	<b>0.7</b>	<b>1.3</b>	<b>7.9</b>
<b>S.A.</b> .....	<b>43,567</b>	<b>33,391</b>	<b>8,924</b>	<b>172</b>	<b>631</b>	<b>2,133</b>	<b>100.0</b>	<b>76.6</b>	<b>20.5</b>	<b>0.4</b>	<b>1.4</b>	<b>4.9</b>
DE .....	666	535	112	2	9	16	100.0	80.3	16.9	0.3	1.4	2.4
MD .....	4,781	3,394	1,190	13	140	125	100.0	71.0	24.9	0.3	2.9	2.6
DC .....	607	180	400	1	11	33	100.0	29.6	65.8	0.2	1.8	5.4
VA .....	6,187	4,792	1,163	15	159	160	100.0	77.4	18.8	0.2	2.6	2.6
WV .....	1,793	1,726	56	2	7	8	100.0	96.2	3.1	0.1	0.4	0.5
NC .....	6,629	5,008	1,456	80	52	77	100.0	75.6	22.0	1.2	0.8	1.2
SC .....	3,487	2,407	1,040	8	22	31	100.0	69.0	29.8	0.2	0.6	0.9
GA .....	6,478	4,600	1,747	13	76	109	100.0	71.0	27.0	0.2	1.2	1.7
FL .....	12,938	10,749	1,760	36	154	1,574	100.0	83.1	13.6	0.3	1.2	12.2
<b>E.S.C.</b> .....	<b>15,176</b>	<b>12,049</b>	<b>2,977</b>	<b>41</b>	<b>84</b>	<b>95</b>	<b>100.0</b>	<b>79.4</b>	<b>19.6</b>	<b>0.3</b>	<b>0.6</b>	<b>0.6</b>
KY .....	3,685	3,392	263	6	18	22	100.0	92.0	7.1	0.2	0.5	0.6
TN .....	4,877	4,048	778	10	32	33	100.0	83.0	16.0	0.2	0.7	0.7
AL .....	4,041	2,976	1,021	17	22	25	100.0	73.6	25.3	0.4	0.5	0.6
MS .....	2,573	1,633	915	9	13	16	100.0	63.5	35.6	0.3	0.5	0.6
<b>W.S.C.</b> .....	<b>26,703</b>	<b>20,142</b>	<b>3,929</b>	<b>350</b>	<b>407</b>	<b>4,539</b>	<b>100.0</b>	<b>75.4</b>	<b>14.7</b>	<b>1.3</b>	<b>1.5</b>	<b>17.0</b>
AR .....	2,351	1,945	374	13	13	20	100.0	82.7	15.9	0.5	0.5	0.8
LA .....	4,220	2,839	1,299	19	41	93	100.0	67.3	30.8	0.4	1.0	2.2
OK .....	3,146	2,584	234	252	34	86	100.0	82.1	7.4	8.0	1.1	2.7
TX .....	16,987	12,775	2,022	66	319	4,340	100.0	75.2	11.9	0.4	1.9	25.5
<b>West</b> .....	<b>52,786</b>	<b>40,017</b>	<b>2,828</b>	<b>933</b>	<b>4,048</b>	<b>10,106</b>	<b>100.0</b>	<b>75.8</b>	<b>5.4</b>	<b>1.8</b>	<b>7.7</b>	<b>19.1</b>
<b>Mt.</b> .....	<b>13,659</b>	<b>11,762</b>	<b>374</b>	<b>481</b>	<b>217</b>	<b>1,992</b>	<b>100.0</b>	<b>86.1</b>	<b>2.7</b>	<b>3.5</b>	<b>1.6</b>	<b>14.6</b>
MT .....	799	741	2	48	4	12	100.0	92.7	0.3	6.0	0.5	1.5
ID .....	1,007	950	3	14	9	53	100.0	94.4	0.3	1.4	0.9	5.3
WY .....	454	427	4	9	3	26	100.0	94.2	0.8	2.1	0.6	5.7
CO .....	3,294	2,905	133	28	60	424	100.0	88.2	4.0	0.8	1.8	12.9
NM .....	1,515	1,146	30	134	14	579	100.0	75.6	2.0	8.9	0.9	38.2
AZ .....	3,665	2,963	111	204	55	688	100.0	80.8	3.0	5.6	1.5	18.8
UT .....	1,723	1,616	12	24	33	85	100.0	93.8	0.7	1.4	1.9	4.9
NV .....	1,202	1,013	79	20	38	124	100.0	84.3	6.6	1.6	3.2	10.4
<b>Pac.</b> .....	<b>39,127</b>	<b>28,255</b>	<b>2,454</b>	<b>453</b>	<b>3,831</b>	<b>8,114</b>	<b>100.0</b>	<b>72.2</b>	<b>6.3</b>	<b>1.2</b>	<b>9.8</b>	<b>20.7</b>
WA .....	4,867	4,309	150	81	211	215	100.0	88.5	3.1	1.7	4.3	4.4
OR .....	2,842	2,637	46	38	69	113	100.0	92.8	1.6	1.4	2.4	4.0
CA .....	29,760	20,524	2,209	242	2,846	7,688	100.0	69.0	7.4	0.8	9.6	25.8
AK .....	550	415	22	86	20	18	100.0	75.5	4.1	15.6	3.6	3.2
HI .....	1,108	370	27	5	685	81	100.0	33.4	2.5	0.5	61.8	7.3

**1990 Census Note:** The population counts set forth herein are subject to possible correction for undercount or overcount. The United States Department of Commerce is considering whether to correct these counts and will publish corrected counts, if any, not later than July 15, 1991.

<sup>1</sup> Includes other races, not shown separately. <sup>2</sup> Persons of Hispanic origin may be of any race.

Source: U.S. Bureau of the Census, press release CB91-100.

## No. 28. Resident Population, by Age and State: 1989

[In thousands, except percent. As of July 1. Includes Armed Forces stationed in area. See text, section 1 for basis of estimates. For explanation of methodology, contact source. See *Historical Statistics, Colonial Times to 1970*, series A 204-209 for decennial census data]

REGION, DIVISION, AND STATE	Total	Under 5 years	5 to 17 years	18 to 24 years	25 to 34 years	35 to 44 years	45 to 54 years	55 to 64 years	65 to 74 years	75 to 84 years	85 years and over	16 years and over	Per- cent 65 years and over
<b>U.S. . . . .</b>	<b>248,239</b>	<b>18,752</b>	<b>45,330</b>	<b>26,346</b>	<b>43,835</b>	<b>36,503</b>	<b>24,897</b>	<b>21,593</b>	<b>18,182</b>	<b>9,761</b>	<b>3,042</b>	<b>191,047</b>	<b>12.5</b>
<b>Northeast . . . . .</b>	<b>50,772</b>	<b>3,573</b>	<b>8,505</b>	<b>5,339</b>	<b>8,657</b>	<b>7,436</b>	<b>5,382</b>	<b>4,939</b>	<b>4,047</b>	<b>2,195</b>	<b>699</b>	<b>40,043</b>	<b>13.7</b>
<b>N.E. . . . .</b>	<b>13,047</b>	<b>919</b>	<b>2,136</b>	<b>1,419</b>	<b>2,321</b>	<b>1,956</b>	<b>1,337</b>	<b>1,200</b>	<b>1,009</b>	<b>561</b>	<b>189</b>	<b>10,335</b>	<b>13.5</b>
ME . . . . .	1,222	85	220	132	209	182	121	109	93	53	18	953	13.4
NH . . . . .	1,107	84	195	123	202	173	111	91	73	40	13	858	11.4
VT . . . . .	567	40	101	66	105	88	55	45	38	22	8	441	11.9
MA . . . . .	5,913	413	924	656	1,084	881	596	546	464	260	90	4,726	13.8
RI . . . . .	998	69	162	109	176	142	97	94	85	48	15	793	14.8
CT . . . . .	3,239	227	532	332	546	490	357	314	257	139	45	2,564	13.6
<b>M.A. . . . .</b>	<b>37,726</b>	<b>2,654</b>	<b>6,369</b>	<b>3,920</b>	<b>6,336</b>	<b>5,480</b>	<b>4,046</b>	<b>3,739</b>	<b>3,039</b>	<b>1,634</b>	<b>509</b>	<b>29,709</b>	<b>13.7</b>
NY . . . . .	17,950	1,306	3,044	1,894	3,032	2,625	1,956	1,753	1,349	747	245	14,071	13.0
NJ . . . . .	7,736	547	1,286	792	1,291	1,155	863	781	610	317	95	6,112	13.2
PA . . . . .	12,040	801	2,039	1,234	2,014	1,699	1,227	1,206	1,080	571	169	9,525	15.1
<b>Midwest. . . . .</b>	<b>60,148</b>	<b>4,382</b>	<b>11,175</b>	<b>6,368</b>	<b>10,574</b>	<b>8,643</b>	<b>6,011</b>	<b>5,256</b>	<b>4,436</b>	<b>2,474</b>	<b>830</b>	<b>46,301</b>	<b>12.9</b>
<b>E.N.C. . . . .</b>	<b>42,298</b>	<b>3,079</b>	<b>7,877</b>	<b>4,527</b>	<b>7,438</b>	<b>6,099</b>	<b>4,273</b>	<b>3,723</b>	<b>3,096</b>	<b>1,653</b>	<b>533</b>	<b>32,565</b>	<b>12.5</b>
OH . . . . .	10,907	782	2,036	1,150	1,869	1,557	1,115	1,000	833	430	136	8,407	12.8
IN . . . . .	5,593	395	1,065	611	981	800	564	484	405	217	71	4,301	12.4
IL . . . . .	11,658	864	2,116	1,229	2,087	1,696	1,199	1,029	836	455	147	9,003	12.3
MI . . . . .	9,273	684	1,761	1,021	1,641	1,349	923	795	658	336	105	7,108	11.9
WI . . . . .	4,867	356	899	516	861	698	471	414	364	214	73	3,745	13.4
<b>W.N.C. . . . .</b>	<b>17,851</b>	<b>1,302</b>	<b>3,298</b>	<b>1,841</b>	<b>3,135</b>	<b>2,544</b>	<b>1,738</b>	<b>1,534</b>	<b>1,340</b>	<b>822</b>	<b>297</b>	<b>13,736</b>	<b>13.8</b>
MN . . . . .	4,353	328	801	451	794	649	427	353	301	181	68	3,339	12.6
IA . . . . .	2,840	189	519	293	494	398	272	245	231	143	55	2,209	15.1
MO . . . . .	5,159	370	936	528	886	725	527	468	399	240	79	3,998	13.9
ND . . . . .	660	50	129	70	120	92	57	51	49	32	11	499	13.9
SD . . . . .	715	56	140	73	121	96	65	62	56	34	13	539	14.4
NE . . . . .	1,611	119	305	167	280	226	151	138	119	77	29	1,232	13.9
KS . . . . .	2,513	191	468	258	442	357	238	216	186	115	42	1,920	13.7
<b>South . . . . .</b>	<b>85,523</b>	<b>6,472</b>	<b>16,033</b>	<b>9,233</b>	<b>14,934</b>	<b>12,362</b>	<b>8,499</b>	<b>7,349</b>	<b>6,302</b>	<b>3,353</b>	<b>985</b>	<b>65,499</b>	<b>12.4</b>
<b>S.A. . . . .</b>	<b>43,115</b>	<b>3,135</b>	<b>7,544</b>	<b>4,616</b>	<b>7,401</b>	<b>6,281</b>	<b>4,440</b>	<b>3,987</b>	<b>3,427</b>	<b>1,777</b>	<b>507</b>	<b>33,636</b>	<b>13.2</b>
DE . . . . .	673	49	119	74	124	93	69	64	49	23	7	522	11.8
MD . . . . .	4,694	358	803	513	846	735	514	417	314	149	46	3,658	10.8
DC . . . . .	604	48	91	62	118	94	62	54	45	23	8	478	12.5
VA . . . . .	6,098	443	1,039	701	1,121	962	655	519	402	195	60	4,782	10.8
WV . . . . .	1,857	110	353	198	305	273	182	164	159	87	26	1,452	14.6
NC . . . . .	6,571	463	1,179	743	1,159	961	678	589	487	242	70	5,122	12.1
SC . . . . .	3,512	265	690	404	630	507	340	286	246	114	31	2,667	11.1
GA . . . . .	6,436	511	1,286	729	1,132	960	655	511	393	202	58	4,842	10.1
FL . . . . .	12,671	887	1,985	1,190	1,965	1,696	1,285	1,385	1,332	742	202	10,113	18.0
<b>E.S.C. . . . .</b>	<b>15,406</b>	<b>1,090</b>	<b>3,009</b>	<b>1,692</b>	<b>2,646</b>	<b>2,179</b>	<b>1,538</b>	<b>1,306</b>	<b>1,133</b>	<b>625</b>	<b>187</b>	<b>11,785</b>	<b>12.6</b>
KY . . . . .	3,727	250	716	415	651	538	371	314	274	151	47	2,874	12.7
TN . . . . .	4,940	340	915	531	854	728	516	432	366	200	59	3,832	12.6
AL . . . . .	4,118	297	811	449	707	574	406	352	307	168	48	3,140	12.7
MS . . . . .	2,621	203	566	298	434	340	245	209	187	107	33	1,939	12.4
<b>W.S.C. . . . .</b>	<b>27,002</b>	<b>2,247</b>	<b>5,480</b>	<b>2,924</b>	<b>4,888</b>	<b>3,902</b>	<b>2,521</b>	<b>2,056</b>	<b>1,742</b>	<b>952</b>	<b>291</b>	<b>20,078</b>	<b>11.1</b>
AR . . . . .	2,406	174	476	251	376	324	239	211	203	118	35	1,831	14.8
LA . . . . .	4,382	362	911	488	802	610	396	327	293	149	46	3,239	11.1
OK . . . . .	3,224	234	619	341	565	466	311	260	240	143	45	2,464	13.3
TX . . . . .	16,991	1,478	3,474	1,845	3,145	2,502	1,575	1,258	1,007	541	165	12,545	10.1
<b>West . . . . .</b>	<b>51,796</b>	<b>4,325</b>	<b>9,618</b>	<b>5,406</b>	<b>9,669</b>	<b>8,061</b>	<b>5,004</b>	<b>4,049</b>	<b>3,397</b>	<b>1,738</b>	<b>528</b>	<b>39,204</b>	<b>10.9</b>
<b>Mt. . . . .</b>	<b>13,513</b>	<b>1,142</b>	<b>2,723</b>	<b>1,434</b>	<b>2,467</b>	<b>2,023</b>	<b>1,233</b>	<b>1,002</b>	<b>905</b>	<b>457</b>	<b>129</b>	<b>10,028</b>	<b>11.0</b>
MT . . . . .	806	59	158	79	140	123	77	63	62	34	11	610	13.2
ID . . . . .	1,014	79	225	105	168	157	92	67	71	39	11	742	11.9
WY . . . . .	475	36	100	51	103	79	37	23	27	14	5	352	9.8
CO . . . . .	3,317	262	602	354	657	564	316	237	193	99	32	2,540	9.8
NM . . . . .	1,528	134	320	161	264	225	144	121	97	49	14	1,120	10.5
AZ . . . . .	3,556	311	671	373	613	495	324	306	285	143	36	2,672	13.1
UT . . . . .	1,707	175	456	201	298	212	125	93	87	46	13	1,131	8.6
NV . . . . .	1,111	86	191	111	224	167	117	92	82	32	7	860	10.9
<b>Pac. . . . .</b>	<b>38,283</b>	<b>3,184</b>	<b>6,895</b>	<b>3,972</b>	<b>7,203</b>	<b>6,039</b>	<b>3,771</b>	<b>3,047</b>	<b>2,492</b>	<b>1,281</b>	<b>399</b>	<b>29,176</b>	<b>10.9</b>
WA . . . . .	4,761	357	859	487	898	790	457	345	337	176	55	3,669	11.9
OR . . . . .	2,820	194	503	278	517	467	264	205	228	125	39	2,197	13.9
CA . . . . .	29,063	2,489	5,225	3,018	5,492	4,511	2,891	2,366	1,837	941	293	22,081	10.6
AK . . . . .	527	55	110	62	100	96	52	31	15	5	1	376	4.1
HI . . . . .	1,112	89	199	127	196	175	107	100	75	34	10	853	10.7

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-25, No. 1058.

## No. 29. State Population Projections: 1995 and 2000

[In thousands. As of July 1. These projections were prepared prior to the release of 1990 census results and are therefore not based on 1990 census data. For explanation of methodology, see text, section 1]

REGION, DIVISION, AND STATE	1995				2000			
	Series A	Series B	Series C	Series D	Series A	Series B	Series C	Series D
<b>U.S. ....</b>	<b>259,620</b>	<b>259,620</b>	<b>259,620</b>	<b>259,620</b>	<b>267,748</b>	<b>267,748</b>	<b>267,748</b>	<b>267,748</b>
<b>Northeast ....</b>	<b>51,665</b>	<b>50,976</b>	<b>51,357</b>	<b>52,553</b>	<b>52,419</b>	<b>51,005</b>	<b>51,662</b>	<b>53,583</b>
<b>N.E. ....</b>	<b>13,575</b>	<b>13,320</b>	<b>13,498</b>	<b>13,427</b>	<b>14,002</b>	<b>13,486</b>	<b>13,788</b>	<b>13,647</b>
ME .....	1,295	1,275	1,301	1,243	1,344	1,313	1,359	1,262
NH .....	1,276	1,196	1,270	1,128	1,410	1,255	1,373	1,148
VT .....	597	582	597	582	619	594	619	593
MA .....	6,032	5,913	5,939	6,096	6,159	5,909	5,959	6,190
RI .....	1,021	1,005	1,027	1,030	1,048	1,010	1,046	1,049
CT .....	3,354	3,349	3,363	3,348	3,422	3,405	3,432	3,405
<b>M.A. ....</b>	<b>38,090</b>	<b>37,656</b>	<b>37,859</b>	<b>39,126</b>	<b>38,417</b>	<b>37,519</b>	<b>37,874</b>	<b>39,936</b>
NY .....	17,909	17,724	17,727	18,857	17,966	17,548	17,563	19,412
NJ .....	8,100	7,991	8,062	8,050	8,382	8,119	8,238	8,229
PA .....	12,080	11,942	12,070	12,219	12,069	11,852	12,073	12,295
<b>Midwest ....</b>	<b>60,712</b>	<b>60,914</b>	<b>61,213</b>	<b>62,665</b>	<b>60,528</b>	<b>61,342</b>	<b>61,815</b>	<b>64,231</b>
<b>E.N.C. ....</b>	<b>42,678</b>	<b>42,631</b>	<b>43,066</b>	<b>44,079</b>	<b>42,557</b>	<b>42,779</b>	<b>43,499</b>	<b>45,176</b>
OH .....	10,958	10,889	11,027	11,237	10,930	10,869	11,096	11,436
IN .....	5,688	5,656	5,738	5,785	5,696	5,697	5,831	5,910
IL .....	11,759	11,795	11,814	12,337	11,722	11,856	11,887	12,765
MI .....	9,364	9,317	9,534	9,653	9,365	9,331	9,692	9,879
WI .....	4,908	4,974	4,954	5,067	4,844	5,027	4,993	5,186
<b>W.N.C. ....</b>	<b>18,035</b>	<b>18,283</b>	<b>18,146</b>	<b>18,586</b>	<b>17,971</b>	<b>18,563</b>	<b>18,316</b>	<b>19,055</b>
MN .....	4,501	4,481	4,513	4,542	4,566	4,615	4,615	4,672
IA .....	2,703	2,825	2,741	2,949	2,549	2,808	2,671	3,013
MO .....	5,353	5,320	5,369	5,331	5,473	5,425	5,495	5,434
ND .....	631	687	635	705	596	698	615	728
SD .....	719	793	720	751	715	746	723	775
NE .....	1,582	1,641	1,595	1,682	1,539	1,660	1,583	1,730
KS .....	2,546	2,597	2,574	2,626	2,534	2,658	2,613	2,703
<b>South ....</b>	<b>91,227</b>	<b>91,317</b>	<b>90,781</b>	<b>89,132</b>	<b>95,575</b>	<b>95,382</b>	<b>94,483</b>	<b>91,750</b>
<b>S.A. ....</b>	<b>47,859</b>	<b>45,767</b>	<b>47,034</b>	<b>44,106</b>	<b>51,930</b>	<b>47,770</b>	<b>49,843</b>	<b>44,966</b>
DE .....	739	690	723	690	802	706	760	704
MD .....	5,180	4,908	5,090	4,830	5,608	5,073	5,370	4,936
DC .....	592	593	590	645	595	588	586	660
VA .....	6,758	6,475	6,676	6,320	7,275	6,741	7,066	6,482
WV .....	1,749	1,883	1,779	1,929	1,651	1,882	1,717	1,958
NC .....	7,197	6,943	7,102	6,702	7,717	7,226	7,492	6,803
SC .....	3,772	3,733	3,769	3,645	3,962	3,894	3,956	3,743
GA .....	7,288	6,949	7,196	6,682	8,005	7,329	7,733	6,882
FL .....	14,583	13,593	14,110	12,663	16,315	14,330	15,162	12,798
<b>E.S.C. ....</b>	<b>15,978</b>	<b>16,125</b>	<b>16,146</b>	<b>16,020</b>	<b>16,242</b>	<b>16,603</b>	<b>16,636</b>	<b>16,419</b>
KY .....	3,740	3,832	3,785	3,886	3,689	3,887	3,813	3,978
TN .....	5,239	5,199	5,288	5,068	5,424	5,386	5,533	5,156
AL .....	4,282	4,331	4,345	4,279	4,358	4,474	4,498	4,383
MS .....	2,717	2,764	2,727	2,787	2,772	2,856	2,791	2,902
<b>W.S.C. ....</b>	<b>27,390</b>	<b>29,425</b>	<b>27,602</b>	<b>29,006</b>	<b>27,402</b>	<b>31,009</b>	<b>28,004</b>	<b>30,365</b>
AR .....	2,473	2,528	2,501	2,486	2,509	2,615	2,562	2,544
LA .....	4,274	4,690	4,316	4,725	4,141	4,868	4,258	4,927
OK .....	3,072	3,466	3,105	3,389	2,924	3,624	3,042	3,481
TX .....	17,572	18,741	17,680	18,406	17,828	19,903	18,142	19,413
<b>West ....</b>	<b>56,015</b>	<b>56,412</b>	<b>56,269</b>	<b>55,271</b>	<b>59,226</b>	<b>60,019</b>	<b>59,788</b>	<b>58,186</b>
<b>Mt. ....</b>	<b>14,515</b>	<b>14,940</b>	<b>14,581</b>	<b>14,381</b>	<b>15,207</b>	<b>15,922</b>	<b>15,326</b>	<b>15,048</b>
MT .....	774	861	780	839	744	897	766	858
ID .....	1,018	1,126	1,036	1,093	1,008	1,202	1,056	1,156
WY .....	439	546	446	523	409	582	430	550
CO .....	3,407	3,656	3,460	3,525	3,424	3,861	3,548	3,649
NM .....	1,639	1,697	1,642	1,624	1,735	1,818	1,727	1,701
AZ .....	4,149	3,899	4,097	3,692	4,633	4,149	4,457	3,809
UT .....	1,807	1,930	1,841	1,963	1,845	2,082	1,929	2,166
NV .....	1,283	1,225	1,279	1,122	1,409	1,331	1,414	1,159
<b>Pac. ....</b>	<b>41,500</b>	<b>41,473</b>	<b>41,688</b>	<b>40,890</b>	<b>44,019</b>	<b>44,097</b>	<b>44,462</b>	<b>43,138</b>
WA .....	5,052	5,185	5,157	4,919	5,191	5,535	5,477	5,076
OR .....	2,887	3,032	2,960	2,906	2,903	3,206	3,086	2,986
CA .....	31,749	31,390	31,780	31,307	33,963	33,328	33,981	33,218
AK .....	560	609	538	578	599	655	550	614
HI .....	1,253	1,256	1,253	1,180	1,382	1,373	1,368	1,244

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-25, No. 1053.

## No. 30. Population Projections, by Age—States: 2000

[As of July 1. These projections were prepared prior to the release of 1990 census results and are therefore not based on 1990 census data. For explanation of methodology, see text, section 1]

REGION, DIVISION, AND STATE	UNDER 18 YEARS				18-64 YEARS				65 YEARS AND OVER			
	Series A	Series B	Series C	Series D	Series A	Series B	Series C	Series D	Series A	Series B	Series C	Series D
<b>U.S.</b>	<b>65,713</b>	<b>65,715</b>	<b>65,716</b>	<b>65,714</b>	<b>167,156</b>	<b>167,147</b>	<b>167,152</b>	<b>167,149</b>	<b>34,884</b>	<b>34,884</b>	<b>34,876</b>	<b>34,880</b>
<b>Northeast</b>	<b>12,229</b>	<b>11,787</b>	<b>12,006</b>	<b>12,148</b>	<b>32,841</b>	<b>31,892</b>	<b>32,329</b>	<b>33,617</b>	<b>7,351</b>	<b>7,323</b>	<b>7,328</b>	<b>7,817</b>
<b>N.E.</b>	<b>3,249</b>	<b>3,082</b>	<b>3,181</b>	<b>3,044</b>	<b>8,869</b>	<b>8,516</b>	<b>8,720</b>	<b>8,652</b>	<b>1,885</b>	<b>1,886</b>	<b>1,888</b>	<b>1,950</b>
ME	333	319	335	296	834	817	845	789	176	178	179	176
NH	351	303	339	268	906	804	881	736	153	148	153	143
VT	156	147	155	143	391	375	392	379	72	71	72	72
MA	1,393	1,317	1,336	1,360	3,913	3,738	3,775	3,935	854	853	849	895
RI	236	224	235	232	660	633	657	660	152	152	153	157
CT	780	772	781	745	2,165	2,149	2,170	2,153	478	484	482	507
<b>M.A.</b>	<b>8,980</b>	<b>8,705</b>	<b>8,825</b>	<b>9,104</b>	<b>23,972</b>	<b>23,376</b>	<b>23,609</b>	<b>24,965</b>	<b>5,466</b>	<b>5,437</b>	<b>5,440</b>	<b>5,867</b>
NY	4,200	4,085	4,091	4,496	11,307	11,024	11,040	12,178	2,459	2,439	2,431	2,738
NJ	2,003	1,922	1,961	1,868	5,228	5,053	5,131	5,161	1,152	1,143	1,146	1,200
PA	2,777	2,698	2,773	2,740	7,437	7,299	7,438	7,626	1,855	1,855	1,863	1,929
<b>Midwest.</b>	<b>15,138</b>	<b>15,393</b>	<b>15,553</b>	<b>15,755</b>	<b>37,375</b>	<b>37,865</b>	<b>38,171</b>	<b>39,934</b>	<b>8,012</b>	<b>8,086</b>	<b>8,089</b>	<b>8,541</b>
<b>E.N.C.</b>	<b>10,682</b>	<b>10,731</b>	<b>10,975</b>	<b>11,037</b>	<b>26,398</b>	<b>26,527</b>	<b>26,981</b>	<b>28,224</b>	<b>5,478</b>	<b>5,520</b>	<b>5,542</b>	<b>5,913</b>
OH	2,694	2,671	2,746	2,741	6,766	6,723	6,867	7,131	1,469	1,475	1,483	1,563
IN	1,427	1,424	1,469	1,428	3,542	3,538	3,624	3,713	727	734	738	769
IL	2,981	3,016	3,031	3,210	7,265	7,355	7,372	7,927	1,477	1,485	1,484	1,628
MI	2,365	2,350	2,468	2,386	5,860	5,832	6,061	6,237	1,140	1,148	1,163	1,255
WI	1,215	1,270	1,261	1,272	2,965	3,079	3,057	3,216	665	678	674	698
<b>W.N.C.</b>	<b>4,456</b>	<b>4,662</b>	<b>4,578</b>	<b>4,718</b>	<b>10,977</b>	<b>11,340</b>	<b>11,190</b>	<b>11,710</b>	<b>2,534</b>	<b>2,566</b>	<b>2,547</b>	<b>2,628</b>
MN	1,148	1,146	1,164	1,150	2,834	2,835	2,864	2,916	584	588	587	606
IA	608	692	650	727	1,536	1,700	1,613	1,848	404	416	408	438
MO	1,352	1,335	1,358	1,327	3,351	3,320	3,366	3,336	769	771	771	771
ND	145	183	153	189	366	427	377	445	85	88	85	94
SD	190	202	194	208	421	439	427	459	103	105	103	109
NE	385	430	402	438	925	998	951	1,053	228	233	229	238
KS	628	674	657	679	1,544	1,621	1,592	1,653	361	365	364	372
<b>South</b>	<b>23,259</b>	<b>23,271</b>	<b>22,936</b>	<b>22,756</b>	<b>59,581</b>	<b>59,452</b>	<b>58,900</b>	<b>57,113</b>	<b>12,735</b>	<b>12,660</b>	<b>12,649</b>	<b>11,881</b>
<b>S.A.</b>	<b>12,190</b>	<b>10,891</b>	<b>11,543</b>	<b>10,406</b>	<b>32,445</b>	<b>29,816</b>	<b>31,135</b>	<b>28,154</b>	<b>7,294</b>	<b>7,063</b>	<b>7,167</b>	<b>6,405</b>
DE	199	169	186	170	501	440	475	439	101	98	100	94
MD	1,373	1,207	1,299	1,119	3,613	3,266	3,459	3,194	622	600	612	624
DC	106	102	102	148	409	407	405	427	80	79	79	85
VA	1,734	1,554	1,680	1,457	4,734	4,394	4,603	4,233	807	793	803	791
WV	375	446	397	453	1,025	1,171	1,087	1,229	251	264	254	276
NC	1,809	1,641	1,729	1,525	4,910	4,601	4,769	4,353	997	984	994	924
SC	987	960	982	929	2,505	2,485	2,504	2,369	469	469	470	446
GA	2,087	1,861	1,995	1,741	5,094	4,661	4,919	4,365	825	808	820	776
FL	3,520	2,951	3,193	2,864	9,654	8,411	8,934	7,545	3,142	2,968	3,035	2,389
<b>E.S.C.</b>	<b>3,992</b>	<b>4,091</b>	<b>4,109</b>	<b>4,055</b>	<b>10,116</b>	<b>10,349</b>	<b>10,371</b>	<b>10,242</b>	<b>2,135</b>	<b>2,163</b>	<b>2,156</b>	<b>2,122</b>
KY	887	948	926	967	2,312	2,437	2,390	2,504	491	501	496	507
TN	1,256	1,233	1,283	1,184	3,453	3,436	3,529	3,275	714	717	721	698
AL	1,093	1,130	1,140	1,090	2,687	2,757	2,774	2,722	578	587	585	571
MS	756	780	760	814	1,684	1,719	1,678	1,741	352	358	354	346
<b>W.S.C.</b>	<b>7,077</b>	<b>8,289</b>	<b>7,284</b>	<b>8,295</b>	<b>17,020</b>	<b>19,287</b>	<b>17,394</b>	<b>18,717</b>	<b>3,306</b>	<b>3,434</b>	<b>3,326</b>	<b>3,354</b>
AR	618	647	633	639	1,512	1,577	1,545	1,540	379	391	384	365
LA	1,105	1,356	1,147	1,381	2,536	2,991	2,608	3,015	501	521	504	531
OK	683	919	724	861	1,818	2,253	1,890	2,173	423	452	427	448
TX	4,671	5,367	4,780	5,414	11,154	12,466	11,351	11,989	2,003	2,070	2,011	2,010
<b>West</b>	<b>15,087</b>	<b>15,264</b>	<b>15,221</b>	<b>15,055</b>	<b>37,359</b>	<b>37,938</b>	<b>37,752</b>	<b>36,485</b>	<b>6,786</b>	<b>6,815</b>	<b>6,810</b>	<b>6,641</b>
<b>Mt.</b>	<b>4,025</b>	<b>4,268</b>	<b>4,065</b>	<b>4,118</b>	<b>9,410</b>	<b>9,865</b>	<b>9,485</b>	<b>9,245</b>	<b>1,776</b>	<b>1,788</b>	<b>1,772</b>	<b>1,680</b>
MT	179	231	187	212	465	561	478	537	100	105	100	110
ID	276	347	294	334	614	728	641	697	118	127	120	124
WY	109	169	116	152	263	372	276	352	38	41	39	46
CO	813	940	849	882	2,242	2,534	2,325	2,376	370	386	373	380
NM	485	513	483	474	1,057	1,105	1,051	1,032	193	200	193	194
AZ	1,188	1,031	1,131	996	2,796	2,502	2,688	2,297	649	616	638	514
UT	651	743	683	789	1,036	1,172	1,084	1,213	159	167	161	163
NV	324	294	322	279	937	891	942	741	149	146	149	139
<b>Pac.</b>	<b>11,062</b>	<b>10,996</b>	<b>11,156</b>	<b>10,937</b>	<b>27,949</b>	<b>28,073</b>	<b>28,267</b>	<b>27,240</b>	<b>5,010</b>	<b>5,027</b>	<b>5,038</b>	<b>4,961</b>
WA	1,225	1,333	1,316	1,192	3,364	3,584	3,547	3,281	602	618	613	602
OR	689	781	745	704	1,839	2,033	1,955	1,901	375	393	385	381
CA	8,664	8,379	8,626	8,601	21,471	21,135	21,516	20,847	3,829	3,813	3,838	3,770
AK	174	191	158	176	397	437	367	398	29	27	26	40
HI	310	312	311	264	878	884	882	813	175	176	176	168

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-25, No. 1053.

### No. 31. White and Black Population Projections, by State: 2000

[As of July 1. These projections were prepared prior to the release of 1990 census results and are therefore not based on 1990 census data. For explanation of methodology, see text, section 1]

REGION, DIVISION, AND STATE	WHITE				BLACK							
	Number (1,000)				Number (1,000)				Percent of total population			
	Series A	Series B	Series C	Series D	Series A	Series B	Series C	Series D	Series A	Series B	Series C	Series D
<b>U.S. ....</b>	<b>221,146</b>	<b>221,146</b>	<b>221,146</b>	<b>221,146</b>	<b>35,005</b>	<b>35,005</b>	<b>35,005</b>	<b>35,005</b>	<b>13.1</b>	<b>13.1</b>	<b>13.1</b>	<b>13.1</b>
<b>Northeast . . . .</b>	<b>44,433</b>	<b>43,201</b>	<b>43,805</b>	<b>45,202</b>	<b>6,355</b>	<b>6,277</b>	<b>6,285</b>	<b>6,691</b>	<b>12.1</b>	<b>12.3</b>	<b>12.2</b>	<b>12.5</b>
<b>N.E. ....</b>	<b>12,981</b>	<b>12,511</b>	<b>12,791</b>	<b>12,623</b>	<b>705</b>	<b>688</b>	<b>695</b>	<b>735</b>	<b>5.0</b>	<b>5.1</b>	<b>5.0</b>	<b>5.4</b>
ME . . . .	1,320	1,292	1,337	1,240	5	4	5	5	0.4	0.3	0.3	0.4
NH . . . .	1,375	1,227	1,341	1,124	11	9	10	8	0.8	0.7	0.8	0.7
VT . . . .	608	584	608	584	3	3	3	3	0.5	0.5	0.5	0.5
MA . . . .	5,650	5,437	5,473	5,885	337	317	324	350	5.5	5.4	5.4	5.7
RI . . . .	972	937	970	967	45	44	45	49	4.3	4.3	4.3	4.7
CT . . . .	3,056	3,034	3,062	3,023	303	311	308	320	8.9	9.1	9.0	9.4
<b>M.A. ....</b>	<b>31,451</b>	<b>30,690</b>	<b>31,014</b>	<b>32,579</b>	<b>5,650</b>	<b>5,590</b>	<b>5,590</b>	<b>5,956</b>	<b>14.7</b>	<b>14.9</b>	<b>14.8</b>	<b>14.9</b>
NY . . . .	14,041	13,695	13,716	15,085	3,165	3,123	3,112	3,489	17.6	17.8	17.7	17.9
NJ . . . .	6,717	6,503	6,601	6,639	1,315	1,300	1,304	1,273	15.7	16.0	15.8	15.5
PA . . . .	10,693	10,492	10,697	10,855	1,169	1,167	1,174	1,214	9.7	9.8	9.7	9.9
<b>Midwest. ....</b>	<b>52,551</b>	<b>53,278</b>	<b>53,692</b>	<b>55,925</b>	<b>6,570</b>	<b>6,632</b>	<b>6,673</b>	<b>6,723</b>	<b>10.9</b>	<b>10.8</b>	<b>10.8</b>	<b>10.5</b>
<b>E.N.C. ....</b>	<b>36,024</b>	<b>36,200</b>	<b>36,845</b>	<b>38,426</b>	<b>5,606</b>	<b>5,648</b>	<b>5,696</b>	<b>5,705</b>	<b>13.2</b>	<b>13.2</b>	<b>13.1</b>	<b>12.6</b>
OH . . . .	9,502	9,438	9,648	9,983	1,294	1,299	1,310	1,311	11.8	12.0	11.8	11.5
IN . . . .	5,102	5,105	5,227	5,311	525	524	533	526	9.2	9.2	9.1	8.9
IL . . . .	9,289	9,406	9,436	10,153	2,020	2,035	2,032	2,115	17.2	17.2	17.1	16.6
MI . . . .	7,652	7,610	7,923	8,174	1,495	1,505	1,540	1,478	16.0	16.1	15.9	15.0
WI . . . .	4,478	4,641	4,610	4,805	272	285	282	275	5.6	5.7	5.7	5.3
<b>W.N.C. ....</b>	<b>16,527</b>	<b>17,078</b>	<b>16,847</b>	<b>17,500</b>	<b>964</b>	<b>985</b>	<b>977</b>	<b>1,018</b>	<b>5.4</b>	<b>5.3</b>	<b>5.3</b>	<b>5.3</b>
MN . . . .	4,328	4,327	4,372	4,418	79	82	82	84	1.7	1.8	1.8	1.8
IA . . . .	2,465	2,709	2,581	2,909	56	65	60	63	2.2	2.3	2.3	2.1
MO . . . .	4,782	4,746	4,808	4,718	609	600	606	627	11.1	11.1	11.0	11.5
ND . . . .	562	658	580	688	4	4	4	4	0.6	0.6	0.6	0.6
SD . . . .	634	662	641	690	3	4	3	3	0.4	0.5	0.5	0.4
NE . . . .	1,458	1,570	1,497	1,632	56	62	59	66	3.6	3.8	3.7	3.8
KS . . . .	2,300	2,407	2,369	2,444	157	167	163	171	6.2	6.3	6.2	6.3
<b>South . . . .</b>	<b>75,003</b>	<b>74,835</b>	<b>74,040</b>	<b>71,405</b>	<b>18,493</b>	<b>18,463</b>	<b>18,408</b>	<b>18,239</b>	<b>19.3</b>	<b>19.4</b>	<b>19.5</b>	<b>19.9</b>
<b>S.A. ....</b>	<b>39,859</b>	<b>36,239</b>	<b>38,010</b>	<b>33,803</b>	<b>10,902</b>	<b>10,515</b>	<b>10,739</b>	<b>10,123</b>	<b>21.0</b>	<b>22.0</b>	<b>21.5</b>	<b>22.5</b>
DE . . . .	617	537	582	549	164	151	158	139	20.4	21.4	20.8	19.7
MD . . . .	3,844	3,403	3,638	3,414	1,535	1,476	1,520	1,326	27.4	29.1	28.3	26.9
DC . . . .	180	179	179	192	405	399	396	455	68.1	67.9	67.7	69.0
VA . . . .	5,682	5,207	5,492	5,004	1,373	1,338	1,364	1,254	18.9	19.8	19.3	19.4
WV . . . .	1,597	1,817	1,660	1,896	43	51	45	59	2.6	2.7	2.6	3.0
NC . . . .	5,821	5,410	5,633	5,043	1,685	1,620	1,655	1,574	21.8	22.4	22.1	23.1
SC . . . .	2,729	2,663	2,718	2,515	1,187	1,189	1,194	1,181	30.0	30.5	30.2	31.6
GA . . . .	5,734	5,171	5,504	4,824	2,152	2,056	2,117	1,950	26.9	28.1	27.4	28.3
FL . . . .	13,657	11,852	12,803	10,375	2,358	2,235	2,289	2,184	14.5	15.6	15.1	17.1
<b>E.S.C. ....</b>	<b>12,739</b>	<b>13,090</b>	<b>13,113</b>	<b>12,754</b>	<b>3,353</b>	<b>3,360</b>	<b>3,367</b>	<b>3,504</b>	<b>20.6</b>	<b>20.2</b>	<b>20.2</b>	<b>21.3</b>
KY . . . .	3,376	3,557	3,490	3,638	289	304	297	306	7.8	7.8	7.8	7.7
TN . . . .	4,464	4,445	4,570	4,220	908	891	910	884	16.7	16.5	16.4	17.1
AL . . . .	3,175	3,276	3,297	3,140	1,133	1,148	1,150	1,197	26.0	25.7	25.6	27.3
MS . . . .	1,724	1,813	1,756	1,757	1,023	1,017	1,010	1,117	36.9	35.6	36.2	38.5
<b>W.S.C. ....</b>	<b>22,405</b>	<b>25,505</b>	<b>22,917</b>	<b>24,848</b>	<b>4,238</b>	<b>4,587</b>	<b>4,302</b>	<b>4,612</b>	<b>15.5</b>	<b>14.8</b>	<b>15.4</b>	<b>15.2</b>
AR . . . .	2,068	2,174	2,124	2,053	401	402	399	452	16.0	15.4	15.6	17.8
LA . . . .	2,686	3,262	2,777	3,254	1,380	1,510	1,402	1,567	33.3	31.0	32.9	31.8
OK . . . .	2,440	3,035	2,539	2,921	205	250	213	259	7.0	6.9	7.0	7.4
TX . . . .	15,211	17,035	15,477	16,621	2,252	2,426	2,288	2,333	12.6	12.2	12.6	12.0
<b>West . . . .</b>	<b>49,160</b>	<b>49,833</b>	<b>49,610</b>	<b>48,614</b>	<b>3,587</b>	<b>3,633</b>	<b>3,639</b>	<b>3,352</b>	<b>6.1</b>	<b>6.1</b>	<b>6.1</b>	<b>5.8</b>
<b>Mt. ....</b>	<b>13,884</b>	<b>14,555</b>	<b>13,992</b>	<b>13,764</b>	<b>419</b>	<b>431</b>	<b>423</b>	<b>413</b>	<b>2.8</b>	<b>2.7</b>	<b>2.8</b>	<b>2.7</b>
MT . . . .	693	836	712	799	2	2	2	2	0.2	0.2	0.2	0.3
ID . . . .	977	1,163	1,023	1,121	5	6	6	6	0.5	0.5	0.5	0.5
WY . . . .	391	557	411	528	4	5	4	5	0.9	0.8	0.9	0.9
CO . . . .	3,182	3,583	3,294	3,379	141	162	147	151	4.1	4.2	4.2	4.1
NM . . . .	1,513	1,585	1,509	1,483	29	30	29	31	1.7	1.7	1.7	1.8
AZ . . . .	4,154	3,711	3,987	3,404	126	113	120	115	2.7	2.7	2.7	3.0
UT . . . .	1,757	1,973	1,833	2,056	12	14	13	16	0.6	0.7	0.7	0.7
NV . . . .	1,219	1,146	1,223	994	101	98	101	87	7.2	7.4	7.2	7.5
<b>Pac. ....</b>	<b>35,275</b>	<b>35,278</b>	<b>35,617</b>	<b>34,850</b>	<b>3,168</b>	<b>3,202</b>	<b>3,217</b>	<b>2,939</b>	<b>7.2</b>	<b>7.3</b>	<b>7.2</b>	<b>6.8</b>
WA . . . .	4,666	4,973	4,921	4,527	125	140	137	142	2.4	2.5	2.5	2.8
OR . . . .	2,688	2,968	2,856	2,754	50	56	54	52	1.7	1.8	1.7	1.7
CA . . . .	27,032	26,401	26,994	26,718	2,945	2,958	2,981	2,700	7.7	7.9	7.9	6.8
AK . . . .	446	488	401	463	22	23	21	22	3.6	3.5	3.8	3.6
HI . . . .	444	448	446	388	25	24	24	22	1.8	1.8	1.8	1.8

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-25, No. 1053.

**No. 32. Metropolitan and Nonmetropolitan Area Population: 1960 to 1990**

[Metropolitan areas as defined by Office of Management and Budget as of year shown, except as noted.  
See headnote, table 33]

ITEM	1960	1970	1980 <sup>1</sup> (SMSA's)	MSA's AND CMSA's <sup>2</sup>	
				1980	1990
Metropolitan areas: Number of areas . . . . .	212	243	318	284	284
Population (1,000) . . . . .	112,885	139,480	169,431	172,678	192,726
Percent change over previous year shown . . . . .	33.0	23.6	21.5	(X)	11.6
Percent of total U.S. population . . . . .	63.0	68.6	74.8	76.2	77.5
Land area, percent of U.S. land area . . . . .	8.7	10.9	16.0	(NA)	(NA)
Nonmetropolitan areas, population (1,000) . . . . .	66,438	63,822	57,115	53,864	55,984

**1990 Census Note:** The population counts set forth herein are subject to possible correction for undercount or overcount. The United States Department of Commerce is considering whether to correct these counts and will publish corrected counts, if any, not later than July 15, 1991.

NA Not available. X Not applicable. <sup>1</sup> SMSA=standard metropolitan statistical area. Areas are as defined June 30, 1981. <sup>2</sup> Areas are as defined June 30, 1990. <sup>3</sup> Percent change from 1950.

Source: U.S. Bureau of the Census, *U.S. Census of Population: 1960 and 1970; 1980 Census of Population*, vol. 1, chapter A (PC80-1-A) and *Supplementary Report, Metropolitan Statistical Areas* (PC80-S1-18); and press release CB91-66.

**No. 33. Number and Population of Metropolitan Areas, by Population Size-Class in 1980: 1970 to 1988**

[As of **April 1, except 1988**, as of **July 1**. Data exclude Puerto Rico. CMSA=consolidated metropolitan statistical area. MSA=metropolitan statistical area. PMSA=primary metropolitan statistical area. Areas are as defined by U.S. Office of Management and Budget, June 30, 1989. For definitions, see Appendix II. See also *Historical Statistics, Colonial Times to 1970*, series A 264-275.]

LEVEL AND POPULATION SIZE-CLASS OF METROPOLITAN AREA IN 1980	CMSA's AND MSA's					MSA's AND PMSA's				
	Num- ber, 1989	Popu- lation, 1970 (mil.)	Popu- lation, 1980 (mil.)	Population, 1988		Num- ber, 1989	Popu- lation, 1970 (mil.)	Popu- lation, 1980 (mil.)	Population, 1988	
				Total (mil.)	Per- cent in each class				Total (mil.)	Per- cent in each class
<b>Total, all metropolitan areas . . .</b>	<b>283</b>	<b>156.1</b>	<b>172.6</b>	<b>189.4</b>	<b>100.0</b>	<b>334</b>	<b>156.1</b>	<b>172.6</b>	<b>189.4</b>	<b>100.0</b>
Level A (1,000,000 or more) . . . . .	35	100.1	107.8	118.2	62.4	41	86.4	92.6	101.6	53.7
2,500,000 or more . . . . .	12	67.6	71.5	77.7	41.0	9	42.0	42.4	45.1	23.8
1,000,000-2,499,999 . . . . .	23	32.4	36.3	40.6	21.4	32	44.4	50.2	56.5	29.8
Level B (250,000-999,999) . . . . .	90	37.5	43.1	47.5	25.1	115	48.4	55.0	60.6	32.0
500,000-999,999 . . . . .	33	20.4	23.3	25.8	13.6	43	26.9	30.3	33.5	17.7
250,000-499,999 . . . . .	57	17.1	19.8	21.7	11.5	72	21.5	24.7	27.1	14.3
Level C (100,000-249,999) . . . . .	125	16.0	18.9	20.6	10.9	143	18.8	22.1	23.9	12.6
Level D (less than 100,000) . . . . .	33	2.4	2.8	3.1	1.6	35	2.6	3.0	3.3	1.7

Source: U.S. Bureau of the Census, *1980 Census of Population, Supplementary Report, Metropolitan Statistical Areas* (PC80-S1-18); and *Current Population Reports*, series P-26, No. 88-B.

**No. 34. Resident Population in Counties Within 50 Miles of Coastal Shorelines: 1960 to 1988**

[Enumerated population as of **April 1, except 1988**, estimated as of **July 1**. Excludes Alaska and Hawaii. Covers 611 counties and independent cities which are entirely or substantially within 50 miles of U.S. coastal shorelines. Great Lakes region includes St. Lawrence River]

YEAR	Conter- minous U.S., total	COUNTIES IN COASTAL REGIONS					Balance of conter- minous U.S.
		Total	Atlantic	Pacific	Great Lakes	Gulf of Mexico	
Land area, 1980 (1,000 sq. mi.) . . . . .	2,962	467	122	118	134	94	2,495
<b>POPULATION</b>							
1960 (mil.) . . . . .	178.5	92.7	41.7	16.8	26.4	7.8	85.7
1970 (mil.) . . . . .	202.2	108.5	48.2	21.5	29.3	9.5	93.8
1980 (mil.) . . . . .	225.2	118.4	50.7	25.4	29.8	12.6	106.7
1988 (mil.) . . . . .	244.2	129.5	55.0	30.0	29.9	14.7	114.6
1960 (percent) . . . . .	100.0	51.9	23.4	9.4	14.8	4.4	48.0
1970 (percent) . . . . .	100.0	53.7	23.8	10.6	14.5	4.7	46.4
1980 (percent) . . . . .	100.0	52.6	22.5	11.3	13.2	5.6	47.4
1988 (percent) . . . . .	100.0	53.1	22.5	12.3	12.2	6.0	46.9

Source: U.S. Bureau of the Census, *U.S. Census of Population: 1960 and 1970; 1980 Census of Population*, vol. 1, chapter A (PC80-1-A-1), *U.S. Summary*, and *Current Population Reports*, series P-26, No. 88-A.

# No. 35. Metropolitan and Nonmetropolitan Area Population—States: 1980 to 1990

[As of April 1. Excludes Armed Forces abroad. Refers to 264 metropolitan statistical areas and 20 consolidated metropolitan statistical areas as defined by U.S. Office of Management and Budget, June 30, 1990; see Appendix II. Minus sign (-) indicates decrease]

REGION, DIVISION, AND STATE	METROPOLITAN AREA POPULATION						NONMETROPOLITAN AREA POPULATION					
	Total (1,000)		Net change, 1980-90		Percent of State		Total (1,000)		Net change, 1980-90		Percent of State	
	1980	1990	Number (1,000)	Percent	1980	1990	1980	1990	Number (1,000)	Percent	1980	1990
<b>U.S.</b>	<b>172,678</b>	<b>192,726</b>	<b>20,047</b>	<b>11.6</b>	<b>76.2</b>	<b>77.5</b>	<b>53,864</b>	<b>55,984</b>	<b>2,120</b>	<b>3.9</b>	<b>23.8</b>	<b>22.5</b>
<b>Northeast</b>	<b>43,439</b>	<b>44,791</b>	<b>1,352</b>	<b>3.1</b>	<b>88.4</b>	<b>88.2</b>	<b>5,698</b>	<b>6,018</b>	<b>320</b>	<b>5.6</b>	<b>11.6</b>	<b>11.8</b>
<b>N.E.</b>	<b>10,020</b>	<b>10,598</b>	<b>579</b>	<b>5.8</b>	<b>81.1</b>	<b>80.2</b>	<b>2,329</b>	<b>2,609</b>	<b>280</b>	<b>12.0</b>	<b>18.9</b>	<b>19.8</b>
ME	405	441	36	9.0	36.0	35.9	720	787	66	9.2	64.0	64.1
NH	511	622	111	21.8	55.5	56.1	410	487	77	18.9	44.5	43.9
VT	115	131	16	14.0	22.5	23.4	396	431	35	8.9	77.5	76.6
MA	5,231	5,438	207	3.9	91.2	90.4	506	578	73	14.4	8.8	9.6
RI	878	928	50	5.7	92.7	92.5	69	75	6	9.4	7.3	7.5
CT	2,879	3,038	158	5.5	92.7	92.4	228	250	21	9.3	7.3	7.6
<b>M.A.</b>	<b>33,420</b>	<b>34,193</b>	<b>773</b>	<b>2.3</b>	<b>90.8</b>	<b>90.9</b>	<b>3,368</b>	<b>3,409</b>	<b>41</b>	<b>1.2</b>	<b>9.2</b>	<b>9.1</b>
NY	16,016	16,386	370	2.3	91.2	91.1	1,542	1,605	63	4.1	8.8	8.9
NJ	7,365	7,730	365	5.0	100.0	(X)	(X)	(X)	(X)	(X)	(X)	(X)
PA	10,038	10,077	39	0.4	84.6	84.8	1,826	1,805	-22	-1.2	15.4	15.2
<b>Midwest</b>	<b>41,581</b>	<b>42,689</b>	<b>1,108</b>	<b>2.7</b>	<b>70.6</b>	<b>71.5</b>	<b>17,286</b>	<b>16,980</b>	<b>-306</b>	<b>-1.8</b>	<b>29.4</b>	<b>28.5</b>
<b>E.N.C.</b>	<b>32,204</b>	<b>32,557</b>	<b>353</b>	<b>1.1</b>	<b>77.3</b>	<b>77.5</b>	<b>9,479</b>	<b>9,452</b>	<b>-27</b>	<b>-0.3</b>	<b>22.7</b>	<b>22.5</b>
OH	8,521	8,567	47	0.5	78.9	79.0	2,277	2,280	3	0.1	21.1	21.0
IN	3,719	3,796	77	2.1	67.7	68.5	1,771	1,748	-23	-1.3	32.3	31.5
IL	9,340	9,450	110	1.2	81.7	82.7	2,088	1,981	-107	-5.1	18.3	17.3
MI	7,480	7,446	-35	-0.5	80.8	80.1	1,782	1,850	68	3.8	19.2	19.9
WI	3,145	3,258	113	3.6	66.8	67.4	1,561	1,593	32	2.1	33.2	32.6
<b>W.N.C.</b>	<b>9,376</b>	<b>10,132</b>	<b>756</b>	<b>8.1</b>	<b>54.6</b>	<b>57.4</b>	<b>7,808</b>	<b>7,528</b>	<b>-280</b>	<b>-3.6</b>	<b>45.4</b>	<b>42.6</b>
MN	2,621	2,960	339	12.9	64.3	67.7	1,455	1,415	-40	-2.8	35.7	32.3
IA	1,223	1,223	(-)	0.0	42.0	44.0	1,691	1,554	-137	-8.1	58.0	56.0
MO	3,226	3,387	161	5.0	65.6	66.2	1,690	1,730	40	2.3	34.4	33.8
ND	234	257	23	9.8	35.9	40.3	418	381	-37	-8.8	64.1	59.7
SD	180	205	25	14.1	26.0	29.5	511	491	-20	-3.9	74.0	70.5
NE	708	766	58	8.2	45.1	48.5	862	812	-49	-5.7	54.9	51.5
KS	1,184	1,333	149	12.6	50.1	53.8	1,180	1,145	-36	-3.0	49.9	46.2
<b>South</b>	<b>51,606</b>	<b>60,588</b>	<b>8,982</b>	<b>17.4</b>	<b>68.5</b>	<b>70.9</b>	<b>23,761</b>	<b>24,585</b>	<b>1,097</b>	<b>4.6</b>	<b>31.5</b>	<b>29.1</b>
<b>S.A.</b>	<b>26,777</b>	<b>32,461</b>	<b>5,684</b>	<b>21.2</b>	<b>72.5</b>	<b>74.5</b>	<b>10,181</b>	<b>11,106</b>	<b>925</b>	<b>9.1</b>	<b>27.5</b>	<b>25.5</b>
DE	3,920	4,439	519	13.2	93.0	92.8	297	343	46	15.3	7.0	7.2
MD	3,538	4,007	469	13.3	100.0	100.0	(X)	(X)	(X)	(X)	(X)	(X)
DC	558	607	49	8.8	70.1	72.5	1,601	1,704	103	6.4	29.9	27.5
VA	3,745	4,483	738	19.7	36.8	36.4	1,232	1,140	-91	-7.4	63.2	63.6
WV	718	653	-65	-9.1	56.7	56.7	2,677	2,871	194	7.3	45.5	43.3
NC	3,203	3,758	554	17.3	54.5	56.6	1,254	1,374	119	9.5	40.2	39.4
SC	1,866	2,113	247	13.2	62.3	65.0	2,060	2,266	206	10.0	37.7	35.0
GA	3,403	4,212	809	23.8	91.2	90.8	863	1,184	321	37.3	8.8	9.2
FL	8,884	11,754	2,870	32.3	56.1	56.1	6,643	6,663	21	0.3	45.3	43.9
<b>E.S.C.</b>	<b>8,023</b>	<b>8,513</b>	<b>490</b>	<b>6.1</b>	<b>45.8</b>	<b>46.5</b>	<b>1,984</b>	<b>1,971</b>	<b>-13</b>	<b>0.6</b>	<b>54.2</b>	<b>53.5</b>
KY	1,676	1,714	38	2.2	66.4	67.7	1,543	1,577	34	2.2	33.6	32.3
TN	3,048	3,300	252	8.3	66.3	67.4	1,311	1,317	6	0.5	33.7	32.6
AL	2,583	2,723	140	5.4	28.4	30.1	1,805	1,798	-7	-0.4	71.6	69.9
MS	716	776	60	8.3	70.8	73.5	6,937	7,089	151	2.2	29.2	26.5
<b>W.S.C.</b>	<b>16,806</b>	<b>19,614</b>	<b>2,808</b>	<b>16.7</b>	<b>38.7</b>	<b>40.1</b>	<b>1,401</b>	<b>1,408</b>	<b>7</b>	<b>0.5</b>	<b>61.3</b>	<b>59.9</b>
AR	885	943	57	6.5	68.8	69.5	1,313	1,285	-28	-2.1	31.2	30.5
LA	2,893	2,935	42	1.5	59.4	59.4	1,301	1,276	-26	-2.0	43.0	40.6
OK	1,724	1,870	146	8.4	79.5	81.6	2,921	3,119	198	6.8	20.5	18.4
TX	11,304	13,867	2,563	22.7	67.2	67.2	4,031	4,480	449	11.1	35.4	32.8
<b>West</b>	<b>36,052</b>	<b>44,658</b>	<b>8,606</b>	<b>23.9</b>	<b>64.6</b>	<b>67.2</b>	<b>7,119</b>	<b>8,128</b>	<b>1,009</b>	<b>14.2</b>	<b>16.5</b>	<b>15.4</b>
<b>Mt.</b>	<b>7,340</b>	<b>9,179</b>	<b>1,838</b>	<b>25.0</b>	<b>24.0</b>	<b>23.9</b>	<b>598</b>	<b>608</b>	<b>10</b>	<b>1.7</b>	<b>76.0</b>	<b>76.1</b>
MT	189	191	2	1.3	18.3	20.4	771	801	30	3.9	81.7	79.6
ID	173	206	33	18.9	29.6	29.6	329	319	-10	-3.0	70.1	70.4
WY	141	134	-6	-4.4	80.5	81.5	563	608	45	8.0	19.5	18.5
CO	2,326	2,686	360	15.5	48.4	48.4	694	782	88	12.7	53.2	51.6
NM	610	733	123	20.2	77.9	79.0	600	769	170	28.3	22.1	21.0
AZ	2,117	2,896	779	36.8	77.5	77.5	333	387	54	16.3	22.8	22.5
UT	1,128	1,336	207	18.4	82.9	82.9	144	206	62	43.1	18.0	17.1
NV	657	996	339	51.7	90.7	90.7	3,088	3,648	560	18.1	9.7	9.3
<b>Pac.</b>	<b>28,712</b>	<b>35,479</b>	<b>6,768</b>	<b>23.6</b>	<b>80.4</b>	<b>81.7</b>	<b>810</b>	<b>891</b>	<b>81</b>	<b>10.0</b>	<b>19.6</b>	<b>18.3</b>
WA	3,322	3,976	654	19.7	68.5	68.5	870	895	25	2.9	33.0	31.5
OR	1,763	1,947	184	10.4	95.7	95.7	979	1,267	288	29.4	4.1	4.3
CA	22,689	28,493	5,805	25.6	43.4	41.1	227	324	96	42.3	56.6	58.9
AK	174	226	52	29.8	75.5	75.5	202	272	70	34.6	21.0	24.5
HI	763	836	74	9.7								

**1990 Census Note:** The population counts set forth herein are subject to possible correction for undercount or overcount. The United States Department of Commerce is considering whether to correct these counts and will publish corrected counts, if any, not later than July 15, 1991.

X Not applicable. Z Less than 500 or .05 percent.

Source: U.S. Bureau of the Census, unpublished data.



## No. 36. Metropolitan Areas—Population: 1970 to 1990

[As of April 1. Covers 20 consolidated metropolitan statistical areas (CMSAs), their 71 component primary metropolitan statistical areas (PMSAs), and the remaining 114 MSA's with 250,000 and over population in 1990 as defined by the U.S. Office of Management and Budget as of June 30, 1990. Figures for 1970 include corrections. Rank based on unrounded figures for CMSAs and MSAs only. For definitions and components of all MSAs and population of NECMAS (New England County Metropolitan Areas), see Appendix II. Minus sign (-) indicates decrease]

METROPOLITAN AREA	NUMBER (1,000)			RANK		PERCENT CHANGE	
	1970	1980	1990	1980	1990	1970- 1980	1980- 1990
Albany-Schenectady-Troy, NY MSA	811	836	874	46	48	3.1	4.6
Albuquerque, NM MSA	316	420	481	80	77	33.1	14.4
Allentown-Bethlehem-Easton, PA-NJ MSA	594	635	687	54	58	6.9	8.1
Appleton-Oshkosh-Neenah, WI MSA	277	291	315	107	114	5.2	8.2
Atlanta, GA MSA	1,684	2,138	2,834	16	12	27.0	32.5
Atlantic City, NJ MSA	235	276	319	113	112	17.8	15.6
Augusta, GA-SC MSA	291	346	397	95	91	18.8	14.7
Austin, TX MSA	360	537	782	63	52	48.9	45.6
Bakersfield, CA MSA	330	403	543	84	68	22.1	34.8
Baltimore, MD MSA	2,089	2,199	2,382	15	18	5.3	8.3
Baton Rouge, LA MSA	376	494	528	69	71	31.6	6.9
Beaumont-Port Arthur, TX MSA	348	373	361	88	102	7.4	-3.2
Binghamton, NY MSA	268	263	264	123	127	-1.6	0.4
Birmingham, AL MSA	794	884	908	42	46	11.3	2.7
Boston-Lawrence-Salem, MA-NH CMSA	3,939	3,972	4,172	7	7	0.8	5.0
Boston, MA PMSA	2,887	2,806	2,871	(X)	(X)	-2.8	2.3
Brockton, MA PMSA	163	183	189	(X)	(X)	12.4	3.6
Lawrence-Haverhill, MA-NH PMSA	301	339	394	(X)	(X)	12.7	16.1
Lowell, MA-NH PMSA	225	243	273	(X)	(X)	7.8	12.3
Nashua, NH PMSA	100	143	181	(X)	(X)	42.5	26.7
Salem-Gloucester, MA PMSA	263	258	264	(X)	(X)	-1.7	2.4
Brownsville-Harlingen, TX MSA	140	210	260	138	129	49.4	24.0
Buffalo-Niagara Falls, NY CMSA	1,349	1,243	1,189	29	33	7.9	-4.3
Buffalo, NY PMSA	1,113	1,015	969	(X)	(X)	-8.8	-4.6
Niagara Falls, NY PMSA	236	227	221	(X)	(X)	-3.5	2.9
Canton, OH MSA	394	404	394	83	93	2.7	-2.6
Charleston, SC MSA	336	430	507	77	73	28.1	17.8
Charleston, WV MSA	257	270	250	118	134	4.8	-7.1
Charlotte-Gastonia-Rock Hill, NC-SC MSA	840	971	1,162	36	34	15.6	19.6
Chattanooga, TN-GA MSA	371	426	433	78	82	15.0	1.6
Chicago-Gary-Lake County, IL-IN-WI CMSA	7,779	7,937	8,066	3	3	2.0	1.6
Aurora-Elgin, IL PMSA	277	316	357	(X)	(X)	13.8	13.1
Chicago, IL PMSA	6,093	6,060	6,070	(X)	(X)	-0.5	0.2
Gary-Hammond, IN PMSA	633	643	605	(X)	(X)	1.5	-5.9
Joliet, IL PMSA	274	355	390	(X)	(X)	29.4	9.7
Kenosha, WI PMSA	118	123	128	(X)	(X)	4.4	4.1
Lake County, IL PMSA	383	440	516	(X)	(X)	15.1	17.3
Cincinnati-Hamilton, OH-KY-IN CMSA	1,613	1,660	1,744	20	23	2.9	5.1
Cincinnati, OH-KY-IN PMSA	1,387	1,401	1,453	(X)	(X)	1.0	3.7
Hamilton-Middletown, OH PMSA	226	259	291	(X)	(X)	14.4	12.6
Cleveland-Akron-Lorain, OH CMSA	3,000	2,834	2,760	11	13	5.5	-2.6
Akron, OH PMSA	679	660	658	(X)	(X)	-2.8	0.4
Cleveland, OH PMSA	2,064	1,899	1,831	(X)	(X)	8.0	-3.6
Lorain-Elyria, OH PMSA	257	275	271	(X)	(X)	7.0	1.4
Colorado Springs, CO MSA	236	309	397	105	90	31.1	28.3
Columbia, SC MSA	323	410	453	82	79	27.0	10.6
Columbus, OH MSA	1,149	1,244	1,377	28	29	8.2	10.7
Corpus Christi, TX MSA	285	326	350	99	105	14.5	7.3
Dallas-Fort Worth, TX CMSA	2,352	2,931	3,885	10	9	24.6	32.6
Dallas, TX PMSA	1,556	1,957	2,553	(X)	(X)	25.8	30.4
Fort Worth-Arlington, TX PMSA	795	973	1,332	(X)	(X)	22.4	36.9
Davenport-Rock Island-Moline, IA-IL MSA	363	384	351	86	104	6.1	-8.8
Dayton-Springfield, OH MSA	975	942	951	39	44	-3.4	1.0
Daytona Beach, FL MSA	169	259	371	124	96	52.7	43.3
Denver-Boulder, CO CMSA	1,238	1,618	1,848	21	22	30.7	14.2
Boulder-Longmont, CO PMSA	132	190	225	(X)	(X)	43.8	18.8
Denver, CO PMSA	1,106	1,429	1,623	(X)	(X)	29.1	13.6
Des Moines, IA MSA	340	368	393	89	94	8.2	6.9
Detroit-Ann Arbor, MI CMSA	4,788	4,753	4,665	6	6	-0.7	1.8
Ann Arbor, MI PMSA	234	265	283	(X)	(X)	13.1	6.9
Detroit, MI PMSA	4,554	4,488	4,382	(X)	(X)	-1.5	-2.4
El Paso, TX MSA	359	480	592	70	66	33.6	23.3
Erie, PA MSA	264	280	276	111	124	6.1	-1.5
Eugene-Springfield, OR MSA	215	275	283	115	119	27.8	2.8
Evansville, IN-KY MSA	255	276	279	114	121	8.5	1.0
Fayetteville, NC MSA	212	247	275	127	125	16.6	11.1
Flint, MI MSA	446	450	430	73	84	1.1	4.4
Fort Myers-Cape Coral, FL MSA	105	205	335	140	110	95.1	63.3
Fort Pierce, FL MSA	79	151	251	178	133	91.7	66.1
Fort Wayne, IN MSA	335	354	364	93	100	5.8	2.7
Fresno, CA MSA	413	515	667	67	59	24.5	29.7

See footnotes at end of table.

**1990 Census Note:** The population counts set forth herein are subject to possible correction for undercount or overcount. The United States Department of Commerce is considering whether to correct these counts and will publish corrected counts, if any, not later than July 15, 1991.

## No. 36. Metropolitan Areas—Population: 1970 to 1990—Continued

[See headnote, p. 29]

METROPOLITAN AREA	NUMBER (1,000)			RANK		PERCENT CHANGE	
	1970	1980	1990	1980	1990	1970- 1980	1980- 1990
Grand Rapids, MI MSA	539	602	688	56	57	11.6	14.4
Greensboro-Winston-Salem-High Point, NC MSA	743	851	942	44	45	14.6	10.6
Greenville-Spartanburg, SC MSA	473	570	641	59	62	20.4	12.4
Harrisburg-Lebanon-Carlisle, PA MSA	510	556	588	62	67	9.0	5.7
Hartford-New Britain-Middletown, CT CMSA	1,000	1,014	1,086	35	36	1.4	7.1
Bristol, CT PMSA	70	74	79	(X)	(X)	5.6	7.8
Hartford, CT PMSA	711	716	768	(X)	(X)	0.7	7.3
Middletown, CT PMSA	74	82	90	(X)	(X)	10.6	10.7
New Britain, CT PMSA	145	142	148	(X)	(X)	2.1	4.2
Honolulu, HI MSA	631	763	836	47	51	20.9	9.7
Houston-Galveston-Brazoria, TX CMSA	2,169	3,100	3,711	9	10	42.9	19.7
Brazoria, TX PMSA	108	170	192	(X)	(X)	56.6	13.0
Galveston-Texas City, TX PMSA	170	196	217	(X)	(X)	15.3	11.1
Houston, TX PMSA	1,891	2,735	3,302	(X)	(X)	44.6	20.7
Huntington-Ashland, WV-KY-OH MSA	307	336	313	97	115	9.7	-7.1
Indianapolis, IN MSA	1,111	1,167	1,250	30	31	5.0	7.1
Jackson, MS MSA	289	362	395	92	92	25.4	9.2
Jacksonville, FL MSA	613	722	907	50	47	17.9	25.5
Johnson City-Kingsport-Bristol, TN-VA MSA	374	434	436	76	81	16.1	0.6
Kansas City, MO-KS MSA	1,373	1,433	1,566	25	25	4.4	9.3
Killeen-Temple, TX MSA	160	215	255	135	131	34.3	19.0
Knoxville, TN MSA	477	566	605	60	65	18.8	6.9
Lakeland-Winter Haven, FL MSA	229	322	405	101	87	40.8	26.0
Lancaster, PA MSA	320	362	423	91	85	13.2	16.7
Lansing-East Lansing, MI MSA	378	420	433	81	83	10.9	3.1
Las Vegas, NV MSA	273	463	741	72	53	69.5	60.1
Lexington-Fayette, KY MSA	267	318	348	103	106	19.1	9.7
Little Rock-North Little Rock, AR MSA	381	474	513	71	72	24.5	8.1
Los Angeles-Anaheim-Riverside, CA CMSA	9,981	11,498	14,532	2	2	15.2	26.4
Anaheim-Santa Ana, CA PMSA	1,421	1,933	2,411	(X)	(X)	36.0	24.7
Los Angeles-Long Beach, CA PMSA	7,042	7,477	8,863	(X)	(X)	6.2	18.5
Oxnard-Ventura, CA PMSA	378	529	669	(X)	(X)	39.8	26.4
Riverside-San Bernardino, CA PMSA	1,139	1,558	2,589	(X)	(X)	36.8	66.1
Louisville, KY-IN MSA	907	956	953	38	43	5.5	-0.4
Macon-Warner Robins, GA MSA	235	264	281	122	120	12.4	6.6
Madison, WI MSA	290	324	367	100	99	11.5	13.5
McAllen-Edinburg-Mission, TX MSA	182	283	384	110	95	56.1	35.4
Melbourne-Titusville-Palm Bay, FL MSA	230	273	399	116	89	18.7	46.2
Memphis, TN-AR-MS MSA	834	913	982	40	41	9.5	7.5
Miami-Fort Lauderdale, FL CMSA	1,888	2,644	3,193	12	11	40.0	20.8
Fort Lauderdale-Hollywood-Pompano Beach, FL PMSA	620	1,018	1,255	(X)	(X)	64.2	23.3
Miami-Hialeah, FL PMSA	1,268	1,626	1,937	(X)	(X)	28.2	19.2
Milwaukee-Racine, WI CMSA	1,575	1,570	1,607	23	24	-0.3	2.4
Milwaukee, WI PMSA	1,404	1,397	1,432	(X)	(X)	-0.5	2.5
Racine, WI PMSA	171	173	175	(X)	(X)	1.3	1.1
Minneapolis-St. Paul, MN-WI MSA	1,982	2,137	2,464	17	16	7.8	15.3
Mobile, AL MSA	377	444	477	74	78	17.7	7.5
Modesto, CA MSA	195	266	371	120	97	36.7	39.3
Montgomery, AL MSA	226	273	293	117	117	20.7	7.3
Nashville, TN MSA	699	851	985	45	40	21.6	15.8
New Haven-Meriden, CT MSA	489	500	530	68	69	2.4	5.9
New London-Norwich, CT-RI MSA	243	251	267	125	126	3.4	6.4
New Orleans, LA MSA	1,100	1,257	1,239	27	32	14.3	-1.4
New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA	18,193	17,540	18,087	1	1	-3.6	3.1
Bergen-Passaic, NJ PMSA	1,358	1,293	1,278	(X)	(X)	-4.8	-1.1
Bridgeport-Milford, CT PMSA	444	439	444	(X)	(X)	-1.2	1.2
Danbury, CT PMSA	136	170	188	(X)	(X)	24.8	10.3
Jersey City, NJ PMSA	608	557	553	(X)	(X)	-8.4	-0.7
Middlesex-Somerset-Hunterdon, NJ PMSA	852	886	1,020	(X)	(X)	4.0	15.1
Monmouth-Ocean, NJ PMSA	670	849	986	(X)	(X)	26.7	16.1
Nassau-Suffolk, NY PMSA	2,556	2,606	2,609	(X)	(X)	2.0	0.1
New York, NY PMSA	9,077	8,275	8,547	(X)	(X)	-8.8	3.3
Newark, NJ PMSA	1,937	1,879	1,824	(X)	(X)	-3.0	-2.9
Norwalk, CT PMSA	128	127	127	(X)	(X)	-0.7	0.5
Orange County, NY PMSA	222	260	308	(X)	(X)	17.1	18.5
Stamford, CT PMSA	206	199	203	(X)	(X)	-3.6	1.9
Norfolk-Virginia Beach-Newport News, VA MSA	1,059	1,160	1,396	31	28	9.6	20.3
Oklahoma City, OK MSA	719	861	959	43	42	19.8	11.4

See footnotes at end of table.

**1990 Census Note:** The population counts set forth herein are subject to possible correction for undercount or overcount. The United States Department of Commerce is considering whether to correct these counts and will publish corrected counts, if any, not later than July 15, 1991.

## No. 36. Metropolitan Areas—Population: 1970 to 1990—Continued

[See headnote, p. 29]

METROPOLITAN AREA	NUMBER (1,000)			RANK		PERCENT CHANGE	
	1970	1980	1990	1980	1990	1970- 1980	1980- 1990
Omaha, NE-IA MSA	556	585	618	57	63	5.2	-5.7
Orlando, FL MSA	453	700	1,073	51	37	54.4	53.3
Pensacola, FL MSA	243	290	344	109	107	19.2	18.9
Peoria, IL MSA	342	366	339	90	108	7.0	-7.3
Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA	5,749	5,681	5,899	4	5	-1.2	3.9
Philadelphia, PA-NJ PMSA	4,824	4,717	4,857	(X)	(X)	-2.2	3.0
Trenton, NJ PMSA	304	308	326	(X)	(X)	1.2	5.8
Vineland-Millville-Bridgeton, NJ PMSA	121	133	138	(X)	(X)	9.5	3.9
Wilmington, DE-NJ-MD PMSA	499	523	579	(X)	(X)	4.8	10.6
Phoenix, AZ MSA	971	1,509	2,122	24	20	55.4	40.6
Pittsburgh-Beaver Valley, PA CMSA	2,556	2,423	2,243	13	19	5.2	-7.4
Beaver County, PA PMSA	208	204	186	(X)	(X)	-1.9	9.0
Pittsburgh, PA PMSA	2,348	2,219	2,057	(X)	(X)	-5.5	-7.3
Portland-Vancouver, OR-WA CMSA	1,047	1,298	1,478	26	27	23.9	13.9
Portland, OR PMSA	919	1,106	1,240	(X)	(X)	20.3	12.1
Vancouver, WA PMSA	128	192	238	(X)	(X)	49.6	23.8
Poughkeepsie, NY MSA	222	245	259	129	130	10.2	5.9
Providence-Pawtucket-Fall River, RI-MA CMSA	1,065	1,083	1,142	33	35	1.7	5.4
Fall River, MA-RI PMSA	152	157	157	(X)	(X)	3.2	(Z)
Pawtucket-Woonsocket-Attleboro, RI-MA PMSA	301	307	329	(X)	(X)	2.2	7.2
Providence, RI PMSA	612	619	655	(X)	(X)	1.0	5.9
Provo-Orem, UT MSA	138	218	264	134	128	58.3	20.9
Raleigh-Durham, NC MSA	446	561	735	61	54	25.7	31.2
Reading, PA MSA	296	313	337	104	109	5.4	7.7
Reno, NV MSA	121	194	255	146	132	59.9	31.5
Richmond-Petersburg, VA MSA	676	761	866	48	49	12.6	13.7
Rochester, NY MSA	962	971	1,002	37	39	1.0	3.2
Rockford, IL MSA	272	280	284	112	118	2.7	1.5
Sacramento, CA MSA	848	1,100	1,481	32	26	29.8	34.7
Saginaw-Bay City-Midland, MI MSA	401	422	399	79	88	5.2	5.3
St. Louis, MO-IL MSA	2,429	2,377	2,444	14	17	-2.2	2.8
Salem, OR MSA	187	250	278	126	122	33.9	11.3
Salinas-Seaside-Monterey, CA MSA	247	290	356	108	103	17.4	22.5
Salt Lake City-Ogden, UT MSA	684	910	1,072	41	38	33.1	17.8
San Antonio, TX MSA	888	1,072	1,302	34	30	20.7	21.5
San Diego, CA MSA	1,358	1,862	2,498	19	15	37.1	34.2
San Francisco-Oakland-San Jose, CA CMSA	4,754	5,368	6,253	5	4	12.9	16.5
Oakland, CA PMSA	1,628	1,762	2,083	(X)	(X)	8.2	18.2
San Francisco, CA PMSA	1,482	1,489	1,604	(X)	(X)	0.5	7.7
San Jose, CA PMSA	1,065	1,295	1,498	(X)	(X)	21.6	15.6
Santa Cruz, CA PMSA	124	188	230	(X)	(X)	52.0	22.1
Santa Rosa-Petaluma, CA PMSA	205	300	388	(X)	(X)	46.3	29.5
Vallejo-Fairfield-Napa, CA PMSA	251	334	451	(X)	(X)	33.2	34.9
Santa Barbara-Santa Maria-Lompoc, CA MSA	264	299	370	106	98	13.0	23.7
Sarasota, FL MSA	120	202	278	143	123	68.0	37.3
Scranton-Wilkes-Barre, PA MSA	696	729	734	49	55	4.7	0.7
Seattle-Tacoma, WA CMSA	1,837	2,093	2,559	18	14	14.0	22.3
Seattle, WA PMSA	1,425	1,608	1,973	(X)	(X)	12.8	22.7
Tacoma, WA PMSA	412	486	586	(X)	(X)	17.8	20.7
Shreveport, LA MSA	296	333	334	98	111	12.5	0.4
Spokane, WA MSA	287	342	361	96	101	18.9	5.7
Springfield, MA MSA	528	515	530	66	70	-2.4	2.8
Stockton, CA MSA	291	347	481	94	76	19.3	38.4
Syracuse, NY MSA	637	643	660	53	61	1.0	2.6
Tampa-St. Petersburg-Clearwater, FL MSA	1,106	1,614	2,068	22	21	46.0	28.2
Toledo, OH MSA	606	617	614	55	64	1.7	-0.4
Tucson, AZ MSA	352	531	667	64	60	51.1	25.5
Tulsa, OK MSA	526	657	709	52	56	25.0	7.9
Utica-Rome, NY MSA	340	320	317	102	113	6.0	1.1
Visalia-Tulare-Porterville, CA MSA	188	246	312	128	116	30.5	26.9
Washington, DC-MD-VA MSA	3,040	3,251	3,924	8	8	6.9	20.7
West Palm Beach-Boca Raton-Delray Beach, FL MSA	349	577	864	58	50	65.3	49.7
Wichita, KS MSA	417	442	485	75	75	6.2	9.7
Worcester, MA MSA	400	403	437	85	80	0.8	8.4
York, PA MSA	330	381	418	87	86	15.7	9.6
Youngstown-Warren, OH MSA	537	531	493	65	74	-1.1	7.3

**1990 Census Note:** The population counts set forth herein are subject to possible correction for undercount or overcount. The United States Department of Commerce is considering whether to correct these counts and will publish corrected counts, if any, not later than July 15, 1991.

X Not applicable. Z Less than .05 percent.

Source: U.S. Bureau of the Census, *1980 Census of Population, Supplementary Report, Metropolitan Statistical Areas*, (PC80-S1-18); and press release CB91-66.

### No. 37. Metropolitan Areas with Large Numbers of Selected Racial Groups and of Hispanic Origin Population: 1990

[As of April 1. For Black, Hispanic origin, and Asian and Pacific Islander populations, areas selected had 100,000 or more of specified group; for American Indian, Eskimo, and Aleut population, areas selected are ten areas with largest number of that group. CMSA=consolidated metropolitan statistical area. MSA=metropolitan statistical area. For definitions and components of all metropolitan statistical areas, see Appendix II]

METROPOLITAN AREA	Number of specified group (1,000)	Per- cent of total metro.	METROPOLITAN AREA	Number of specified group (1,000)	Per- cent of total metro.
<b>BLACK</b>			<b>HISPANIC ORIGIN<sup>1</sup></b>		
New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA	3,289	18.2	Los Angeles-Anaheim-Riverside, CA CMSA	4,779	32.9
Chicago-Gary-Lake County (IL), IL-IN-WI CMSA	1,548	19.2	New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA	2,778	15.4
Los Angeles-Anaheim-Riverside, CA CMSA	1,230	8.5	Miami-Fort Lauderdale, FL CMSA	1,062	33.3
Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA	1,100	18.7	San Francisco-Oakland-San Jose, CA CMSA	970	15.5
Washington, DC-MD-VA MSA	1,042	26.6	Chicago-Gary-Lake County (IL), IL-IN-WI CMSA	893	11.1
			Houston-Galveston-Brazoria, TX CMSA	772	20.8
Detroit-Ann Arbor, MI CMSA	975	20.9	San Antonio, TX MSA	620	47.6
Atlanta, GA MSA	736	26.0	Dallas-Fort Worth, TX CMSA	519	13.4
Houston-Galveston-Brazoria, TX CMSA	665	17.9	San Diego, CA MSA	511	20.4
Baltimore, MD MSA	616	25.9	El Paso, TX MSA	412	69.6
Miami-Fort Lauderdale, FL CMSA	591	18.5	Phoenix, AZ MSA	345	16.9
Dallas-Fort Worth, TX CMSA	555	14.3	McAllen-Edinburg-Mission, TX MSA	327	85.2
San Francisco-Oakland-San Jose, CA CMSA	538	8.6	Fresno, CA MSA	237	35.5
			Denver-Boulder, CO CMSA	226	12.2
Cleveland-Akron-Lorain, OH CMSA	442	16.0	Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA	226	3.8
New Orleans, LA MSA	430	34.7	Washington, DC-MD-VA MSA	225	5.7
St. Louis, MO-IL MSA	423	17.3	Brownsville-Harlingen, TX MSA	213	81.9
Memphis, TN-AR-MS MSA	399	40.6	Boston-Lawrence-Salem, MA-NH CMSA	193	4.6
Norfolk-Virginia Beach-Newport News, VA MSA	398	28.5	Corpus Christi, TX MSA	182	52.0
Richmond-Petersburg, VA MSA	252	29.2	Albuquerque, NM MSA	178	37.1
Birmingham, AL MSA	246	27.1	Sacramento, CA MSA	172	11.6
			Tucson, AZ MSA	163	24.5
Boston-Lawrence-Salem, MA-NH CMSA	239	5.7	Austin, TX MSA	160	20.5
Charlotte-Gastonia-Rock Hill, NC-SC MSA	232	19.9	Bakersfield, CA MSA	152	28.0
Milwaukee-Racine, WI CMSA	214	13.3	Tampa-St. Petersburg-Clearwater, FL MSA	139	6.7
Cincinnati-Hamilton, OH-KY-IN CMSA	204	11.7	Laredo, TX MSA	125	93.9
Kansas City, MO-KS MSA	201	12.8	Visalia-Tulare-Porterville, CA MSA	121	38.8
Tampa-St. Petersburg-Clearwater, FL MSA	186	9.0	Salinas-Seaside-Monterey, CA MSA	120	33.6
Raleigh-Durham, NC MSA	183	24.9	Stockton, CA MSA	113	23.4
			<b>ASIAN AND PACIFIC ISLANDER</b>		
Greensboro-Winston-Salem-High Point, NC MSA	182	19.3	Los Angeles-Anaheim-Riverside, CA CMSA	1,339	9.2
Jacksonville, FL MSA	181	20.0	San Francisco-Oakland-San Jose, CA CMSA	927	14.8
Pittsburgh-Beaver Valley, PA CMSA	179	8.0	New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA	873	4.8
Indianapolis, IN MSA	172	13.8	Honolulu, HI MSA	526	63.0
Jackson, MS MSA	168	42.5	Chicago-Gary-Lake County (IL), IL-IN-WI CMSA	256	3.2
Columbus, OH MSA	165	12.0	Washington, DC-MD-VA MSA	202	5.2
San Diego, CA MSA	159	6.4	San Diego, CA MSA	195	7.9
Baton Rouge, LA MSA	157	29.6	Seattle-Tacoma, WA CMSA	164	6.4
Charleston, SC MSA	153	30.2	Houston-Galveston-Brazoria, TX CMSA	132	3.6
Nashville, TN MSA	152	15.5	Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA	123	2.1
Columbia, SC MSA	138	30.4	Boston-Lawrence-Salem, MA-NH CMSA	121	2.9
Orlando, FL MSA	133	12.4	Sacramento, CA MSA	115	7.7
Mobile, AL MSA	131	27.4			
Dayton-Springfield, OH MSA	126	13.3	<b>AMERICAN INDIAN, ESKIMO, ALEUT</b>		
Louisville, KY-IN MSA	125	13.1	Los Angeles-Anaheim-Riverside, CA CMSA	87	0.6
Augusta, GA-SC MSA	123	31.1	Tulsa, OK MSA	48	6.8
Seattle-Tacoma, WA CMSA	123	4.8	New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA	46	0.3
Buffalo-Niagara Falls, NY CMSA	122	10.3	Oklahoma City, OK MSA	46	4.8
Shreveport, LA MSA	117	35.0	San Francisco-Oakland-San Jose, CA CMSA	41	0.7
Greenville-Spartanburg, SC MSA	111	17.4	Phoenix, AZ MSA	38	1.8
West Palm Beach-Boca Raton-Delray Beach, FL MSA	108	12.5	Seattle-Tacoma, WA CMSA	32	1.3
Montgomery, AL MSA	105	36.0	Minneapolis-St. Paul, MN-WI MSA	24	1.0
Sacramento, CA MSA	102	6.9	Tucson, AZ MSA	20	3.0
Little Rock-North Little Rock, AR MSA	102	19.9	San Diego, CA MSA	20	0.8
Oklahoma City, OK MSA	101	10.5			

**1990 Census Note:** The population counts set forth herein are subject to possible correction for undercount or overcount. The United States Department of Commerce is considering whether to correct these counts and will publish corrected counts, if any, not later than July 15, 1991.

<sup>1</sup> Persons of Hispanic origin may be of any race.

Source: U.S. Bureau of the Census, unpublished data.

**No. 38. 70 Largest Metropolitan Areas—Racial and Hispanic Origin Populations: 1990**

(As of April 1. Areas as defined by U.S. Office of Management and Budget, June 30, 1990. For definitions, see Appendix II)

METROPOLITAN AREA <sup>1</sup>	Total population (1,000)	PERCENT OF TOTAL METROPOLITAN POPULATION			
		Black	American Indian, Eskimo, Aleut	Asian and Pacific Islander	Hispanic origin <sup>2</sup>
New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA	18,087	18.2	0.3	4.8	15.4
Los Angeles-Anaheim-Riverside, CA CMSA	14,532	8.5	0.6	9.2	32.9
Chicago-Gary-Lake County (IL), IL-IN-WI CMSA	8,066	19.2	0.2	3.2	11.1
San Francisco-Oakland-San Jose, CA CMSA	6,253	8.6	0.7	14.8	15.5
Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA	5,899	18.7	0.2	2.1	3.8
Detroit-Ann Arbor, MI CMSA	4,665	20.9	0.4	1.5	1.9
Boston-Lawrence-Salem, MA-NH CMSA	4,172	5.7	0.2	2.9	4.6
Washington, DC-MD-VA MSA	3,924	26.6	0.3	5.2	5.7
Dallas-Fort Worth, TX CMSA	3,865	14.3	0.5	2.5	13.4
Houston-Galveston-Brazoria, TX CMSA	3,711	17.9	0.3	3.6	20.8
Miami-Fort Lauderdale, FL CMSA	3,193	18.5	0.2	1.4	33.3
Atlanta, GA MSA	2,834	26.0	0.2	1.8	2.0
Cleveland-Akron-Lorain, OH CMSA	2,760	16.0	0.2	1.0	1.9
Seattle-Tacoma, WA CMSA	2,559	4.8	1.3	6.4	3.0
San Diego, CA MSA	2,498	6.4	0.8	7.9	20.4
Minneapolis-St. Paul, MN-WI MSA	2,464	3.6	1.0	2.6	1.5
St. Louis, MO-IL MSA	2,444	17.3	0.2	1.0	1.1
Baltimore, MD MSA	2,382	25.9	0.3	1.8	1.3
Pittsburgh-Beaver Valley, PA CMSA	2,243	8.0	0.1	0.7	0.6
Phoenix, AZ MSA	2,122	3.5	1.8	1.7	16.3
Tampa-St. Petersburg-Clearwater, FL MSA	2,068	9.0	0.3	1.1	6.7
Denver-Boulder, CO CMSA	1,848	5.3	0.8	2.3	12.2
Cincinnati-Hamilton, OH-KY-IN CMSA	1,744	11.7	0.1	0.8	0.5
Milwaukee-Racine, WI CMSA	1,607	13.3	0.5	1.2	3.8
Kansas City, MO-KS MSA	1,566	12.8	0.5	1.1	2.9
Sacramento, CA MSA	1,481	6.9	1.1	7.7	11.6
Portland-Vancouver, OR-WA CMSA	1,478	2.8	0.9	3.5	3.4
Norfolk-Virginia Beach-Newport News, VA MSA	1,396	28.5	0.3	2.5	2.3
Columbus, OH MSA	1,377	12.0	0.2	1.5	0.8
San Antonio, TX MSA	1,302	6.8	0.4	1.2	47.6
Indianapolis, IN MSA	1,250	13.8	0.2	0.8	0.9
New Orleans, LA MSA	1,239	34.7	0.3	1.7	4.3
Buffalo-Niagara Falls, NY CMSA	1,189	10.3	0.6	0.9	2.0
Charlotte-Gastonia-Rock Hill, NC-SC MSA	1,162	19.9	0.4	1.0	0.9
Providence-Pawtucket-Fall River, RI-MA CMSA	1,142	3.3	0.3	1.8	4.2
Hartford-New Britain-Middletown, CT CMSA	1,086	8.7	0.2	1.5	7.0
Orlando, FL MSA	1,073	12.4	0.3	1.9	9.0
Salt Lake City-Ogden, UT MSA	1,072	1.0	0.8	2.4	5.8
Rochester, NY MSA	1,002	9.4	0.3	1.4	3.1
Nashville, TN MSA	985	15.5	0.2	1.0	0.8
Memphis, TN-AR-MS MSA	982	40.6	0.2	0.8	0.8
Oklahoma City, OK MSA	959	10.5	4.8	1.9	3.6
Louisville, KY-IN MSA	953	13.1	0.2	0.6	0.6
Dayton-Springfield, OH MSA	951	13.3	0.2	1.0	0.8
Greensboro-Winston-Salem-High Point, NC MSA	942	19.3	0.3	0.7	0.8
Birmingham, AL MSA	908	27.1	0.2	0.4	0.4
Jacksonville, FL MSA	907	20.0	0.3	1.7	2.5
Albany-Schenectady-Troy, NY MSA	874	4.7	0.2	1.2	1.8
Richmond-Petersburg, VA MSA	866	29.2	0.3	1.4	1.1
West Palm Beach-Boca Raton-Delray Beach, FL MSA	864	12.5	0.1	1.0	7.7
Honolulu, HI MSA	836	3.1	0.4	63.0	6.8
Austin, TX MSA	782	9.2	0.4	2.4	20.5
Las Vegas, NV MSA	741	9.5	0.9	3.5	11.2
Raleigh-Durham, NC MSA	735	24.9	0.3	1.9	1.2
Scranton-Wilkes-Barre, PA MSA	734	1.0	0.1	0.5	0.8
Tulsa, OK MSA	709	8.2	6.8	0.9	2.1
Grand Rapids, MI MSA	688	6.0	0.5	1.1	3.3
Allentown-Bethlehem, PA-NJ MSA	687	2.0	0.1	1.1	4.2
Fresno, CA MSA	667	5.0	1.1	8.6	35.5
Tucson, AZ MSA	667	3.1	3.0	1.8	24.5
Syracuse, NY MSA	660	5.9	0.6	1.2	1.4
Greenville-Spartanburg, SC MSA	641	17.4	0.1	0.7	0.8
Omaha, NE-IA MSA	618	8.3	0.5	1.0	2.6
Toledo, OH MSA	614	11.4	0.2	1.0	3.3
Knoxville, TN MSA	605	6.0	0.2	0.8	0.5
El Paso, TX MSA	592	3.7	0.4	1.1	69.6
Harrisburg-Lebanon-Carlisle, PA MSA	588	6.7	0.1	1.1	1.7
Bakersfield, CA MSA	543	5.5	1.3	3.0	28.0
New Haven-Meriden, CT MSA	530	12.1	0.2	1.6	6.2
Springfield, MA MSA	530	6.6	0.2	1.0	9.0

**1990 Census Note:** The population counts set forth herein are subject to possible correction for undercount or overcount. The United States Department of Commerce is considering whether to correct these counts and will publish corrected counts, if any, not later than July 15, 1991.

<sup>1</sup> Metropolitan areas are shown in rank order of total population of consolidated metropolitan statistical areas (CMSA) and metropolitan statistical areas (MSA). <sup>2</sup> Persons of Hispanic origin may be of any race.

Source: U.S. Bureau of the Census, press release CB91-66 and unpublished data.

No. 39. Cities, by Population Size: 1960 to 1988

POPULATION SIZE	NUMBER OF CITIES				POPULATION (mil.)				PERCENT OF TOTAL			
	1960	1970	1980	1988	1960	1970	1980	1988	1960	1970	1980	1988
<b>Total</b> .....	<b>18,088</b>	<b>18,666</b>	<b>19,097</b>	<b>19,252</b>	<b>115.9</b>	<b>140.3</b>	<b>152.2</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
1,000,000 or more .....	5	6	6	7	17.5	18.8	17.5	19.1	15.1	14.2	12.5	12.6
500,000-1,000,000 .....	16	20	16	17	11.1	13.0	10.9	11.5	9.6	9.8	7.8	7.6
250,000-500,000 .....	30	30	33	37	10.8	10.5	11.8	13.2	9.3	7.9	8.4	8.7
100,000-250,000 .....	79	97	114	125	11.4	13.9	16.6	18.4	9.8	10.5	11.8	12.1
50,000-100,000 .....	180	232	250	300	12.5	16.2	17.6	20.6	10.8	12.2	12.3	13.6
25,000-50,000 .....	366	455	526	575	12.7	15.7	18.4	19.9	11.0	11.9	13.1	13.1
10,000-25,000 .....	978	1,127	1,260	1,323	15.1	17.6	19.8	20.7	13.1	13.3	14.1	13.6
Under 10,000 .....	16,434	16,699	16,892	16,868	24.9	26.4	28.0	28.7	21.5	20.0	20.0	18.8

Source: U.S. Bureau of the Census, *Census of Population: 1970 and 1980*, vol. I; and *Current Population Reports*, series P-26, No. 88-(five regional reports: NE, ENC, WNC, S, and W)-SC.

No. 40. Cities With 105,000 Inhabitants or More in 1990—Population, 1970 to 1990, and Land Area, 1990

[Population: As of April 1. Data refer to municipal limits as of January 1. Minus sign (-) indicates decrease]

CITY	POPULATION										Land area, 1990 (square miles)
	1970, total (1,000)	1980, total (1,000)	1990								
			Total (1,000)	Rank	Per- cent change, 1980- 1990	Percent—				Per square mile	
						Black	Amer- ican Indian, Eskimo, Aleut	Asian, Pacific Islander	His- panic <sup>2</sup>		
Abilene, TX . . . . .	90	98	107	184	8.5	7.0	0.4	1.3	15.5	1,035	103.1
Akron, OH . . . . .	275	237	223	71	-6.0	24.5	0.3	1.2	0.7	3,586	62.2
Albuquerque, NM . . . . .	245	332	385	38	15.6	3.0	3.0	1.7	34.5	2,910	132.2
Alexandria, VA . . . . .	111	103	111	168	7.7	21.9	0.3	4.2	9.7	7,281	15.3
Allentown, PA . . . . .	110	104	105	189	1.3	5.0	0.2	1.3	11.7	5,934	17.7
Amarillo, TX . . . . .	127	149	158	111	5.6	6.0	0.8	1.9	14.7	1,793	87.9
Anaheim, CA . . . . .	166	219	266	59	21.4	2.5	0.5	9.4	31.4	6,016	44.3
Anchorage, AK <sup>4</sup> . . . . .	48	174	226	69	29.8	6.4	6.4	4.8	4.1	133	1,697.7
Ann Arbor, MI . . . . .	100	108	110	174	1.5	9.0	0.4	7.7	2.6	4,231	25.9
Arlington, VA <sup>5</sup> . . . . .	174	153	171	100	12.0	10.5	0.3	6.8	13.5	6,605	25.9
Arlington, TX . . . . .	90	160	262	61	63.5	8.4	0.5	3.9	8.9	2,814	93.0
Atlanta, GA . . . . .	495	425	394	36	7.3	67.1	0.1	0.9	1.9	2,990	131.8
Aurora, CO . . . . .	75	159	222	72	40.1	11.4	0.6	3.8	6.6	1,676	132.5
Austin, TX . . . . .	254	346	466	27	34.6	12.4	0.4	3.0	23.0	2,138	217.8
Bakersfield, CA . . . . .	70	106	175	97	65.5	9.4	1.1	3.6	20.5	1,904	91.8
Baltimore, MD . . . . .	905	787	736	12	-6.4	59.2	0.3	1.1	1.0	9,108	80.8
Baton Rouge, LA . . . . .	166	220	220	73	-0.4	43.9	0.1	1.7	1.6	2,969	74.0
Beaumont, TX . . . . .	118	118	114	159	-3.2	41.3	0.2	1.7	4.3	1,428	80.1
Birmingham, AL . . . . .	301	284	266	60	-6.5	63.3	0.1	0.6	(2)	1,791	148.5
Boise City, ID . . . . .	75	102	126	148	23.0	0.6	0.6	1.6	2.7	2,726	46.1
Boston, MA . . . . .	641	563	574	20	2.0	25.6	0.3	5.3	10.8	11,860	48.4
Bridgeport, CT . . . . .	157	143	142	125	-0.6	26.6	0.3	2.3	26.5	8,855	16.0
Buffalo, NY . . . . .	463	355	328	50	8.3	30.7	0.8	1.0	4.9	8,080	40.6
Cedar Rapids, IA . . . . .	111	110	109	178	-1.4	2.9	0.2	1.0	1.1	2,034	53.5
Charlotte, NC . . . . .	241	315	396	35	25.5	31.8	0.4	1.8	1.4	2,272	174.3
Chattanooga, TN . . . . .	120	170	152	114	-10.1	33.7	0.2	1.0	0.6	1,287	118.4
Chesapeake, VA . . . . .	90	114	152	115	32.7	27.4	0.3	1.2	1.3	446	340.7
Chicago, IL . . . . .	3,369	3,005	2,784	3	-7.4	39.1	0.3	3.7	19.6	12,251	227.2
Chula Vista, CA . . . . .	68	84	135	133	61.0	4.6	0.6	8.9	37.3	4,662	29.0
Cincinnati, OH . . . . .	454	385	364	45	-5.5	37.9	0.2	1.1	0.7	4,714	77.2
Citrus Heights, CA <sup>5</sup> . . . . .	22	86	107	183	25.1	2.3	1.1	3.3	6.9	5,513	19.5
Cleveland, OH . . . . .	751	574	506	23	-11.9	46.6	0.3	1.0	4.6	6,565	77.0
Colorado Springs, CO . . . . .	136	215	281	54	30.7	7.0	0.8	2.4	9.1	1,535	183.2
Columbus, GA . . . . .	155	169	179	93	5.5	38.1	0.3	1.4	3.0	827	216.1
Columbus, OH . . . . .	540	565	633	16	12.0	22.6	0.2	2.4	1.1	3,315	190.9
Concord, CA . . . . .	85	104	111	167	7.3	2.4	0.7	8.7	11.5	3,778	29.5
Corpus Christi, TX . . . . .	205	232	257	64	10.9	4.8	0.4	0.9	50.4	1,907	135.0
Dallas, TX . . . . .	844	905	1,007	8	11.3	29.5	0.5	2.2	20.9	2,941	342.4
Dayton, OH . . . . .	243	194	182	89	-5.9	40.4	0.2	0.6	0.7	3,310	55.0
Denver, CO . . . . .	515	493	468	26	-5.1	12.8	1.2	2.4	23.0	3,051	153.3
Des Moines, IA . . . . .	201	191	193	80	1.1	7.1	0.4	2.4	2.4	2,567	75.3
Detroit, MI . . . . .	1,514	1,203	1,028	7	-14.6	75.7	0.4	0.8	2.8	7,410	138.7
Durham, NC . . . . .	95	101	137	132	35.1	45.7	0.2	2.0	1.2	1,972	69.3
East Los Angeles, CA . . . . .	105	110	126	146	14.9	1.4	0.4	1.3	94.7	16,828	7.5
Elizabeth, NJ . . . . .	113	106	110	172	3.6	19.8	0.3	2.7	39.1	8,929	12.3
El Monte, CA . . . . .	70	79	106	186	33.6	1.0	0.6	11.8	72.5	11,180	9.5
El Paso, TX . . . . .	322	425	515	22	21.2	3.4	0.4	1.2	69.0	2,100	245.4
Erie, PA . . . . .	129	119	109	179	-8.7	12.0	0.2	0.5	2.4	4,944	22.0
Escondido, CA . . . . .	37	64	109	180	68.8	1.5	0.8	3.7	23.4	3,048	35.6
Eugene, OR . . . . .	79	106	113	163	6.6	1.3	0.9	3.5	2.7	2,962	38.0
Evansville, IN . . . . .	139	130	126	147	-3.2	9.5	0.2	0.6	0.6	3,102	40.7
Flint, MI . . . . .	193	160	141	127	-11.8	47.9	0.7	0.5	2.9	4,161	33.8
Fort Lauderdale, FL . . . . .	140	153	149	118	-2.5	28.1	0.2	0.9	7.2	4,763	31.4

**1990 Census Note:** The population counts set forth herein are subject to possible correction for undercount or overcount. The United States Department of Commerce is considering whether to correct these counts and will publish corrected counts, if any, not later than July 15, 1991.

See footnotes at end of table.

# No. 40. Cities With 105,000 Inhabitants or More in 1990—Population, 1970 to 1990, and Land Area, 1990—Continued

[See headnote, p. 34]

CITY	POPULATION										Land area, <sup>3</sup> 1990 (square miles)
	1970 total (1,000)	1980 total (1,000)	1990								
			Total (1,000)	Rank	Per- Cent change, 1980-1990	Percent—				Per square mile	
						Black	American Indian, Eskimo, Aleut	Asian, Pacific Islander	His-panic <sup>2</sup>		
Fort Wayne, IN	178	172	173	99	0.4	16.7	0.3	1.0	2.7	2,762	62.7
Fort Worth, TX	393	385	448	28	16.2	22.0	0.4	2.0	19.5	1,592	281.1
Fremont, CA	101	132	173	98	31.4	3.8	0.7	19.4	13.3	2,250	77.0
Fresno, CA	166	217	354	47	62.9	8.3	1.1	12.5	29.9	3,573	99.1
Fullerton, CA	86	102	114	160	11.6	2.2	0.5	12.2	21.3	5,160	22.1
Garden Grove, CA	121	123	143	122	16.0	1.5	0.6	20.5	23.5	7,974	17.9
Garland, TX	81	139	181	91	30.1	8.9	0.5	4.5	11.6	3,150	57.4
Gary, IN	175	152	117	158	-23.2	80.6	0.2	0.2	5.7	2,322	50.2
Glendale, AZ	36	97	148	119	52.4	3.0	0.9	2.1	15.5	2,937	52.2
Glendale, CA	133	139	180	92	29.5	1.3	0.3	14.1	21.0	5,882	30.6
Grand Rapids, MI	198	182	189	83	4.0	18.5	0.8	1.1	5.0	4,273	44.3
Greensboro, NC	144	156	184	88	17.9	33.9	0.5	1.4	1.0	2,300	79.8
Hampton, VA	121	123	134	135	9.1	38.9	0.3	1.7	2.0	2,582	51.8
Hartford, CT	158	136	140	129	2.5	38.9	0.3	1.4	31.6	8,077	17.3
Hayward, CA	93	94	111	166	19.1	9.8	1.0	15.5	23.9	2,566	43.5
Hialeah, FL	102	145	188	85	28.4	1.9	0.1	0.5	87.6	9,772	18.2
Hollywood, FL	107	121	122	152	0.3	8.5	0.2	1.3	11.9	4,464	27.3
Honolulu, HI	325	366	365	44	0.1	1.3	0.3	70.5	4.6	4,410	82.8
Houston, TX	1,234	1,595	1,631	4	2.2	28.1	0.3	4.1	27.6	3,020	539.9
Huntington Beach, CA	116	171	182	90	6.5	0.9	0.6	8.3	11.2	6,871	26.4
Huntsville, AL	139	143	160	110	12.1	24.4	0.5	2.1	1.2	972	164.4
Independence, MO	112	112	112	164	0.5	1.4	0.6	1.0	2.0	1,436	78.2
Indianapolis, IN	737	701	731	13	4.3	22.6	0.2	0.9	1.1	2,022	361.7
Inglewood, CA	90	94	110	173	16.4	51.9	0.4	2.5	38.5	11,952	9.2
Irvine, CA	(7)	62	110	171	77.6	1.8	0.2	18.1	6.3	2,607	42.3
Irving, TX	157	110	155	113	41.0	7.5	0.6	4.8	16.3	2,293	67.6
Jackson, MS	194	203	197	78	-3.1	55.7	0.1	0.5	0.4	1,804	109.0
Jacksonville, FL	504	541	635	15	17.9	25.2	0.3	1.9	2.6	837	758.7
Jersey City, NJ	260	224	229	67	2.2	29.7	0.3	11.4	24.2	15,359	14.9
Kansas City, KS	168	161	150	116	-7.1	29.3	0.7	1.2	7.1	1,389	107.8
Kansas City, MO	507	448	435	31	-2.9	29.6	0.5	1.2	3.9	1,397	311.5
Knoxville, TN	175	175	165	103	-5.7	15.8	0.2	1.0	0.7	2,137	77.3
Lakewood, CO	93	114	126	145	11.1	1.0	0.7	1.9	9.1	3,100	40.8
Lansing, MI	131	130	127	144	-2.4	18.6	1.0	1.8	7.9	3,755	33.9
Laredo, TX	69	91	123	151	34.4	0.1	0.2	0.4	93.9	3,739	32.9
Las Vegas, NV	126	165	258	63	56.9	11.4	0.9	3.6	12.5	3,101	83.3
Lexington-Fayette, KY <sup>7</sup>	108	204	225	70	10.4	13.4	0.2	1.6	1.1	792	284.5
Lincoln, NE	150	172	192	81	11.7	2.4	0.6	1.7	2.0	3,033	63.3
Little Rock, AR	132	159	176	96	10.5	34.0	0.3	0.9	0.8	1,709	102.9
Long Beach, CA	359	361	429	32	18.8	13.7	0.6	13.6	23.6	8,585	50.0
Los Angeles, CA	2,812	2,969	3,485	2	17.4	14.0	0.5	9.8	39.9	7,426	469.3
Louisville, KY	362	299	269	58	-9.9	29.7	0.2	0.7	0.7	4,332	62.1
Lubbock, TX	149	174	186	87	6.8	8.6	0.3	1.4	22.5	1,789	104.1
Macon, GA	122	117	107	185	-8.8	52.2	0.1	0.4	0.6	2,227	47.9
Madison, WI	172	171	191	82	12.1	4.2	0.4	3.9	2.0	3,311	57.8
Memphis, TN	624	646	610	18	-5.5	54.8	0.2	0.8	0.7	2,384	256.0
Mesa, AZ	63	152	288	53	89.0	1.9	1.0	1.5	10.9	2,653	108.6
Metairie, LA <sup>5</sup>	136	164	149	117	-9.0	4.9	0.2	1.8	6.2	6,424	23.3
Miami, FL	335	347	359	46	3.4	27.4	0.2	0.6	62.5	10,080	35.6
Milwaukee, WI	717	636	628	17	-1.3	30.5	0.9	1.9	6.3	6,537	96.1
Minneapolis, MN	434	371	368	42	-0.7	13.0	3.3	4.3	2.1	6,706	54.9
Mobile, AL	190	200	196	79	-2.1	38.9	0.2	1.0	1.0	1,663	118.0
Modesto, CA	62	107	165	104	54.0	2.7	1.0	7.9	16.3	5,458	30.2
Montgomery, AL	133	178	187	86	5.2	42.3	0.2	0.7	0.8	1,386	135.0
Moreno Valley, CA	(6)	(6)	119	155	(X)	13.8	0.7	6.6	22.9	2,418	49.1
Nashville-Davidson, TN	426	456	488	25	6.9	24.3	0.2	1.4	0.9	1,032	473.3
Newark, NJ	382	329	275	56	-16.4	58.5	0.2	1.2	26.1	11,554	23.8
New Haven, CT	138	126	130	140	3.5	36.1	0.3	2.4	13.2	6,922	18.9
New Orleans, LA	593	558	497	24	-10.9	61.9	0.2	1.9	3.5	2,751	180.7
Newport News, VA	138	145	170	101	17.4	33.6	0.3	2.3	2.8	2,488	68.3
New York, NY	7,896	7,072	7,323	1	3.5	26.7	0.4	7.0	24.4	23,701	309.0
Bronx Borough	1,472	1,169	1,204	(X)	(X)	37.3	0.5	3.0	43.5	28,641	42.0
Brooklyn Borough	2,602	2,231	2,301	(X)	(X)	37.9	0.3	4.8	20.1	32,620	70.5
Manhattan Borough	1,539	1,428	1,488	(X)	(X)	22.0	0.4	7.4	26.0	52,415	28.4
Queens Borough	1,987	1,891	1,952	(X)	(X)	21.7	0.4	12.2	19.5	17,839	109.4
Staten Island Borough	295	352	379	(X)	(X)	8.1	0.2	4.5	8.0	6,466	58.6
Norfolk, VA	308	267	261	62	-2.2	39.1	0.4	2.6	2.9	4,859	53.8
Oakland, CA	362	339	372	39	9.7	43.9	0.6	14.8	13.9	6,640	56.1
Oceanside, CA	40	77	128	143	67.4	7.9	0.7	6.1	22.6	3,157	40.7
Oklahoma City, OK	368	404	445	29	10.1	16.0	4.2	2.4	5.0	731	608.2
Omaha, NE	347	314	336	48	7.0	13.1	0.7	1.0	3.1	3,336	100.7
Ontario, CA	64	89	133	136	49.9	7.3	0.7	3.9	41.7	3,624	36.8
Orange, CA	77	91	111	169	21.0	1.4	0.5	7.9	22.8	4,741	23.3

**1990 Census Note:** The population counts set forth herein are subject to possible correction for undercount or overcount. The United States Department of Commerce is considering whether to correct these counts and will publish corrected counts, if any, not later than July 15, 1991.

See footnotes at end of table.

### No. 40. Cities With 105,000 Inhabitants or More in 1990—Population, 1970 to 1990, and Land Area, 1990—Continued

[See headnote, p.34]

CITY	POPULATION										Land area, 1990 (square miles)
	1970, total (1,000)	1980, total (1,000)	1990								
			Total (1,000)	Rank	Per- cent change, 1980- 1990	Percent—				Per square mile	
						Black	Amer- ican Indian, Eskimo, Aleut	Asian, Pacific Islander	His- panic <sup>2</sup>		
Orange, CA	77	91	111	169	21.0	1.4	0.5	7.9	22.8	4,741	23.3
Orlando, FL	99	128	165	105	28.4	26.9	0.3	1.6	8.7	2,448	67.3
Overland Park, KS	78	82	112	165	36.7	1.8	0.3	1.9	2.0	2,007	55.7
Oxnard, CA	71	108	142	123	31.4	5.2	0.8	8.6	54.4	5,819	24.4
Paradise, NV <sup>5</sup>	24	85	125	150	47.0	4.9	0.6	4.0	10.5	2,616	47.7
Pasadena, CA	113	118	132	139	11.4	19.0	0.4	8.1	27.3	5,724	23.0
Pasadena, TX	90	113	119	154	6.0	1.0	0.5	1.6	28.8	2,727	43.8
Paterson, NJ	145	138	141	126	2.1	36.0	0.3	1.4	41.0	16,693	8.4
Peoria, IL	127	124	114	161	-8.6	20.9	0.2	1.7	1.6	2,776	40.9
Philadelphia, PA	1,949	1,688	1,586	5	-6.1	39.9	0.2	2.7	5.6	11,734	135.1
Phoenix, AZ	584	790	983	9	24.5	5.2	1.9	1.7	20.0	2,342	419.9
Pittsburgh, PA	520	424	370	40	-12.8	25.8	0.2	1.6	0.9	6,649	55.6
Piano, TX	18	72	129	142	77.9	4.1	0.3	4.0	6.2	1,943	66.3
Pomona, CA	87	93	132	138	42.0	14.4	0.6	6.7	51.3	5,770	22.8
Portland, OR	380	368	437	30	18.8	7.7	1.2	5.3	3.2	3,508	124.7
Providence, RI	179	157	161	108	2.5	14.8	0.9	5.9	15.5	8,707	18.5
Raleigh, NC	123	150	208	75	38.4	27.6	0.3	2.5	1.4	2,360	88.1
Reno, NV	73	101	134	134	32.8	2.9	1.4	4.9	11.1	2,328	57.5
Richmond, VA	249	219	203	76	-7.4	55.2	0.2	0.9	0.9	3,377	60.1
Riverside, CA	140	171	227	68	32.8	7.4	0.8	5.2	26.0	2,916	77.7
Rochester, NY	295	242	232	66	-4.2	31.5	0.5	1.8	8.7	6,474	35.8
Rockford, IL	147	140	139	130	-0.2	15.0	0.3	1.5	4.2	3,100	45.0
Sacramento, CA	257	276	369	41	34.0	15.3	1.2	15.0	16.2	3,836	96.3
St. Louis, MO	622	453	397	34	-12.4	47.5	0.2	0.9	1.3	6,405	61.9
St. Paul, MN	310	270	272	57	0.7	7.4	1.4	7.1	4.2	5,157	52.8
St. Petersburg, FL	216	239	239	65	0.0	19.6	0.2	1.7	2.6	4,032	59.2
Salem, OR	69	89	108	182	21.0	1.5	1.6	2.4	6.1	2,595	41.5
Salinas, CA	59	80	109	177	35.2	3.0	0.9	8.1	50.6	5,839	18.6
Salt Lake City, UT	176	163	160	109	-1.9	1.7	1.6	4.7	9.7	1,467	109.0
San Antonio, TX	654	786	936	10	19.1	7.0	0.4	1.1	55.6	2,810	333.0
San Bernardino, CA	107	119	164	106	38.2	16.0	1.0	4.0	34.6	2,980	55.1
San Diego, CA	697	876	1,111	6	26.8	10.9	0.4	0.6	11.8	3,428	324.0
San Francisco, CA	716	679	724	14	6.6	9.4	0.5	29.1	13.9	15,502	46.7
San Jose, CA	460	629	782	11	24.3	4.7	0.7	19.5	26.6	4,568	171.3
Santa Ana, CA	156	204	294	52	44.0	2.6	0.5	9.7	65.2	10,843	27.1
Santa Clarita, CA	(6)	(6)	111	170	(X)	1.5	0.6	4.2	13.4	2,733	40.5
Santa Rosa, CA	50	83	113	162	37.1	1.8	1.2	3.4	9.5	3,362	33.7
Savannah, GA	118	142	138	131	-2.9	51.3	0.2	1.1	1.4	2,198	62.6
Scottsdale, AZ	68	89	130	141	46.8	0.8	0.6	1.2	4.8	706	184.4
Seattle, WA	531	494	516	21	4.5	10.1	1.4	11.8	3.6	6,154	83.9
Shreveport, LA	182	206	199	77	-4.1	44.8	0.2	0.5	1.1	2,013	98.6
South Bend, IN	126	110	106	187	-3.8	20.9	0.4	0.9	3.4	2,897	36.4
Spokane, WA	171	171	177	94	3.4	1.9	2.0	2.1	2.1	3,169	55.9
Springfield, IL	92	100	105	188	5.2	13.0	0.2	1.0	0.8	2,474	42.5
Springfield, MA	164	152	157	112	3.1	19.2	0.2	1.0	16.9	4,890	32.1
Springfield, MO	120	133	140	128	5.5	2.5	0.7	0.9	1.0	2,068	68.0
Stamford, CT	109	102	108	181	5.5	17.8	0.1	2.6	9.8	2,865	37.7
Sterling Heights, MI	61	109	118	156	8.1	0.4	0.2	2.9	1.1	3,215	36.6
Stockton, CA	110	150	211	74	42.3	9.6	1.0	22.8	25.0	4,013	52.6
Sunnyvale, CA	96	107	117	157	10.0	3.4	0.5	19.3	13.2	5,353	21.9
Syracuse, NY	197	170	164	107	-3.7	20.3	1.3	2.2	2.9	6,528	25.1
Tacoma, WA	154	159	177	95	11.5	11.4	2.0	6.9	3.8	3,677	48.1
Tallahassee, FL	73	82	125	149	53.0	29.1	0.2	1.8	3.0	1,972	63.3
Tampa, FL	278	272	280	55	3.1	25.0	0.3	1.4	15.0	2,577	108.7
Tempe, AZ	64	107	142	124	32.7	3.2	1.3	4.1	10.9	3,590	39.5
Toledo, OH	383	355	333	49	-6.1	19.7	0.3	1.0	4.0	4,132	80.6
Topeka, KS	125	119	120	153	1.0	10.6	1.3	0.8	5.8	2,173	55.2
Torrance, CA	135	130	133	137	2.5	1.5	0.4	21.9	10.1	6,487	20.5
Tucson, AZ	263	331	405	33	22.6	4.3	1.6	2.2	29.3	2,594	156.3
Tulsa, OK	330	361	367	43	1.8	13.6	4.7	1.4	2.6	2,001	183.5
Vallejo, CA	72	80	109	175	36.0	21.2	0.7	23.0	10.8	3,613	30.2
Virginia Beach, VA	172	262	393	37	49.9	13.9	0.4	4.3	3.1	1,583	248.3
Warren, MI	179	161	145	120	-10.1	0.7	0.5	1.3	1.1	4,226	34.3
Washington, DC	757	638	607	19	-4.9	65.8	0.2	1.8	5.4	9,883	61.4
Waterbury, CT	108	103	109	176	5.5	13.0	0.3	0.7	13.4	3,815	28.6
Wichita, KS	277	280	304	51	8.6	11.3	1.2	2.6	5.0	2,640	115.1
Winston-Salem, NC	134	132	143	121	8.8	39.3	0.2	0.8	0.9	2,018	71.1
Worcester, MA	177	162	170	102	4.9	4.5	0.3	2.8	9.6	4,520	37.6
Yonkers, NY	204	195	188	84	-3.7	14.1	0.2	3.0	16.7	10,403	18.1

**1990 Census Note:** The population counts set forth herein are subject to possible correction for undercount or overcount. The United States Department of Commerce is considering whether to correct these counts and will publish corrected counts, if any, not later than July 15, 1991.

X Not applicable. <sup>2</sup> Less than .05 percent. <sup>1</sup> Population totals include corrections made after tabulations were completed. <sup>2</sup> Hispanic persons may be of any race. <sup>3</sup> As of January 1. <sup>4</sup> Anchorage city consolidated with Anchorage Borough September 15, 1975. <sup>5</sup> Data represent the census designated place as delineated by State and local authorities. <sup>6</sup> Not incorporated. <sup>7</sup> Lexington and Fayette County consolidated January 1, 1974.

Source: U.S. Bureau of the Census, *Census of Population: 1970*, vol. I, chapters A and B; *1980 Census of Population*, vol. 1, chapters A and B; press release CB91-24; and unpublished data.



### No. 41. Population 65 Years Old and Over, by Age Group and Sex, 1960 to 1989, and Projections, 2000

[As of July 1. Includes Armed Forces overseas. Projections are for middle series (series 14); for assumptions, see table 16. These projections were prepared prior to the release of 1990 census results and are therefore not based on 1990 census data. For explanation of methodology, see text, section 1]

AGE GROUP AND SEX	NUMBER (1,000)					PERCENT DISTRIBUTION				
	1960	1970	1980	1989	2000, proj.	1960	1970	1980	1989	2000, proj.
<b>Persons 65 yrs. and over . . . . .</b>	<b>16,675</b>	<b>20,107</b>	<b>25,704</b>	<b>30,984</b>	<b>34,882</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
65-69 years old . . . . .	6,280	7,026	8,812	10,170	9,491	37.7	34.9	34.3	32.8	27.2
70-74 years old . . . . .	4,773	5,467	6,841	8,012	8,752	28.6	27.2	26.6	25.9	25.1
75-79 years old . . . . .	3,080	3,671	4,828	6,033	7,282	18.5	19.3	18.8	19.5	20.9
80-84 years old . . . . .	1,601	2,312	2,954	3,728	4,735	9.6	11.5	11.5	12.0	13.6
85 years old and over . . . . .	940	1,430	2,269	3,042	4,622	5.6	7.1	8.8	9.8	13.2
<b>Males, 65 yrs. and over . . . . .</b>	<b>7,542</b>	<b>8,413</b>	<b>10,366</b>	<b>12,636</b>	<b>14,273</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
65-69 years old . . . . .	2,936	3,139	3,919	4,631	4,382	38.9	37.3	37.8	36.7	30.7
70-74 years old . . . . .	2,197	2,322	2,873	3,464	3,860	29.1	27.6	27.7	27.4	27.0
75-79 years old . . . . .	1,370	1,573	1,862	2,385	2,971	18.2	18.7	18.0	18.9	20.8
80-84 years old . . . . .	673	883	1,026	1,306	1,739	8.9	10.5	9.9	10.3	12.2
85 years old and over . . . . .	366	496	688	850	1,322	4.9	5.9	6.6	6.7	9.3
<b>Females, 65 yrs. and over . . . . .</b>	<b>9,133</b>	<b>11,693</b>	<b>15,338</b>	<b>18,348</b>	<b>20,608</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
65-69 years old . . . . .	3,344	3,887	4,894	5,538	5,109	36.6	33.2	31.9	30.2	24.8
70-74 years old . . . . .	2,577	3,145	3,968	4,549	4,892	28.2	28.9	25.9	24.8	23.7
75-79 years old . . . . .	1,711	2,298	2,966	3,648	4,311	18.7	19.7	19.3	19.9	20.9
80-84 years old . . . . .	928	1,429	1,928	2,422	2,996	10.2	12.2	12.6	13.2	14.5
85 years old and over . . . . .	574	934	1,582	2,192	3,300	6.3	8.0	10.3	11.9	16.0

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-25, Nos. 519, 917, 1018, and 1057.

### No. 42. Persons 65 Years Old and Over—Characteristics, by Sex: 1970 to 1989

[As of March, except as noted. Covers civilian noninstitutional population, except 1970 includes institutional population. See headnote, table 43]

CHARACTERISTIC	TOTAL				MALE				FEMALE			
	1970	1980	1985	1989	1970	1980	1985	1989	1970	1980	1985	1989
<b>Total <sup>1</sup> (million) . . . . .</b>	<b>19.9</b>	<b>24.2</b>	<b>26.8</b>	<b>29.0</b>	<b>8.3</b>	<b>9.9</b>	<b>11.0</b>	<b>12.1</b>	<b>11.5</b>	<b>14.2</b>	<b>15.8</b>	<b>16.9</b>
White (million) . . . . .	18.2	21.9	24.2	26.0	7.6	9.0	9.9	10.8	10.6	12.9	14.3	15.2
Black (million) . . . . .	1.5	2.0	2.2	2.4	0.7	0.8	0.9	1.0	0.9	1.2	1.3	1.5
Percent below poverty level: <sup>2</sup>												
Family householders <sup>3</sup> . . . . .	17.6	9.1	7.3	6.6	16.6	8.4	6.0	5.4	23.5	13.0	13.0	13.9
Unrelated individuals . . . . .	47.3	29.3	24.2	24.1	40.0	25.3	20.8	19.5	49.9	30.5	25.9	25.5
<b>PERCENT DISTRIBUTION</b>												
<b>Marital status:</b>												
Single . . . . .	7.6	5.5	5.2	4.9	7.5	4.9	5.3	4.7	7.7	5.9	5.1	5.0
Married . . . . .	51.3	55.4	55.2	56.4	73.1	78.0	77.2	77.0	35.6	39.5	39.9	41.7
Spouse present . . . . .	49.0	53.6	53.4	54.3	69.9	76.1	75.0	74.3	33.9	37.9	38.3	40.1
Spouse absent . . . . .	2.3	1.8	1.8	2.1	3.2	1.9	2.2	2.7	1.7	1.7	1.6	1.6
Widowed . . . . .	38.8	35.7	35.6	34.3	17.1	13.5	13.8	14.0	54.4	51.2	50.7	48.7
Divorced . . . . .	2.3	3.5	4.0	4.4	2.3	3.6	3.7	4.3	2.3	3.4	4.3	4.5
<b>Family status:</b> <sup>4</sup>												
In families . . . . .	67.1	67.6	67.3	67.4	79.2	83.0	82.4	82.0	58.5	56.8	56.7	57.0
Nonfamily householders . . . . .	26.6	31.2	31.1	31.3	14.9	15.7	15.4	16.6	35.2	42.0	42.1	41.8
Secondary individuals . . . . .	2.1	1.2	1.6	1.3	2.4	1.3	2.2	1.4	1.9	1.1	1.1	1.2
Residents of institutions . . . . .	4.1	(NA)	(NA)	(NA)	3.6	(NA)	(NA)	(NA)	4.4	(NA)	(NA)	(NA)
<b>Living arrangements:</b>												
Living in household . . . . .	95.2	99.8	99.6	99.7	95.5	99.9	99.5	99.7	95.0	99.7	99.6	99.6
Living alone . . . . .	25.5	30.3	30.2	30.5	14.1	14.9	14.7	15.9	33.8	41.0	41.1	40.9
Spouse present . . . . .	49.0	53.6	53.4	54.3	69.9	76.1	75.0	74.3	33.9	37.9	38.3	40.1
Living with someone else . . . . .	20.7	15.9	15.9	14.8	11.5	8.9	9.8	9.5	27.4	20.8	20.2	18.6
Not in household <sup>5</sup> . . . . .	4.8	0.2	0.4	0.3	4.5	0.1	0.5	0.3	5.0	0.3	0.4	0.4
<b>Years of school completed:</b>												
8 years or less . . . . .	58.3	43.1	35.4	<sup>6</sup> 30.5	61.5	45.3	37.2	<sup>6</sup> 31.7	56.1	41.6	34.1	<sup>6</sup> 29.7
1-3 years of high school . . . . .	13.4	16.2	16.5	<sup>6</sup> 15.7	12.6	15.5	15.7	<sup>6</sup> 15.6	13.9	16.7	17.0	<sup>6</sup> 15.8
4 years of high school . . . . .	15.7	24.0	29.0	<sup>6</sup> 33.0	12.5	21.4	26.4	<sup>6</sup> 29.4	18.1	25.8	30.7	<sup>6</sup> 35.5
1-3 years of college . . . . .	6.2	8.2	9.8	<sup>6</sup> 10.2	5.6	7.5	9.1	<sup>6</sup> 9.8	6.7	8.6	10.3	<sup>6</sup> 10.5
4 years or more of college . . . . .	6.3	8.6	9.4	<sup>6</sup> 10.6	7.9	10.3	11.5	<sup>6</sup> 13.5	5.2	7.4	8.0	<sup>6</sup> 8.5
<b>Labor force participation:</b> <sup>7</sup>												
Employed . . . . .	16.4	12.2	10.4	11.5	25.9	18.4	15.3	16.2	9.4	7.8	7.0	8.1
Unemployed . . . . .	0.5	0.4	0.3	0.3	0.9	0.6	0.5	0.4	0.3	0.3	0.2	0.2
Not in labor force . . . . .	83.0	87.5	89.2	88.2	73.2	81.0	84.2	83.4	90.3	91.9	92.7	91.6

NA Not available. <sup>1</sup> Includes other races, not shown separately. <sup>2</sup> Poverty status based on income in preceding year. <sup>3</sup> "Male" refers to married couples plus other families with a male householder. "Female" refers to female householder, no spouse present. <sup>4</sup> Beginning 1980, excludes those living in unrelated subfamilies. <sup>5</sup> In institutions (1970) and other group quarters. <sup>6</sup> Data for 1988. <sup>7</sup> Annual averages of monthly figures. Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, January issues.

Source: Except as noted, U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 445 and earlier reports; series P-23, No. 59; and series P-60, No. 166 and earlier reports; and unpublished data.

### No. 43. Social and Economic Characteristics of the White and Black Populations: 1980 and 1989

[As of March, except labor force status, annual average. Excludes members of Armed Forces except those living off post or with their families on post. Based on Current Population Survey; see text, section 1, and Appendix III]

CHARACTERISTIC	ALL RACES <sup>1</sup>				WHITE				BLACK			
	Number (1,000)		Percent distribution		Number (1,000)		Percent distribution		Number (1,000)		Percent distribution	
	1980	1989	1980	1989	1980	1989	1980	1989	1980	1989	1980	1989
<b>Total persons</b> . . . . .	223,160	243,685	100.0	100.0	191,905	205,333	100.0	100.0	26,033	29,904	100.0	100.0
Under 5 years old . . . . .	16,319	18,624	7.3	7.6	13,307	15,032	6.9	7.3	2,444	2,816	9.4	9.4
5-14 years old . . . . .	34,979	35,010	15.7	14.4	28,828	28,036	15.0	13.7	5,190	5,493	19.9	18.4
15-44 years old . . . . .	103,493	115,008	46.4	47.2	88,570	96,319	46.2	46.9	12,247	14,490	47.0	48.5
45-64 years old . . . . .	44,174	46,021	19.8	18.9	39,302	39,945	20.5	19.5	4,112	4,670	15.8	15.6
65 years old and over . . . . .	24,194	29,022	10.8	11.9	21,898	26,001	11.4	12.7	2,040	2,436	7.8	8.1
<b>YEARS OF SCHOOL COMPLETED</b>												
<b>Persons 25 years old and over</b> . . . . .	130,409	154,155	100.0	100.0	114,763	132,903	100.0	100.0	12,927	16,395	100.0	100.0
Elementary: 0-8 years . . . . .	22,817	17,922	17.5	11.6	18,739	14,295	16.3	10.8	3,559	2,839	27.5	17.3
High school: 1-3 years . . . . .	18,086	17,719	13.9	11.5	15,064	14,388	13.1	10.8	2,748	2,960	21.3	18.1
4 years . . . . .	47,934	59,336	36.8	38.5	43,149	52,010	37.6	39.1	3,980	5,988	30.8	36.5
College: 1-3 years . . . . .	19,379	26,613	14.9	17.3	17,350	23,234	15.1	17.5	1,618	2,679	12.5	16.3
4 years or more . . . . .	22,193	32,565	17.0	21.1	20,460	28,976	17.8	21.8	1,024	1,929	7.9	11.8
<b>LABOR FORCE STATUS <sup>2</sup></b>												
<b>Civilians 16 years old and over</b> . . . . .	167,745	186,393	100.0	100.0	146,122	159,338	100.0	100.0	17,824	21,021	100.0	100.0
Civilian labor force . . . . .	106,940	123,869	63.8	66.5	93,600	106,355	64.1	66.7	10,865	13,497	61.0	64.2
Employed . . . . .	99,303	117,342	59.2	63.0	87,715	101,584	60.0	63.8	9,313	11,953	52.2	56.9
Unemployed . . . . .	7,637	6,528	4.6	3.5	5,884	4,770	4.0	3.0	1,553	1,544	8.7	7.3
Unemployment rate <sup>3</sup> . . . . .	7.1	5.3	(X)	(X)	6.3	4.5	(X)	(X)	14.3	11.4	(X)	(X)
Not in labor force . . . . .	60,806	62,523	36.2	33.5	52,523	52,983	35.9	33.3	6,959	7,524	39.0	35.8
<b>FAMILY TYPE</b>												
<b>Total families</b> . . . . .	59,550	65,837	100.0	100.0	52,243	56,492	100.0	100.0	6,184	7,409	100.0	100.0
With own children <sup>4</sup> . . . . .	31,022	32,322	52.1	49.1	26,474	26,805	50.7	47.4	3,820	4,332	61.8	58.5
Married couple . . . . .	49,112	52,100	82.5	79.1	44,751	46,877	85.7	83.0	3,433	3,722	55.5	50.2
With own children <sup>4</sup> . . . . .	24,961	24,735	41.9	37.8	22,415	21,809	42.9	38.6	1,927	1,969	31.2	26.6
Female householder, no spouse present . . . . .	8,705	10,890	14.6	16.5	6,052	7,342	11.6	13.0	2,495	3,223	40.3	43.5
With own children <sup>4</sup> . . . . .	5,445	6,519	9.1	9.9	3,558	4,141	6.8	7.3	1,793	2,170	29.0	29.3
Male householder, no spouse present . . . . .	1,733	2,847	2.9	4.3	1,441	2,274	2.8	4.0	256	464	4.1	6.3
With own children <sup>4</sup> . . . . .	616	1,068	1.0	1.6	500	855	1.0	1.5	99	192	1.6	2.6
<b>FAMILY INCOME IN PREVIOUS YEAR IN CONSTANT (1988) DOLLARS</b>												
<b>Total families</b> . . . . .	59,550	65,837	100.0	100.0	52,243	56,492	100.0	100.0	6,184	7,409	100.0	100.0
Less than \$5,000 . . . . .	1,787	2,639	3.0	4.0	1,202	1,671	2.3	3.0	583	884	9.1	11.9
\$5,000-\$9,999 . . . . .	4,049	4,446	6.8	6.8	2,926	3,128	5.6	5.5	1,051	1,144	17.0	15.4
\$10,000-\$14,999 . . . . .	5,181	5,785	8.7	8.8	4,179	4,573	8.0	8.1	915	1,008	14.8	13.6
\$15,000-\$24,999 . . . . .	11,374	11,750	19.1	17.9	9,822	9,977	18.8	17.7	1,342	1,462	21.7	19.7
\$25,000-\$34,999 . . . . .	11,076	11,094	18.6	16.9	9,978	9,837	19.1	17.4	909	984	14.7	13.4
\$35,000-\$49,999 . . . . .	13,260	13,196	22.3	20.0	12,225	11,850	23.4	21.0	853	983	13.8	13.3
\$50,000 or more . . . . .	12,803	16,925	21.5	25.7	11,911	15,455	22.8	27.4	550	936	8.9	12.6
Median income (dol.) <sup>5</sup> . . . . .	31,917	32,191	(X)	(X)	33,305	33,915	(X)	(X)	18,860	19,329	(X)	(X)
<b>POVERTY <sup>6</sup></b>												
Families below poverty level . . . . .	5,461	6,874	9.2	10.4	3,581	4,471	6.9	7.9	1,722	2,089	27.8	28.2
Persons below poverty level . . . . .	26,072	31,745	11.7	13.0	17,214	20,715	9.0	10.1	8,050	9,356	31.0	31.3
<b>HOUSING TENURE</b>												
<b>Total occupied units</b> . . . . .	80,776	92,830	100.0	100.0	70,766	79,734	100.0	100.0	6,586	10,561	100.0	100.0
Owner-occupied . . . . .	54,891	59,419	68.0	64.0	49,913	53,737	70.5	67.4	4,173	4,417	48.6	41.8
Renter-occupied . . . . .	24,421	31,740	30.2	34.2	19,581	24,573	27.7	30.8	4,257	5,961	49.6	56.4
No cash rent . . . . .	1,464	1,671	1.8	1.8	1,272	1,425	1.8	1.8	156	184	1.8	1.7

X Not applicable. <sup>1</sup> Includes other races not shown separately. <sup>2</sup> Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, January issues. <sup>3</sup> Total unemployment as percent of civilian labor force. <sup>4</sup> Children under 18 years old. <sup>5</sup> For definition of median, see Guide to Tabular Presentation. <sup>6</sup> For explanation of poverty level, see text, section 14.

Source: Except as noted, U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 441 and series P-60, No. 162 and 166.

No. 44. Social and Economic Characteristics of the Asian, Pacific Islander, American Indian, Eskimo, and Aleut Populations: 1980

[In percent, except as indicated. As of April 1. Based on a sample from the 1980 Census of Population; see text, section 1, and Appendix III]

CHARACTERISTIC	Total population	ASIAN AND PACIFIC ISLANDER										AMERICAN INDIAN, ESKIMO, AND ALEUT		
		Total	Asian						Pacific Islander			Total	American Indian	
			Total <sup>2</sup>	Chinese	Filipino	Japanese	Asian Indian	Korean	Vietnamese	Total <sup>3</sup>	Hawaiian			Guamanian
Total (1,000)	226,546	3,726	812	782	716	387	357	245	260	172	31	40	1,534	1,479
Age:														
Under 5 years old	7.2	8.6	7.1	9.0	5.2	11.1	10.6	10.0	10.8	10.0	9.1	14.1	10.1	10.1
5-14 years old	15.4	16.8	14.0	18.1	11.3	16.0	21.7	24.8	20.4	19.2	19.9	25.7	20.8	20.8
15-24 years old	18.7	17.3	18.9	15.9	17.4	17.3	15.8	23.2	23.1	22.5	26.6	22.5	22.4	22.3
25-34 years old	16.4	21.5	21.8	20.9	18.9	25.5	21.0	21.6	17.4	16.4	21.7	18.9	16.9	16.9
35-44 years old	11.3	14.2	14.4	12.9	15.5	12.8	18.1	10.4	11.3	10.4	11.1	10.4	11.1	11.1
45-54 years old	19.7	15.7	15.9	18.1	13.5	27.0	10.1	8.0	12.6	14.7	9.7	8.4	13.4	13.5
55-64 years old	6.9	3.8	4.6	5.2	4.2	3.9	1.8	1.4	4.4	3.7	1.6	1.3	3.4	3.4
65-74 years old	4.4	2.1	2.3	2.0	3.1	4.1	0.8	0.5	4.4	1.9	0.8	0.7	1.8	1.8
75 years old and over	6.2	58.6	62.1	64.7	28.4	70.4	81.9	90.5	11.8	1.6	9.5	35.6	2.5	2.5
Percent foreign born														
Years of school completed:														
Persons 25 years old and over (1,000)	132,836	2,137	495	446	473	238	185	103	119	83	14	15	715	691
Less than 5 years of school	3.6	6.4	10.3	7.0	2.3	3.1	4.0	10.3	(NA)	3.2	4.9	5.9	8.4	8.1
4 years of high school or more	66.5	74.8	71.3	74.2	81.6	80.1	78.1	62.2	67.2	68.4	67.9	61.2	55.5	55.8
4 or more years of college	16.2	32.9	36.6	37.0	26.4	51.9	33.7	12.9	9.3	9.6	8.2	7.3	7.7	7.7
Labor force status:														
Civilian labor force (1,000)	104,450	1,773	415	390	395	181	149	98	105	74	13	12	584	567
Percent unemployed <sup>4</sup>	6.5	4.7	3.6	4.8	3.0	5.8	5.7	8.2	7.3	7.0	6.8	9.7	13.2	13.0
Family type and size:														
Total families (1,000)	59,190	818	765	168	168	98	67	42	53	36	7	7	341	331
Married couple	82.8	84.4	85.1	86.6	84.1	91.0	86.0	72.8	75.4	73.2	79.6	78.0	71.8	71.9
Female householder, no spouse present	13.9	10.8	10.2	11.8	11.9	5.7	10.8	14.8	19.4	21.3	14.7	18.2	22.7	22.7
Male householder, no spouse present	3.4	4.8	4.7	4.6	4.0	3.4	3.2	12.4	5.2	5.5	5.8	3.8	5.5	5.4
Average size of family <sup>5</sup>	3.27	3.98	3.65	4.20	3.59	3.45	4.88	5.16	4.25	4.10	3.94	5.16	3.83	3.82
Family income, 1979:														
Median income (dol.) <sup>6</sup>	19,917	22,713	23,085	23,687	27,354	24,993	20,459	12,840	17,984	19,196	18,218	14,242	13,724	13,678
Families below poverty level (1,000) <sup>7</sup>	5,670	87	79	10	7	7	9	15	8	5	1	2	81	79
Percent below poverty level	9.6	10.7	10.3	6.2	4.2	7.4	13.1	35.1	16.1	14.3	11.6	27.5	23.7	23.7

NA Not available. <sup>1</sup> Includes other races, not shown separately. <sup>2</sup> Includes all other Asians not shown separately. <sup>3</sup> Includes all other Pacific islanders not shown separately. <sup>4</sup> Total unemployment as percent of civilian labor force. <sup>5</sup> Refers only to Asian and Pacific Islander persons in primary families with an Asian and Pacific Islander householder. <sup>6</sup> For definition of median, see Guide to Tabular Presentation. <sup>7</sup> For explanation of poverty, see text, section 14.

Source: U.S. Bureau of the Census, 1980 Census of Population, vol. 1, chapter C (PC80-1-C) and vol. 2, chapter 1E (PC80-2-1E).

**No. 45. Social and Economic Characteristics of the Hispanic Population: 1989**

[As of March, except labor force status, annual average. Excludes members of the Armed Forces except those living off post or with their families on post. Based on Current Population Survey; see text, section 1, and Appendix III]

CHARACTERISTIC	NUMBER (1,000)						PERCENT DISTRIBUTION					
	Hispanic, total	Mexican	Puerto Rican	Cuban	Central and South American	Other Hispanic	Hispanic, total	Mexican	Puerto Rican	Cuban	Central and South American	Other Hispanic
<b>Total persons</b> . . . . .	<b>20,076</b>	<b>12,565</b>	<b>2,331</b>	<b>1,069</b>	<b>2,544</b>	<b>1,568</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Under 5 years old . . . . .	2,139	1,460	260	48	232	140	10.7	11.6	11.2	4.5	9.1	8.9
5 to 14 years old . . . . .	3,880	2,785	434	94	332	235	19.3	22.2	18.6	8.8	13.1	15.0
15 to 44 years old . . . . .	10,257	6,348	1,154	456	1,537	760	51.1	50.5	49.5	42.7	60.4	48.5
45 to 64 years old . . . . .	2,796	1,495	372	288	359	281	13.9	11.9	16.0	26.9	14.1	17.9
65 years old and over . . . . .	1,004	477	111	163	84	152	5.0	3.8	4.8	17.1	3.3	9.7
<b>YEARS OF SCHOOL COMPLETED</b>												
<b>Persons 25 years old and over</b> . . . . .	<b>10,438</b>	<b>5,931</b>	<b>1,252</b>	<b>790</b>	<b>1,488</b>	<b>977</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Elementary: 0 to 8 years . . . . .	3,589	2,462	364	211	340	212	34.4	41.5	29.1	26.7	22.9	21.7
High school: 1 to 3 years . . . . .	1,539	938	212	81	166	142	14.7	15.8	16.9	10.3	11.1	14.6
4 years . . . . .	2,907	1,542	365	222	459	319	27.9	26.0	29.2	28.0	30.8	32.7
College: 1 to 3 years . . . . .	1,373	624	189	120	263	177	13.2	10.5	15.1	15.1	17.7	18.2
4 years or more . . . . .	1,029	364	122	157	261	126	9.9	6.1	9.8	19.8	17.5	12.9
<b>LABOR FORCE STATUS <sup>1</sup></b>												
<b>Civilians 16 years old and over</b> . . . . .	<b>13,791</b>	<b>8,295</b>	<b>1,545</b>	<b>886</b>	<b>(NA)</b>	<b>(NA)</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Civilian labor force . . . . .	9,323	5,740	889	562	(NA)	(NA)	67.6	69.2	57.5	63.4	(NA)	(NA)
Employed . . . . .	8,573	5,247	803	531	(NA)	(NA)	62.2	63.3	52.0	59.9	(NA)	(NA)
Unemployed . . . . .	750	493	86	31	(NA)	(NA)	5.4	5.9	5.6	3.5	(NA)	(NA)
Unemployment rate <sup>2</sup> . . . . .	8.0	8.6	9.6	5.6	(NA)	(NA)	(X)	(X)	(X)	(X)	(X)	(X)
Not in labor force . . . . .	4,468	2,555	656	324	(NA)	(NA)	32.4	30.9	42.5	36.6	(NA)	(NA)
<b>FAMILY TYPE</b>												
<b>Total families</b> . . . . .	<b>4,823</b>	<b>2,805</b>	<b>637</b>	<b>322</b>	<b>630</b>	<b>430</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
With own children <sup>3</sup> . . . . .	3,095	(NA)	(NA)	(NA)	(NA)	(NA)	64.2	(NA)	(NA)	(NA)	(NA)	(NA)
Married couple . . . . .	3,398	2,080	360	249	436	272	70.4	74.2	56.6	77.3	69.2	63.4
With own children <sup>3</sup> . . . . .	2,234	(NA)	(NA)	(NA)	(NA)	(NA)	46.3	(NA)	(NA)	(NA)	(NA)	(NA)
Female householder, no spouse present . . . . .	1,112	532	252	57	158	114	23.1	19.0	39.6	17.7	25.0	26.4
With own children <sup>3</sup> . . . . .	766	(NA)	(NA)	(NA)	(NA)	(NA)	15.9	(NA)	(NA)	(NA)	(NA)	(NA)
Male householder, no spouse present . . . . .	314	193	25	16	37	44	6.5	6.9	3.9	4.9	5.8	10.2
With own children <sup>3</sup> . . . . .	96	(NA)	(NA)	(NA)	(NA)	(NA)	2.0	(NA)	(NA)	(NA)	(NA)	(NA)
<b>FAMILY INCOME IN 1988</b>												
<b>Total families</b> . . . . .	<b>4,823</b>	<b>2,805</b>	<b>637</b>	<b>322</b>	<b>630</b>	<b>430</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Less than \$5,000 . . . . .	405	231	72	20	41	40	8.4	8.2	11.3	6.2	6.5	9.3
\$5,000 to \$9,999 . . . . .	576	327	114	34	50	51	11.9	11.9	17.9	10.6	7.9	11.9
\$10,000 to \$14,999 . . . . .	657	418	98	31	71	39	13.6	14.9	15.4	9.6	11.3	9.1
\$15,000 to \$24,999 . . . . .	1,069	635	113	66	161	94	22.2	22.6	17.7	20.5	25.6	21.9
\$25,000 to \$34,999 . . . . .	794	475	97	45	93	85	16.5	16.9	15.2	14.0	14.8	19.8
\$35,000 to \$49,999 . . . . .	747	441	76	47	108	75	15.5	15.7	11.9	14.6	17.1	17.4
\$50,000 or more . . . . .	574	277	68	79	105	45	11.9	9.9	10.7	24.5	16.7	10.5
Median income (dol.) <sup>4</sup> . . . . .	21,769	21,025	18,932	26,858	24,322	23,666	(X)	(X)	(X)	(X)	(X)	(X)
Families below poverty level <sup>5</sup> . . . . .	1,141	698	196	54	104	88	23.7	24.9	30.8	16.9	16.6	20.6
Persons below poverty level <sup>5</sup> . . . . .	5,357	3,584	785	176	455	357	26.7	28.5	33.7	16.5	17.9	22.8
<b>HOUSING TENURE</b>												
<b>Total occupied units</b> . . . . .	<b>5,910</b>	<b>3,322</b>	<b>813</b>	<b>422</b>	<b>773</b>	<b>582</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Owner-occupied . . . . .	2,457	1,546	192	186	243	291	41.6	46.5	23.6	44.1	31.4	50.0
Renter-occupied <sup>6</sup> . . . . .	3,453	1,776	621	236	530	291	58.4	53.5	76.4	55.9	68.6	50.0

NA Not available. X Not applicable. <sup>1</sup> Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, January 1990.

<sup>2</sup> Total unemployment as percent of civilian labor force. <sup>3</sup> Children under 18 years old. <sup>4</sup> For definition of median, see Guide to Tabular Presentation. <sup>5</sup> For explanation of poverty level, see text, section 14. <sup>6</sup> Includes no cash rent.

Source: Except as noted, U.S. Bureau of the Census, *Current Population Reports*, P-60, No. 166 and P-20, No. 444.

**No. 46. Native and Foreign-Born Population, by Place of Birth: 1920 to 1980**

[In thousands, except percent. 1950 based on 20-percent sample; 1960 on 25-percent sample; 1970 on 15-percent sample. 1980 data are based on a sample from the 1980 census; see text, section 1. See source for sampling variability. See also *Historical Statistics, Colonial Times to 1970*, series C 1-10]

YEAR	Total population	NATIVE POPULATION							FOREIGN-BORN	
		Total	Born in State of residence	Born in other States		State of birth not reported	Born in outlying areas	Born abroad or at sea of American parents	Number	Per cent of total population
				Number	Per cent of native population					
1920	106,022	<sup>2</sup> 92,001	71,071	20,274	22.1	314	38	93	14,020	13.2
1930	123,203	<sup>2</sup> 108,919	82,678	25,388	23.4	238	136	131	14,283	11.6
1940	132,165	<sup>2</sup> 120,508	92,610	26,906	22.4	280	157	122	11,657	8.8
1950	150,845	<sup>2</sup> 140,413	102,788	35,284	25.2	1,370	330	96	10,431	6.9
1960	179,326	169,588	119,293	44,691	26.4	4,541	660	402	9,738	5.4
1970	203,210	193,591	131,718	50,639	26.2	6,973	891	1,370	9,619	4.7
1980	226,546	212,466	144,871	65,452	30.8	( <sup>3</sup> )	1,088	1,055	14,080	6.2

<sup>1</sup> 1920-1950, includes Alaska and Hawaii. Includes Puerto Rico. <sup>2</sup> Includes some persons born abroad of American parents, not shown separately. <sup>3</sup> Place of birth was allocated to those who did not report.

**No. 47. Foreign-Born Population, by Place of Birth—Selected Characteristics: 1980**

[In percent, except as indicated. As of April 1. Based on a sample and subject to sampling variability, see text, section 1, and Appendix III]

PLACE OF BIRTH	Foreign-born persons (1,000)	YEAR OF IMMIGRATION				Not a citizen	EDUCATION <sup>1</sup>		OCCUPATION OF EMPLOYED PERSONS <sup>3</sup>	
		1975-1980	1970-1974	1960-1969	Before 1960		High school graduates	College graduates <sup>2</sup>	Professional specialty	Service occupations
<b>Total <sup>4</sup></b>	<b>14,079.9</b>	<b>23.7</b>	<b>15.8</b>	<b>22.3</b>	<b>38.2</b>	<b>49.5</b>	<b>53.1</b>	<b>15.8</b>	<b>12.0</b>	<b>16.1</b>
<b>Europe <sup>4</sup></b>	<b>4,743.3</b>	<b>8.1</b>	<b>7.5</b>	<b>19.1</b>	<b>65.2</b>	<b>27.7</b>	<b>51.4</b>	<b>12.3</b>	<b>12.5</b>	<b>14.7</b>
Austria	145.6	2.7	1.8	7.8	87.9	13.0	50.2	15.1	19.8	11.6
Czechoslovakia	112.7	3.3	4.3	15.0	77.4	12.6	47.7	14.7	16.0	12.3
England	442.5	14.3	7.6	22.0	56.1	42.0	74.6	16.4	17.4	12.2
France	120.2	13.9	7.2	23.9	55.0	35.9	74.3	22.8	17.2	17.9
Germany	849.4	6.2	4.4	20.6	68.8	21.4	67.3	14.9	13.4	14.1
Greece	211.0	12.9	19.1	27.7	40.3	35.0	40.4	9.5	8.0	25.0
Hungary	144.4	3.8	4.5	10.8	81.0	14.0	53.4	16.6	17.3	10.3
Ireland	197.8	3.7	3.6	14.5	78.1	18.8	52.1	8.8	14.5	21.7
Italy	831.9	4.0	8.1	18.2	69.8	22.6	28.6	5.3	6.1	16.3
Netherlands	103.1	8.3	4.4	21.2	66.1	31.8	67.6	20.3	15.7	11.1
Norway	63.4	6.0	2.3	9.5	82.2	22.2	48.6	11.8	16.4	11.9
Poland	418.1	6.0	5.0	14.5	74.5	22.2	40.5	10.0	10.8	13.5
Portugal <sup>5</sup>	211.6	21.7	23.3	34.0	21.0	61.6	22.3	3.3	2.3	10.0
Romania	67.0	17.0	10.2	16.8	56.0	26.6	53.2	19.0	18.6	12.3
Scotland	142.0	5.9	4.2	17.6	72.2	28.6	68.0	9.8	12.1	14.2
Spain	73.7	17.0	17.9	34.4	30.6	50.9	46.9	12.7	14.1	18.4
Sweden	77.2	7.9	2.8	8.8	80.5	23.2	48.0	11.9	19.0	12.6
Yugoslavia	153.0	7.4	16.2	23.9	52.5	32.4	41.1	10.2	8.4	18.1
<b>Soviet Union</b>	<b>406.0</b>	<b>21.1</b>	<b>3.2</b>	<b>5.3</b>	<b>70.4</b>	<b>27.4</b>	<b>47.2</b>	<b>15.7</b>	<b>15.9</b>	<b>13.2</b>
<b>Asia <sup>4</sup></b>	<b>2,539.8</b>	<b>47.0</b>	<b>22.4</b>	<b>18.1</b>	<b>12.5</b>	<b>65.2</b>	<b>73.0</b>	<b>35.9</b>	<b>20.3</b>	<b>16.2</b>
China: Mainland	286.1	27.2	20.3	27.3	25.2	49.7	60.0	29.5	16.8	24.4
Taiwan	75.4	54.6	26.5	17.0	1.9	71.1	89.1	59.8	30.4	13.7
Hong Kong	80.4	34.9	27.6	30.9	6.6	61.7	80.3	42.7	19.1	18.6
India	206.1	43.7	33.1	19.3	3.9	76.0	88.9	66.2	42.8	5.3
Iran	121.5	19.9	12.7	9.7	5.7	85.4	87.1	42.8	25.9	14.4
Israel	67.0	34.1	18.9	25.0	22.0	48.2	78.8	34.9	24.9	6.8
Japan	221.8	31.6	13.6	22.7	32.1	56.7	78.0	24.4	13.6	20.8
Korea	289.9	52.3	31.6	13.0	3.1	65.4	77.8	34.2	14.7	17.0
Philippines	501.4	34.4	29.2	22.6	13.8	55.3	74.0	41.8	20.1	16.2
Vietnam	231.1	90.5	7.1	2.1	0.2	88.9	62.1	12.9	8.6	16.4
<b>Canada</b>	<b>842.9</b>	<b>9.8</b>	<b>5.4</b>	<b>20.1</b>	<b>64.7</b>	<b>39.0</b>	<b>61.8</b>	<b>14.3</b>	<b>16.2</b>	<b>11.4</b>
<b>Central America <sup>4</sup></b>	<b>2,553.1</b>	<b>33.7</b>	<b>24.5</b>	<b>22.5</b>	<b>19.4</b>	<b>75.8</b>	<b>26.1</b>	<b>4.1</b>	<b>3.0</b>	<b>18.0</b>
El Salvador	94.4	51.3	25.9	16.8	6.1	85.7	41.4	6.5	2.6	31.7
Mexico	2,199.2	33.0	24.7	21.9	20.3	76.4	21.3	3.0	2.5	16.6
<b>Caribbean <sup>4</sup></b>	<b>1,258.4</b>	<b>18.6</b>	<b>24.1</b>	<b>45.5</b>	<b>11.9</b>	<b>61.1</b>	<b>55.3</b>	<b>13.1</b>	<b>8.8</b>	<b>18.8</b>
Cuba	607.8	6.3	20.5	60.4	12.8	54.9	54.9	16.1	9.2	12.2
Dominican Republic	169.1	31.0	25.8	37.2	6.1	74.5	30.1	4.3	3.1	18.5
Haiti	92.4	33.6	31.0	30.8	4.6	73.9	64.4	13.4	8.0	27.4
Jamaica	196.8	30.6	28.0	29.8	11.6	63.7	63.5	11.0	10.2	29.9
Trinidad and Tobago	65.9	27.6	34.2	30.7	7.4	70.7	70.3	12.4	10.3	23.3
<b>South America <sup>4</sup></b>	<b>561.0</b>	<b>32.8</b>	<b>23.6</b>	<b>33.0</b>	<b>10.7</b>	<b>71.1</b>	<b>68.0</b>	<b>18.4</b>	<b>11.1</b>	<b>16.2</b>
Argentina	68.9	25.3	17.9	40.3	16.5	61.2	70.9	24.2	16.3	13.1
Colombia	143.5	29.6	25.4	37.1	7.9	75.1	62.8	14.6	8.1	15.8
Ecuador	86.1	25.5	27.7	39.2	7.6	75.3	56.0	9.3	5.3	14.7

<sup>1</sup> For persons 25 years old and over. <sup>2</sup> Completed 4 years or more of college. <sup>3</sup> For persons 16 years old and over.

<sup>4</sup> Includes areas not shown separately. <sup>5</sup> Includes persons born in Azores.

Source of tables 46 and 47: U.S. Bureau of the Census, *U.S. Census of Population: 1960*, vol. II, part 2A; 1970, vol. I, parts C and D; 1980 *Census of Population*, vol. I, chapter C (PC80-1-C) and chapter D (PC80-1-D).

### No. 48. Population by Selected Ancestry Group and Region: 1980

[As of April 1. Covers persons who reported single and multiple ancestry groups. Persons who reported a multiple ancestry group may be included in more than one category. Major classifications of ancestry groups do not represent strict geographic or cultural definitions. The European ancestry groups shown are those with one million or more persons and other groups shown are those with 75,000 or more persons. Based on a sample and subject to sampling variability; see text, section 1 and Appendix III. For composition of regions, see fig. 1, inside front cover]

ANCESTRY GROUP	Number (1,000)	PERCENT DISTRIBUTION, BY REGION				ANCESTRY GROUP	Number (1,000)	PERCENT DISTRIBUTION, BY REGION			
		North-east	Mid-west	South	West			North-east	Mid-west	South	West
European: <sup>1</sup>						Chinese	894	25	9	12	55
English	49,596	16	23	40	21	Filipino	795	10	11	11	68
German	49,224	19	41	22	18	Japanese	791	7	8	9	77
Irish	40,166	24	26	32	18	Korean	377	18	18	20	43
French	12,892	26	27	27	19	Asian Indian	312	35	23	23	19
Italian	12,184	57	16	13	14	Vietnamese	215	9	14	33	44
Scottish	10,049	19	23	35	24						
Polish	8,228	41	38	11	10	Jamaican	253	70	6	18	5
Dutch	6,304	18	35	26	20	Haitian	90	72	4	21	2
Swedish	4,345	15	43	12	31						
Norwegian	3,454	7	55	7	31	Mexican	7,693	1	9	35	55
Russian	2,781	48	17	16	19	Spanish/					
Czech	1,892	18	49	18	15	Hispanic <sup>5</sup>	2,687	23	8	26	43
Hungarian	1,777	39	33	13	14	Puerto Rican	1,444	73	11	8	7
Welsh	1,665	25	27	22	27	Cuban	598	24	4	63	9
Danish	1,518	9	38	10	43	Dominican	171	91	1	6	2
Portuguese	1,024	50	3	6	41	Colombian	156	54	7	26	13
Other:						Spaniard	95	36	6	36	22
Lebanese	295	31	27	26	16	Ecuadorian	88	64	7	11	18
Armenian	213	39	14	5	42	Salvadoran	85	13	3	9	75
Iranian	123	17	15	26	42						
Syrian	107	47	20	18	15	Hawaiian	202	2	3	6	89
Arab/Arabian <sup>5</sup>	93	19	29	21	30	American Indian	6,716	9	24	44	24
Afro-American	20,965	17	22	53	9	French Canadian	780	47	23	13	17
African <sup>5</sup>	204	33	19	33	1	Canadian	456	42	19	15	23

<sup>1</sup> Excludes Spaniard. <sup>2</sup> Excludes French Basque. <sup>3</sup> Represents persons who reported as "Russian," "Great Russian," "Georgian," and other related European or Asian groups. Excludes Ukrainian, Ruthenian, Belorussian and some other distinct ethnic groups. See source for further information. <sup>4</sup> Includes persons who reported as "Czech," "Bohemian," and "Moravian," as well as the general response of "Czechoslovakian." <sup>5</sup> Represents a general type of response which may encompass several ancestry groups.

Source: U.S. Bureau of the Census, 1980 Census of Population, Supplementary Report, series PC80-S1-10.

### No. 49. Marital Status of the Population, by Sex and Age: 1989

[As of March. Persons 18 years old and over. Excludes members of Armed Forces except those living off post or with their families on post. Based on Current Population Survey; see text, section 1, and Appendix III. See *Historical Statistics, Colonial Times to 1970*, series A 160-171, for decennial census data]

SEX AND AGE	NUMBER OF PERSONS (1,000)					PERCENT DISTRIBUTION				
	Total	Single	Married	Widowed	Divorced	Total	Single	Married	Widowed	Divorced
<b>Male</b>	<b>85,799</b>	<b>22,195</b>	<b>55,279</b>	<b>2,282</b>	<b>6,044</b>	<b>100.0</b>	<b>25.9</b>	<b>64.4</b>	<b>2.7</b>	<b>7.0</b>
18-19 years old	3,635	3,533	95	2	5	100.0	97.2	2.6	0.1	0.1
20-24 years old	8,939	8,915	1,912	6	105	100.0	77.4	21.4	0.1	1.2
25-29 years old	10,650	4,890	5,243	-	518	100.0	45.9	49.2	-	4.9
30-34 years old	10,811	2,789	7,157	23	842	100.0	25.8	66.2	0.2	7.8
35-39 years old	9,595	1,461	7,091	33	1,009	100.0	15.2	73.9	0.3	10.5
40-44 years old	8,086	673	6,432	38	943	100.0	8.3	79.5	0.5	11.7
45-54 years old	11,917	801	9,661	164	1,291	100.0	6.7	81.1	1.4	10.8
55-64 years old	10,088	563	8,385	328	812	100.0	5.6	83.1	3.3	8.0
65-74 years old	7,880	386	6,387	704	402	100.0	4.9	81.1	8.9	5.1
75 years old and over	4,199	184	2,915	982	118	100.0	4.4	69.4	23.4	2.8
<b>Female</b>	<b>93,984</b>	<b>17,775</b>	<b>56,195</b>	<b>11,492</b>	<b>8,522</b>	<b>100.0</b>	<b>18.9</b>	<b>59.8</b>	<b>12.2</b>	<b>9.1</b>
18-19 years old	3,719	3,366	333	8	11	100.0	90.5	9.0	0.2	0.3
20-24 years old	9,336	5,838	3,231	11	256	100.0	62.5	34.6	0.1	2.7
25-29 years old	10,827	3,184	6,755	31	858	100.0	29.4	62.4	0.3	7.9
30-34 years old	10,950	1,854	7,868	67	1,161	100.0	16.9	71.9	0.6	10.6
35-39 years old	9,775	969	7,391	133	1,281	100.0	9.9	75.6	1.4	13.1
40-44 years old	8,418	530	6,311	250	1,327	100.0	6.3	75.0	3.0	15.8
45-54 years old	12,705	692	9,518	697	1,798	100.0	5.4	74.9	5.5	14.2
55-64 years old	11,311	492	7,716	2,035	1,067	100.0	4.4	68.2	18.0	9.4
65-74 years old	9,867	441	5,251	3,614	560	100.0	4.5	53.2	36.6	5.7
75 years old and over	7,077	410	1,819	4,646	203	100.0	5.8	25.7	65.6	2.9

- Represents or rounds to zero.

Source: U.S. Bureau of the Census, Current Population Reports, series P-20, No. 445.

**No. 50. Marital Status of the Population, by Sex, Race, and Hispanic Origin: 1970 to 1989**

(In millions, except percent. As of March, except as noted. Persons 16 years old and over, except as noted. Excludes members of Armed Forces except those living off post or with their families on post. Except as noted, based on Current Population Survey, see text, section 1 and Appendix III. See *Historical Statistics, Colonial Times to 1970*, series A 160-171, for decennial data)

MARITAL STATUS, RACE, AND HISPANIC ORIGIN	TOTAL				MALE				FEMALE			
	1970	1980	1985	1989	1970	1980	1985	1989	1970	1980	1985	1989
<b>Total</b> <sup>1</sup>	132.5	159.5	171.4	179.8	62.5	75.7	81.5	85.8	70.0	83.8	89.9	94.0
Single	21.4	32.3	36.9	40.0	11.8	18.0	20.5	22.2	9.6	14.3	16.4	17.8
Married	95.0	104.6	107.9	111.5	47.1	51.8	53.5	55.3	47.9	52.8	54.4	56.2
Widowed	11.8	12.7	13.5	13.8	2.1	2.0	2.1	2.3	9.7	10.8	11.4	11.5
Divorced	4.3	9.9	13.1	14.6	1.6	3.9	5.3	6.0	2.7	6.0	7.8	8.5
Percent of total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Single	16.2	20.3	21.5	22.2	18.9	23.8	25.2	25.9	13.7	17.1	18.2	18.9
Married	71.7	65.5	63.0	62.0	75.3	68.4	65.7	64.4	68.5	63.0	60.4	59.8
Widowed	8.9	8.0	7.9	7.7	3.3	2.6	2.6	2.7	13.9	12.8	12.6	12.2
Divorced	3.2	6.2	7.6	8.1	2.5	5.2	6.5	7.0	3.9	7.1	8.7	9.1
Percent standardized for age: <sup>2</sup>												
Single	14.1	16.5	18.6	20.4	16.5	18.7	21.1	23.0	12.1	14.5	16.3	18.0
Married	74.2	69.3	65.9	64.0	77.6	72.9	69.4	66.9	70.8	65.9	62.8	61.4
Widowed	8.3	7.6	7.3	7.0	3.3	2.7	2.7	2.7	13.0	12.1	11.6	11.1
Divorced	3.4	6.6	8.1	8.5	2.6	5.6	6.9	7.4	4.1	7.6	9.3	9.5
<b>White, total</b>	118.2	139.5	148.1	154.0	55.9	68.7	70.9	74.0	62.2	72.8	77.2	80.0
Single	18.4	26.4	29.3	31.6	10.2	15.0	16.7	17.9	8.2	11.4	12.6	13.7
Married	85.8	93.8	96.3	98.6	42.7	48.7	47.9	49.1	43.1	47.1	48.4	49.4
Widowed	10.3	10.9	11.4	11.7	1.7	1.6	1.7	1.9	8.6	9.3	9.7	9.8
Divorced	3.7	8.3	11.1	12.2	1.3	3.4	4.5	5.1	2.3	5.0	6.5	7.1
Percent of total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Single	15.6	18.9	19.8	20.5	18.2	22.5	23.6	24.2	13.2	15.7	16.3	17.1
Married	72.6	67.2	65.0	64.0	76.3	70.0	67.6	66.4	69.3	64.7	62.7	61.8
Widowed	8.7	7.8	7.7	7.6	3.1	2.5	2.5	2.6	13.8	12.8	12.5	12.3
Divorced	3.1	6.0	7.5	7.9	2.4	5.0	6.4	6.8	3.8	6.8	8.5	8.9
<b>Black, total</b>	13.0	16.6	18.6	20.0	5.9	7.4	8.3	9.0	7.1	9.2	10.3	11.0
Single	2.7	5.1	6.4	6.9	1.4	2.5	3.1	3.4	1.2	2.5	3.3	3.5
Married	8.3	8.5	8.6	9.3	3.9	4.1	4.2	4.4	4.4	4.4	4.4	4.9
Widowed	1.4	1.6	1.8	1.8	0.3	0.3	0.3	0.3	1.1	1.3	1.5	1.4
Divorced	0.6	1.4	1.8	2.0	0.2	0.5	0.6	0.9	0.4	0.9	1.1	1.2
Percent of total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Single	20.6	30.5	34.6	34.6	24.3	34.3	37.8	38.0	17.4	27.4	32.0	31.9
Married	64.1	51.4	46.3	46.3	66.9	54.6	50.7	48.9	61.7	48.7	42.7	44.2
Widowed	11.0	9.8	9.6	8.8	5.2	4.2	3.9	3.6	15.8	14.3	14.3	13.0
Divorced	4.4	8.4	9.5	10.2	3.6	7.0	7.6	9.5	5.0	9.5	11.0	10.8
<b>Hispanic,<sup>3</sup> total</b>	5.9	7.9	10.8	13.1	2.8	3.8	5.3	6.5	3.0	4.1	5.5	6.6
Single	1.7	1.9	2.8	3.4	0.9	1.0	1.6	2.0	0.8	0.9	1.1	1.4
Married	3.7	5.2	6.8	8.1	1.8	2.5	3.3	4.0	1.9	2.6	3.5	4.2
Widowed	0.3	0.4	0.6	0.6	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5
Divorced	0.2	0.5	0.7	0.9	0.1	0.2	0.3	0.3	0.1	0.3	0.4	0.6
Percent of total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Single	29.3	24.1	25.5	25.3	32.2	27.3	30.8	31.6	26.5	21.1	20.4	21.1
Married	62.4	65.6	62.7	62.3	63.5	67.1	61.5	61.4	61.5	64.3	63.8	63.1
Widowed	4.9	4.4	5.1	4.4	2.0	1.6	2.3	1.7	7.6	7.1	7.8	7.0
Divorced	3.4	5.8	6.7	7.1	2.3	4.0	5.4	5.4	4.4	7.6	8.0	8.8

<sup>1</sup> Includes persons of other races, not shown separately. <sup>2</sup> 1960 age distribution used as standard; standardization improves comparability over time by removing effects of changes in age distribution of population. <sup>3</sup> Hispanic persons may be of any race. 1970 data as of April and covers persons 14 years old and over.

Source: U.S. Bureau of the Census, *Census of Population: 1970, Persons of Spanish Origin*, PC(2)1C; and *Current Population Reports*, series P-20, No. 445 and earlier reports.

**No. 51. Divorced Persons per 1,000 Married Persons With Spouse Present, by Sex, Race, and Age: 1970 to 1989**

[As of March. 1970 and 1975, persons 14 years old and over; beginning 1980, 15 years old and over. See headnote, table 50]

YEAR	Total	Male	Female	SEX AND YEAR	RACE		AGE			
					White	Black	15-29 years	30-44 years	45-64 years	65 years old and over
1970	47	35	60	Male: 1970	32	62	128	33	40	32
1975	69	54	84	1980	74	149	78	104	70	48
1980	100	79	120	1985	98	179	100	138	93	49
1985	128	103	153	1989	107	222	92	142	121	58
1986	131	106	157	Female: 1970	56	104	146	61	66	69
1987	130	107	154	1980	110	258	108	147	112	89
1988	133	110	156	1985	142	326	117	190	151	111
1989	138	114	161	1989	150	319	118	187	175	112

<sup>1</sup> 14-29 years.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 445 and earlier reports.

### No. 52. Single (Never-Married) Persons as Percent of Total Population, by Sex and Age: 1970 to 1989

[As of March. Persons 18 years old and over. Based on Current Population Survey; see headnote, table 49]

AGE	MALE					FEMALE				
	1970	1975	1980	1985	1989	1970	1975	1980	1985	1989
<b>Total</b> . . . . .	<b>18.9</b>	<b>20.8</b>	<b>23.8</b>	<b>25.2</b>	<b>25.9</b>	<b>13.7</b>	<b>14.6</b>	<b>17.1</b>	<b>18.2</b>	<b>18.9</b>
18-19 years old . . . . .	92.8	93.1	94.3	97.1	97.2	75.6	77.7	82.8	86.7	90.5
20-24 years old . . . . .	54.7	59.9	68.8	75.6	77.4	35.8	40.3	50.2	58.5	62.5
25-29 years old . . . . .	19.1	22.3	33.1	38.7	45.9	10.5	13.8	20.9	26.4	29.4
30-34 years old . . . . .	9.4	11.1	15.9	20.8	25.8	6.2	7.5	9.5	13.5	16.9
35-39 years old . . . . .	7.2	8.6	7.8	10.1	15.2	5.4	5.0	6.2	8.1	9.9
40-44 years old . . . . .	6.3	7.2	7.1	8.6	8.3	4.9	4.8	4.8	5.3	6.3
45-54 years old . . . . .	7.5	6.3	6.1	6.3	6.7	4.9	4.6	4.7	4.6	5.4
55-64 years old . . . . .	7.8	6.5	5.3	6.1	5.6	6.8	5.1	4.5	3.7	4.4
65 years old and over . . . . .	7.5	4.7	4.9	5.3	4.7	7.7	5.8	5.9	5.1	5.0
65-74 years old . . . . .	8.0	4.3	5.2	5.2	4.9	7.8	5.8	5.6	4.4	4.5
75 years old and over . . . . .	6.6	5.5	4.2	5.3	4.4	7.5	5.8	6.3	6.2	5.8

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 445 and earlier reports.

### No. 53. Unmarried Couples, by Selected Characteristics, 1970 to 1989, and by Marital Status of Partners, 1989

[In thousands. As of March, except 1970, as of April. An "unmarried couple" is two unrelated adults of the opposite sex sharing the same household. See headnote, table 56]

PRESENCE OF CHILDREN AND AGE OF HOUSEHOLDER	1970	1980	1985	1989	MARITAL STATUS OF MALE	Total	MARITAL STATUS OF FEMALE			
							Never married	Divorced	Widowed	Married, husband absent
<b>Unmarried couples</b> . . . . .	<b>523</b>	<b>1,589</b>	<b>1,983</b>	<b>2,764</b>	<b>Total, 1989</b> . . . . .	<b>2,764</b>	<b>1,574</b>	<b>921</b>	<b>126</b>	<b>142</b>
No children under 15 yr . . . . .	1,327	1,159	1,380	1,906	Never married . . . . .	1,661	1,206	357	33	65
Some children under 15 yr . . . . .	1196	431	603	858	Divorced . . . . .	869	298	489	43	39
Under 25 yr. old . . . . .	55	411	425	671	Widowed . . . . .	73	12	21	36	4
25-44 yr. old . . . . .	103	837	1,203	1,693	Married, wife absent . . . . .	160	58	54	14	34
45-64 yr. old . . . . .	186	221	239	303						
65 yr. old and over . . . . .	178	119	116	97						

<sup>1</sup> Children in unmarried-couple households are under 14 years old.

Source: U.S. Bureau of the Census, *1970 Census of Population*, vol. II, part 4B, and *Current Population Reports*, series P-20, No. 445 and earlier reports.

### No. 54. Black-White Married Couples: 1970 to 1989

[1970 data as of April; 1980 and 1989 data as of March. 1970, persons 14 years old and over; 1980 and 1989, persons 15 years old and over. 1980 and 1989 based on Current Population Survey; see headnote, table 49]

ITEM	NUMBER (1,000)			PERCENT		
	1970	1980	1989	1970	1980	1989
<b>Total married couples</b> . . . . .	<b>44,597</b>	<b>49,714</b>	<b>52,924</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Black-White married couples, total</b> . . . . .	<b>65</b>	<b>167</b>	<b>219</b>	<b>0.1</b>	<b>0.3</b>	<b>0.4</b>
Husband Black, wife White . . . . .	41	122	155	0.1	0.2	0.3
Wife Black, husband White . . . . .	24	45	64	0.1	0.1	0.1

Source: U.S. Bureau of the Census, *Census of Population: 1970, Marital Status*, PC(2)-4C; and *Current Population Reports*, series P-20, No. 445 and earlier reports.

### No. 55. Married-Couple Households, by Hispanic Origin Status of Husband and Wife: 1989

[In thousands. As of March. Based on Current Population Survey; see headnote, table 56]

ORIGIN OF HUSBAND	Total population	ORIGIN OF WIFE						
		Hispanic						Not Hispanic
		Total	Mexican	Puerto Rican	Cuban	Central and South American	Other Hispanic	
Total, all persons. . . . .	52,100	3,556	2,170	346	248	508	284	48,544
Hispanic origin, total . . . . .	3,398	2,897	1,829	289	211	390	178	502
Mexican . . . . .	2,083	1,826	1,789	2	8	22	4	257
Puerto Rican . . . . .	362	303	5	261	12	19	7	58
Cuban . . . . .	247	211	3	7	184	16	1	36
Central and South American. . . . .	436	385	25	15	3	334	9	52
Other Hispanic origin . . . . .	271	173	7	4	4	-	157	98
Not of Hispanic origin. . . . .	48,701	659	342	56	37	118	106	48,042

- Represents or rounds to zero.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 444.



### No. 56. Households, Families, Subfamilies, Married Couples, and Unrelated Individuals: 1960 to 1990

[In thousands, except as indicated. As of March. Based on Current Population Survey; includes members of Armed Forces living off post or with their families on post, but excludes all other members of Armed Forces; see text, section 1 and Appendix III. For definition of terms, see text, section 1. Minus sign (-) indicates decrease. See also *Historical Statistics, Colonial Times to 1900*, series A 288-319]

TYPE OF UNIT	1960	1970	1975	1980	1985	1987	1988	1989	1990	PERCENT CHANGE	
										1970-1980	1980-1990
<b>Households</b> . . . . .	<b>52,799</b>	<b>63,401</b>	<b>71,120</b>	<b>80,776</b>	<b>86,789</b>	<b>89,479</b>	<b>91,066</b>	<b>92,830</b>	<b>93,347</b>	<b>27.4</b>	<b>15.6</b>
Average size . . . . .	3.33	3.14	2.94	2.76	2.69	2.66	2.64	2.62	2.63	(X)	(X)
Family households . . . . .	44,905	51,456	55,563	59,550	62,706	64,491	65,133	65,837	66,090	15.7	11.0
Married couple . . . . .	39,254	44,728	46,951	49,112	50,350	51,537	51,809	52,100	52,317	9.8	6.5
Male householder <sup>1</sup> . . . . .	1,228	1,228	1,485	1,733	2,228	2,510	2,715	2,847	2,884	41.1	66.4
Female householder <sup>1</sup> . . . . .	4,422	5,500	7,127	8,705	10,129	10,445	10,608	10,890	10,890	58.3	25.1
Nonfamily households . . . . .	7,895	11,945	15,557	21,226	24,082	24,988	25,933	26,994	27,257	77.7	28.4
Male householder . . . . .	2,716	4,063	5,912	8,807	10,114	10,652	11,310	11,874	11,606	116.8	31.8
Female householder . . . . .	5,179	7,882	9,645	12,419	13,968	14,336	14,624	15,120	15,651	57.6	26.0
One person . . . . .	6,896	10,851	13,939	18,296	20,602	21,128	21,889	22,708	22,999	68.6	25.7
<b>Families</b> . . . . .	<b>45,111</b>	<b>51,586</b>	<b>55,712</b>	<b>59,550</b>	<b>62,706</b>	<b>64,491</b>	<b>65,133</b>	<b>65,837</b>	<b>66,090</b>	<b>15.4</b>	<b>11.0</b>
Average size . . . . .	3.67	3.58	3.42	3.29	3.23	3.19	3.17	3.16	3.17	(X)	(X)
Married couple . . . . .	39,329	44,755	46,971	49,112	50,350	51,537	51,809	52,100	52,317	9.7	6.5
Male householder <sup>1</sup> . . . . .	1,275	1,239	1,499	1,733	2,228	2,510	2,715	2,847	2,884	39.9	66.4
Female householder <sup>1</sup> . . . . .	4,507	5,591	7,242	8,705	10,129	10,445	10,608	10,890	10,890	55.7	25.1
<b>Unrelated subfamilies</b> . . . . .	<b>207</b>	<b>130</b>	<b>149</b>	<b>360</b>	<b>526</b>	<b>566</b>	<b>537</b>	<b>473</b>	<b>534</b>	<b>176.9</b>	<b>48.3</b>
Married couple . . . . .	75	27	20	20	46	37	38	49	68	(B)	(B)
Male reference persons <sup>1</sup> . . . . .	47	11	14	36	85	77	46	26	45	(B)	(B)
Female reference persons <sup>1</sup> . . . . .	85	91	115	304	395	452	452	398	421	234.1	38.5
<b>Related subfamilies</b> . . . . .	<b>1,514</b>	<b>1,150</b>	<b>1,349</b>	<b>1,150</b>	<b>2,228</b>	<b>2,286</b>	<b>2,397</b>	<b>2,278</b>	<b>2,403</b>	-	<b>109.0</b>
Married couple . . . . .	871	617	576	582	719	712	765	775	871	-5.7	49.7
Father-child . . . . .	115	48	69	54	116	123	152	103	153	(B)	(B)
Mother-child . . . . .	528	484	705	512	1,392	1,451	1,480	1,400	1,378	5.8	169.1
<b>Married couples</b> . . . . .	<b>40,200</b>	<b>45,373</b>	<b>47,547</b>	<b>49,714</b>	<b>51,114</b>	<b>52,286</b>	<b>52,613</b>	<b>52,924</b>	<b>53,256</b>	<b>9.6</b>	<b>7.1</b>
With own household . . . . .	39,254	44,728	46,951	49,112	50,350	51,537	51,809	52,100	52,317	9.8	6.5
Without own household . . . . .	946	645	596	602	764	749	803	824	939	-6.7	56.0
Percent without . . . . .	2.4	1.4	1.3	1.2	1.5	1.4	1.5	1.6	1.8	(X)	(X)
<b>Unrelated individuals</b> . . . . .	<b>11,092</b>	<b>14,988</b>	<b>19,100</b>	<b>26,426</b>	<b>30,518</b>	<b>31,914</b>	<b>33,124</b>	<b>34,499</b>	<b>35,384</b>	<b>76.3</b>	<b>33.9</b>
Nonfamily householders . . . . .	7,895	11,945	15,557	21,226	24,082	24,988	25,933	26,994	27,257	77.7	28.4
Secondary individuals . . . . .	3,198	3,043	3,543	5,200	6,436	6,926	7,191	7,505	8,127	70.9	56.3
Male . . . . .	1,746	1,631	2,087	3,006	3,743	3,947	4,081	4,241	4,711	84.3	56.7
Female . . . . .	1,451	1,412	1,456	2,194	2,693	2,978	3,110	3,264	3,416	55.4	55.7

• Represents zero. B Not shown; base less than 75,000. X Not applicable. <sup>1</sup> No spouse present.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 447.

### No. 57. Households, by Type—Projections: 1995 and 2000

[In thousands. As of July. Series A reflects the assumption that the recent moderation in marriage and divorce trends will continue but that historical changes spanning the last 25 years must be taken into consideration. Series A assumes a continuation of past trends in householder proportions but changes in recent years are given more weight. Series B reflects assumptions intermediate between series A and C, namely changes in marriage and divorce will slow considerably, but will not cease during the next 15 years. Series C reflects the assumption that the rapid change in marriage and divorce may have come to an end, and householder proportions will remain constant for the next 15 years]

YEAR AND SERIES	Total	FAMILY				NONFAMILY		
		Total	Married couple	Male householder <sup>1</sup>	Female householder <sup>1</sup>	Total	Male householder	Female householder
1995: Series A . . . . .	102,785	68,219	52,178	3,276	12,765	34,565	16,102	18,463
Series B . . . . .	100,308	69,787	54,863	2,940	11,984	30,520	13,666	16,854
Series C . . . . .	98,180	71,294	57,410	2,667	11,217	26,887	11,490	15,396
2000: Series A . . . . .	110,217	70,024	52,263	3,845	13,916	40,193	19,471	20,722
Series B . . . . .	105,933	72,277	56,294	3,282	12,701	33,656	15,452	18,204
Series C . . . . .	102,440	74,449	60,080	2,855	11,515	27,991	11,985	16,006

<sup>1</sup> With no spouse present.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-25, No. 986.

**No. 58. White, Black, and Hispanic Households, by Type: 1970 to 1990**

[As of March, except as noted. Based on Current Population Survey, except as noted; see headnote, table 56. See also *Historical Statistics, Colonial Times to 1970*, series A 292-295 and A 320-334]

RACE, HISPANIC ORIGIN, AND TYPE	NUMBER (1,000)					PERCENT DISTRIBUTION				
	1970	1975	1980	1985	1990	1970	1975	1980	1985	1990
<b>WHITE</b>										
<b>Total</b>	<b>56,802</b>	<b>62,945</b>	<b>70,766</b>	<b>75,328</b>	<b>80,163</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Family households	46,166	49,334	52,243	54,400	56,590	81.6	78.4	73.8	72.2	70.6
Married couple	41,029	42,951	44,751	45,643	46,981	72.5	68.2	63.2	60.6	58.6
Male householder <sup>1</sup>	1,038	1,257	1,441	1,816	2,303	1.8	2.0	2.0	2.4	2.9
Female householder <sup>1</sup>	4,099	5,126	6,052	6,941	7,306	7.2	8.1	8.6	9.2	9.1
Nonfamily households	10,436	13,612	18,522	20,928	23,573	18.4	21.6	26.2	27.8	29.4
Male householder	3,406	5,038	7,499	8,608	9,951	6.0	8.0	10.6	11.4	12.4
Female householder	7,030	8,574	11,023	12,320	13,622	12.4	13.6	15.6	16.4	17.0
<b>BLACK</b>										
<b>Total</b>	<b>6,223</b>	<b>7,262</b>	<b>8,586</b>	<b>9,480</b>	<b>10,486</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Family households	4,856	5,468	6,184	6,778	7,470	78.0	75.3	72.0	71.5	71.2
Married couple	3,317	3,343	3,433	3,469	3,750	53.3	46.0	40.0	36.6	35.8
Male householder <sup>1</sup>	181	211	256	344	446	2.9	2.9	3.0	3.6	4.3
Female householder <sup>1</sup>	1,358	1,915	2,495	2,964	3,275	21.8	26.4	29.1	31.3	31.2
Nonfamily households	1,367	1,793	2,402	2,703	3,015	22.0	24.7	28.0	28.5	28.8
Male householder	564	791	1,146	1,244	1,313	9.1	10.9	13.3	13.1	12.5
Female householder <sup>2</sup>	803	1,002	1,256	1,459	1,702	12.9	13.8	14.6	15.4	16.2
<b>HISPANIC<sup>2</sup></b>										
<b>Total</b>	<b>2,303</b>	<b>(NA)</b>	<b>3,684</b>	<b>4,883</b>	<b>5,933</b>	<b>100.0</b>	<b>(NA)</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Family households	2,004	(NA)	3,029	3,939	4,840	87.0	(NA)	82.2	80.7	81.6
Married couple	1,615	(NA)	2,282	2,824	3,395	70.1	(NA)	61.9	57.8	57.2
Male householder <sup>1</sup>	82	(NA)	138	210	329	3.6	(NA)	3.7	4.3	5.5
Female householder <sup>1</sup>	307	(NA)	610	905	1,116	13.3	(NA)	16.6	16.5	18.8
Nonfamily households	299	(NA)	654	944	1,093	13.0	(NA)	17.8	19.3	18.4
Male householder	150	(NA)	365	509	587	6.5	(NA)	9.9	10.4	9.9
Female householder	148	(NA)	289	435	506	6.4	(NA)	7.8	8.9	8.5

NA Not available. <sup>1</sup> No spouse present. <sup>2</sup> Hispanic persons may be of any race. 1970 data as of April.

Source: U.S. Bureau of the Census, *Census of Population: 1970, Persons of Spanish Origin*, PC(2)-1C; and *Current Population Reports*, series P-20, No. 447 and earlier reports.

**No. 59. Households by Characteristic of Householder and Size of Household: 1970 to 1990**

[As of March. Based on Current Population Survey; see headnote, table 56. See also *Historical Statistics, Colonial Times to 1970*, series A 335-349]

CHARACTERISTIC OF HOUSEHOLDER AND SIZE OF HOUSEHOLD	NUMBER (mil.)							PERCENT DISTRIBUTION				
	1970	1975	1980	1985	1988	1989	1990	1970	1975	1980	1985	1990
<b>Total<sup>1</sup></b>	<b>63.4</b>	<b>71.1</b>	<b>80.8</b>	<b>86.8</b>	<b>91.1</b>	<b>92.8</b>	<b>93.3</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Age of householder:												
15 to 24 years old <sup>2</sup>	4.4	5.8	6.6	5.4	5.2	5.4	5.1	6.8	8.2	8.1	6.3	5.5
25 to 29 years old	6.1	7.8	9.3	9.6	9.6	9.6	9.4	9.6	11.0	11.5	11.1	10.1
30 to 34 years old	5.6	7.1	9.3	10.4	11.0	11.3	11.0	8.8	10.0	11.5	12.0	11.8
35 to 44 years old	11.8	11.9	14.0	17.5	19.3	20.0	20.6	18.6	16.7	17.3	20.1	22.0
45 to 54 years old	12.2	12.9	12.7	12.6	13.6	14.0	14.5	19.5	18.2	15.7	14.6	15.5
55 to 64 years old	10.8	11.3	12.5	13.1	12.8	12.8	12.5	17.1	15.9	15.5	15.1	13.4
65 to 74 years old	7.7	8.9	10.1	10.9	11.4	11.6	11.7	12.1	12.5	12.5	12.6	12.6
75 years old and over	4.8	5.4	6.4	7.3	8.0	8.1	8.4	7.6	7.6	7.9	8.4	9.0
Male	50.0	54.3	58.0	60.0	62.8	63.5	62.9	78.9	76.4	71.8	69.2	67.4
Female	13.4	16.8	22.8	26.8	28.3	29.3	30.4	21.1	23.6	28.2	30.8	32.6
White	56.6	62.9	70.8	75.3	78.5	79.7	80.2	89.5	88.5	87.6	86.8	85.8
Black	6.2	7.3	8.6	9.5	10.2	10.6	10.5	9.8	10.2	10.6	10.9	11.2
Hispanic <sup>3</sup>	(NA)	(NA)	3.7	4.9	5.7	5.9	5.9	(NA)	(NA)	4.6	5.6	6.4
1 person	10.9	13.9	18.3	20.6	21.9	22.7	23.0	17.1	19.6	22.7	23.7	24.6
Male	3.5	4.9	7.0	7.9	8.8	9.2	9.0	5.5	6.9	8.7	9.1	9.7
Female	7.3	9.0	11.3	12.7	13.1	13.5	14.0	11.5	12.7	14.0	14.6	14.9
2 persons	18.3	21.8	25.3	27.4	29.3	30.0	30.1	28.9	30.6	31.4	31.6	32.3
3 persons	10.9	12.4	14.1	15.5	16.2	16.3	16.1	17.3	17.4	17.5	17.8	17.3
4 persons	10.0	11.1	12.7	13.6	14.1	14.6	14.5	15.8	15.6	15.7	15.7	15.5
5 persons	6.5	6.4	6.1	6.1	6.1	6.2	6.2	10.3	9.0	7.5	7.0	6.7
6 persons	3.5	3.1	2.5	2.3	2.2	2.0	2.1	5.6	4.3	3.1	2.6	2.3
7 persons or more	3.2	2.5	1.8	1.3	1.3	1.1	1.3	5.0	3.5	2.2	1.5	1.4

NA Not available. <sup>1</sup> Includes other races, not shown separately. <sup>2</sup> 1970 and 1975, persons 14 to 24 years old. <sup>3</sup> Hispanic persons may be of any race.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 447 and earlier reports; and unpublished data.

## Household Characteristics

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No. 60. Household Characteristics, by Race, Hispanic Origin, and Type: 1989

[As of March. Based on Current Population Survey; see headnote, table 56. For composition of regions, see fig. 1, inside front cover]

CHARACTERISTIC	NUMBER OF HOUSEHOLDS (1,000)					PERCENT DISTRIBUTION					PERSONS PER HOUSEHOLD		
	Total	Black	Hispanic <sup>1</sup>	Family households			Total	Black	Hispanic <sup>1</sup>	Total <sup>2</sup>	Family households		Non-family households
				Total <sup>2</sup>	Married couple	Female householder <sup>3</sup>					Married couple	Female householder <sup>3</sup>	
<b>Total</b> .....	<b>92,830</b>	<b>10,561</b>	<b>5,910</b>	<b>65,837</b>	<b>52,100</b>	<b>10,890</b>	<b>26,994</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Age of householder:													
15-24 years old .....	5,415	789	549	3,006	1,775	923	2,409	5.8	9.3	4.6	3.4	8.5	8.9
25-29 years old .....	9,624	1,271	890	6,456	4,864	1,281	3,189	7.5	15.1	9.8	9.3	11.8	11.7
30-34 years old .....	11,300	1,444	910	8,644	6,748	1,549	2,656	12.0	23.4	13.1	13.0	14.2	9.8
35-44 years old .....	19,952	2,382	1,380	16,300	12,810	2,824	3,652	21.5	22.6	24.8	24.6	25.0	13.5
45-54 years old .....	14,018	1,539	899	11,336	9,158	1,675	2,682	15.1	14.6	17.2	17.6	15.4	9.9
55-64 years old .....	12,805	1,415	677	9,470	8,013	1,158	3,335	13.4	11.5	14.4	15.4	10.6	12.4
65-74 years old .....	11,590	1,069	388	7,108	6,039	808	4,482	10.1	6.6	10.8	11.6	7.1	16.6
75 years old and over .....	8,127	653	217	3,518	2,682	672	4,608	6.2	3.7	5.3	5.2	6.2	17.1
<b>Region:</b>													
Northeast .....	19,342	1,853	1,097	13,518	10,513	2,429	5,824	20.8	18.6	20.5	20.2	22.3	21.6
Midwest .....	22,827	2,066	431	16,096	13,023	2,412	6,550	24.4	7.3	24.4	25.0	25.3	24.2
South .....	31,878	5,657	1,910	23,200	18,263	3,937	8,678	34.3	32.3	35.2	35.1	36.2	32.1
West .....	18,983	985	2,473	13,022	10,270	2,112	5,961	20.4	41.8	19.8	19.7	13.4	22.1
<b>Size of household:</b>													
One person .....	22,708	2,734	863	(X)	(X)	(X)	22,708	24.5	14.6	(X)	(X)	(X)	84.1
Two persons .....	29,976	2,698	1,317	26,510	20,268	4,951	3,466	32.3	23.3	40.3	38.9	44.3	12.8
Three persons .....	16,276	2,029	1,235	15,692	11,648	3,244	595	17.3	20.9	23.8	22.4	23.8	2.2
Four persons .....	14,550	1,576	1,197	14,386	12,318	1,675	184	15.7	19.6	23.9	23.6	13.4	0.9
Five persons .....	6,232	900	725	6,186	5,400	811	16	6.7	8.5	9.1	10.4	5.8	0.2
Six persons .....	2,003	335	334	1,991	1,632	287	13	2.2	3.2	3.1	3.1	2.6	(Z)
Seven persons or more .....	1,084	289	240	1,072	832	201	12	1.2	4.1	1.8	1.6	1.8	(Z)
<b>Marital status of householder:</b>													
Single (never married) .....	13,923	2,595	934	3,503	(X)	2,460	10,390	14.9	15.8	5.3	(X)	22.6	38.2
Married, spouse present .....	52,100	3,722	3,398	52,100	52,100	(X)	(X)	56.1	57.5	79.1	100.0	(X)	(X)
Married, spouse absent .....	4,158	1,250	571	2,239	(X)	1,664	1,974	5.7	7.0	3.4	(X)	17.1	1.7
Separated .....	3,260	1,075	413	1,962	(X)	1,573	1,398	3.9	10.2	2.9	(X)	14.4	5.2
Widowed .....	11,770	1,464	402	3,099	(X)	2,600	8,672	12.7	13.9	6.8	(X)	23.9	32.1
Divorced .....	10,982	1,531	606	4,887	(X)	3,966	6,085	11.6	10.3	7.4	(X)	36.4	22.5
<b>Tenure:</b>													
Owner occupied .....	59,419	4,417	2,457	47,104	40,734	4,734	12,316	64.0	41.8	71.5	76.2	43.5	45.6
Renter occupied .....	33,411	6,145	3,453	18,733	11,366	6,156	14,678	36.0	58.2	28.5	21.8	56.5	54.4

NA Not available. X Not applicable. Z Less than .05 percent. <sup>1</sup> Hispanic persons may be of any race. <sup>2</sup> Includes male householder, no spouse present. <sup>3</sup> No spouse present.Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 447 and series P-60, No. 166.

**No. 61. Households—States: 1980 and 1990**

[As of April 1. For definition of household, see text, section 1]

REGION, DIVISION, AND STATE	HOUSEHOLDS			PERSONS PER HOUSEHOLD		REGION, DIVISION, AND STATE	HOUSEHOLDS			PERSONS PER HOUSEHOLD	
	Number (1,000)		Percent change, 1980-90				Number (1,000)		Percent change, 1980-90		
	1980	1990					1980	1990			
U.S.	80,390	91,947	14.4	2.75	2.63	DC	253	250	1.4	2.40	2.26
Northeast	17,471	18,873	8.0	2.74	2.61	VA	1,863	2,292	23.0	2.77	2.61
	4,362	4,943	13.3	2.74	2.58	WV	686	689	0.3	2.79	2.55
ME	395	465	17.7	2.75	2.56	NC	2,043	2,517	23.2	2.78	2.54
NH	323	411	27.1	2.75	2.62	SC	1,030	1,258	22.1	2.93	2.68
VT	178	211	18.1	2.75	2.57	GA	1,872	2,367	26.4	2.84	2.66
MA	2,033	2,247	10.5	2.72	2.58	FL	3,744	5,135	37.1	2.55	2.46
RI	339	378	11.6	2.70	2.55	E.S.C.	5,051	5,652	11.9	2.83	2.62
CT	1,094	1,230	12.5	2.76	2.59	KY	1,263	1,380	9.2	2.82	2.60
M.A.	13,109	13,930	6.3	2.74	2.62	TN	1,619	1,854	14.5	2.77	2.56
	6,340	6,639	4.7	2.70	2.63	AL	1,342	1,507	12.3	2.84	2.62
NJ	2,549	2,795	9.7	2.84	2.70	MS	827	911	10.2	2.97	2.75
PA	4,220	4,496	6.5	2.74	2.57	W.S.C.	8,276	9,668	16.8	2.80	2.69
Midwest	20,859	22,317	7.0	2.75	2.60	AR	816	891	9.2	2.74	2.57
E.N.C.	14,654	15,597	6.4	2.78	2.63	LA	1,412	1,499	6.2	2.91	2.74
OH	3,834	4,088	6.6	2.76	2.59	OK	1,119	1,206	7.8	2.62	2.53
IN	1,927	2,065	7.2	2.77	2.61	TX	4,929	6,071	23.2	2.82	2.73
IL	4,045	4,202	3.9	2.76	2.65	West	15,574	18,935	21.6	2.71	2.72
MI	3,195	3,419	7.0	2.84	2.66	Mt.	3,986	5,033	26.3	2.79	2.65
WI	1,652	1,822	10.3	2.77	2.61	MT	284	306	7.9	2.70	2.53
W.N.C.	6,205	6,720	8.3	2.68	2.55	ID	324	361	11.3	2.85	2.73
MN	1,445	1,648	14.0	2.74	2.58	WY	166	169	1.9	2.78	2.63
IA	1,053	1,064	1.1	2.68	2.52	CO	1,061	1,282	20.8	2.65	2.51
MO	1,793	1,961	9.4	2.67	2.54	NM	441	543	22.9	2.90	2.74
ND	228	241	5.8	2.75	2.55	AZ	957	1,369	43.0	2.79	2.62
SD	243	259	6.8	2.74	2.59	UT	449	537	19.8	3.20	3.15
NE	571	602	5.4	2.66	2.54	NV	304	466	53.2	2.59	2.53
KS	872	945	8.3	2.62	2.53	Pac.	11,587	13,902	20.0	2.68	2.74
South	26,486	31,822	20.1	2.77	2.61	WA	1,541	1,872	21.5	2.61	2.53
S.A.	13,160	16,503	25.4	2.73	2.56	OR	992	1,103	11.3	2.60	2.52
DE	207	247	19.5	2.79	2.61	CA	8,630	10,381	20.3	2.68	2.79
MD	1,461	1,749	19.7	2.82	2.67	AK	131	189	43.7	2.93	2.80
						HI	294	356	21.2	3.15	3.01

**1990 Census Note:** The population counts set forth herein are subject to possible correction for undercount or overcount. The United States Department of Commerce is considering whether to correct these counts and will publish corrected counts, if any, not later than July 15, 1991.

Source: U.S. Bureau of the Census, press release CB91-155.

**No. 62. Households, 1980 and 1989, and Persons in Households, 1989, by Type of Household and Presence of Children**

[As of March. Based on Current Population Survey; see headnote, table 56. Minus sign (-) indicates decrease]

TYPE OF HOUSEHOLD AND PRESENCE OF CHILDREN	HOUSEHOLDS						PERSONS IN HOUSEHOLDS, 1989		Per- sons per house- hold, 1989
	Number (1,000)		Change, 1980-1989		Percent distribution		Number (1,000)	Per- cent distribution	
	1980	1989	Num- ber (1,000)	Per- cent	1980	1989			
<b>Total households. . . . .</b>	<b>80,776</b>	<b>92,830</b>	<b>12,054</b>	<b>14.9</b>	<b>100.0</b>	<b>100.0</b>	<b>243,363</b>	<b>100.0</b>	<b>2.62</b>
Family households	59,550	65,837	6,287	10.6	73.7	70.9	210,405	86.5	3.20
With own children under 18	31,022	32,322	1,300	4.2	38.4	34.8	126,672	52.1	3.92
Without own children under 18	28,528	33,515	4,987	17.5	35.3	36.1	83,733	34.4	2.50
Married couple family	49,112	52,100	2,988	5.7	60.8	56.1	168,628	69.3	3.24
With own children under 18	24,961	24,735	226	0.9	30.9	26.6	102,160	42.0	4.13
Without own children under 18	24,151	27,365	3,214	13.3	29.9	29.5	66,468	27.3	2.43
Male householder, no spouse present	1,733	2,847	1,114	64.3	2.1	3.1	8,581	3.5	3.01
With own children under 18	616	1,068	452	73.4	0.8	1.2	3,632	1.5	3.40
Without own children under 18	1,117	1,779	662	59.3	1.4	1.9	4,949	2.0	2.78
Female householder, no spouse present	8,705	10,890	2,185	25.1	10.8	11.7	33,196	13.6	3.05
With own children under 18	5,445	6,519	1,074	19.7	6.7	7.0	20,880	8.6	3.20
Without own children under 18	3,261	4,371	1,110	34.0	4.0	4.7	12,316	5.1	2.82
Nonfamily households	21,226	26,994	5,768	27.2	26.3	29.1	32,958	13.5	1.22
Living alone	18,296	22,708	4,412	24.1	22.7	24.5	22,708	9.3	1.00
Male householder	8,807	11,874	3,067	34.8	10.9	12.8	15,772	6.5	1.33
Living alone	6,966	9,193	2,227	32.0	8.6	9.9	9,193	3.8	1.00
Female householder	12,419	15,120	2,701	21.7	15.4	16.3	17,187	7.1	1.14
Living alone	11,330	13,515	2,185	19.3	14.0	14.6	13,515	5.6	1.00

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 447 and earlier reports; and unpublished data.

### No. 63. Living Arrangements of Persons 15 Years Old and Over, by Selected Characteristics: 1989

[As of March. Based on Current Population Survey which includes members of Armed Forces living off post or with families on post, but excludes other Armed Forces; see text, section 1 and Appendix III]

AGE AND SEX	ALL RACES <sup>1</sup>					WHITE PERSONS PERCENT LIVING—			BLACK PERSONS PERCENT LIVING—		
	Total (1,000)	Percent living—				Alone	With spouse	With other rela- tives	Alone	With spouse	With other rela- tives
		Alone	With spouse	With other rela- tives	With non- rela- tives						
<b>Total . . . . .</b>	<b>190,052</b>	<b>11.9</b>	<b>55.7</b>	<b>28.5</b>	<b>3.9</b>	<b>12.0</b>	<b>58.5</b>	<b>25.8</b>	<b>12.7</b>	<b>35.1</b>	<b>47.9</b>
15-19 years old . . . . .	17,622	0.9	2.7	93.6	2.9	0.9	3.0	93.0	0.6	0.9	96.3
20-24 years old . . . . .	18,274	6.4	26.0	58.0	9.6	6.4	28.0	55.4	5.6	14.5	73.8
25-34 years old . . . . .	43,240	9.5	58.5	25.8	6.2	9.6	61.8	22.5	9.3	36.8	48.3
35-44 years old . . . . .	35,873	8.3	71.9	16.7	3.1	8.1	74.7	14.2	10.2	49.2	35.7
45-54 years old . . . . .	24,622	9.6	74.1	14.1	2.2	9.0	76.8	12.2	15.7	50.9	29.3
55-64 years old . . . . .	21,399	14.5	72.5	11.3	1.7	13.7	75.3	9.6	22.0	48.7	25.2
65 years old and over . . . . .	29,022	30.5	54.4	13.9	1.3	30.6	55.8	12.4	33.4	39.2	25.7
65-74 years old . . . . .	17,747	24.5	63.4	11.0	1.0	24.1	65.5	9.5	31.7	43.6	23.3
75 years old and over . . . . .	11,276	39.9	40.1	18.4	1.6	40.6	40.8	17.1	36.3	32.0	29.8
<b>Male . . . . .</b>	<b>91,033</b>	<b>10.1</b>	<b>58.1</b>	<b>27.2</b>	<b>4.6</b>	<b>9.9</b>	<b>60.7</b>	<b>25.2</b>	<b>12.4</b>	<b>39.1</b>	<b>41.8</b>
15-19 years old . . . . .	8,869	1.0	1.1	95.2	2.7	1.1	1.2	95.1	0.7	0.5	96.0
20-24 years old . . . . .	8,939	7.2	20.1	63.5	9.2	7.3	21.5	61.6	5.7	11.7	76.1
25-34 years old . . . . .	21,461	11.6	54.7	25.9	7.8	11.7	57.2	23.6	11.4	38.1	41.1
35-44 years old . . . . .	17,681	10.6	73.1	12.2	4.1	10.1	75.1	11.1	14.5	55.6	21.5
45-54 years old . . . . .	11,917	9.2	77.7	10.1	2.9	8.6	80.0	9.0	16.3	55.9	21.5
55-64 years old . . . . .	10,088	10.7	80.5	6.8	2.0	9.7	82.7	6.1	19.2	61.2	12.6
65 years old and over . . . . .	12,079	15.9	74.3	8.4	1.4	15.3	76.3	7.2	24.0	56.1	17.7
65-74 years old . . . . .	7,880	13.3	78.4	7.2	1.2	12.5	80.6	5.9	22.8	58.6	16.6
75 years old and over . . . . .	4,199	20.7	66.7	10.9	1.7	20.5	68.3	9.7	25.7	51.7	19.6
<b>Female . . . . .</b>	<b>99,019</b>	<b>13.8</b>	<b>53.4</b>	<b>29.7</b>	<b>3.2</b>	<b>14.0</b>	<b>56.4</b>	<b>26.3</b>	<b>12.9</b>	<b>31.7</b>	<b>52.9</b>
15-19 years old . . . . .	8,754	0.7	4.3	91.9	3.1	0.7	5.0	90.9	0.4	1.2	96.6
20-24 years old . . . . .	9,336	5.6	31.7	52.7	10.0	5.6	34.2	49.4	5.4	16.8	71.9
25-34 years old . . . . .	21,777	7.4	62.2	25.8	4.6	7.5	66.3	21.3	7.4	35.7	54.4
35-44 years old . . . . .	18,193	6.0	70.7	21.0	2.2	6.0	74.4	17.3	6.6	43.8	47.6
45-54 years old . . . . .	12,705	10.0	70.7	17.8	1.6	9.4	73.8	15.3	15.2	46.9	35.5
55-64 years old . . . . .	11,311	17.9	65.3	15.3	1.4	17.4	68.6	12.8	24.3	38.7	35.4
65 years old and over . . . . .	16,944	40.9	40.1	17.8	1.2	41.5	41.2	16.2	39.8	27.9	31.1
65-74 years old . . . . .	9,867	33.5	51.4	14.1	0.9	33.5	53.3	12.3	37.7	33.4	27.8
75 years old and over . . . . .	7,077	51.2	24.3	22.9	1.6	52.3	24.8	21.4	43.4	18.6	36.7

<sup>1</sup> Includes other races not shown separately.

### No. 64. Householder and Marital Status of Population, 15 Years Old and Over: 1989

[In thousands, except percent. As of March. See headnote, table 63]

HOUSEHOLDER AND MARITAL STATUS	Total 15 yrs. and over	MALE					FEMALE				
		Total <sup>1</sup>	20-24 years	25-44 years	45-64 years	65 yr. and over	Total <sup>1</sup>	20-24 years	25-44 years	45-64 years	65 yr. and over
<b>Total persons . . . . .</b>	<b>190,052</b>	<b>91,033</b>	<b>8,939</b>	<b>39,142</b>	<b>22,005</b>	<b>12,079</b>	<b>99,019</b>	<b>9,336</b>	<b>39,970</b>	<b>24,016</b>	<b>16,944</b>
Householder . . . . .	92,830	63,513	2,961	29,904	19,536	10,833	29,317	1,921	10,973	7,285	8,881
Single . . . . .	13,823	7,161	1,383	4,391	791	388	6,662	1,438	3,692	737	579
Married, spouse present . . . . .	52,100	48,792	1,483	22,595	16,238	8,409	3,308	203	1,829	933	321
Married, spouse absent . . . . .	4,156	1,490	31	731	477	252	2,666	147	1,521	760	229
Widowed . . . . .	11,770	1,883	6	74	442	1,361	9,887	6	401	2,397	7,081
Divorced . . . . .	10,962	4,187	59	2,115	1,588	423	6,784	127	3,530	2,459	672
Not householder . . . . .	97,221	27,520	5,977	9,239	2,469	1,243	69,702	7,415	28,998	16,730	8,063
Single . . . . .	36,339	20,261	5,532	5,422	572	182	16,078	4,400	2,843	447	272
Married, spouse present . . . . .	53,748	4,132	311	2,075	1,152	567	49,616	2,761	24,588	15,436	6,475
Married, spouse absent . . . . .	1,540	870	88	524	179	72	670	120	387	103	46
Widowed . . . . .	2,006	399	-	20	50	327	1,607	5	80	336	1,179
Divorced . . . . .	3,588	1,858	46	1,197	515	96	1,730	128	1,097	406	90
<b>PERCENT DISTRIBUTION</b>											
<b>Total persons . . . . .</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Householder . . . . .	48.8	69.8	33.1	76.4	88.8	89.7	29.6	20.6	27.5	30.3	52.4
Single . . . . .	7.3	7.9	15.5	11.2	3.6	3.2	6.7	15.4	9.2	3.1	3.4
Married, spouse present . . . . .	27.4	53.6	16.6	57.7	73.8	69.6	3.3	2.2	4.6	3.9	1.9
Married, spouse absent . . . . .	2.2	1.6	0.3	1.9	2.2	2.1	2.7	1.6	3.8	3.2	1.4
Widowed . . . . .	6.2	2.1	0.1	0.2	2.0	11.3	10.0	0.1	1.0	10.0	41.8
Divorced . . . . .	5.8	4.6	0.7	5.4	7.2	3.5	6.9	1.4	8.8	10.2	4.0
Not householder . . . . .	51.2	30.2	66.9	23.6	11.2	10.3	70.4	79.4	72.5	69.7	47.6
Single . . . . .	19.1	22.3	61.9	13.9	2.6	1.5	16.2	47.1	7.1	1.9	1.6
Married, spouse present . . . . .	28.3	4.5	3.5	5.3	5.2	4.7	50.1	29.6	61.5	64.3	38.2
Married, spouse absent . . . . .	0.8	1.0	1.0	1.3	0.8	0.6	0.7	1.3	1.0	0.4	0.3
Widowed . . . . .	1.1	0.4	-	0.1	0.2	2.7	1.6	0.1	0.2	1.4	7.0
Divorced . . . . .	1.9	2.0	0.5	3.1	2.3	0.8	1.7	1.4	2.7	1.7	0.5

- Represents or rounds to zero. <sup>1</sup> Includes 15-19 year olds.

Source of tables 63 and 64: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 445.

**No. 65. Living Arrangements of Young Adults: 1970 to 1989**

[1970 and 1980, as of April. Beginning 1985, as of March and based on Current Population Survey, see headnote, table 63]

LIVING ARRANGEMENTS AND SEX	PERSONS 18 TO 24 YEARS OLD					PERSONS 25 TO 34 YEARS OLD				
	1970	1980	1985	1988	1989	1970	1980	1985	1988	1989
<b>Total (1,000)</b> . . . . .	<b>22,357</b>	<b>29,122</b>	<b>27,844</b>	<b>26,061</b>	<b>25,629</b>	<b>24,566</b>	<b>36,796</b>	<b>40,857</b>	<b>42,970</b>	<b>43,238</b>
Percent distribution:										
Child of householder <sup>1</sup>	47.3	48.4	53.6	54.4	52.5	8.0	8.7	10.6	11.6	11.2
Family householder or spouse	37.9	28.9	24.3	23.1	23.2	82.8	72.3	67.9	65.5	65.4
Nonfamily householder	4.8	9.5	8.2	8.7	9.2	4.9	12.0	12.9	13.0	13.5
Other	10.0	13.2	13.8	13.8	15.1	4.3	7.0	8.6	9.9	9.9
<b>Male (1,000)</b> . . . . .	<b>10,398</b>	<b>14,278</b>	<b>13,695</b>	<b>12,835</b>	<b>12,574</b>	<b>11,929</b>	<b>18,107</b>	<b>20,184</b>	<b>21,320</b>	<b>21,461</b>
Percent distribution:										
Child of householder <sup>1</sup>	54.3	54.3	59.7	60.7	58.1	9.5	10.5	13.3	15.0	14.6
Family householder or spouse	30.0	21.3	16.4	15.4	15.9	79.3	66.4	60.1	57.1	56.5
Nonfamily householder	5.4	11.1	9.6	9.8	10.7	6.5	15.3	16.1	16.0	17.0
Other	10.3	13.3	14.3	14.1	15.2	4.8	7.9	10.5	11.8	11.9
<b>Female (1,000)</b> . . . . .	<b>11,959</b>	<b>14,844</b>	<b>14,149</b>	<b>13,226</b>	<b>13,055</b>	<b>12,637</b>	<b>18,689</b>	<b>20,673</b>	<b>21,649</b>	<b>21,777</b>
Percent distribution:										
Child of householder <sup>1</sup>	41.3	42.7	47.8	48.4	47.0	6.6	7.0	8.0	8.3	7.9
Family householder or spouse	44.7	36.2	32.0	30.5	30.3	86.1	78.1	75.5	73.8	74.1
Nonfamily householder	4.2	8.1	6.9	7.7	7.8	3.5	8.8	9.7	10.0	10.0
Other	9.7	13.1	13.3	13.4	14.9	3.9	6.2	6.7	7.9	7.9

<sup>1</sup> Includes unmarried college students living in dormitories.

Source: U.S. Bureau of the Census, 1970 and 1980 Census of Population, PC(2)-4B and Current Population Reports, series P-20, No. 445 and earlier reports.

**No. 66. Families, by Size and Presence of Children: 1980 to 1989**

[In thousands, except as indicated. As of March. Excludes members of Armed Forces except those living off post or with their families on post. Based on Current Population Survey; see text, section 1 and Appendix III. For definition of families, see text, section 1]

CHARACTERISTIC	1980, total	1985, total	1989								
			All races <sup>1</sup>			White		Black		Hispanic <sup>4</sup>	
			Total <sup>2</sup>	Mar- ried couple	Female house- holder <sup>3</sup>	Total <sup>2</sup>	Mar- ried couple	Total <sup>2</sup>	Mar- ried couple	Total <sup>2</sup>	Mar- ried couple
<b>Total</b> . . . . .	<b>59,550</b>	<b>62,706</b>	<b>65,837</b>	<b>52,100</b>	<b>10,890</b>	<b>56,492</b>	<b>46,877</b>	<b>7,409</b>	<b>3,722</b>	<b>4,823</b>	<b>3,398</b>
Size of family:											
2 persons . . . . .	23,461	25,349	27,377	20,420	5,241	24,305	18,977	2,555	1,113	1,268	719
3 persons . . . . .	13,603	14,804	15,444	11,608	3,150	13,048	10,386	1,938	901	1,166	747
4 persons . . . . .	12,372	13,259	14,068	12,320	1,470	12,111	11,075	1,463	818	1,145	910
5 persons . . . . .	5,930	5,894	6,056	5,372	589	4,922	4,565	867	564	695	566
6 persons . . . . .	2,461	2,175	1,901	1,581	264	1,460	1,295	325	174	319	257
7 or more persons . . . . .	1,723	1,225	990	799	177	646	579	261	151	230	199
Average per family . . . . .	3.29	3.23	3.16	3.23	2.95	3.11	3.18	3.43	3.59	3.76	3.95
Own children under age 18:											
None . . . . .	28,528	31,594	33,515	27,365	4,371	29,687	25,068	3,078	1,753	1,728	1,164
1 . . . . .	12,443	13,108	13,612	9,829	3,164	11,291	8,673	1,873	803	1,166	822
2 . . . . .	11,470	11,645	12,292	9,870	2,095	10,483	8,838	1,370	683	1,049	761
3 . . . . .	4,674	4,486	4,666	3,727	849	3,754	3,216	695	327	556	421
4 or more . . . . .	2,435	1,873	1,751	1,308	411	1,277	1,082	393	156	324	230
Own children under age 6:											
None . . . . .	46,063	48,505	50,746	40,089	8,191	44,004	36,268	5,374	2,801	3,169	2,150
1 . . . . .	9,441	9,677	10,188	7,971	1,922	8,452	7,041	1,354	605	1,064	785
2 or more . . . . .	4,047	4,525	4,903	4,038	777	4,035	3,567	682	316	591	464
<b>PERCENT DISTRIBUTION</b>											
<b>Total</b> . . . . .	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Size of family:											
2 persons . . . . .	39.4	40.4	41.6	39.2	48.1	43.0	40.5	34.5	29.9	26.3	21.2
3 persons . . . . .	22.8	23.6	23.5	22.3	28.9	23.1	22.2	26.2	24.2	24.2	22.0
4 persons . . . . .	20.8	21.1	21.4	23.6	13.5	21.4	23.6	19.7	22.0	23.7	26.8
5 persons . . . . .	10.0	9.4	9.2	10.3	5.4	8.7	9.7	11.7	15.2	14.4	16.7
6 persons . . . . .	4.1	3.5	2.9	3.0	2.4	2.6	2.8	4.4	4.7	6.6	7.6
7 or more persons . . . . .	2.9	2.0	1.5	1.5	1.6	1.1	1.2	3.5	4.1	4.8	5.9
Own children under age 18:											
None . . . . .	47.9	50.4	50.9	52.5	40.1	52.6	53.5	41.5	47.1	35.8	34.3
1 . . . . .	20.9	20.9	20.7	18.9	29.1	20.0	18.5	25.3	21.6	24.2	24.2
2 . . . . .	19.3	18.6	18.7	18.9	19.2	18.6	18.9	18.5	18.4	21.7	22.4
3 . . . . .	7.8	7.2	7.1	7.2	7.8	6.6	6.9	9.4	8.8	11.5	12.4
4 or more . . . . .	4.1	3.0	2.7	2.5	3.8	2.3	2.3	5.3	4.2	6.7	6.8
Own children under age 6:											
None . . . . .	77.4	77.4	77.1	76.9	75.2	77.9	77.4	72.5	75.3	65.7	63.3
1 . . . . .	15.9	15.4	15.5	15.3	17.6	15.0	15.0	18.3	16.3	22.1	23.1
2 or more . . . . .	6.8	7.2	7.4	7.8	7.1	7.1	7.6	9.2	8.5	12.3	13.7

<sup>1</sup> Includes other races, not shown separately. <sup>2</sup> Includes other types of families, not shown separately. <sup>3</sup> No spouse present. <sup>4</sup> Hispanic persons may be of any race.

Source: U.S. Bureau of the Census, Current Population Reports, series P-20, No. 447 and earlier reports.

**No. 67. Families, by Number of Own Children Under 18 Years Old: 1970 to 1989**

[Except as noted, as of **March** and based on Current Population Survey; see headnote, table 66. See also *Historical Statistics, Colonial Times to 1970*, series A 353-358]

RACE, HISPANIC ORIGIN, AND YEAR	NUMBER OF FAMILIES (1,000)					PERCENT DISTRIBUTION					Average size of family
	Total	No children	One child	Two children	Three or more children	Total	No children	One child	Two children	Three or more children	
ALL FAMILIES <sup>1</sup>											
1970 .....	51,586	22,774	9,398	8,969	10,445	100.0	44.1	18.2	17.4	20.2	3.58
1980 .....	59,550	28,528	12,443	11,470	7,109	100.0	47.9	20.9	19.3	11.9	3.29
1985 .....	62,706	31,594	13,108	11,645	6,359	100.0	50.4	20.9	18.6	10.1	3.23
1989 .....	65,837	33,515	13,612	12,292	6,417	100.0	50.9	20.7	18.7	9.7	3.16
Married couple .....	52,100	27,365	9,829	9,870	5,035	100.0	52.5	18.9	18.9	9.7	3.23
Male householder <sup>2</sup> .....	2,847	1,779	619	326	121	100.0	62.5	21.7	11.5	4.3	2.75
Female householder <sup>2</sup> .....	10,890	4,371	3,164	2,095	1,260	100.0	40.1	29.1	19.2	11.6	2.95
WHITE FAMILIES											
1970 .....	46,261	20,719	8,437	8,174	8,931	100.0	44.8	18.2	17.7	19.3	3.52
1980 .....	52,243	25,769	10,727	9,977	5,769	100.0	49.3	20.5	19.1	11.0	3.23
1985 .....	54,400	28,169	11,174	9,937	5,120	100.0	51.8	20.5	18.3	9.4	3.16
1989 .....	56,492	29,687	11,291	10,483	5,031	100.0	52.6	20.0	18.6	8.9	3.11
BLACK FAMILIES											
1970 .....	4,887	1,903	858	726	1,401	100.0	38.9	17.6	14.8	28.7	4.13
1980 .....	6,184	2,364	1,449	1,235	1,136	100.0	38.2	23.4	20.0	18.4	3.67
1985 .....	6,778	2,887	1,579	1,330	982	100.0	42.6	23.3	19.6	14.5	3.60
1989 .....	7,409	3,078	1,873	1,370	1,088	100.0	41.5	25.3	18.5	14.7	3.43
HISPANIC FAMILIES <sup>3</sup>											
1970 .....	2,004	597	390	388	629	100.0	29.8	19.5	19.4	31.4	4.28
1980 .....	3,029	946	680	698	706	100.0	31.2	22.4	23.0	23.3	3.90
1985 .....	3,939	1,337	904	865	833	100.0	33.9	22.9	22.0	21.1	3.88
1989 .....	4,823	1,728	1,166	1,049	880	100.0	35.8	24.2	21.7	18.2	3.76

<sup>1</sup> Includes other races, not shown separately. <sup>2</sup> No spouse present. <sup>3</sup> Hispanic persons may be of any race. 1970 Hispanic data as of April and based on Census of Population.

Source: U.S. Bureau of the Census, *U.S. Census of Population, 1970 (PC-2-4A)*, and *Current Population Reports*, series P-20, No. 447 and earlier reports.

**No. 68. Family Households With Own Children Under Age 18, by Type of Family, 1970 to 1989, and by Age of Householder, 1989**

[As of **March**. Excludes members of Armed Forces except those living off post or with their families on post. Based on Current Population Survey; see text, section 1, and Appendix III]

FAMILY TYPE	1970	1980	1985	1989						
				Total	15-24 years old	25-34 years old	35-44 years old	45-54 years old	55-64 years old	65 years old and over
NUMBER (1,000)										
Family households with children . . .	28,731	31,022	31,112	32,322	1,864	11,560	13,054	4,831	876	138
Married couple . . . . .	25,532	24,961	24,210	24,735	978	8,609	10,333	4,005	711	99
Male householder . . . . .	341	616	896	1,068	114	307	404	184	49	11
Female householder . . . . .	2,858	5,445	6,006	6,519	773	2,643	2,316	642	115	28
PERCENT DISTRIBUTION										
Family households with children . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Married couple . . . . .	88.9	80.5	77.8	76.5	52.5	74.5	79.2	82.9	81.2	71.7
Male householder . . . . .	1.2	2.0	2.9	3.3	6.1	2.7	3.1	3.8	5.6	8.0
Female householder . . . . .	9.9	17.6	19.3	20.2	41.5	22.9	17.7	13.3	13.1	20.3
HOUSEHOLDS WITH CHILDREN, AS A PERCENT OF ALL FAMILY HOUSEHOLDS, BY TYPE										
Family households with children, total . . . . .	55.8	52.1	49.6	49.1	62.0	76.6	80.1	42.6	9.3	1.3
Married couple . . . . .	57.1	50.8	48.1	47.5	55.1	74.1	80.7	43.7	8.9	1.1
Male householder . . . . .	27.8	35.5	40.2	37.5	36.9	46.7	60.8	36.7	16.4	2.7
Female householder . . . . .	52.0	62.6	59.3	59.9	83.7	93.4	82.0	38.3	9.9	1.9

<sup>1</sup> No spouse present.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 447 and earlier reports.

# No. 69. Living Arrangements of Children Under 18 Years Old, by Selected Characteristic of Parent: 1989

[In thousands. As of March. Covers only those persons under 18 years old who are living with one or both parents. Characteristics are shown for the householder or reference person in married-couple situations. See also headline, table 70]

CHARACTERISTIC OF PARENT	ALL RACES <sup>1</sup>			WHITE			BLACK			HISPANIC <sup>2</sup>		
	Living with—			Living with—			Living with—			Living with—		
	Total	Both parents	Mother only	Father only	Total	Both parents	Mother only	Father only	Total	Both parents	Mother only	Father only
Children under 18 years old ...	82,043	46,549	13,700	1,793	50,332	40,706	8,220	1,406	9,100	3,739	5,023	339
Age:												
5-24 years old .....	3,882	1,499	2,000	173	2,444	1,318	1,005	123	1,110	127	936	46
25-29 years old .....	8,703	5,679	2,793	231	6,744	4,938	1,636	173	1,697	109	1,097	46
30-34 years old .....	14,463	10,759	3,398	308	11,763	8,539	1,990	234	2,243	554	1,319	70
35-39 years old .....	15,520	12,383	2,758	378	12,818	10,983	1,828	297	2,020	920	1,030	70
40-44 years old .....	10,934	8,910	1,874	350	8,336	7,845	1,195	296	1,124	662	416	46
45-49 years old .....	7,383	6,214	894	274	6,187	5,310	648	208	665	455	160	51
50-54 years old .....	1,201	985	150	68	811	765	88	58	218	151	59	8
55-64 years old .....	177	131	38	10	149	114	27	8	24	15	7	1
65 years and over .....												
Educational attainment:												
Elementary, 0 to 8 years .....	4,742	3,260	1,296	185	3,757	2,738	868	152	589	235	325	30
High school, 1 to 3 years .....	7,660	4,243	3,119	298	5,392	3,505	1,653	223	2,013	1,374	639	69
College, 1 to 3 years .....	24,167	17,482	5,922	782	19,493	15,371	3,551	571	3,994	1,820	2,211	164
4 years .....	11,754	9,185	2,258	206	9,686	8,053	1,392	241	1,645	878	765	65
5 or more years .....	7,435	5,584	1,798	133	6,424	5,903	484	126	536	318	216	21
Employment status: <sup>3</sup>												
In the civilian labor force .....	52,672	42,735	8,352	1,585	44,430	37,843	5,324	1,263	6,208	3,124	2,798	294
Employed .....	49,950	41,191	7,278	1,481	42,728	36,656	4,863	1,208	5,967	2,920	2,199	248
Both parents employed .....	25,594	25,594	1,073	104	22,444	22,444	461	(X)	2,133	2,133	(X)	(X)
Unemployed .....	2,722	1,544	1,073	104	1,702	1,186	461	135	839	204	569	46
Not in the labor force .....	8,294	2,769	5,336	187	5,101	2,062	2,887	122	2,689	411	2,233	44
Family income:												
Under \$5,000 .....	3,994	739	3,109	147	2,270	563	1,619	88	1,557	103	1,399	54
\$5,000-\$9,999 .....	5,092	1,654	3,277	161	3,146	1,265	1,754	126	1,653	238	1,391	24
\$10,000-\$14,999 .....	5,212	2,795	2,175	242	3,761	2,307	1,268	166	1,128	289	789	97
\$15,000-\$24,999 .....	10,269	7,369	2,464	416	6,207	3,648	1,823	336	1,673	802	800	73
\$25,000-\$39,999 .....	5,423	4,361	861	201	4,652	3,867	627	158	588	344	216	36
\$40,000-\$49,999 .....	10,072	8,948	887	237	8,715	7,876	852	187	985	731	213	42
\$50,000 and over .....	7,857	7,219	410	228	6,966	6,460	300	196	618	493	96	30
Tenure: <sup>4</sup>												
Owned .....	38,790	34,376	4,433	980	30,978	3,294	4,986	823	3,400	2,200	1,061	138
Rented .....	22,253	12,173	9,267	813	15,297	9,728	4,986	582	5,700	1,539	3,962	200

<sup>1</sup> Represents or rounds to zero. <sup>2</sup> Excludes children whose parent is in the Armed Forces. <sup>3</sup> Refers to the tenure of the householder (who may or may not be the child's parent). <sup>4</sup> Source: U.S. Bureau of the Census, Current Population Reports, series P-20, No. 445.



**No. 70. Children Under 18 Years Old, by Presence of Parents: 1970 to 1989**

[As of March. Excludes persons under 18 years old who maintained households or family groups. Based on Current Population Survey; see headnote, table 66]

RACE, HISPANIC ORIGIN, AND YEAR	Number (1,000)	PERCENT LIVING WITH—							Neither parent
		Both parents	Mother only				Father only		
			Total	Divorced	Married, spouse absent	Single <sup>1</sup>		Wid-owed	
ALL RACES <sup>2</sup>									
1970	69,162	85.2	10.8	3.3	4.7	0.8	2.0	1.1	2.9
1980	63,427	76.7	18.0	7.5	5.7	2.8	2.0	1.7	3.6
1985	62,475	73.9	20.9	8.5	5.4	5.6	1.5	2.5	2.7
1988	63,179	72.7	21.4	7.9	5.3	6.8	1.3	2.9	3.0
1989	63,637	73.1	21.5	8.2	5.3	6.7	1.3	2.8	2.5
WHITE									
1970	58,790	89.5	7.8	3.1	2.8	0.2	1.7	0.9	1.8
1980	52,242	82.7	13.5	7.0	3.9	1.0	1.7	1.6	2.2
1985	50,836	80.0	15.6	8.1	4.1	2.1	1.3	2.4	2.0
1988	51,030	78.9	16.0	8.0	4.0	2.9	1.1	2.9	2.2
1989	51,134	79.6	16.1	8.1	4.0	2.9	1.1	2.7	1.6
BLACK									
1970	9,422	58.5	29.5	4.6	16.3	4.4	4.2	2.3	9.7
1980	9,375	42.2	43.9	10.9	16.2	12.8	4.0	1.9	11.9
1985	9,479	39.5	51.0	11.3	12.4	24.8	2.5	2.9	6.6
1988	9,699	38.6	51.1	8.4	12.1	28.2	2.5	3.0	7.4
1989	9,835	38.0	51.1	9.5	12.1	27.4	2.1	3.4	7.5
HISPANIC <sup>3</sup>									
1970	<sup>4</sup> 4,006	77.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1980	5,459	75.4	19.6	5.9	8.2	4.0	1.5	1.5	3.5
1985	6,057	67.9	26.6	7.3	11.1	6.5	1.7	2.2	3.3
1988	6,786	66.3	27.2	7.9	8.8	8.8	1.6	3.0	3.6
1989	6,973	67.0	27.8	7.7	10.3	8.5	1.4	2.7	2.5

NA Not available. <sup>1</sup> Never married. <sup>2</sup> Includes other races not shown separately. <sup>3</sup> Hispanic persons may be of any race. <sup>4</sup> All persons under 18 years old.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 445 and earlier reports.

**No. 71. Female Family Householders With No Spouse Present—Characteristics, by Race: 1970 to 1989**

[As of March. 1970 covers persons 14 years old and over; beginning 1980, covers persons 15 years old and over. Based on Current Population Survey; see headnote, table 66]

CHARACTERISTIC	Unit	WHITE					BLACK				
		1970	1980	1985	1988	1989	1970	1980	1985	1988	1989
<b>Female family householder</b>	<b>1,000</b>	<b>4,185</b>	<b>6,052</b>	<b>6,941</b>	<b>7,235</b>	<b>7,342</b>	<b>1,349</b>	<b>2,495</b>	<b>2,964</b>	<b>3,074</b>	<b>3,223</b>
Percent of all families	Percent	9.1	11.6	12.8	12.9	13.0	28.3	40.3	43.7	42.8	43.5
Median age	Years	50.4	43.7	42.7	42.2	42.5	41.3	37.4	38.0	38.1	37.2
Marital status:											
Single (never married)	Percent	9.2	10.6	11.9	15.1	15.7	16.2	27.3	33.4	35.9	38.5
Married, spouse absent	Percent	18.5	16.9	16.0	15.7	14.7	39.7	28.6	21.1	23.2	22.2
Separated	Percent	11.4	13.9	13.8	12.6	12.2	33.8	26.8	19.3	20.3	19.3
Other	Percent	7.2	3.0	2.1	3.0	2.5	5.9	1.8	1.7	2.9	2.9
Widowed	Percent	47.0	32.7	28.3	27.0	26.7	29.9	22.2	21.2	18.8	17.3
Divorced	Percent	25.3	39.8	43.8	42.2	43.0	14.2	21.9	24.5	22.1	22.0
Presence of children under 18:											
No own children	Percent	52.0	41.2	43.5	43.8	43.6	33.5	28.1	34.5	34.3	32.7
With own children	Percent	48.0	58.8	56.5	56.2	56.4	66.6	71.9	65.5	65.7	67.3
1 child	Percent	18.8	28.1	28.9	28.5	28.9	19.1	26.3	27.5	28.1	29.8
2 children	Percent	15.0	19.9	18.6	18.9	18.7	14.4	23.2	21.6	20.2	19.7
3 children	Percent	7.8	7.4	6.4	6.4	6.4	12.5	11.1	10.1	10.5	10.8
4 or more children	Percent	6.4	3.4	2.6	2.4	2.4	20.6	11.3	6.3	6.9	7.0
Children per family	Number	1.00	1.03	0.96	0.94	0.95	1.83	1.51	1.29	1.23	1.24

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 447 and earlier reports.

### No. 72. Nonfamily Households, by Age of Householder and Presence of Nonrelatives: 1980 to 1989

[As of March. See headnote, table 66]

ITEM	NONFAMILY HOUSEHOLDS		MALE HOUSEHOLDER (1,000)					FEMALE HOUSEHOLDER (1,000)				
	Total (1,000)	Per cent	Total	15-24 yr. old	25-44 yr. old	45-64 yr. old	65 yr. old and over	Total	15-24 yr. old	25-44 yr. old	45-64 yr. old	65 yr. old and over
<b>1980, total</b> .....	<b>21,226</b>	<b>100.0</b>	<b>8,807</b>	<b>1,567</b>	<b>3,854</b>	<b>1,822</b>	<b>1,585</b>	<b>12,419</b>	<b>1,189</b>	<b>2,198</b>	<b>3,048</b>	<b>5,983</b>
One-person (living alone) .....	18,296	86.2	6,966	947	2,920	1,613	1,486	11,330	779	1,809	2,901	5,842
Nonrelatives present .....	2,930	13.8	1,841	620	934	209	79	1,089	410	389	147	141
<b>1985, total</b> .....	<b>24,082</b>	<b>100.0</b>	<b>10,114</b>	<b>1,331</b>	<b>5,008</b>	<b>2,082</b>	<b>1,693</b>	<b>13,968</b>	<b>980</b>	<b>3,057</b>	<b>3,275</b>	<b>6,656</b>
One-person (living alone) .....	20,602	85.5	7,922	750	3,713	1,845	1,614	12,680	573	2,514	3,095	6,498
Nonrelatives present .....	3,480	14.5	2,192	581	1,295	237	79	1,288	407	542	181	160
<b>1989, total</b> .....	<b>26,994</b>	<b>100.0</b>	<b>11,874</b>	<b>1,380</b>	<b>5,988</b>	<b>2,498</b>	<b>2,009</b>	<b>15,120</b>	<b>1,030</b>	<b>3,489</b>	<b>3,519</b>	<b>7,081</b>
One-person (living alone) .....	22,708	84.1	9,193	733	4,362	2,181	1,916	13,515	581	2,705	3,295	6,934
Nonrelatives present .....	4,285	15.9	2,681	645	1,626	316	93	1,604	448	784	224	146

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 445 and earlier reports; and unpublished data.

### No. 73. Nonfamily Householders, by Sex and Marital Status: 1980 to 1989

[In thousands. As of March. Based on Current Population Survey; see headnote, table 66]

MARITAL STATUS	MALE HOUSEHOLDER						FEMALE HOUSEHOLDER					
	1980	1985	1989				1980	1985	1989			
			Total 1	25-44 yr.	45-64 yr.	65 yr. old and over			Total 1	25-44 yr.	45-64 yr.	65 yr. old and over
Total .....	8,807	10,114	11,874	5,988	2,498	2,009	12,419	13,968	15,120	3,489	3,519	7,081
Single .....	4,371	5,067	6,117	3,825	660	317	3,302	3,756	4,203	2,235	523	476
Married 2 .....	1,051	1,081	1,116	528	361	204	675	724	801	252	327	202
Widowed .....	1,177	1,212	1,384	33	246	1,102	6,569	7,057	7,287	71	1,355	5,855
Divorced .....	2,209	2,755	3,257	1,602	1,232	386	1,873	2,431	2,828	932	1,315	548

<sup>1</sup> Includes persons 15-24 years old not shown separately. <sup>2</sup> No spouse present.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 445 and earlier reports; and unpublished data.

### No. 74. Persons Living Alone, by Sex and Age: 1970 to 1989

[As of March. Based on Current Population Survey; see headnote, table 66]

SEX AND AGE	NUMBER OF PERSONS (1,000)							PERCENT DISTRIBUTION				
	1970	1975	1980	1985	1987	1988	1989	1970	1975	1980	1985	1989
<b>Both sexes</b>	<b>10,851</b>	<b>13,939</b>	<b>18,296</b>	<b>20,602</b>	<b>21,128</b>	<b>21,889</b>	<b>22,708</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
15-24 years old	556	1,111	1,726	1,324	1,252	1,244	1,315	5.1	8.0	9.4	6.4	5.8
25-34 years old	1,604	2,744	4,729	3,905	3,858	4,019	4,097	14.8	19.7	25.8	19.0	18.0
35-44 years old	3,622	4,076	4,514	4,939	4,865	5,104	5,476	33.4	29.2	24.7	24.0	24.1
45-64 years old	2,815	3,281	3,851	4,130	4,160	4,243	4,355	25.9	23.5	21.0	20.0	19.2
65-74 years old	2,256	2,727	3,477	3,982	4,351	4,440	4,496	20.8	19.6	19.0	19.3	19.8
75 years old and over												
<b>Male</b>	<b>3,532</b>	<b>4,918</b>	<b>6,966</b>	<b>7,922</b>	<b>8,246</b>	<b>8,788</b>	<b>9,193</b>	<b>32.5</b>	<b>35.3</b>	<b>38.1</b>	<b>38.5</b>	<b>40.5</b>
15-24 years old	274	610	947	750	661	653	733	2.5	4.4	5.2	3.6	3.2
25-34 years old	933	1,689	2,920	2,307	2,296	2,369	2,490	8.6	12.1	16.0	11.2	11.0
35-44 years old	1,152	1,329	1,613	1,406	1,585	1,776	1,872	10.6	9.5	8.8	9.0	9.6
45-64 years old	611	723	775	868	937	1,014	1,045	5.6	5.2	4.2	4.2	4.6
65-74 years old	563	567	711	746	865	899	871	5.2	4.1	3.9	3.6	3.8
75 years old and over												
<b>Female</b>	<b>7,319</b>	<b>9,021</b>	<b>11,330</b>	<b>12,680</b>	<b>12,881</b>	<b>13,101</b>	<b>13,515</b>	<b>67.5</b>	<b>64.7</b>	<b>61.9</b>	<b>61.5</b>	<b>59.5</b>
15-24 years old	282	501	779	573	591	591	581	2.6	3.6	4.3	2.8	2.6
25-34 years old	671	1,055	1,809	1,598	1,562	1,650	1,607	6.2	7.6	9.9	7.8	7.1
35-44 years old	2,470	2,747	2,901	3,095	2,963	3,027	3,295	22.8	19.7	15.9	15.0	14.5
45-64 years old	2,204	2,558	3,076	3,262	3,223	3,229	3,310	20.3	18.4	16.8	15.8	14.6
65-74 years old	1,693	2,160	2,766	3,236	3,486	3,541	3,624	15.6	15.5	15.1	15.7	16.0
75 years old and over												

<sup>1</sup> 1970 and 1975, persons 14-24 years old.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 445 and earlier reports; and unpublished data.

### No. 75. Population in Institutions and Other Group Quarters, by Sex and Type of Quarters: 1960 to 1980

[In thousands. As of April 1. Based on sample data and subject to sampling variability; see text, section 1 and Appendix III. See *Historical Statistics, Colonial Times to 1970*, series A 359-371, for inmates of institutions]

TYPE OF QUARTERS	1960	1970			1980		
		Total	Male	Female	Total	Male	Female
<b>Total</b> .....	<b>4,902</b>	<b>5,786</b>	<b>3,438</b>	<b>2,349</b>	<b>5,738</b>	<b>3,153</b>	<b>2,586</b>
Institutional inmates .....	1,887	2,127	1,126	1,000	2,492	1,231	1,261
Homes for the aged and dependent .....	470	928	299	629	1,426	422	1,004
Mental hospitals and residential treatment centers .....	630	434	245	189	255	157	99
Correctional institutions .....	346	328	314	15	466	439	27
Tuberculosis hospitals .....	65	17	12	5	8	6	1
Chronic disease hospitals (excl. TB and mental) ..	42	67	38	29	61	36	25
Homes and schools for the mentally handicapped .....	175	202	114	88	149	85	65
Homes and schools for the physically handicapped .....	24	23	16	6	27	15	12
Homes for dependent and neglected children .....	73	48	28	19	38	24	14
Homes for unwed mothers .....	3	4	(Z)	4	2		2
Training schools for juvenile delinquents .....	46	66	53	14	42	34	8
Detention homes .....	11	10	7	4	17	14	3
College dormitories .....	829	1,765	891	874	1,994	989	1,006
Military quarters .....	868	1,025	1,005	20	671	613	58
Rooming and boarding houses .....	634	330	191	139	176	107	69
Other .....	684	539	224	315	404	212	192

- Represents or rounds to zero. Z Fewer than 500.

Source: U.S. Bureau of the Census, *U.S. Census of Population: 1960*, vol. I, chapter D, and vol. II; *Census of Population: 1970*, vols. I and II; and *1980 Census of Population*, vol. 2 (PC80-2-4D).

### No. 76. Religious Preference, Church Membership and Attendance: 1957 to 1989

[In percent. Covers civilian noninstitutional population, 18 years old and over. Data represent averages of the combined results of several surveys during year. Data are subject to sampling variability, see source]

YEAR	RELIGIOUS PREFERENCE					Church/ syna- gogue members	Persons attend- ing church/ syna- gogue <sup>1</sup>	AGE AND REGION	Church/ syna- gogue members, 1989
	Protes- tant	Catho- lic	Jewish	Other	None				
1957 .....	66	26	3	1	3	73	47	18-29 years old. ....	61
1967 .....	67	25	3	3	2	73	43	30-49 years old. ....	66
1975 .....	62	27	2	4	6	71	41	50 years and over. ....	76
1980 .....	61	28	2	2	7	69	40	East <sup>4</sup> .....	69
1985 .....	57	28	2	4	9	71	42	Midwest <sup>5</sup> .....	72
1988 .....	56	28	2	2	9	65	42	South <sup>6</sup> .....	74
1989 .....	56	28	2	4	10	69	43	West <sup>7</sup> .....	55

<sup>1</sup> Persons who attended a church or synagogue in the last seven days. <sup>2</sup> 1952 data. <sup>3</sup> 1965 data. <sup>4</sup> ME, NH, RI, NY, CT, VT, MA, NJ, PA, WV, DE, MD, and DC. <sup>5</sup> OH, IN, IL, MI, MN, WI, IA, ND, SD, KS, NE, and MO. <sup>6</sup> KY, TN, VA, NC, SC, GA, FL, AL, MS, TX, AR, OK, and LA. <sup>7</sup> AZ, NM, CO, NV, MT, ID, WY, UT, CA, WA, OR, AK, and HI.

Source: The Gallup Organization, Princeton, NJ, "Religion in America" in *The Gallup Report*, periodic.

### No. 77. Religious Bodies—Church Membership, 1960 to 1988, and Number of Churches, 1988

[Membership in thousands, except as indicated. See headnote, table 76. See also *Historical Statistics, Colonial Times to 1970*, series H 793-799]

RELIGIOUS BODY	MEMBERSHIP						Number of churches, 1988
	1960	1970	1975	1980	1985	1988	
<b>Total</b> .....	<b>114,449</b>	<b>131,045</b>	<b>131,013</b>	<b>134,817</b>	<b>142,926</b>	<b>145,384</b>	<b>350,521</b>
Members as percent of population <sup>1</sup> .....	64	63	61	59	60	59	(X)
Average members per local church .....	359	399	393	401	413	415	(X)
Buddhist Churches of America .....	20	100	60	60	100	100	100
Eastern Churches .....	2,699	3,850	3,696	3,823	4,026	4,077	1,689
Jews <sup>2</sup> .....	5,367	5,870	6,115	5,920	5,835	5,935	3,416
Old Catholic, Polish National Catholic, and Armenian Churches .....	590	848	846	924	1,024	827	431
The Roman Catholic Church .....	42,105	48,215	48,882	50,450	52,655	54,919	23,091
Protestants <sup>3</sup> .....		71,713	71,043	73,479	79,096	79,329	320,664
Miscellaneous <sup>4</sup> .....	63,669	449	372	161	191	197	1,130

X Not applicable. <sup>1</sup> Based on Bureau of the Census estimated total population as of July 1. <sup>2</sup> Estimates of the Jewish community including those identified with Orthodox, Conservative and Reformed synagogues or temples. <sup>3</sup> Includes nonprotestant bodies such as "Latter-day Saints" and "Jehovah's Witnesses." <sup>4</sup> Includes non-Christian bodies such as "Spiritualists," "Ethical Culture Movement," and "Unitarian-Universalists."

Source: National Council of the Churches of Christ in the United States of America, New York, NY, *Yearbook of American and Canadian Churches*, annual. (Copyright.)

## No. 78. Religious Bodies—Selected Data

[Represents latest information available from religious bodies with memberships of 50,000 or more; excludes a few groups giving no data. Not all groups follow same calendar year nor count membership in same way; some groups give only approximate figures. Roman Catholics count all baptized persons, including infants; Jewish statistics are estimates of the number of persons living in Jewish households including as a consequence of intermarriage, approximately 7.4 percent non-Jewish persons. Eastern Orthodox Churches include all persons in their nationality or cultural groups; most Protestant bodies count only persons who have attained full membership, and previous estimates have indicated that all but a small minority of these are over 11 years of age; however, many Lutheran bodies and The Episcopal Church report all baptized persons, and not only those confirmed. Data which appear in italics are "noncurrent," i.e., they are reported for 1987 or earlier. All other data are "current" and were reported in 1988 or 1989]

RELIGIOUS BODY	Year	Churches reported	Membership (1,000)	Pastors serving parishes	Sunday school enrollment (1,000)
<b>Total</b>	<b>(X)</b>	<b>350,521</b>	<b>145,384</b>	<b>335,389</b>	<b>25,091</b>
<b>Bodies with membership of 50,000 or more</b>	<b>(X)</b>	<b>335,179</b>	<b>143,839</b>	<b>320,621</b>	<b>24,824</b>
Current data	(X)	207,642	106,919	200,890	24,813
Noncurrent data	(X)	127,537	36,920	119,731	11
<i>African Methodist Episcopal Church</i>	1981	6,200	2,210	6,050	(NA)
<i>African Methodist Episcopal Zion Church</i>	1987	6,060	1,220	6,300	(NA)
<i>American Baptist Association</i>	1986	1,705	250	1,740	(NA)
<i>American Baptist Churches in the U.S.A.</i>	1988	5,839	1,540	5,250	361
<i>American Carpatho-Russian Orthodox Greek Catholic Church</i>	1976	70	100	61	(NA)
<i>Antiochian Orthodox Christian Archdiocese of North America, The</i>	1988	150	300	138	22
<i>Apostolic Catholic Assyrian Church of the East, N. American Diocese</i>	1989	22	120	92	1
<i>Armenian Church of America, Diocese of the</i>	1979	66	450	45	(NA)
<i>Assemblies of God</i>	1988	11,123	2,147	15,617	1,364
<i>Baptist Bible Fellowship, International</i>	1986	3,449	1,406	3,400	(NA)
<i>Baptist General Conference</i>	1989	789	135	1,200	67
<i>Baptist Missionary Association of America</i>	1988	1,347	228	1,500	95
<i>Buddhist Churches of America</i>	1984	100	100	70	(NA)
<i>Bulgarian Eastern Orthodox Church (Diocese of N. and S. America and Australia)</i>	1971	13	86	(NA)	11
<i>Christian and Missionary Alliance, The</i>	1988	1,793	260	1,669	189
<i>Christian Brethren (a.k.a. Plymouth Brethren)</i>	1984	1,150	98	(NA)	(NA)
<i>Christian Church (Disciples of Christ)</i>	1988	4,159	1,073	3,963	327
<i>Christian Churches and Churches of Christ</i>	1988	5,579	1,071	5,525	(NA)
<i>Christian Congregation, Inc., The</i>	1988	1,456	108	1,454	79
<i>Christian Methodist Episcopal Church</i>	1983	2,340	719	2,340	(NA)
<i>Christian Reformed Church in North America</i>	1988	699	222	609	(NA)
<i>Church of God, The</i>	1978	2,035	76	1,910	(NA)
<i>Church of God (Anderson, IN)</i>	1988	2,336	199	1,989	182
<i>Church of God (Cleveland, TN)</i>	1989	5,763	582	6,207	509
<i>Church of God in Christ, The</i>	1982	9,982	3,710	9,204	(NA)
<i>Church of God in Christ, International, The</i>	1982	300	200	700	(NA)
<i>Church of God of Prophecy, The</i>	1989	2,111	74	(NA)	88
<i>Church of Jesus Christ of Latter-day Saints, The</i>	1987	8,682	4,000	26,046	(NA)
<i>Church of the Brethren</i>	1988	1,079	151	975	(NA)
<i>Church of the Nazarene</i>	1988	5,129	552	4,171	862
<i>Churches of Christ</i>	1989	13,375	1,626	(NA)	(NA)
<i>Community Churches, International Council of</i>	1989	200	250	(NA)	(NA)
<i>Congregational Christian Churches, National Association of</i>	1989	400	90	375	(NA)
<i>Conservative Baptist Association of America</i>	1988	1,121	204	(NA)	(NA)
<i>Coptic Orthodox Church</i>	1989	40	160	44	(NA)
<i>Cumberland Presbyterian Church</i>	1988	752	91	440	43
<i>Episcopal Church, The</i>	1988	7,360	2,455	8,131	556
<i>Evangelical Covenant Church, The</i>	1988	584	88	836	75
<i>Evangelical Free Church of America</i>	1986	880	96	(NA)	(NA)
<i>Evangelical Lutheran Church in America</i>	1988	11,120	5,252	10,083	1,166
<i>Evangelical Presbyterian Church</i>	1989	155	50	181	25
<i>Free Methodist Church of North America</i>	1988	1,071	74	1,133	108
<i>Free Will Baptists, National Association of</i>	1988	2,496	204	2,800	156
<i>Friends United Meeting</i>	1988	545	55	341	24
<i>Full Gospel Fellowship of Churches and Ministers, International</i>	1985	450	65	850	(NA)
<i>General Association of Regular Baptist Churches</i>	1989	1,585	260	2,000	310
<i>General Baptists (General Association of)</i>	1988	868	74	(NA)	(NA)
<i>Greek Orthodox Archdiocese of North and South America</i>	1977	535	1,950	610	(NA)
<i>Independent Fundamental Churches of America</i>	1980	1,019	120	782	(NA)
<i>International Church of the Foursquare Gospel</i>	1988	1,363	199	(NA)	47
<i>Jehovah's Witnesses</i>	1989	8,851	805	-	-
<i>Jews</i>	1988	3,416	5,936	(NA)	(NA)
<i>Liberty Baptist Fellowship</i>	1987	510	200	150	(NA)
<i>Lutheran Church - Missouri Synod, The</i>	1988	5,939	2,604	5,238	652
<i>Mennonite Church</i>	1988	1,023	93	1,448	(NA)
<i>National Baptist Convention of America</i>	1956	11,396	2,669	7,598	(NA)
<i>National Baptist Convention, U.S.A., Inc.</i>	1958	26,000	5,500	26,000	(NA)
<i>National Primitive Baptist Convention, Inc.</i>	1975	616	250	460	(NA)
<i>North American Old Roman Catholic Church</i>	1986	133	63	109	(NA)
<i>Old Order Amish Church</i>	1988	756	68	3,024	(NA)
<i>Orthodox Church in America</i>	1978	440	1,000	457	(NA)
<i>Pentecostal Church of God</i>	1988	1,157	86	(NA)	(NA)
<i>Pentecostal Holiness Church, International</i>	1988	1,472	117	2,048	147

See footnotes at end of table.

## No. 78. Religious Bodies—Selected Data—Continued

[See headnote, p. 56]

RELIGIOUS BODY	Year	Churches reported	Membership (1,000)	Pastors serving parishes	Sunday school enrollment <sup>1</sup> (1,000)
<b>Bodies with membership of 50,000 or more—Con.</b>					
<i>Polish National Catholic Church of America</i>	1960	162	282	141	(NA)
<i>Presbyterian Church in America</i>	1988	1,067	208	1,139	102
<i>Presbyterian Church (U.S.A.)</i>	1988	11,505	2,930	10,549	1,097
<i>Primitive Baptists</i>	1960	1,000	72	(NA)	(NA)
<i>Progressive National Baptist Convention, Inc.</i>	1967	655	522	(NA)	(NA)
<i>Reformed Church in America</i>	1988	925	334	853	100
<i>Reorganized Church of Jesus Christ of Latter-day Saints</i>	1988	1,137	191	17,048	(NA)
<i>Roman Catholic Church, The</i>	1988	23,091	54,919	34,390	7,025
<i>Romanian Orthodox Episcopate of America</i>	1988	34	60	28	2
<i>Russian Orthodox Church Outside of Russia, The</i>	1955	81	55	92	(NA)
<i>Salvation Army, The</i>	1988	1,097	433	2,630	113
<i>Serbian Eastern Orthodox Church in the U.S.A. and Canada</i>	1986	68	67	60	(NA)
<i>Seventh-day Adventist Church</i>	1988	4,145	687	2,265	480
<i>Southern Baptist Convention</i>	1988	37,517	14,813	37,300	7,905
<i>Triumph the Church and Kingdom of God in Christ (International)</i>	1972	475	54	860	(NA)
<i>Ukrainian Orthodox Church in the U.S.A.</i>	1966	107	88	107	(NA)
<i>Unitarian Universalist Association</i>	1988	956	177	(NA)	46
<i>United Church of Christ</i>	1988	6,362	1,645	5,096	438
<i>United Methodist Church, The</i>	1987	37,641	9,056	20,927	(NA)
<i>United Pentecostal Church, International</i>	1989	3,592	500	(NA)	(NA)
<i>Wesleyan Church, The</i>	1987	3,217	186	2,662	(NA)
<i>Wisconsin Evangelical Lutheran Synod</i>	1988	1,191	419	1,111	50
<b>Bodies with membership of less than 50,000</b>	(X)	15,342	1,545	14,768	267

NA Not available. X Not applicable. <sup>1</sup> Includes pupils, officers, and teachers. <sup>2</sup> Estimate of size of Jewish community provided by American Jewish Yearbook. Estimates of the number of Jews holding membership in synagogues or temples of the four branches of Judaism amount to 3,750,000.

Source: National Council of the Churches of Christ in the United States of America, New York, NY, *Yearbook of American and Canadian Churches*, annual. (Copyright.)

## No. 79. Religious Congregations—Summary: 1986

[Excludes Alaska and Hawaii. A religious congregation is a community of people who meet together for worship, for fellowship, and for service to their members and the larger communities in which they live. Excludes informal congregational groups that did not have an official meeting place, denominational organizations, religious charities, and religiously-owned or -affiliated institutions. Based on a sample survey of 4,205 local congregations conducted by the Gallup Organization; for details, see source]

SIZE OF CONGREGATION	Number of congregations	AREAS OF ACTIVITY	Percent of all congregations providing support or service <sup>3</sup>	SOURCE OF REVENUE OR TYPE OF EXPENDITURE	Amount <sup>7</sup> (mil. dol.)
<b>Total</b>	<b>1,284,271</b>	Human services	86.9	<b>Revenues, total</b>	<b>49,571</b>
Fewer than 100 members	60,300	Family counseling	79.2	Individual giving	40,400
100-199 members	53,269	Recreation	78.7	Bequests	1,373
200-299 members	39,715	Meal services	38.4	Dues, fees, charges for services	2,479
300-399 members	30,848	Housing for homeless	32.4	Other	5,318
400-499 members	21,424	Day care	30.8		
500-599 members	45,606	International	78.5	<b>Expenditures, total</b>	<b>48,078</b>
1,000-1,999 members	21,691	Relief abroad	71.4	Current operating	35,690
2,000 or more members	13,958	Support of education	49.6	Wages, salaries	14,482
		Refugee-related	35.4	Fringe benefits	4,074
Fewer than 100 nonmembers	215,803	Public benefit	69.8	Supplies, services	17,133
100-199 nonmembers	29,102	Right-to-life	46.8		
200-299 nonmembers	8,595	Family planning <sup>5</sup>	29.5	Donations	8,352
300-399 nonmembers	4,710	Health	67.6	Within denomination	5,466
400 or more nonmembers	8,336	Institutional care <sup>6</sup>	56.2	To other organizations	1,897
		Education	38.2	Direct assistance to individuals	990
		Elementary	37.6	Construction, capital improvements <sup>8</sup>	4,035
		Secondary	32.1		

<sup>1</sup> Includes those which don't know or did not answer. <sup>2</sup> Includes churches with 100 or more nonmembers. <sup>3</sup> Congregations could give multiple responses. <sup>4</sup> Includes camp programs and other youth programs. <sup>5</sup> Includes abortion. <sup>6</sup> Hospitals, clinics, nursing homes, hospices. <sup>7</sup> Covers only those 286,811 congregations that are identified by size. <sup>8</sup> Includes acquisition of real property.

Source: INDEPENDENT SECTOR, Washington, DC, *From Belief to Commitment: The Activities and Finances of Religious Congregations in the United States, 1988*. (Copyright.)

### No. 80. Christian Church Adherents, 1980, and Jewish Population, 1989—States

[Christian church adherents were defined as "all members, including full members, their children and the estimated number of other regular participants who are not considered as communicant, confirmed or full members." Data on Christian church adherents are based on reports of 111 church bodies and exclude 18 church bodies that reported more than 100,000 members to the *Yearbook of American and Canadian Churches*. Data on Jewish population are based primarily on a compilation of individual estimates made by local Jewish federations. Additionally, most large communities have completed Jewish demographic surveys from which the Jewish population can be determined]

REGION, DIVISION, AND STATE	CHRISTIAN ADHERENTS, 1980		JEWISH POPULATION, 1989		REGION, DIVISION, AND STATE	CHRISTIAN ADHERENTS, 1980		JEWISH POPULATION, 1989	
	Number (1,000)	Percent of population <sup>1</sup>	Number (1,000)	Percent of population <sup>1</sup>		Number (1,000)	Percent of population <sup>1</sup>	Number (1,000)	Percent of population <sup>1</sup>
<b>U.S. . . . .</b>	<b>111,736</b>	<b>49.3</b>	<b>5,944</b>	<b>2.4</b>	VA. . . . .	2,221	41.5	68	1.1
<b>Northeast.</b>	<b>27,029</b>	<b>55.0</b>	<b>3,028</b>	<b>6.0</b>	WV. . . . .	772	39.6	2	0.1
<b>N.E.</b>	<b>7,381</b>	<b>59.8</b>	<b>427</b>	<b>3.3</b>	NC. . . . .	3,169	53.9	16	0.2
ME. . . . .	461	41.0	8	0.7	SC. . . . .	1,603	51.3	9	0.3
NH. . . . .	407	44.2	7	0.7	GA. . . . .	2,560	46.9	67	1.1
VT. . . . .	244	47.7	5	0.8	FL. . . . .	3,707	38.0	585	4.9
MA. . . . .	3,669	64.0	276	4.7	<b>E.S.C.</b>	<b>8,079</b>	<b>55.1</b>	<b>43</b>	<b>0.3</b>
RI. . . . .	710	75.0	16	1.6	KY. . . . .	1,979	54.1	12	0.3
CT. . . . .	1,890	60.8	115	3.6	TN. . . . .	2,485	54.1	20	0.4
<b>M.A.</b>	<b>19,649</b>	<b>53.4</b>	<b>2,601</b>	<b>6.9</b>	AL. . . . .	1,230	57.3	9	0.2
NY. . . . .	8,548	48.7	1,844	10.3	MS. . . . .	1,385	54.9	2	0.1
NJ. . . . .	3,923	53.3	411	5.4	<b>W.S.C.</b>	<b>13,189</b>	<b>55.5</b>	<b>130</b>	<b>0.5</b>
PA. . . . .	7,177	60.5	346	2.9	AR. . . . .	1,282	56.1	2	0.1
<b>Midwest.</b>	<b>31,204</b>	<b>53.0</b>	<b>649</b>	<b>1.1</b>	LA. . . . .	2,404	57.2	16	0.4
<b>E.N.C.</b>	<b>20,969</b>	<b>50.3</b>	<b>527</b>	<b>1.3</b>	OK. . . . .	1,751	57.9	5	0.2
OH. . . . .	5,306	49.1	131	1.2	TX. . . . .	7,752	54.5	107	0.6
IN. . . . .	2,451	44.6	18	0.3	<b>West.</b>	<b>15,986</b>	<b>37.0</b>	<b>1,103</b>	<b>2.4</b>
IL. . . . .	6,251	54.7	258	2.2	<b>Mt.</b>	<b>5,241</b>	<b>46.1</b>	<b>149</b>	<b>1.1</b>
MI. . . . .	3,932	42.5	84	0.9	MT. . . . .	348	44.2	(2)	0.1
WI. . . . .	3,028	64.4	36	0.7	ID. . . . .	472	50.0	(2)	0.1
<b>W.N.C.</b>	<b>10,235</b>	<b>59.6</b>	<b>121</b>	<b>0.7</b>	WY. . . . .	207	44.0	(2)	0.1
MN. . . . .	2,644	64.9	30	0.7	CO. . . . .	1,052	36.4	49	1.5
IA. . . . .	1,781	61.1	6	0.2	NM. . . . .	767	58.9	6	0.4
MO. . . . .	2,613	53.1	62	1.2	AZ. . . . .	1,065	39.2	70	2.1
ND. . . . .	482	73.8	1	0.1	UT. . . . .	1,097	75.1	3	0.2
SD. . . . .	462	66.9	(Z)	0.1	NV. . . . .	233	29.1	19	1.9
NE. . . . .	990	63.1	7	0.5	<b>Pac.</b>	<b>10,745</b>	<b>33.8</b>	<b>953</b>	<b>2.6</b>
KS. . . . .	1,262	53.4	14	0.6	WA. . . . .	1,275	30.9	23	0.5
<b>South.</b>	<b>37,516</b>	<b>49.8</b>	<b>1,165</b>	<b>1.4</b>	OR. . . . .	946	35.9	12	0.5
<b>S.A.</b>	<b>16,247</b>	<b>44.0</b>	<b>992</b>	<b>2.4</b>	CA. . . . .	8,082	34.1	909	3.3
DE. . . . .	238	40.1	9	1.5	AK. . . . .	123	30.6	2	0.5
MD. . . . .	1,673	39.7	210	4.6	HI. . . . .	319	33.1	7	0.6
DC. . . . .	304	47.6	25	4.1					

Z Fewer than 500. <sup>1</sup> Based on U.S. Bureau of the Census data for resident population enumerated as of April 1, 1980, and estimated as of July 1989.

Source: Christian church adherents—B. Quinn, H. Anderson, M. Bradley, P. Goetting, and P. Shriver, *Churches and Church Membership in the United States 1980*, Glenmary Research Center, Atlanta, GA, 1982 (copyright); Jewish population—American Jewish Committee and the American Jewish Publication Society, New York, NY, *American Jewish Year Book, 1990* (copyright).

### No. 81. Religious Population of the World, by Region: 1989

[In thousands. Refers to adherents of all religions as defined and enumerated for each of the world's countries in *World Christian Encyclopedia* (1982), projected to mid-1990, adjusted for recent data]

RELIGION	Total	Percent distribution	Africa	Asia	Latin America	Northern America	Europe	Soviet Union	Oceania
<b>Total population . . .</b>	<b>5,292,178</b>	<b>100.0</b>	<b>647,518</b>	<b>3,108,476</b>	<b>448,096</b>	<b>275,880</b>	<b>497,741</b>	<b>287,991</b>	<b>26,476</b>
Christians . . . . .	1,758,778	33.2	310,600	252,800	419,078	235,500	411,300	107,500	22,000
Roman Catholics . . . . .	995,780	18.8	116,670	118,900	390,050	95,600	261,080	5,500	7,980
Protestants . . . . .	363,290	6.9	82,900	78,380	16,600	94,900	73,500	9,700	7,310
Orthodox . . . . .	166,942	3.2	27,100	3,516	1,696	5,920	35,950	92,200	560
Anglicans . . . . .	72,980	1.4	25,500	680	1,250	7,230	32,760	(Z)	5,560
Other Christians . . . . .	159,786	3.0	58,430	51,324	9,482	31,850	8,010	100	590
Muslims . . . . .	935,000	17.7	264,132	612,768	1,300	5,600	12,500	38,600	100
Nonreligious . . . . .	866,000	16.4	1,800	686,600	16,500	22,100	52,100	83,700	3,200
Hindus . . . . .	705,000	13.3	1,400	700,448	850	1,250	700	2	350
Buddhists . . . . .	303,000	5.7	20	301,215	520	550	270	400	25
Atheists . . . . .	233,000	4.4	300	155,280	3,100	1,300	17,500	55,000	520
Chinese folk-religionists <sup>2</sup>	180,000	3.4	12	179,717	70	120	60	1	20
New-religionists <sup>2</sup>	138,000	2.6	20	136,009	510	1,400	50	1	10
Tribal religionists <sup>2</sup>	92,012	1.7	67,006	24,000	900	40	1	1	65
Sikhs . . . . .	18,100	0.3	25	17,578	8	250	230	1	9
Jews . . . . .	17,400	0.3	320	5,375	1,050	6,900	1,460	2,200	95
Shamanists . . . . .	10,100	0.2	1	9,845	1	1	2	250	1
Confucians . . . . .	5,800	0.1	1	5,768	2	26	2	2	1
Baha'is . . . . .	5,300	0.1	1,420	2,578	770	360	90	7	75
Jains . . . . .	3,650	0.1	50	3,576	4	4	15	1	1
Shintoists . . . . .	3,100	0.1	(Z)	3,097	1	1	1	(Z)	1
Other religionists . . . . .	17,938	0.3	411	11,825	3,433	478	1,461	327	4

- Represents zero. Z Fewer than 500. <sup>1</sup> Persons professing no religion, nonbelievers, agnostics, freethinkers, dereligionized secularists indifferent to all religion. <sup>2</sup> Followers of traditional Chinese religion (local deities, ancestor veneration, Confucian ethics, Taoism, etc.). <sup>3</sup> Followers of Asiatic 20th-century New Religions, New Religious movements, radical new crisis religions, and non-Christian syncretistic mass religions.

Source: Encyclopaedia Britannica, Inc., Chicago, IL, 1991 *Britannica Book of the Year*. (Reprinted with permission. Copyright 1991.)



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## Section 2 Vital Statistics

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This section presents vital statistics data on births; deaths; abortions; fetal deaths, including stillbirths; fertility; life expectancy; marriages; and divorces. Vital statistics are compiled for the country as a whole by the National Center for Health Statistics (NCHS) and published in its annual report, *Vital Statistics of the United States*, in certain reports of the *Vital and Health Statistics* series, and in the *Monthly Vital Statistics Report*. Reports in this field are also issued by the various State bureaus of vital statistics. Data on fertility, on age of persons at first marriage, and on marital status and marital history are compiled by the Bureau of the Census from its Current Population Survey (CPS; see text, section 1) and published in *Current Population Reports*, series P-20. Data on abortions are published by the Alan Guttmacher Institute, New York, NY in selected issues of *Family Planning Perspectives*.

**Registration of vital events.**—The registration of births, deaths, fetal deaths, and other vital events in the United States is primarily a State and local function. The civil laws of every State provide for a continuous and permanent birth- and death-registration system. Many States also provide for marriage and divorce-registration systems. Vital events occurring to U.S. residents outside the United States are not included in the data.

**Births and deaths.**—The live-birth, death, and fetal-death statistics prepared by NCHS are based on vital records filed in the registration offices of all States, of New York City, and of the District of Columbia. The annual collection of death statistics on a national basis began in 1900 with a national death-registration area of 10 States and the District of Columbia; a similar annual collection of birth statistics for a national birth-registration area began in 1915, also with 10 reporting States and the District of Columbia. Since 1933, the birth- and death-registration areas have comprised the entire United States, including Alaska (beginning 1959) and Hawaii (beginning 1960). National statistics on fetal deaths were first compiled for 1918 and annually since 1922.

Prior to 1951, birth statistics came from a complete count of records received in the Public Health Service (now received in NCHS). From 1951 through 1971, they were based on a 50-percent sample of all registered births (except for a complete count in 1955 and a 20- to 50-percent sample in 1967). Beginning in 1972, they have been based on a complete count for States participating in the Vital Statistics Cooperative Program (VSCP) (for details, see the technical appendix in *Vital Statistics of the United States*) and on a 50-percent sample of all other areas. Beginning 1986 all reporting areas participated in the VSCP. Mortality data have been based on a complete count of records for each area (except for a 50-percent sample in 1972). Beginning in 1970, births to, and deaths of nonresident aliens of the United States and U.S. citizens outside the United States have been excluded from the data. Fetal deaths and deaths among Armed Forces abroad are excluded. Data based on samples are subject to sampling error; for details, see annual issues of *Vital Statistics of the United States*.

Mortality statistics by cause of death are compiled in accordance with World Health Organization regulations according to the *International Classification of Diseases* (ICD). The ICD is revised approximately every 10 years. The ninth revision of the ICD was employed beginning in 1979. Deaths for prior years were classified according to the revision of the ICD in use at the time. Each revision of the ICD introduces a number of discontinuities in mortality statistics; for a discussion of those between the eighth and ninth revisions of the ICD, see *Monthly Vital Statistics Report*, vol. 28, No. 11, supplement.

Some of the tables present age-adjusted death rates in addition to crude death rates. Age adjusted death rates shown in this section were prepared using the direct method, in which age-specific death rates for a population of interest are applied to a standard population distributed by age. Age adjustment eliminates the differences in observed rates between points in time or among compared population groups that result from age differences in population composition.

**Abortions.**—The U.S. Centers for Disease Control (CDC) collects data on abortions annually from States which have a central health agency with a statewide reporting system. The Alan

Guttmacher Institute, New York, NY also issues data on the number of abortions based on its own surveys of hospitals and physicians. The Guttmacher Institute also publishes data on the characteristics of abortions after adjusting CDC data for changes in the number of States reporting each year.

**Fertility and life expectancy.**—The total fertility rate, defined as the number of births that 1,000 women would have in their lifetime if, at each year of age, they experienced the birth rates occurring in the specified year, is compiled and published by NCHS. Other data relating to social and medical factors which affect fertility rates, such as contraceptive use and birth expectations, are collected and made available by both NCHS and the Bureau of the Census. NCHS figures are based on information in birth and fetal death certificates and on the periodic National Surveys of Family Growth; Bureau of the Census data are based on decennial censuses and the CPS.

Data on life expectancy, the average remaining lifetime in years for persons who attain a given age, are computed and published by NCHS. For details, see the technical appendix in *Vital Statistics of the United States*.

**Marriage and divorce.**—The compilation of nationwide statistics on marriages and divorces in the United States began in 1887-1888 when the National Office of Vital Statistics prepared estimates for the years 1867-1886. Although periodic updates took place after 1888, marriage and divorce statistics were not collected and published annually until 1944 by that Office. In 1957 and 1958, respectively, the same Office established marriage- and divorce-registration areas. Beginning in 1957, the marriage-registration area comprised 30 States, plus Alaska, Hawaii, Puerto Rico, and the Virgin Islands; it currently includes 42 States and the District of Columbia. The divorce-registration area, starting in 1958 with 14 States, Alaska, Hawaii, and the Virgin Islands, currently includes a total of 31 States and the Virgin Islands. Procedures for estimating the number of marriages and divorces in the registration States are discussed in *Vital Statistics of the United States*, Vol. III—*Marriage and Divorce*. Total counts of events for registration and nonregistration States are gathered by collecting already summarized data on marriages and divorces reported by State offices of vital statistics and by county offices of registration.

Another important source of data on marriage and divorce trends in the United States is the March supplement to the Current Population Survey conducted by the Bureau of the Census. For information on marital status, see section 1.

**Vital statistics rates.**—Except as noted, vital statistics rates computed by NCHS are based on decennial census population figures as of April 1 for 1940, 1950, 1960, 1970, and 1980; and on midyear population figures for other years, as estimated by the Bureau of the Census (see text, section 1).

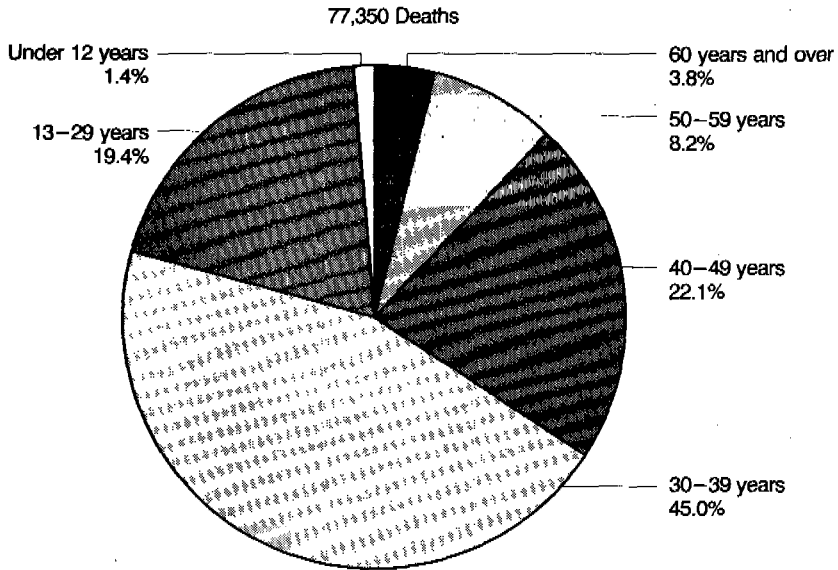
**Race.**—Data by race for births, deaths, marriages, and divorces from NCHS are based on information contained in the certificates of registration. The Census Bureau's Current Population Survey obtains information on race by asking respondents to classify their race as: (1) White, (2) Black, (3) American Indian, Eskimo, or Aleut, or (4) Asian or Pacific Islander.

**Statistical reliability.**—For discussion of statistical collection, estimation, and sampling procedures, and measures of statistical reliability applicable to Census Bureau and NCHS data, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

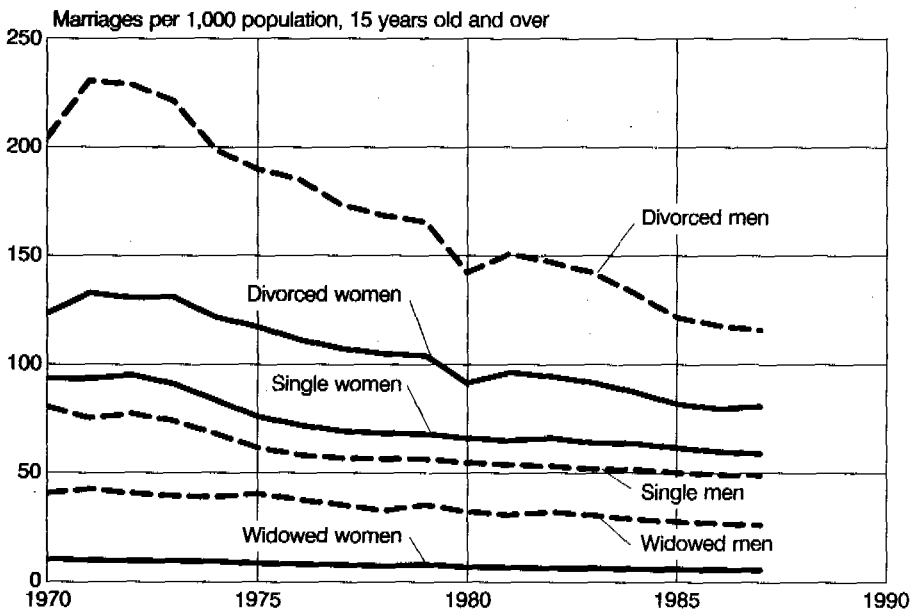


**Figure 2.1**  
**Distribution of AIDS Deaths, by Age: 1982 through 1989**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 120.

**Figure 2.2**  
**Marriage Rates, by Previous Marital Status: 1970 to 1987**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 131.

**No. 82. Live Births, Deaths, Marriages, and Divorces: 1950 to 1989**

[Prior to 1960, excludes Alaska and Hawaii. Beginning 1970, excludes births to, and deaths of, nonresidents of the U.S. See Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series B 1-5, B 142, B 167, and B 216]

YEAR	NUMBER (1,000)					RATE PER 1,000 POPULATION				
	Births <sup>1</sup>	Deaths		Mar- riages <sup>3</sup>	Divorces <sup>4</sup>	Births <sup>1</sup>	Deaths		Mar- riages <sup>3</sup>	Divorces <sup>4</sup>
		Total	Infant <sup>2</sup>				Total	Infant <sup>2</sup>		
1950	3,632	1,452	104	1,667	385	24.1	9.6	29.2	11.1	2.6
1955	4,097	1,529	107	1,531	377	25.0	9.3	26.4	9.3	2.3
1957	4,300	1,633	112	1,518	381	25.3	9.6	26.3	8.9	2.2
1960	4,258	1,712	111	1,523	393	23.7	9.5	26.0	8.5	2.2
1965	3,760	1,828	93	1,800	479	19.4	9.4	24.7	9.3	2.5
1970	3,731	1,921	75	2,159	708	18.4	9.5	20.0	10.6	3.5
1971	3,556	1,928	68	2,190	773	17.2	9.3	19.1	10.6	3.7
1972	3,258	1,964	60	2,282	845	15.6	9.4	18.5	10.9	4.0
1973	3,137	1,973	56	2,284	915	14.8	9.3	17.7	10.8	4.3
1974	3,160	1,934	53	2,230	977	14.8	9.1	16.7	10.5	4.6
1975	3,144	1,893	51	2,153	1,036	14.6	8.8	16.1	10.0	4.8
1976	3,168	1,909	48	2,155	1,083	14.6	8.8	15.2	9.9	5.0
1977	3,327	1,900	47	2,178	1,091	15.1	8.6	14.1	9.9	5.0
1978	3,333	1,928	46	2,282	1,130	15.0	8.7	13.8	10.3	5.1
1979	3,494	1,914	46	2,331	1,181	15.6	8.5	13.1	10.4	5.3
1980	3,612	1,990	46	2,390	1,189	15.9	8.8	12.6	10.6	5.2
1981	3,629	1,978	43	2,422	1,213	15.8	8.6	11.9	10.6	5.3
1982	3,681	1,975	42	2,456	1,170	15.9	8.5	11.5	10.6	5.0
1983	3,639	2,019	41	2,446	1,158	15.5	8.6	11.2	10.5	4.9
1984	3,669	2,039	40	2,477	1,169	15.5	8.6	10.8	10.5	5.0
1985	3,761	2,086	40	2,413	1,190	15.8	8.7	10.6	10.1	5.0
1986	3,757	2,105	39	2,407	1,178	15.6	8.7	10.4	10.0	4.9
1987	3,809	2,123	38	2,403	1,166	15.7	8.7	10.1	9.9	4.8
1988	3,910	2,168	39	2,389	1,183	15.9	8.8	10.0	9.7	4.7
1989	4,021	2,155	39	2,404	1,163	16.2	8.7	9.7		

<sup>1</sup>Through 1957, adjusted for underregistration. <sup>2</sup>Infants under 1 year, excluding fetal deaths; rates per 1,000 registered live births. <sup>3</sup>Includes estimates for some States through 1965 and also for 1976 and 1977 and marriage licenses for some States for all years except 1973 and 1975. Beginning 1978, includes nonlicensed marriages in California. <sup>4</sup>Includes reported annulments and some estimated State figures for all years. <sup>5</sup>Preliminary.

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; and unpublished data.

**No. 83. Live Births and Deaths—20 Largest Metropolitan Areas: 1986**

[Excludes births to, and deaths of, nonresidents of U.S. Data are by place of residence. Metropolitan statistical areas (MSA's), consolidated metropolitan statistical areas (CMSA's) and New England County Metropolitan Areas (NECMA's), are as defined by the U.S. Office of Management and Budget as of June 30, 1987; see Appendix II for definitions and components]

METROPOLITAN AREA	NUMBER (1,000)			RATE PER 1,000 POPULATION		
	Births	Deaths		Births	Deaths	
		Total	Infant <sup>1</sup>		Total	Infant <sup>1</sup>
New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA <sup>2</sup>	261,889	171,369	2,744	15	9.6	10.5
Boston-Lawrence-Salem-Riverside, MA CMSA	247,483	96,595	2,224	19	7.4	9.0
Los Angeles-Anaheim-Riverside, CA CMSA	130,021	68,677	1,641	16	8.5	12.6
Chicago-Gary-Lake County (IL), IL-IN-WI CMSA	92,741	45,144	759	16	7.7	8.2
San Francisco-Oakland-San Jose, CA CMSA	89,318	56,922	1,006	15	9.7	1.0
Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA	69,032	41,324	846	15	9.0	12.3
Detroit-Ann Arbor, MI CMSA	52,825	34,504	444	14	9.3	8.4
Boston-Lawrence-Salem-Lowell-Brockton, MA NECMA	71,880	23,784	727	20	6.5	10.1
Dallas-Fort Worth, TX CMSA	67,600	20,862	643	19	5.7	9.5
Houston-Galveston-Brazoria, TX CMSA	57,393	24,226	705	16	6.8	12.3
Washington, DC-MD-VA MSA	44,247	30,480	487	15	10.5	11.0
Miami-Fort Lauderdale, FL CMSA	39,589	26,899	439	14	9.7	11.1
Cleveland-Akron-Lorain, OH CMSA	42,210	17,325	494	16	6.7	11.7
Atlanta, GA MSA	38,346	22,895	447	16	9.4	11.7
St. Louis, MO-IL MSA	28,301	25,737	294	12	11.1	10.4
Pittsburgh-Beaver Valley, PA CMSA	38,532	16,181	350	17	7.0	9.1
Minneapolis-St. Paul, MN-WI MSA	36,084	16,634	344	16	7.3	9.5
Seattle-Tacoma, WA CMSA	35,582	21,130	424	16	9.3	11.9
Baltimore, MD CMSA	39,044	15,608	356	18	7.1	9.1
San Diego, CA MSA	24,557	23,879	278	13	12.5	11.3
Tampa-St. Petersburg-Clearwater, FL MSA						

<sup>1</sup>Infants under 1 year, excluding fetal deaths; rates per 1,000 registered live births. <sup>2</sup>CT portion of CMSA covers all of Fairfield County.

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; and unpublished data.

## No. 84. Births and Birth Rates: 1960 to 1988

[Births in thousands, except as indicated. Beginning 1970, excludes births to nonresidents of U.S. For population bases used to derive these data, see text, section 2. See Appendix III. Minus sign (—) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series B 1, B 5-10, and B 12-20]

ITEM	1960	1965	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988
Live births <sup>1</sup>	4,258	3,760	3,731	3,144	3,612	3,681	3,639	3,669	3,761	3,757	3,809	3,910
Average annual percent change <sup>2</sup>	0.8	-2.5	-0.2	-3.4	2.8	1.4	-1.1	0.8	2.5	-0.1	1.4	2.6
White	3,601	3,124	3,091	2,552	2,899	2,942	2,904	2,924	2,991	2,970	2,992	3,046
Black	602	581	572	512	590	593	586	593	608	621	642	672
Male	2,180	1,927	1,915	1,613	1,853	1,886	1,866	1,879	1,928	1,925	1,951	2,002
Female	2,078	1,833	1,816	1,531	1,760	1,795	1,773	1,790	1,833	1,832	1,858	1,907
Males per 100 females	104.9	105.1	105.5	105.4	105.3	105.1	105.2	105.0	105.2	105.1	105.0	105.0
Age of mother:												
Under 20 years old	594	599	656	595	562	524	499	480	478	472	473	489
20-24 years old	1,427	1,337	1,419	1,094	1,226	1,206	1,180	1,142	1,141	1,102	1,078	1,067
25-29 years old	1,083	926	995	937	1,108	1,152	1,148	1,166	1,201	1,200	1,216	1,239
30-34 years old	688	529	428	376	550	605	625	658	696	721	761	804
35-39 years old	360	283	180	115	141	168	180	196	214	230	248	270
40 years old or more	97	86	53	28	24	26	27	28	29	31	36	41
Age of father:												
Under 20 years old	123	140	189	159	137	125	116	109	108	105	105	111
20-24 years old	990	964	1,015	779	803	768	722	696	685	651	627	617
25-29 years old	1,193	1,011	1,085	979	1,082	1,093	1,070	1,067	1,081	1,059	1,053	1,055
30-34 years old	875	681	599	537	739	780	782	806	837	845	872	904
35-39 years old	516	415	298	213	275	319	335	356	381	398	413	431
40 years old or more	363	302	214	135	139	149	153	160	167	174	191	205
Age not stated	197	248	330	342	437	447	461	475	502	524	549	585
Birth rate per 1,000 population	23.7	19.4	18.4	14.6	15.9	15.9	15.5	15.5	15.8	15.8	15.7	15.9
White	22.7	18.3	17.4	13.6	14.9	14.9	14.6	14.5	14.8	14.5	14.5	14.7
Black	31.9	27.7	25.3	20.7	22.1	21.4	20.9	20.8	21.1	21.2	21.6	22.2
Male	24.7	20.3	19.4	15.4	16.8	16.7	16.4	16.3	16.6	16.4	16.5	16.7
Female	22.8	18.6	17.4	13.8	15.1	15.1	14.7	14.7	15.0	14.8	14.9	15.1
Plural birth ratio <sup>3</sup>	20.4	20.1	<sup>4</sup> 18.1	19.2	19.3	19.9	20.3	20.3	21.0	21.6	22.0	22.4
White	19.3	19.0	<sup>4</sup> 17.3	18.5	18.5	19.2	19.6	19.8	20.4	21.2	21.6	22.0
Black	(NA)	(NA)	<sup>4</sup> 22.8	23.1	24.1	24.1	24.5	24.2	25.3	24.9	25.4	25.8
Birth rate per 1,000 women	118.0	96.8	87.9	66.0	68.4	67.3	65.8	65.4	66.2	65.4	65.7	67.2
White <sup>5</sup>	113.2	91.4	84.1	62.5	64.7	63.9	62.4	62.2	63.0	61.9	62.0	63.0
Black <sup>5</sup>	153.5	133.2	115.4	87.9	88.1	84.1	81.7	81.4	82.2	82.4	83.8	86.6
Age of mother:												
10-14 years old	0.8	0.8	1.2	1.3	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3
15-19 years old	89.1	70.5	68.3	55.6	53.0	52.9	51.7	50.9	51.3	50.6	51.1	53.6
20-24 years old	258.1	195.3	167.8	113.0	115.1	111.3	108.3	107.3	108.9	108.2	108.9	111.5
25-29 years old	197.4	161.6	145.1	108.2	112.9	111.0	108.7	108.3	110.5	109.2	110.8	113.4
30-34 years old	112.7	94.4	73.3	52.3	61.9	64.2	64.6	66.5	68.5	69.3	71.3	73.7
35-39 years old	56.2	46.2	31.7	19.5	19.8	21.1	22.1	22.8	23.9	24.3	26.2	27.9
40-44 years old	15.5	12.8	8.1	4.6	3.9	3.9	3.8	3.9	4.0	4.1	4.4	4.8
45-49 years old	0.9	0.8	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Birth rate per 1,000 men <sup>7</sup>	94.8	77.4	71.5	53.8	57.0	58.4	55.3	55.0	55.7	54.9	55.0	55.9
White <sup>7</sup>	89.8	72.3	67.1	49.8	52.9	52.5	51.5	51.2	51.9	50.9	50.9	51.4
Black <sup>7</sup>	(NA)	(NA)	107.4	82.1	83.8	79.8	78.6	77.6	78.2	78.3	79.5	82.0
Age of father: <sup>8</sup>												
15-19 years old <sup>9</sup>	21.5	20.0	25.6	20.8	18.8	18.7	18.4	18.0	18.2	18.1	18.6	20.0
20-24 years old	202.2	163.2	146.6	96.2	92.0	86.1	83.5	81.9	82.8	82.3	83.0	85.5
25-29 years old	232.6	193.7	175.0	123.9	123.0	117.4	113.9	111.0	111.9	109.1	109.4	111.1
30-34 years old	154.2	131.8	112.3	81.5	91.0	90.4	88.7	88.8	89.7	88.7	89.3	90.9
35-39 years old	87.4	73.9	57.6	39.9	42.8	44.2	45.3	45.7	47.0	46.5	48.2	49.4
40-44 years old	42.6	34.0	24.9	16.5	17.1	17.6	17.2	17.8	18.1	18.4	19.1	20.0
45-49 years old	16.7	13.2	9.1	6.1	6.1	6.4	6.4	6.3	6.6	6.7	6.9	7.1
50-54 years old	6.2	4.7	3.1	2.2	2.2	2.4	2.3	2.4	2.5	2.5	2.5	2.6
55 years old and over	1.0	0.8	0.6	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4

NA Not available. <sup>1</sup> Includes other races, not shown separately. <sup>2</sup> For explanation, see Guide to Tabular Presentation. For 1960, change from 1955. <sup>3</sup> Number of multiple births per 1,000 live births. <sup>4</sup> 1971. <sup>5</sup> Per 1,000 women, 15-44 years old in specified group. <sup>6</sup> Rate computed by relating births to mothers 45 years old and over to women 45 to 49 years old. <sup>7</sup> Rate computed by relating total births, regardless of age of father, to 1,000 men, 15-54 years old in specified group. <sup>8</sup> Rates by age of father computed using frequencies with age not stated distributed among all age groups. <sup>9</sup> Rate computed by relating births to fathers under 20 years of age to men 15-19 years old.

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; and unpublished data.

**No. 85. Live Births—Number and Rate, by State: 1970 to 1989**

[Registered births. Excludes births to nonresidents of the U.S., except as noted. See Appendix III]

REGION, DIVISION, AND STATE	NUMBER (1,000)								RATE PER 1,000 POPULATION <sup>2</sup>							
	By State of residence							By State of occurrence <sup>1</sup>	By State of residence							By State of occurrence <sup>1</sup>
	1970	1980	1985	1986	1987	1988	1988	1989	1970	1980	1985	1986	1987	1988	1988	1989
<b>U.S.</b> .....	3,731	3,612	3,761	3,757	3,809	3,910	3,913	3,4021	18.4	15.9	15.8	15.6	15.7	15.9	15.9	16.2
<b>Northeast</b> .....	831	656	705	715	736	757	754	780	16.9	13.4	14.1	14.3	14.6	15.0	14.9	15.4
<b>New England</b> .....	200	162	179	181	187	193	195	202	16.9	13.1	14.2	14.2	14.8	14.9	15.0	15.5
Maine.....	18	16	17	17	17	17	16	17	17.9	14.6	14.5	14.3	14.2	14.3	13.2	13.8
New Hampshire.....	13	14	15	16	17	17	17	18	17.9	14.9	15.5	15.5	16.1	16.0	15.8	16.2
Vermont.....	8	8	8	8	8	8	9	8	18.8	15.4	15.0	15.0	14.8	14.6	15.3	14.0
Massachusetts.....	95	73	82	82	84	88	92	96	16.6	12.7	14.1	14.1	14.4	15.0	15.6	16.3
Rhode Island.....	16	12	13	13	14	14	14	15	16.5	12.9	13.5	13.8	14.2	14.3	14.6	15.3
Connecticut.....	50	39	44	45	47	48	47	48	16.7	12.5	13.9	14.0	14.6	14.9	14.5	14.7
<b>Middle Atlantic</b> .....	630	495	526	534	548	564	559	578	16.9	13.4	14.1	14.3	14.6	15.0	14.8	15.3
New York.....	318	239	259	264	272	281	277	291	17.4	13.6	14.6	14.8	15.3	15.7	15.5	16.2
New Jersey.....	120	97	106	109	113	118	114	117	16.8	13.2	14.0	14.3	14.8	15.3	14.8	15.1
Pennsylvania.....	193	159	161	161	163	166	167	170	16.3	13.4	13.5	13.5	13.6	13.8	13.9	14.1
<b>Midwest</b> .....	1,038	958	909	890	891	903	903	913	18.4	16.2	15.3	15.0	15.0	15.1	15.1	15.2
<b>E. No. Central</b> .....	754	668	634	624	629	638	637	647	18.7	16.0	15.2	15.0	15.0	15.1	15.1	15.3
Ohio.....	200	169	160	158	158	161	165	163	18.7	15.7	14.9	14.7	14.6	14.8	15.2	14.9
Indiana.....	99	88	81	79	79	82	81	83	19.1	16.1	14.7	14.4	14.2	14.7	14.7	14.8
Illinois.....	205	190	181	177	181	185	181	187	18.5	16.6	15.7	15.3	15.6	15.9	15.5	16.0
Michigan.....	172	146	138	138	141	140	140	143	19.4	15.7	15.2	15.1	15.3	15.1	15.2	14.5
Wisconsin.....	78	75	74	72	71	71	70	72	17.6	15.9	15.4	15.1	14.8	14.6	14.4	14.8
<b>W. No. Central</b> .....	284	288	275	268	262	265	266	266	17.4	18.8	15.6	15.1	14.9	14.9	15.0	14.9
Minnesota.....	68	68	67	66	65	67	67	67	18.0	16.6	16.1	15.6	15.3	15.5	15.5	15.3
Iowa.....	48	48	41	39	38	38	39	37	17.1	16.4	14.3	13.6	13.4	13.5	13.6	13.1
Missouri.....	81	79	77	75	75	76	76	80	17.3	16.1	15.3	14.9	14.7	14.9	14.8	15.5
North Dakota.....	11	12	12	11	10	10	11	11	17.6	18.4	17.1	15.9	15.3	15.1	17.1	16.5
South Dakota.....	12	13	12	12	11	11	11	11	17.0	19.2	17.1	16.4	16.2	15.7	15.8	15.4
Nebraska.....	26	27	26	24	24	24	24	24	17.3	17.4	15.9	15.3	14.9	14.9	15.2	15.1
Kansas.....	38	41	40	39	39	39	38	36	17.0	17.2	16.2	16.0	15.6	15.5	15.2	14.2
<b>South</b> .....	1,208	1,232	1,300	1,297	1,308	1,339	1,349	1,361	19.2	16.4	15.9	15.6	15.6	15.8	15.9	15.9
<b>South Atlantic</b> .....	574	547	599	608	629	654	655	679	18.7	14.8	14.9	14.8	15.1	15.4	15.4	15.7
Delaware.....	11	9	10	10	10	10	11	11	19.2	15.8	15.5	15.3	15.4	15.8	16.5	17.1
Maryland.....	69	60	68	70	73	76	68	68	17.6	14.2	15.5	15.6	16.0	16.4	14.8	14.4
Dist. of Col.....	15	9	10	10	10	11	19	23	20.1	14.7	15.8	16.1	16.4	17.1	31.3	37.3
Virginia.....	86	78	86	87	90	93	90	93	18.6	14.7	15.1	15.0	15.3	15.5	15.0	15.3
West Virginia.....	31	29	24	23	22	22	23	23	17.8	15.1	12.5	12.1	11.8	11.6	12.0	12.4
North Carolina.....	98	84	89	90	94	98	98	103	19.3	14.4	14.3	14.3	14.8	15.0	15.1	15.6
South Carolina.....	52	52	52	52	53	55	53	55	20.1	16.6	15.6	15.3	15.4	15.9	15.4	15.7
Georgia.....	97	92	96	98	103	106	107	110	21.1	16.9	16.1	16.1	16.5	16.7	16.9	17.1
Florida.....	115	132	164	168	175	184	185	193	16.9	13.5	14.4	14.3	14.8	14.9	15.0	15.2
<b>E. So. Cent.</b> .....	248	240	223	219	220	225	231	230	19.4	16.4	14.7	14.4	14.4	14.6	15.1	14.9
Kentucky.....	60	60	53	52	51	51	51	53	18.7	16.3	14.2	13.9	13.8	13.7	13.7	14.1
Tennessee.....	72	69	67	66	68	71	79	77	18.4	15.1	14.0	13.8	14.0	14.1	14.5	14.5
Alabama.....	67	64	60	59	60	61	60	58	19.4	16.3	14.9	14.7	14.6	14.8	14.5	14.2
Mississippi.....	49	48	43	42	41	42	41	42	22.1	19.0	16.6	16.0	15.7	16.1	15.7	16.1
<b>W. So. Cent.</b> .....	386	445	478	470	458	460	463	452	20.0	18.7	18.0	17.5	17.0	17.1	17.2	16.7
Arkansas.....	35	37	35	34	35	35	35	35	18.5	16.3	14.9	14.5	14.5	14.6	14.4	14.5
Louisiana.....	74	82	81	78	74	74	75	69	20.4	19.5	18.2	17.3	16.8	16.8	17.1	15.7
Oklahoma.....	45	52	53	51	48	47	47	46	17.5	17.2	16.1	15.3	14.6	14.6	14.5	14.4
Texas.....	231	274	308	307	302	303	307	301	20.6	19.2	18.8	18.4	18.0	18.0	18.2	17.2
<b>West</b> .....	654	768	847	855	875	911	889	941	18.8	17.8	17.7	17.5	17.6	18.0	17.5	18.2
<b>Mountain</b> .....	172	226	235	234	232	235	236	236	20.7	19.9	18.4	18.0	17.6	17.6	17.7	17.4
Montana.....	13	14	13	13	12	12	11	11	18.2	18.1	16.4	15.6	15.1	14.5	14.1	14.1
Idaho.....	14	20	18	16	16	16	16	15	20.3	21.4	17.5	16.4	16.0	15.7	15.5	15.2
Wyoming.....	7	11	9	9	8	7	7	6	19.6	22.5	18.4	17.0	15.4	15.0	14.0	13.7
Colorado.....	42	50	55	55	54	53	53	53	18.8	17.2	17.0	16.9	16.3	16.2	16.1	15.9
New Mexico.....	22	26	28	27	27	27	27	27	21.8	20.0	19.1	18.5	18.2	17.9	18.2	17.9
Arizona.....	38	50	59	61	63	66	66	68	21.3	18.4	18.6	18.6	18.7	18.8	18.8	19.0
Utah.....	27	42	37	36	35	36	37	36	25.5	28.6	22.8	21.9	21.0	21.3	22.0	21.2
Nevada.....	10	13	15	16	17	18	19	18	19.6	18.6	16.4	16.4	16.6	17.1	17.6	16.5
<b>Pacific</b> .....	483	542	612	621	643	676	654	705	18.2	17.0	17.5	17.4	17.6	18.1	17.5	18.4
Washington.....	61	68	70	69	70	73	68	73	17.8	16.4	15.9	15.6	15.5	15.6	14.7	15.4
Oregon.....	35	43	39	39	39	40	41	44	16.8	16.4	14.7	14.4	14.2	14.5	14.9	15.5
California.....	363	403	471	482	503	533	514	557	18.2	17.0	17.9	17.9	18.2	18.8	18.2	19.2
Alaska.....	8	10	13	12	12	11	11	12	25.1	23.7	24.6	22.9	22.2	21.4	21.1	21.9
Hawaii.....	16	18	18	18	19	19	19	20	21.4	18.8	17.4	17.2	17.2	17.3	17.4	17.6

<sup>1</sup> Includes births to nonresidents. Provisional. <sup>2</sup> Based on population (excluding Armed Forces abroad) enumerated as of Apr. 1 for 1970 and 1980, and estimated as of July 1 for other years. <sup>3</sup> U.S. totals are based on monthly receipts corrected for observed differences between provisional and final monthly figures. State figures have not been corrected in this manner.

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; and *Monthly Vital Statistics Report*.

**No. 86. Total Fertility Rate and Intrinsic Rate of Natural Increase: 1960 to 1988**

[Based on registered births only. Beginning 1970, excludes births to nonresidents of United States. The *total fertility rate* is the number of births that 1,000 women would have in their lifetime if, at each year of age, they experienced the birth rates occurring in the specified year. A total fertility rate of 2,110 represents "replacement level" fertility for the total population under current mortality conditions (assuming no net immigration). The *intrinsic rate of natural increase* is the rate that would eventually prevail if a population were to experience, at each year of age, the birth rates and death rates occurring in the specified year and if those rates remained unchanged over a long period of time. Minus sign (-) indicates decrease. See also Appendix III, and *Historical Statistics, Colonial Times to 1970*, series B 11]

ANNUAL AVERAGE AND YEAR	TOTAL FERTILITY RATE			INTRINSIC RATE OF NATURAL INCREASE			ANNUAL AVERAGE AND YEAR	TOTAL FERTILITY RATE			INTRINSIC RATE OF NATURAL INCREASE		
	Total	White	Black and other	Total	White	Black and other		Total	White	Black and other	Total	White	Black and other
1960-1964	3,449	3,326	4,326	18.6	17.1	27.7	1976	1,738	1,652	2,223	-7.4	-9.3	2.1
1965-1969	2,622	2,512	3,362	8.2	6.4	18.6	1977	1,790	1,703	2,279	-6.2	-8.1	3.2
1970-1974	2,094	1,997	2,680	-0.7	-2.5	9.1	1978	1,760	1,668	2,265	-6.8	-8.8	2.9
1975-1979	1,774	1,685	2,270	-6.6	-8.5	3.0	1979	1,808	1,716	2,310	-5.7	-7.7	3.8
1980-1984	1,819	1,731	2,262	-5.4	-7.3	3.0	1980	1,840	1,749	2,323	-5.1	-7.0	4.0
1985-1986	1,839	1,748	2,272	-4.9	-6.7	3.2	1981	1,815	1,726	2,275	-5.5	-7.4	3.3
1985-1988	1,870	1,769	2,339	-4.2	-6.3	4.3	1982	1,829	1,742	2,265	-5.2	-7.0	3.0
1970	2,480	2,385	3,067	6.0	4.5	14.4	1983	1,803	1,718	2,225	-5.7	-7.5	2.5
1971	2,267	2,161	2,920	2.6	0.8	12.6	1984	1,806	1,719	2,224	-5.6	-7.4	2.4
1972	2,010	1,907	2,628	-2.0	-3.9	8.6	1985	1,843	1,754	2,263	-4.8	-6.6	3.1
1973	1,879	1,783	2,443	-4.5	-6.5	5.7	1986	1,836	1,742	2,282	-4.9	-6.8	3.3
1974	1,835	1,749	2,339	-5.4	-7.2	4.0	1987	1,871	1,767	2,349	-4.2	-6.3	4.5
1975	1,774	1,686	2,276	-6.7	-8.6	3.0	1988	1,932	1,814	2,463	-3.0	-5.3	6.3

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; and unpublished data.

**No. 87. Projected Fertility Rates, by Race and Age Group: 1990 to 2010**

[For definition of total fertility rate, see headnote, table 86. Birth rates represent live births per 1,000 women in age group indicated. Projections are based on middle fertility assumptions (1.8 births per woman). For explanations of methodology, see text, section 1]

AGE GROUP	ALL RACES			WHITE			BLACK			OTHER RACES		
	1990	2000	2010	1990	2000	2010	1990	2000	2010	1990	2000	2010
Total fertility rate	1,850	1,846	1,849	1,781	1,780	1,791	2,170	2,095	2,040	2,175	2,110	2,059
Birth rates:												
10-14 years old	0.8	0.9	0.8	0.4	0.5	0.5	3.0	2.8	2.3	0.4	0.5	0.5
15-19 years old	49.3	46.6	45.2	41.5	40.3	40.0	90.8	80.2	71.6	39.9	39.0	38.9
20-24 years old	105.5	104.1	102.2	102.2	100.4	99.2	132.0	124.6	118.4	98.6	97.5	96.9
25-29 years old	110.9	113.0	115.0	111.4	113.3	115.2	104.6	107.5	110.5	124.9	124.7	124.5
30-34 years old	72.3	73.9	75.4	71.6	72.9	74.3	67.3	69.4	71.4	108.8	104.5	100.1
35-39 years old	26.0	26.2	26.7	24.4	24.7	25.1	29.5	29.0	28.6	48.9	45.3	41.9
40-44 years old	5.0	4.3	4.2	4.5	3.8	3.8	6.8	5.4	5.1	12.6	9.6	8.4
45-49 years old	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	1.0	0.9	0.7

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-25, No. 1018.

**No. 88. Birth Rates, by Live-Birth Order and Race: 1970 to 1988**

[Births per 1,000 women 15-44 years old in specified racial group. Live-birth order refers to number of children born alive. Figures for births of order not stated are distributed. See also headnote, table 84, and *Historical Statistics, Colonial Times to 1970*, series B 20-27]

LIVE-BIRTH ORDER	ALL RACES <sup>1</sup>					WHITE					BLACK				
	1970	1980	1985	1987	1988	1970	1980	1985	1987	1988	1970	1980	1985	1987	1988
Total	87.9	68.4	66.2	65.7	67.2	84.1	64.7	63.0	62	63.0	115.4	88.1	82.2	83.8	86.6
First birth	34.2	29.5	27.6	27.2	27.6	32.9	28.4	26.5	25.9	26.2	43.3	35.2	32.4	32.8	33.5
Second birth	24.2	21.8	22.0	21.6	22.0	23.7	21.0	21.4	20.9	21.1	27.1	25.7	24.5	24.9	25.8
Third birth	13.6	10.3	10.4	10.5	10.9	13.3	9.5	9.7	9.8	10.1	16.1	14.5	13.9	14.5	15.1
Fourth birth	7.2	3.9	3.8	13.9	4.1	6.8	3.4	3.3	3.4	3.6	10.0	6.7	6.3	6.5	6.9
Fifth birth	3.8	1.5	1.4	1.4	1.5	3.4	1.3	1.1	1.1	1.2	6.4	3.0	2.7	2.8	2.9
Sixth and seventh	3.2	1.0	0.8	0.8	0.9	2.7	0.8	0.7	0.6	0.7	7.0	2.1	1.8	1.7	1.8
Eighth and over	1.8	0.4	0.3	0.3	0.3	1.2	0.3	0.2	0.2	0.2	5.6	0.9	0.6	0.5	0.5

<sup>1</sup> Includes other races not shown separately.

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; and unpublished data.

### No. 89. Live Births, by Race and Type of Hispanic Origin—Selected Characteristics: 1985 and 1988

[Represents registered births. Excludes births to nonresidents of the U.S. Data are available on race of mother from all States, but data on Hispanic origin of mother are available from only 23 States and the District of Columbia in 1985 and from 30 States and the District of Columbia in 1988. However, in 1985 approximately 90 percent of all births to Hispanic mothers occur to residents of the 23 States; and in 1988 this percent is approximately 95 percent]

RACE AND HISPANIC ORIGIN	NUMBER OF BIRTHS (1,000)		BIRTHS TO TEENAGE MOTHERS, PERCENT OF TOTAL		BIRTHS TO UNMARRIED MOTHERS, PERCENT OF TOTAL		PERCENT OF MOTHERS BEGINNING PRENATAL CARE DURING—				PERCENT OF BIRTHS WITH LOW BIRTH WEIGHT <sup>1</sup>	
	1985	1988	1985	1988	1985	1988	First trimester		Third trimester or no care		1985	1988
							1985	1988	1985	1988		
<b>Total</b> .....	<b>3,761</b>	<b>3,910</b>	<b>12.7</b>	<b>12.5</b>	<b>22.0</b>	<b>25.7</b>	<b>76.2</b>	<b>75.9</b>	<b>5.7</b>	<b>6.1</b>	<b>6.8</b>	<b>6.9</b>
White .....	2,991	3,046	10.8	10.5	14.5	17.7	79.4	79.4	4.7	5.0	5.6	5.6
Black .....	608	672	23.0	22.7	60.1	63.5	61.8	61.1	10.0	10.9	12.4	13.0
American Indian, Eskimo, Aleut. ....	43	46	19.1	18.4	40.7	(NA)	60.3	(NA)	11.5	(NA)	5.9	6.1
Asian and Pacific Islander <sup>2</sup> .....	116	142	5.5	5.7	10.1	(NA)	75.0	(NA)	6.1	(NA)	6.1	6.3
Filipino .....	21	25	5.8	6.2	12.1	(NA)	77.2	(NA)	4.6	(NA)	6.9	7.1
Chinese .....	18	23	1.1	1.1	3.7	(NA)	82.4	(NA)	4.2	(NA)	5.0	4.7
Japanese .....	10	10	2.9	2.8	7.9	(NA)	85.8	(NA)	2.6	(NA)	5.9	6.2
Hawaiian .....	7	8	15.9	15.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	6.4	6.8
Hispanic origin <sup>3</sup> .....	373	450	16.5	16.4	29.5	34.0	61.2	61.3	12.5	12.1	6.2	6.2
Mexican .....	243	271	17.5	17.3	25.7	30.6	59.9	58.3	12.9	13.9	5.8	5.6
Puerto Rican .....	35	46	20.9	21.4	51.1	53.3	58.3	63.2	15.5	10.2	8.7	9.4
Cuban .....	10	10	7.1	6.1	16.1	16.3	82.5	83.4	3.7	3.6	6.0	5.9
Central and South American .....	41	58	8.2	8.1	34.9	36.4	60.6	62.8	12.5	9.9	5.7	5.6

NA Not available. <sup>1</sup> Births less than 2,500 grams (5 lb.-8 oz.). <sup>2</sup> Includes races not shown separately. <sup>3</sup> Hispanic persons may be of any race. Includes other types, not shown separately.

### No. 90. Live Births, by Place of Delivery; Median and Low-Birth Weight; and Prenatal Care: 1960 to 1988

[Represents registered births. Beginning 1970, excludes births to nonresidents of the U.S. For total number of births, see table 82. See Appendix III]

YEAR	BIRTHS ATTENDED (1,000)			MEDIAN BIRTH WEIGHT			PERCENT OF BIRTHS WITH LOW BIRTH WEIGHT <sup>4</sup>			PERCENT OF BIRTHS BY PERIOD IN WHICH PRENATAL CARE BEGAN	
	In hospital <sup>1</sup>	Not in hospital		Total <sup>3</sup>	White	Black	Total <sup>3</sup>	White	Black	1st trimester	3d trimester or no prenatal care
		Physician	Mid-wife and other <sup>2</sup>								
1960. ....	4,114	49	94	7 lb.-5 oz. ....	7 lb.-6 oz. ....	6 lb.-15 oz. <sup>5</sup> ..	7.7	6.8	5 <sup>1</sup> 2.8	(NA)	(NA)
1965. ....	3,661	33	66	7 lb.-4 oz. ....	7 lb.-5 oz. ....	6 lb.-14 oz. <sup>5</sup> ..	8.3	7.2	5 <sup>1</sup> 3.8	(NA)	(NA)
1970. ....	3,708	5	18	7 lb.-4 oz. ....	7 lb.-5 oz. ....	6 lb.-14 oz. ....	7.9	6.8	13.9	68.0	7.9
1975. ....	3,105	11	28	7 lb.-5 oz. ....	7 lb.-7 oz. ....	6 lb.-15 oz. ....	7.4	6.3	13.1	72.4	6.0
1980. ....	3,576	12	24	7 lb.-7 oz. ....	7 lb.-8 oz. ....	7 lb.-0 oz. ....	6.8	5.7	12.5	76.3	5.1
1981. ....	3,592	11	27	7 lb.-7 oz. ....	7 lb.-8 oz. ....	7 lb.-0 oz. ....	6.8	5.7	12.5	76.3	5.2
1982. ....	3,642	10	28	7 lb.-7 oz. ....	7 lb.-8 oz. ....	7 lb.-0 oz. ....	6.8	5.6	12.4	76.1	5.5
1983. ....	3,600	10	29	7 lb.-7 oz. ....	7 lb.-8 oz. ....	7 lb.-0 oz. ....	6.8	5.7	12.6	76.2	5.6
1984. ....	3,631	10	28	7 lb.-7 oz. ....	7 lb.-9 oz. ....	7 lb.-0 oz. ....	6.7	5.6	12.4	76.5	5.6
1985. ....	3,722	10	29	7 lb.-7 oz. ....	7 lb.-9 oz. ....	7 lb.-0 oz. ....	6.8	5.6	12.4	76.2	5.7
1986. ....	3,720	9	27	7 lb.-7 oz. ....	7 lb.-9 oz. ....	7 lb.-0 oz. ....	6.8	5.6	12.5	75.9	6.0
1987. ....	3,774	8	27	7 lb.-7 oz. ....	7 lb.-9 oz. ....	7 lb.-0 oz. ....	6.9	5.7	12.7	76.0	6.1
1988. ....	3,872	9	28	7 lb.-7 oz. ....	7 lb.-9 oz. ....	7 lb.-0 oz. ....	6.9	5.6	13.0	75.9	6.1

NA Not available. <sup>1</sup> Includes all births in hospitals or institutions and in clinics. <sup>2</sup> Includes births with attendant not specified. <sup>3</sup> Includes other races not shown separately. <sup>4</sup> Through 1975, births of 2,500 grams (5 lb.-8 oz.) or less at birth; thereafter, less than 2,500 grams. <sup>5</sup> Black and other races.

Source of tables 89 and 90: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; and unpublished data.

### No. 91. Cesarean Section Deliveries, by Age of Mother: 1970 to 1988

[Rates are number of cesareans per 100 deliveries. Based on data collected from the National Hospital Discharge Survey, a sample survey of hospital records of patients discharged in year shown; subject to sampling variability]

AGE OF MOTHER	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988 <sup>1</sup>
<b>Number of cesarean deliveries (1,000) ..</b>	<b>195</b>	<b>328</b>	<b>619</b>	<b>701</b>	<b>730</b>	<b>808</b>	<b>813</b>	<b>877</b>	<b>906</b>	<b>953</b>	<b>933</b>
Rate: Mothers, all ages .....	5.5	10.4	16.5	17.9	18.5	20.3	21.1	22.7	24.1	24.4	24.7
Under 20 years .....	3.9	8.4	14.5	13.2	13.4	15.0	16.5	16.1	18.3	18.5	19.5
20-24 years .....	4.9	9.0	15.8	16.0	17.6	19.0	19.6	21.2	21.9	22.9	20.1
25-29 years .....	5.9	11.1	16.7	19.4	19.9	20.5	20.8	22.9	25.3	23.7	26.7
30-34 years .....	7.5	13.6	18.0	21.3	20.4	24.6	24.6	26.6	26.2	28.3	28.0
35 years and over .....	8.3	15.0	20.6	24.4	23.6	25.4	28.7	30.7	32.6	31.6	32.1

<sup>1</sup> Comparisons of 1988 data with data for earlier years should be made with caution as estimates of change between 1987 and 1988 may reflect improvements in the 1988 design rather than true changes in hospital use.

Source: U.S. National Center for Health Statistics, unpublished data.

**No. 92. Births to Unmarried Women, by Race of Child and Age of Mother: 1970 to 1988**

[Excludes births to nonresidents of U.S. Data for 1970 include estimates for States in which marital status data were not reported. Beginning in 1980, marital status is inferred from a comparison of the child's and parents' surnames on the birth certificate for those States that do not report on marital status. No estimates included for misstatements on birth records or failures to register births. See also Appendix III and *Historical Statistics, Colonial Times to 1970*, series B 28-35]

RACE OF CHILD AND AGE OF MOTHER						RACE OF CHILD AND AGE OF MOTHER					
	1970	1980	1985	1987	1988		1970	1980	1985	1987	1988
NUMBER (1,000)						BIRTHS TO UNMARRIED WOMEN AS PERCENT OF ALL BIRTHS IN RACIAL GROUPS					
Total live births <sup>1</sup>	398.7	565.7	828.2	933.0	1,005.3	25-29 years	10.2	15.0	18.4	19.2	19.5
White	175.1	320.1	433.0	498.6	539.7	30-34 years	4.8	6.2	8.1	9.0	9.4
Black	215.1	325.7	365.5	399.1	426.7	35 years and over	3.1	2.4	3.4	3.8	4.1
Under 15 years	9.5	9.0	9.4	9.6	9.9	BIRTH RATE <sup>2</sup>					
15-19 years	190.4	262.8	270.9	293.0	312.5	Total <sup>1</sup>	10.7	18.4	22.0	24.5	25.7
20-24 years	126.7	237.3	300.4	331.3	350.9	White	5.7	11.0	14.5	16.7	17.7
25-29 years	40.6	99.6	152.0	179.3	196.4	Black	37.6	55.2	60.1	62.2	63.5
30-34 years	19.1	41.0	67.3	84.2	94.9	BIRTH RATE <sup>2</sup>					
35 years and over	12.4	16.1	28.2	35.8	40.7	Total <sup>1,3</sup>	26.4	29.4	32.8	36.1	38.6
PERCENT DISTRIBUTION						White <sup>3</sup>	13.9	17.6	21.8	24.6	26.6
Total <sup>1</sup>	100.0	100.0	100.0	100.0	100.0	Black <sup>3</sup>	95.5	82.9	78.8	84.7	88.9
White	43.9	48.1	52.3	53.4	53.7	15-19 years	22.4	27.6	31.6	34.1	36.8
Black	54.0	48.9	44.1	42.8	42.4	20-24 years	38.4	40.9	46.8	53.1	56.7
Under 15 years	2.4	1.4	1.1	1.0	1.0	25-29 years	37.0	34.0	39.8	44.3	48.1
15-19 years	47.8	39.5	32.7	31.4	31.1	30-34 years	27.1	21.1	25.0	29.3	31.7
20-24 years	31.8	35.6	36.3	35.5	34.9						

<sup>1</sup> Includes other races not shown separately. <sup>2</sup> Rate per 1,000 unmarried women (never-married, widowed, and divorced) estimated as of July 1. <sup>3</sup> Covers women aged 15-44 years.

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; *Monthly Vital Statistics Report*, and unpublished data.

**No. 93. Low Birth Weight and Births to Teenage Mothers and to Unmarried Women—States: 1980 and 1988**

[Represents registered births. Excludes births to nonresidents of the U.S. Based on 100 percent of births in 46 States and on a 50-percent sample of births in 4 States and the District of Columbia. See Appendix

DIVISION AND STATE	PERCENT OF BIRTHS WITH LOW BIRTH WEIGHT <sup>1</sup>		BIRTHS TO TEENAGE MOTHERS, PERCENT OF TOTAL		BIRTHS TO UNMARRIED WOMEN, PERCENT OF TOTAL		DIVISION AND STATE	PERCENT OF BIRTHS WITH LOW BIRTH WEIGHT <sup>1</sup>		BIRTHS TO TEENAGE MOTHERS, PERCENT OF TOTAL		BIRTHS TO UNMARRIED WOMEN, PERCENT OF TOTAL	
	1980	1988	1980	1988	1980	1988		1980	1988	1980	1988	1980	1988
U.S. ....	6.8	6.9	15.6	12.5	18.4	25.7	VA .....	7.5	7.0	15.5	11.2	19.2	23.8
N. Eng. ....	6.2	5.9	11.6	8.7	15.5	21.6	WV .....	6.7	6.4	20.1	16.9	13.1	22.6
ME .....	6.5	4.8	15.3	10.9	13.9	20.3	NC .....	7.9	8.0	19.2	16.0	19.0	26.3
NH .....	5.4	4.8	10.7	7.5	11.0	14.4	SC .....	8.6	9.0	19.8	16.8	23.0	30.3
VT .....	5.9	5.0	13.0	8.9	13.7	18.6	GA .....	8.6	8.4	20.7	16.5	23.2	29.6
MA .....	6.1	6.0	10.7	8.2	15.7	22.2	FL .....	7.6	7.7	18.2	13.7	23.0	28.7
RI .....	6.3	6.0	12.3	10.3	15.7	22.9	E. So. Cent. ....	7.8	7.8	21.0	17.9	20.9	28.3
CT .....	6.7	6.7	11.4	8.6	17.9	23.8	KY .....	6.8	6.7	21.1	17.3	15.1	21.9
Mid. Atl. ....	7.1	7.4	12.6	9.8	21.3	27.8	TN .....	8.0	7.9	19.9	17.2	19.9	27.6
NY .....	7.4	7.8	11.8	9.4	23.8	30.1	AL .....	7.9	8.0	20.6	17.4	22.2	27.9
NJ .....	7.2	7.0	12.3	8.9	21.1	24.3	MS .....	8.7	8.7	23.2	20.7	28.0	37.6
PA .....	6.5	6.9	13.9	10.9	17.7	26.5	W. So. Cent. ....	7.3	7.2	19.1	15.8	15.8	22.7
E. No. Cent. ....	6.7	6.9	15.2	12.7	18.0	25.3	AR .....	7.6	8.2	21.6	18.9	20.5	26.5
OH .....	6.8	6.9	15.7	13.5	17.8	26.4	LA .....	8.6	8.8	20.1	16.8	23.4	33.5
IN .....	6.3	6.6	17.3	14.1	15.5	22.7	OK .....	6.8	6.5	19.6	16.0	14.0	22.4
IL .....	7.2	7.5	15.7	12.5	22.5	29.5	TX .....	6.9	6.8	18.3	15.2	13.3	21.9
MI .....	6.9	7.3	14.0	12.5	21.6	21.6	Mt. ....	6.6	6.7	14.3	12.1	12.7	21.9
WI .....	5.4	5.4	12.3	9.8	13.9	21.9	MT .....	5.6	6.0	12.4	9.9	12.5	20.8
W. No. Cent. ....	5.7	5.8	13.5	10.3	13.1	20.1	ID .....	5.3	5.1	13.1	11.6	7.9	14.1
MN .....	5.1	5.0	10.4	7.3	11.4	18.3	WY .....	7.3	7.0	15.5	12.0	8.2	17.2
IA .....	5.0	5.4	12.5	9.3	10.3	17.7	CO .....	8.2	7.8	13.3	10.7	13.0	19.5
MO .....	6.6	6.8	16.9	13.7	17.6	25.0	NM .....	7.6	7.2	18.2	15.7	16.1	32.2
ND .....	4.9	4.8	10.9	7.6	9.2	15.6	AZ .....	6.2	6.2	16.5	13.8	18.7	28.7
SD .....	5.1	4.7	13.5	10.6	13.4	20.9	UT .....	5.2	5.7	11.0	9.3	6.2	11.7
NE .....	5.6	5.5	12.1	9.3	11.6	18.1	NV .....	6.6	7.5	15.4	12.5	21.3	29.1
KS .....	5.8	6.1	15.0	11.4	12.3	18.1	Pac. ....	5.8	5.9	13.6	10.9	19.6	27.4
So. Atl. ....	8.0	8.0	18.3	14.3	22.2	28.7	WA .....	5.1	5.2	12.5	10.6	13.6	22.3
DE .....	7.7	7.4	16.7	12.8	24.2	27.1	OR .....	4.9	5.2	13.3	11.4	14.8	23.6
MD .....	8.2	8.1	14.8	11.2	25.2	32.6	CA .....	5.9	6.0	13.9	11.1	21.4	28.6
DC .....	12.8	14.3	20.7	17.6	56.5	61.7	AK .....	5.4	5.0	11.8	9.3	15.1	23.4
							HI .....	7.1	6.9	11.5	9.4	17.6	22.2

<sup>1</sup> Less than 2,500 grams (5 pounds-8 ounces). <sup>2</sup> Marital status of mother is inferred.

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; and *Monthly Vital Statistics Report*.

**No. 94. Women Who Have Had a Child in the Last Year, by Age: 1980 to 1988**

[As of June. See headnote, table 95]

AGE OF MOTHER	WOMEN WHO HAD A CHILD IN LAST YEAR (1,000)				TOTAL BIRTHS PER 1,000 WOMEN				FIRST BIRTHS PER 1,000 WOMEN				FIRST BIRTHS AS PERCENT OF TOTAL	
	1980	1985	1987	1988	1980	1985	1987	1988	1980	1985	1987	1988	1980	1988
<b>Total</b> .....	<b>3,247</b>	<b>3,497</b>	<b>3,701</b>	<b>3,667</b>	<b>71.1</b>	<b>68.6</b>	<b>71.0</b>	<b>69.7</b>	<b>28.5</b>	<b>27.1</b>	<b>27.4</b>	<b>24.4</b>	<b>40.1</b>	<b>35.0</b>
18-29 years old .....	2,476	2,512	2,521	2,384	103.7	101.4	103.9	99.3	48.6	47.1	48.0	42.0	46.9	42.3
18-24 years old .....	1,396	1,339	1,277	1,146	96.6	95.4	95.6	87.1	(NA)	53.5	50.9	47.7	(NA)	54.8
25-29 years old .....	1,081	1,173	1,244	1,238	114.8	109.2	114.0	114.2	(NA)	38.7	44.6	35.2	(NA)	30.9
30-44 years old .....	770	984	1,180	1,283	35.4	37.6	42.3	44.9	6.3	8.0	9.4	9.6	17.8	21.3
30-34 years old .....	519	704	786	884	60.0	69.9	74.1	81.6	(NA)	15.8	18.2	20.3	(NA)	24.9
35-39 years old .....	192	229	341	324	26.9	25.9	36.2	33.8	(NA)	5.2	6.5	5.1	(NA)	15.1
40-44 years old .....	59	51	53	75	9.9	7.1	6.8	9.2	(NA)	0.8	1.0	0.5	(NA)	5.3

NA Not available.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 436 and earlier reports.**No. 95. Social and Economic Characteristics of Women, 18-44 Years Old, Who Have Had a Child in the Last Year: 1988**

[As of June. Covers civilian noninstitutional population. Since the number of women who had a birth during the 12-month period was tabulated and not the actual numbers of births, some small underestimation of fertility for this period may exist due to the omission of: (1) Multiple births, (2) Two or more live births spaced within the 12-month period (the woman is counted only once), (3) Women who had births in the period and who did not survive to the survey date, (4) Women who were in institutions and therefore not in the survey universe. These losses may be somewhat offset by the inclusion in the CPS of births to immigrants who did not have their children born in the United States and births to nonresident women. These births would not have been recorded in the vital registration system. Based on Current Population Survey (CPS); see text, section 1 and Appendix III]

CHARACTERISTIC	TOTAL, 18 TO 44 YEARS OLD				18 TO 29 YEARS OLD			30 TO 44 YEARS OLD		
	Number of women (1,000)	Women who have had a child in the last year		Number of women (1,000)	Women who have had a child in the last year		Number of women (1,000)	Women who have had a child in the last year		Number of women (1,000)
		Total births per 1,000 women	First births per 1,000 women		Total births per 1,000 women	First births per 1,000 women		Total births per 1,000 women	First births per 1,000 women	
<b>Total</b> <sup>1</sup> .....	<b>52,586</b>	<b>69.7</b>	<b>24.4</b>	<b>24,006</b>	<b>99.3</b>	<b>42.0</b>	<b>28,580</b>	<b>44.9</b>	<b>9.6</b>	
White .....	43,870	66.0	23.4	19,800	93.9	41.1	24,069	43.0	8.9	
Black .....	6,835	87.0	28.4	3,379	130.6	50.5	3,456	44.3	6.8	
Hispanic <sup>2</sup> .....	4,326	94.0	32.9	2,204	121.9	53.7	2,122	64.9	11.2	
Married, spouse present .....	29,275	92.2	30.7	9,488	171.0	70.8	19,787	54.5	11.5	
Married, spouse absent <sup>3</sup> .....	2,214	73.9	19.5	875	137.8	38.4	1,339	32.2	7.1	
Widowed or divorced .....	5,357	36.8	5.1	1,233	88.0	12.4	4,125	21.5	3.0	
Single .....	15,739	38.5	19.9	12,410	42.9	23.3	3,329	22.1	7.2	
Years of school completed:										
Not a high school graduate .....	7,552	86.9	24.2	3,924	128.8	42.6	3,628	41.6	4.3	
High school, 4 years .....	21,977	72.0	25.0	10,308	110.1	46.3	11,669	38.4	6.2	
College: 1-3 years .....	12,798	60.8	22.9	6,334	77.4	35.2	6,465	44.6	10.9	
4 or more years .....	10,259	63.3	25.0	3,440	73.6	41.3	6,818	58.1	16.8	
4 years .....	6,781	64.1	25.3	2,685	76.6	43.3	4,095	55.9	13.5	
5 or more years .....	3,478	61.7	24.5	755	62.9	34.2	2,723	61.4	21.8	
Labor force status: In labor force .....	38,537	48.4	19.2	17,739	66.4	31.2	20,797	33.1	9.0	
Employed .....	36,143	46.0	17.9	16,250	62.5	29.0	19,893	32.4	8.8	
Unemployed .....	2,394	85.3	38.9	1,489	108.2	55.3	904	47.7	11.9	
Not in labor force .....	14,049	128.2	38.6	6,267	192.6	72.8	7,782	76.4	11.1	
Occupation of employed women:										
Managerial-professional .....	9,381	43.1	18.1	3,131	53.1	29.9	6,250	38.1	12.1	
Technical, sales, and admin. support .....	16,273	48.4	19.4	8,087	66.2	31.3	8,186	30.9	7.6	
Service workers .....	6,089	45.7	16.4	3,202	62.1	25.5	2,887	27.5	6.3	
Precision prod., craft, and repair .....	844	25.2	13.9	316	35.9	17.2	528	18.7	11.9	
Operators, fabricators, and laborers .....	3,161	49.3	14.8	1,305	75.5	28.0	1,856	30.9	5.5	
Farming, forestry, and fishing .....	396	34.1	9.3	209	27.3	1.9	186	41.9	17.6	
Family income: Under \$10,000 .....	7,521	106.4	30.5	4,233	148.9	51.2	3,288	51.6	3.7	
\$10,000-\$14,999 .....	5,011	75.7	24.8	2,729	104.0	41.3	2,283	41.8	5.0	
\$15,000-\$19,999 .....	4,260	73.1	23.3	2,148	111.1	39.3	2,111	34.4	7.1	
\$20,000-\$29,999 .....	9,700	67.6	29.7	4,563	101.5	52.0	5,137	37.4	10.0	
\$30,000-\$34,999 .....	4,616	61.3	21.6	1,989	90.4	33.5	2,627	39.3	12.5	
\$35,000 and over .....	18,806	59.7	21.1	7,204	72.2	36.5	11,602	52.1	11.6	

<sup>1</sup> Includes women of other races and women with family income not reported, not shown separately. <sup>2</sup> Hispanic persons may be of any race. <sup>3</sup> Includes separated women.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 436.



**No. 96. Women Who Have Had a Child in the Last Year, by Age and Labor Force Status: 1976 to 1988**

[See headnote, table 95]

YEAR	TOTAL, 18 TO 44 YEARS OLD				18 TO 29 YEARS OLD				30 TO 44 YEARS OLD			
	All women, percent in labor force	Women who have had a child in the last year			All women, percent in labor force	Women who have had a child in the last year			All women, percent in labor force	Women who have had a child in the last year		
		Number (1,000)	In the labor force			Number (1,000)	In the labor force			Number (1,000)	In the labor force	
			Number (1,000)	Percent			Number (1,000)	Percent			Number (1,000)	Percent
1976	59.7	2,797	865	30.9	(NA)	2,220	706	31.8	(NA)	577	159	27.6
1980	66.1	3,247	1,233	38.0	68.3	2,476	947	38.2	63.7	770	287	37.3
1982	68.3	3,433	1,508	43.9	69.7	2,445	1,040	42.5	66.7	988	469	47.5
1983	69.1	3,625	1,563	43.1	70.6	2,682	1,138	42.4	67.6	942	425	45.1
1984	70.2	3,311	1,547	46.7	71.5	2,375	1,058	44.5	68.9	936	489	52.0
1985	70.8	3,497	1,691	48.4	71.3	2,512	1,204	47.9	70.3	984	488	49.6
1986	72.2	3,625	1,805	49.8	72.8	2,452	1,185	48.3	71.6	1,174	620	52.8
1987	72.7	3,701	1,881	50.8	73.0	2,521	1,258	49.9	72.5	1,180	623	52.8
1988	73.3	3,667	1,866	50.9	73.9	2,384	1,177	49.4	72.8	1,283	688	53.6

NA Not available.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 436 and earlier reports.**No. 97. Childless Women and Children Ever Born, by Age of Woman: 1980 to 1988**[As of June. Based on Current Population Survey; see text, section 1 and Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series B 49-66]

AGE	PERCENT CHILDLESS AMONG WOMEN EVER MARRIED						CHILDREN EVER BORN PER 1,000 WOMEN EVER MARRIED					
	1980	1985	1988				1980	1985	1988			
			Total <sup>1</sup>	White	Black	Hispanic <sup>2</sup>			Total <sup>1</sup>	White	Black	Hispanic <sup>2</sup>
<b>Total</b>	<sup>3</sup> 18.8	20.3	19.6	20.3	13.6	17.2	<sup>1</sup> 1,965	1,785	1,769	1,727	2,099	2,086
18-19 years old	<sup>4</sup> 46.6	50.9	55.7	56.3	48.2	41.7	<sup>4</sup> 628	587	559	548	613	829
20-24 years old	40.4	40.9	41.7	43.1	29.7	29.5	930	916	935	890	1,342	1,137
25-29 years old	25.3	28.7	29.1	30.0	17.5	25.1	1,397	1,351	1,340	1,299	1,748	1,628
30-34 years old	13.7	18.3	16.6	17.5	11.2	13.3	1,970	1,775	1,773	1,738	1,980	2,027
35-39 years old	8.0	11.6	11.9	12.4	7.6	11.7	2,572	2,130	2,092	2,045	2,527	2,638
40-44 years old	6.6	8.0	10.2	10.0	12.5	5.5	3,105	2,548	2,280	2,257	2,436	3,047

<sup>1</sup> Includes other races not shown separately. <sup>2</sup> Hispanic persons may be of any race. <sup>3</sup> Women, 15-44 years old.<sup>4</sup> Women, 15-19 years old.Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 436 and earlier reports.**No. 98. Children Ever Born to Single Women, by Age and Race of Woman: 1980 and 1988**

[As of June. Covers civilian noninstitutional population. Refers to women never-married at time of survey. Based on Current Population Survey; see text, section 1 and Appendix III]

ITEM	ALL SINGLE WOMEN <sup>1</sup>			WHITE SINGLE WOMEN			BLACK SINGLE WOMEN		
	Total, 18-44 years	18-29 years	30-44 years	Total, 18-44 years	18-29 years	30-44 years	Total, 18-44 years	18-29 years	30-44 years
<b>1980</b>									
Single women (1,000)	<sup>2</sup> 12,500	10,693	<sup>3</sup> 1,807	<sup>2</sup> 9,862	8,557	<sup>3</sup> 1,305	<sup>2</sup> 2,327	1,888	<sup>3</sup> 439
Percent by number of children born:									
None	85.7	87.3	76.4	93.5	93.9	90.5	52.2	56.7	32.6
One	8.6	8.5	9.0	4.9	4.7	5.9	24.5	26.0	18.5
Two or more	5.7	4.2	14.6	1.6	1.3	3.8	23.3	17.3	49.0
Children ever born (1,000)	<sup>2</sup> 3,142	2,022	<sup>3</sup> 1,120	<sup>2</sup> 898	666	<sup>3</sup> 232	<sup>2</sup> 2,199	1,325	<sup>3</sup> 874
Rate per 1,000 women	251	189	620	91	78	178	945	702	1,991
<b>1988</b>									
Single women (1,000)	15,739	12,410	3,328	11,960	8,605	2,355	3,225	2,343	881
Percent by number of children born:									
None	81.0	84.1	69.5	89.4	90.8	83.5	48.9	55.6	31.2
One	10.5	9.3	15.0	6.5	6.0	8.5	26.1	23.6	32.7
Two or more	8.4	6.5	15.4	4.2	3.2	8.0	25.0	20.8	36.2
Children ever born (1,000)	5,270	3,264	2,004	2,047	1,339	709	3,121	1,857	1,264
Rate per 1,000 women	335	263	602	171	139	301	868	793	1,435

<sup>1</sup> Includes other races not shown separately. <sup>2</sup> Covers single women, 18-49 years old. <sup>3</sup> Covers single women, 30-49 years old.Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, Nos. 375 and 436.

**No. 99. Lifetime Births Expected Per 1,000 Wives: 1971 to 1988**

(As of June. See headnote, table 100)

YEAR	LIFETIME BIRTHS TO ALL WIVES <sup>1</sup> AGED—			LIFETIME BIRTHS TO WHITE WIVES AGED—			LIFETIME BIRTHS TO BLACK WIVES AGED—			LIFETIME BIRTHS TO HISPANIC <sup>2</sup> WIVES <sup>1</sup> AGED—		
	18-24	25-29	30-34	18-24	25-29	30-34	18-24	25-29	30-34	18-24	25-29	30-34
1971	2,375	2,619	2,989	2,353	2,577	2,936	2,823	3,112	3,714	(NA)	(NA)	(NA)
1975	2,173	2,260	2,610	2,147	2,233	2,564	2,489	2,587	3,212	2,223	2,607	3,238
1980	2,134	2,166	2,248	2,130	2,146	2,223	2,155	2,426	2,522	2,428	2,495	2,909
1985	2,183	2,236	2,167	2,177	2,227	2,139	2,242	2,259	2,521	2,367	2,628	2,712
1988	2,218	2,260	2,175	2,215	2,260	2,156	2,252	2,306	2,289	2,262	2,507	2,345

NA Not available. <sup>1</sup> Includes other races not shown separately. <sup>2</sup> Hispanic persons may be of any race.**No. 100. Lifetime Births Expected by Wives, 18-34 Years Old—Percent Distribution: 1975 to 1988**

(As of June. Covers currently married women in the civilian noninstitutional population. Data limited to wives reporting on birth expectations. Based on Current Population Survey; see text, section 1 and Appendix III)

YEAR AND NUMBER OF BIRTHS EXPECTED	Total <sup>1</sup>	AGE			RACE		Hispanic <sup>2</sup>	YEARS OF SCHOOL COMPLETED		
		18-24 years	25-29 years	30-34 years	White	Black		Not high school graduate	High school, 4 years	College, 1 year or more
1975: None	4.8	4.1	4.9	5.2	4.9	3.0	3.2	2.7	4.2	7.0
One	10.9	11.2	11.7	9.8	10.8	10.7	10.6	11.0	11.4	10.1
Two	49.0	58.2	50.4	38.3	49.8	40.0	40.4	37.6	49.8	55.5
Three	23.2	19.4	23.3	26.8	23.3	22.4	25.2	25.0	24.3	20.0
Four or more	12.1	7.0	9.8	19.8	11.1	24.0	20.5	23.6	10.3	7.3
1980: None	5.9	4.9	5.5	7.0	6.0	4.0	2.8	2.6	5.6	7.7
One	13.3	12.8	13.2	13.6	13.2	14.4	9.4	11.7	14.4	12.4
Two	51.1	56.0	52.8	45.7	51.5	45.3	44.3	39.7	52.6	54.4
Three	20.5	19.1	20.3	21.8	20.4	22.2	24.2	26.7	19.7	18.8
Four or more	9.3	7.2	8.3	11.9	8.8	14.2	19.4	19.4	7.7	6.8
1988: None	15.4	3.9	4.5	6.9	5.6	4.1	4.4	4.3	4.9	6.4
One	12.4	11.2	11.0	14.1	12.0	16.2	11.2	11.5	13.4	11.5
Two	50.1	55.8	51.1	46.8	50.6	45.1	45.2	39.2	51.5	51.8
Three	22.9	20.8	24.3	22.7	23.0	22.6	26.2	28.0	22.0	22.5
Four or more	9.1	8.3	9.0	9.6	8.8	12.0	12.9	17.1	18.2	17.8

<sup>1</sup> Includes other races, not shown separately. <sup>2</sup> Hispanic persons may be of any race.Source of tables 99 and 100: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 436 and earlier reports.**No. 101. Contraceptive Use by Women, 15-44 Years Old, by Age, Race, Marital Status, and Method of Contraception: 1982 and 1988**

(Based on the 1982 and 1988 National Survey of Family Growth; see Appendix III)

CONTRACEPTIVE STATUS AND METHOD	1988									
	All women, 1982	All women <sup>1</sup>	AGE			RACE		MARITAL STATUS		
			15-24 years	25-34 years	35-44 years	White	Black	Never married	Currently married	Formerly married
All women (1,000)	54,099	57,900	18,592	21,726	17,582	47,077	7,679	21,058	29,147	7,695
PERCENT DISTRIBUTION										
Sterile	27.2	29.7	3.1	27.0	61.3	30.5	29.6	5.2	44.0	42.6
Surgically sterile	25.7	28.3	2.4	26.0	59.7	29.2	27.8	4.3	42.4	40.9
Noncontraceptively sterile <sup>2</sup>	6.6	4.7	0.2	2.7	12.0	4.7	5.7	0.9	6.2	9.7
Contraceptively sterile <sup>3</sup>	19.0	23.6	2.2	23.3	46.7	24.5	22.1	3.4	36.2	31.3
Nonsexually sterile <sup>4</sup>	1.5	1.4	0.7	0.9	2.7	1.3	1.8	1.0	1.6	1.7
Pregnant, postpartum	5.0	4.8	5.0	7.6	1.1	4.9	5.0	2.4	7.1	2.5
Seeking pregnancy	4.2	3.8	2.7	5.8	2.4	3.7	3.9	1.3	6.0	2.0
Other nonusers	18.9	25.0	45.7	16.7	13.5	23.8	26.9	52.5	4.8	26.6
Not sexually active <sup>5</sup>	18.5	19.0	37.9	10.3	8.5	18.1	16.7	43.5	0.3	19.5
Sexually active	7.4	6.5	7.8	6.4	5.0	5.7	10.2	9.0	4.5	7.1
Nonsexual contraceptive	36.7	36.7	43.5	43.0	21.6	37.2	34.6	38.5	38.1	26.3
Nonsexual contraceptive	15.6	18.5	29.7	21.6	3.0	18.4	21.6	24.7	15.1	14.5
Pill	4.0	1.2	0.1	1.4	2.1	1.1	1.7	0.6	1.5	2.1
IUD	4.5	3.5	1.3	4.8	4.1	3.8	1.1	2.1	4.6	3.0
Diaphragm	6.7	8.8	9.5	9.1	7.7	9.2	5.8	8.2	10.8	3.4
Condom	1.3	0.6	0.3	0.8	0.8	0.6	0.6	0.2	1.0	0.5
Foam	2.2	1.4	0.6	1.7	1.8	1.4	1.2	0.6	2.1	1.1
Rhythm	2.5	2.6	2.0	3.6	2.2	2.5	2.6	2.1	3.2	1.7
Other methods										

<sup>1</sup> Includes other races, not shown separately. <sup>2</sup> Persons who had sterilization operation and who gave as one reason that they had medical problems with their female organs. <sup>3</sup> Includes all other sterilization operations, and sterilization of the husband or current partner. <sup>4</sup> Persons sterile from illness, accident, or congenital conditions. <sup>5</sup> Those having intercourse in the last 3 months before the survey. <sup>6</sup> Periodic abstinence and natural family planning. <sup>7</sup> Withdrawal, douche, suppository and less frequently used methods.

Source: U.S. National Center for Health Statistics, *Advance Data from Vital and Health Statistics*, No. 182 and unpublished data.

**No. 102. Legal Abortions—Estimated Number, Rate, and Ratio, by Race: 1972 to 1987**

[Refers to women 15-44 years old at time of abortion]

YEAR	ALL RACES				WHITE				BLACK AND OTHER			
	Women 15-44 years old (1,000)	Abortions			Women 15-44 years old (1,000)	Abortions			Women 15-44 years old (1,000)	Abortions		
		Number (1,000)	Rate per 1,000 women	Ratio per 1,000 live births <sup>1</sup>		Number (1,000)	Rate per 1,000 women	Ratio per 1,000 live births <sup>1</sup>		Number (1,000)	Rate per 1,000 women	Ratio per 1,000 live births <sup>1</sup>
1972	44,588	586.8	13.2	184	38,532	455.3	11.8	175	6,056	131.5	21.7	223
1975	47,606	1,034.2	21.7	331	40,857	701.2	17.2	276	6,749	333.0	49.3	565
1976	48,721	1,179.3	24.2	361	41,721	784.9	18.8	296	7,000	394.4	56.3	638
1977	49,814	1,316.7	26.4	400	42,567	888.8	20.9	333	7,247	427.9	59.0	679
1978	50,920	1,408.6	27.7	413	43,427	969.4	22.3	356	7,493	440.2	58.7	665
1979	52,016	1,497.7	28.8	420	44,266	1,062.4	24.0	373	7,750	435.3	56.2	625
1980	53,048	1,553.9	29.3	428	44,942	1,093.6	24.3	376	8,106	460.3	56.5	642
1981	53,901	1,577.3	29.3	430	45,494	1,107.8	24.3	377	8,407	469.6	55.9	645
1982	54,679	1,573.9	28.8	428	46,049	1,095.2	23.8	373	8,630	478.7	55.5	646
1983	55,340	1,575.0	28.5	436	46,506	1,084.4	23.3	376	8,834	490.6	55.5	670
1984	56,061	1,577.2	28.1	423	47,023	1,088.6	23.1	368	9,038	490.6	54.3	646
1985	56,754	1,588.6	28.0	422	47,512	1,075.6	22.6	360	9,242	512.9	55.5	659
1986	57,483	1,574.0	27.4	416	48,010	1,044.7	21.8	350	9,473	529.3	55.9	661
1987	57,964	1,559.1	27.1	406	48,288	1,017.3	21.1	338	9,676	541.8	56.0	648

<sup>1</sup> See headnote, table 104. <sup>2</sup> Total abortions in 1986 has been estimated by interpolation between 1985 and 1987.

Source: 1972, U.S. Centers for Disease Control, Atlanta, GA, *Abortion Surveillance, Annual Summary, 1972, 1974, and The Alan Guttmacher Institute, 1975-1983*, S.K. Henshaw and J. Van Vort, eds., *Abortion Services in the United States, Each State and Metropolitan Area, 1984-1985*, The Alan Guttmacher Institute, New York, NY, 1988 (copyright); 1984-1987, The Alan Guttmacher Institute, unpublished data.

**No. 103. Legal Abortions, by Selected Characteristics: 1973 to 1987**

[Number of abortions from surveys conducted by source; characteristics from the U.S. Centers for Disease Control's (CDC) annual abortion surveillance summaries; with adjustments for changes in States reporting data to the CDC each year]

CHARACTERISTIC	NUMBER (1,000)				PERCENT DISTRIBUTION				ABORTION RATIO <sup>1</sup>			
	1973	1980	1985	1987	1973	1980	1985	1987	1973	1980	1985	1987
<b>Total legal abortions</b>	<b>745</b>	<b>1,554</b>	<b>1,589</b>	<b>1,559</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>193</b>	<b>300</b>	<b>297</b>	<b>288</b>
Age of woman:												
Less than 15 years old	12	15	17	16	1.6	1.0	1.1	1.0	476	607	624	607
15-19 years old	232	445	399	391	31.2	28.6	25.1	25.1	280	451	462	456
20-24 years old	241	549	548	516	32.3	35.4	34.5	33.1	181	310	328	322
25-29 years old	130	304	336	333	17.4	19.6	21.2	21.4	128	213	219	214
30-34 years old	73	153	181	189	9.7	9.8	11.4	12.1	165	213	203	198
35-39 years old	41	67	87	92	5.5	4.3	5.4	5.9	246	317	280	268
40 years old and over	17	21	21	22	2.3	1.3	1.3	1.4	334	461	409	376
Race of woman:												
White	549	1,094	1,076	1,017	73.7	70.4	67.7	65.2	178	274	265	252
Black and other	196	460	513	542	26.3	29.6	32.3	34.8	252	392	397	393
Marital status of woman:												
Married	216	320	281	275	29.0	20.6	17.7	17.6	74	98	88	87
Unmarried	528	1,234	1,307	1,284	71.0	79.4	82.3	82.4	564	649	605	570
Number of prior live births:												
None	411	900	872	821	55.2	57.9	54.9	52.6	242	365	358	341
1	115	305	349	360	15.4	19.6	22.0	23.1	108	208	219	222
2	104	216	240	248	13.9	13.9	15.1	15.9	190	283	288	285
3	61	83	85	88	8.1	5.3	5.3	5.6	228	288	281	276
4 or more	55	51	43	43	7.4	3.3	2.7	2.8	196	251	230	224
Number of prior induced abortions:												
None	(NA)	1,043	944	901	(NA)	67.1	59.5	57.8	(NA)	(NA)	(NA)	(NA)
1	(NA)	373	416	416	(NA)	24.0	26.2	26.7	(NA)	(NA)	(NA)	(NA)
2 or more	(NA)	138	228	242	(NA)	8.9	14.3	15.5	(NA)	(NA)	(NA)	(NA)
Weeks of gestation: <sup>2</sup>												
Less than 9 weeks	284	800	818	792	38.2	51.5	51.5	50.8	(NA)	(NA)	(NA)	(NA)
9-10 weeks	222	417	429	417	29.7	26.8	27.0	26.7	(NA)	(NA)	(NA)	(NA)
11-12 weeks	131	202	199	194	17.5	13.0	12.6	12.5	(NA)	(NA)	(NA)	(NA)
13 weeks or more	108	136	142	156	14.6	8.7	8.9	10.0	(NA)	(NA)	(NA)	(NA)

NA Not available. <sup>1</sup> Number of abortions per 1,000 abortions and live births. Live births are those which occurred from July 1 of year shown through June 30 of the following year (to match time of conception with abortions). <sup>2</sup> The figures for 1987 are not exactly comparable to those for earlier years because of a change in the method of calculation.

Source: 1973-1980, S.K. Henshaw and J. Van Vort, eds., *Abortion Services in the United States, Each State and Metropolitan Area, 1985-1987*, The Alan Guttmacher Institute, New York, NY, 1988 (copyright); 1984-1987, The Alan Guttmacher Institute, unpublished data.

### No. 104. Legal Abortions—Number, Rate per 1,000 Women 15-44 Years Old, and Abortion/Live Birth Ratio, by State of Occurrence: 1980 to 1988

[Number of legal abortions are from surveys of hospitals, clinics, and physicians identified as providers of abortion services, conducted by the Alan Guttmacher Institute. Abortion rates are computed per 1,000 women 15-44 years of age on July 1 of specified year; abortion ratios are computed as the number of abortions per 1,000 live births from July 1 of year shown to June 30 of following year, by State of occurrence]

DIVISION, REGION, AND STATE	NUMBER OF ABORTIONS (1,000)			RATE PER 1,000 WOMEN, 15-44 YEARS OLD			RATIO: ABORTIONS PER 1,000 LIVE BIRTHS		
	1980	1985	1988	1980	1985	1988	1980	1985	1988
<b>United States . . . . .</b>	<b>1,553.9</b>	<b>1,588.6</b>	<b>1,590.8</b>	<b>29.3</b>	<b>28.0</b>	<b>27.3</b>	<b>428</b>	<b>422</b>	<b>404</b>
<b>Northeast . . . . .</b>	<b>395.7</b>	<b>407.1</b>	<b>387.2</b>	<b>34.9</b>	(NA)	<b>32.4</b>	<b>604</b>	(NA)	<b>499</b>
<b>New England . . . . .</b>	<b>83.9</b>	<b>85.4</b>	<b>87.5</b>	<b>28.9</b>	<b>28.6</b>	<b>27.9</b>	<b>530</b>	<b>504</b>	<b>436</b>
Maine . . . . .	4.8	5.0	4.6	18.6	18.6	16.2	289	308	283
New Hampshire . . . . .	4.7	7.0	4.7	21.1	29.0	17.5	347	418	261
Vermont . . . . .	3.8	3.4	3.6	30.4	26.2	25.8	466	448	454
Massachusetts . . . . .	45.6	40.3	43.7	33.5	29.3	30.2	609	533	452
Rhode Island . . . . .	6.6	7.8	7.2	30.7	35.5	30.6	529	572	481
Connecticut . . . . .	18.5	21.9	23.6	25.6	29.3	31.2	561	550	510
<b>Middle Atlantic . . . . .</b>	<b>311.8</b>	<b>321.7</b>	<b>299.7</b>	<b>37.0</b>	<b>37.6</b>	<b>34.0</b>	<b>627</b>	<b>607</b>	<b>520</b>
New York . . . . .	187.5	195.1	184.0	45.8	47.4	43.3	780	746	634
New Jersey . . . . .	55.5	69.2	63.9	32.8	39.6	35.1	591	672	557
Pennsylvania . . . . .	68.9	57.4	51.8	26.1	21.3	18.9	423	348	302
<b>Midwest . . . . .</b>	<b>318.1</b>	<b>288.8</b>	<b>291.7</b>	<b>23.3</b>	(NA)	<b>20.7</b>	<b>336</b>	(NA)	<b>321</b>
<b>East North Central . . . . .</b>	<b>242.9</b>	<b>220.6</b>	<b>223.2</b>	<b>24.9</b>	<b>22.1</b>	<b>22.4</b>	<b>369</b>	<b>356</b>	<b>345</b>
Ohio . . . . .	67.1	57.4	53.4	26.8	22.4	21.0	397	357	326
Indiana . . . . .	19.6	16.1	15.8	15.3	12.2	11.9	227	202	185
Illinois . . . . .	69.1	65.0	72.6	25.9	23.8	26.4	374	372	395
Michigan . . . . .	65.2	64.4	63.4	29.7	28.7	28.5	457	486	446
Wisconsin . . . . .	21.8	17.8	18.0	20.1	15.7	16.0	292	246	251
<b>West North Central . . . . .</b>	<b>75.2</b>	<b>68.2</b>	<b>68.6</b>	<b>19.2</b>	<b>16.7</b>	<b>16.7</b>	<b>260</b>	<b>252</b>	<b>263</b>
Minnesota . . . . .	19.9	16.9	18.6	20.7	16.6	18.2	288	257	281
Iowa . . . . .	9.3	9.9	9.4	14.3	15.0	14.6	195	248	254
Missouri . . . . .	21.6	20.1	19.5	19.4	17.3	16.4	273	261	264
North Dakota . . . . .	3.1	2.9	2.2	21.5	18.5	14.9	235	230	198
South Dakota . . . . .	1.4	1.7	0.9	9.0	10.6	5.7	103	140	82
Nebraska . . . . .	8.4	6.7	6.5	17.9	18.2	17.7	227	268	263
Kansas . . . . .	13.6	10.2	11.4	25.6	18.2	20.1	343	264	308
<b>South . . . . .</b>	<b>457.0</b>	<b>453.1</b>	<b>470.0</b>	<b>25.9</b>	(NA)	<b>23.4</b>	<b>369</b>	(NA)	<b>345</b>
<b>South Atlantic . . . . .</b>	<b>254.5</b>	<b>257.1</b>	<b>276.6</b>	<b>29.4</b>	<b>27.1</b>	<b>27.7</b>	<b>462</b>	<b>429</b>	<b>411</b>
Delaware . . . . .	3.7	4.6	5.7	25.9	30.9	35.7	395	451	502
Maryland . . . . .	30.5	29.5	32.7	29.2	26.9	28.6	571	480	466
District of Columbia . . . . .	28.5	23.9	26.1	168.3	145.9	163.3	1,569	1,186	1,257
Virginia . . . . .	31.8	34.2	35.4	24.2	24.0	23.7	417	412	385
West Virginia . . . . .	3.0	4.6	3.3	6.9	10.1	7.5	104	185	141
North Carolina . . . . .	31.9	34.2	39.7	22.8	22.6	25.4	377	378	392
South Carolina . . . . .	13.7	11.2	14.2	18.2	13.7	16.7	274	229	259
Georgia . . . . .	37.9	38.3	36.7	28.4	26.1	23.5	395	397	333
Florida . . . . .	73.6	76.7	82.9	35.5	31.8	31.5	547	465	437
<b>East South Central . . . . .</b>	<b>65.3</b>	<b>57.4</b>	<b>57.0</b>	<b>19.2</b>	<b>15.8</b>	<b>15.6</b>	<b>271</b>	<b>258</b>	<b>242</b>
Kentucky . . . . .	12.8	9.8	11.5	15.1	11.0	13.0	215	189	215
Tennessee . . . . .	25.6	22.4	22.1	23.6	19.1	18.9	352	315	292
Alabama . . . . .	20.8	19.4	18.2	23.1	20.2	18.7	331	333	284
Mississippi . . . . .	6.1	5.9	5.1	10.6	9.7	8.4	132	142	123
<b>West South Central . . . . .</b>	<b>137.2</b>	<b>138.6</b>	<b>136.4</b>	<b>24.5</b>	<b>21.8</b>	<b>21.3</b>	<b>308</b>	<b>290</b>	<b>300</b>
Arkansas . . . . .	6.2	5.4	6.3	12.3	10.1	11.6	173	159	182
Louisiana . . . . .	17.7	19.2	17.3	17.6	17.4	16.3	218	240	243
Oklahoma . . . . .	11.3	13.1	12.1	16.4	17.1	16.2	221	269	257
Texas . . . . .	102.0	100.8	100.7	30.0	25.5	24.8	367	320	333
<b>West . . . . .</b>	<b>383.1</b>	<b>439.6</b>	<b>441.9</b>	<b>36.8</b>	(NA)	<b>36.3</b>	<b>486</b>	(NA)	<b>496</b>
<b>Mountain . . . . .</b>	<b>68.2</b>	<b>74.6</b>	<b>69.4</b>	<b>25.0</b>	<b>23.6</b>	<b>21.9</b>	<b>302</b>	<b>316</b>	<b>297</b>
Montana . . . . .	3.7	3.7	3.1	20.1	19.0	16.5	265	288	265
Idaho . . . . .	2.7	2.7	1.9	12.7	11.1	8.2	141	155	125
Wyoming . . . . .	1.1	1.1	0.6	9.5	7.9	5.1	107	125	90
Colorado . . . . .	23.1	24.4	18.7	31.4	28.8	22.4	447	438	335
New Mexico . . . . .	8.4	6.1	6.8	27.0	17.4	19.1	358	219	251
Arizona . . . . .	15.8	22.3	23.1	25.0	29.9	28.8	310	373	350
Utah . . . . .	4.2	4.4	5.0	12.3	11.1	12.8	97	116	139
Nevada . . . . .	9.2	9.9	10.2	46.6	40.5	40.3	697	641	558
<b>Pacific . . . . .</b>	<b>314.9</b>	<b>365.0</b>	<b>372.5</b>	<b>41.0</b>	<b>42.8</b>	<b>41.5</b>	<b>561</b>	<b>594</b>	<b>566</b>
Washington . . . . .	37.0	31.0	31.2	37.5	28.0	27.6	522	458	475
Oregon . . . . .	17.7	15.2	16.0	28.3	22.3	23.9	396	374	393
California . . . . .	250.4	304.1	311.7	43.7	47.9	45.9	598	640	598
Alaska . . . . .	1.9	3.5	2.4	17.9	27.7	18.2	196	283	215
Hawaii . . . . .	8.0	11.2	11.2	34.4	43.7	43.0	441	611	579

NA Not available.

Source: 1980, S.K. Henshaw and J. Van Vort, eds., *Abortion Services in the United States, Each State and Metropolitan Area, 1984-1985*. The Alan Guttmacher Institute, New York, NY, 1988 (copyright); 1985-1988, S.K. Henshaw and J. Van Vort, *Abortion Services in the United States, 1987 and 1988, "Family Planning Perspectives"*, Vol. 22, 1990.

**No. 105. Expectation of Life at Birth, 1960 to 1989, and Projections, 1990 to 2010**

[In years. Beginning 1970, excludes deaths of nonresidents of the United States. See also *Historical Statistics, Colonial Times to 1970*, series B 107-115]

YEAR	TOTAL			WHITE			BLACK AND OTHER			BLACK		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1960	69.7	66.6	73.1	70.6	67.4	74.1	63.6	61.1	66.3	(NA)	(NA)	(NA)
1970	70.8	67.1	74.7	71.7	68.0	75.6	65.3	61.3	69.4	64.1	60.0	68.3
1975	72.6	68.8	76.6	73.4	69.5	77.3	68.0	63.7	72.4	66.8	62.4	71.3
1976	72.9	69.1	76.8	73.6	69.9	77.5	68.4	64.2	72.7	67.2	62.9	71.6
1977	73.3	69.5	77.2	74.0	70.2	77.9	68.9	64.7	73.2	67.7	63.4	72.0
1978	73.5	69.6	77.3	74.1	70.4	78.0	69.3	65.0	73.5	68.1	63.7	72.4
1979	73.9	70.0	77.8	74.6	70.8	78.4	69.8	65.4	74.1	68.5	64.0	72.9
1980	73.7	70.0	77.4	74.4	70.7	78.1	69.5	65.3	73.6	68.1	63.8	72.5
1981	74.2	70.4	77.8	74.8	71.1	78.4	70.3	66.1	74.4	68.9	64.5	73.2
1982	74.5	70.9	78.1	75.1	71.5	78.7	71.0	66.8	75.0	69.4	65.1	73.7
1983	74.6	71.0	78.1	75.2	71.7	78.7	71.1	67.2	74.9	69.6	65.4	73.6
1984	74.7	71.2	78.2	75.3	71.8	78.7	71.3	67.4	75.0	69.7	65.6	73.7
1985	74.7	71.2	78.2	75.3	71.9	78.7	71.2	67.2	75.0	69.5	65.3	73.5
1986	74.8	71.3	78.3	75.4	72.0	78.8	71.2	67.2	75.1	69.4	65.2	73.5
1987	75.0	71.5	78.4	75.6	72.2	78.9	71.3	67.3	75.2	69.4	65.2	73.6
1988	74.9	71.5	78.3	75.6	72.3	78.9	71.2	67.1	75.1	69.2	64.9	73.4
1989, prel.	75.2	71.8	78.5	75.9	72.6	79.1	71.7	67.5	75.7	69.7	65.2	74.0
Projections: <sup>1</sup> 1990	75.6	72.1	79.0	76.2	72.7	79.6	(NA)	(NA)	(NA)	71.4	67.7	75.0
1995	76.3	72.8	79.7	76.8	73.4	80.2	(NA)	(NA)	(NA)	72.4	68.8	76.0
2000	77.0	73.5	80.4	77.5	74.0	80.9	(NA)	(NA)	(NA)	73.5	69.9	77.1
2005	77.6	74.2	81.0	78.1	74.6	81.5	(NA)	(NA)	(NA)	74.6	71.0	78.1
2010	77.9	74.4	81.3	78.3	74.9	81.7	(NA)	(NA)	(NA)	75.0	71.4	78.5

NA Not available. <sup>1</sup> Based on middle mortality assumptions; for details, see source. Source: U.S. Bureau of the Census, *Current Population Reports*, series P-25, No. 1018.

Source: Except as noted, U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; and unpublished data.

**No. 106. Selected Life Table Values: 1959 to 1988**

[Prior to 1960, excludes Alaska and Hawaii. Beginning 1970, excludes deaths of nonresidents of the United States. See also *Historical Statistics, Colonial Times to 1970*, series B 116-125]

AGE AND SEX	TOTAL <sup>1</sup>					WHITE					BLACK		
	1959-1961	1969-1971	1979-1981	1985	1988	1959-1961	1969-1971	1979-1981	1985	1988	1979-1981	1985	1988
<b>AVERAGE EXPECTATION OF LIFE IN YEARS</b>													
At birth: Male	66.8	67.0	70.1	71.2	71.5	67.6	67.9	70.8	71.9	72.3	64.1	65.3	64.9
Female	73.2	74.6	77.6	78.2	78.3	74.2	75.5	78.2	78.7	78.9	72.9	73.5	73.4
Age 20: Male	49.8	49.5	51.9	52.7	53.0	50.3	50.2	52.5	53.3	53.6	46.4	47.4	47.0
Female	55.6	56.6	59.0	59.3	59.4	56.3	57.2	59.4	59.8	59.9	54.9	55.3	55.1
Age 40: Male	31.4	31.5	33.6	34.3	34.8	31.7	31.9	34.0	34.7	35.2	29.5	30.2	30.3
Female	36.6	37.6	39.8	40.1	40.2	37.1	38.1	40.2	40.4	40.6	36.3	36.6	36.6
Age 50: Male	23.0	23.1	25.0	25.6	26.0	23.2	23.3	25.3	25.8	26.3	22.0	22.5	22.0
Female	27.7	28.8	30.7	30.9	31.0	28.1	29.1	31.0	31.1	31.2	27.8	27.9	28.0
Age 65: Male	13.0	13.0	14.2	14.6	14.9	13.0	13.0	14.3	14.6	14.9	13.3	13.3	13.4
Female	15.8	16.8	18.4	18.6	18.6	15.9	16.9	18.6	18.7	18.7	17.1	17.0	16.9
<b>ANNUAL DEATHS EXPECTED PER 1,000 ALIVE AT SPECIFIED AGE <sup>2</sup></b>													
At birth: Male	29.1	22.5	13.9	12.0	11	25.9	20.1	12.3	10.6	9.6	23.0	19.9	19.2
Female	22.6	17.5	11.2	9.4	8.9	19.6	15.3	9.7	8.0	7.5	19.3	16.5	16.3
Age 20: Male	1.7	2.1	1.8	1.5	1.6	1.8	1.9	1.8	1.5	1.5	2.2	1.9	2.5
Female	0.6	0.7	0.6	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.7	0.6	0.7
Age 40: Male	3.7	4.0	3.0	2.9	3.1	3.3	3.4	2.6	2.5	2.6	6.9	6.7	7.5
Female	2.3	2.3	1.6	1.4	1.4	1.9	1.9	1.4	1.3	1.2	3.2	2.9	3.2
Age 50: Male	10.1	9.7	7.8	6.8	6.4	9.6	8.9	7.1	6.2	5.7	14.9	13.1	13.2
Female	5.4	5.2	4.2	3.8	3.6	4.7	4.7	3.8	3.5	3.3	7.7	6.7	6.5
Age 65: Male	34.7	34.6	28.2	25.7	24.5	33.9	33.9	27.4	24.9	23.6	38.5	36.1	35.3
Female	18.5	16.8	14.3	14.0	13.8	17.4	15.6	13.6	13.5	13.2	21.6	20.9	21.3
<b>NUMBER SURVIVING TO SPECIFIED AGE PER 1,000 BORN ALIVE</b>													
Age 20: Male	995	961	973	977	978	959	965	975	979	980	961	967	965
Female	968	973	962	985	985	971	976	984	986	987	972	976	976
Age 40: Male	916	915	933	941	937	924	926	940	946	945	885	898	883
Female	846	851	865	970	969	853	858	969	973	974	941	948	944
Age 50: Male	862	861	890	902	899	874	877	901	912	911	801	819	803
Female	913	919	941	948	948	925	929	947	953	955	896	908	903
Age 65: Male	642	643	708	729	735	658	663	724	745	754	551	581	579
Female	785	797	835	844	847	807	816	848	856	859	733	749	749

<sup>1</sup> Includes other races not shown separately. <sup>2</sup> See footnote 1, table 107.

Source: U.S. National Center for Health Statistics, *U.S. Life Tables and Actuarial Tables, 1959-61, 1969-71 and 1979-81; Vital Statistics of the United States*, annual; and unpublished data.

## No. 107. Expectation of Life and Expected Deaths, by Race, Sex, and Age: 1988

AGE IN 1988 (years)	EXPECTATION OF LIFE IN YEARS					EXPECTED DEATHS PER 1,000 ALIVE AT SPECIFIED AGE <sup>1</sup>				
	Total	White		Black		Total	White		Black	
		Male	Female	Male	Female		Male	Female	Male	Female
At birth.....	74.9	72.3	78.9	64.9	73.4	9.99	9.55	7.47	19.19	16.26
1.....	74.7	72.0	78.5	65.2	73.6	0.70	0.73	0.55	1.17	0.88
2.....	73.8	71.0	77.5	64.3	72.7	0.53	0.53	0.43	0.92	0.73
3.....	72.8	70.1	76.6	63.3	71.7	0.42	0.41	0.34	0.74	0.60
4.....	71.8	69.1	75.6	62.4	70.8	0.34	0.34	0.28	0.62	0.49
5.....	70.8	68.1	74.6	61.4	69.8	0.30	0.30	0.23	0.54	0.40
6.....	69.9	67.1	73.6	60.4	68.8	0.27	0.28	0.21	0.48	0.32
7.....	68.9	66.2	72.7	59.5	67.8	0.24	0.26	0.18	0.42	0.28
8.....	67.9	65.2	71.7	58.5	66.9	0.22	0.23	0.16	0.36	0.25
9.....	66.9	64.2	70.7	57.5	65.9	0.19	0.20	0.14	0.29	0.24
10.....	65.9	63.2	69.7	56.5	64.9	0.17	0.17	0.13	0.24	0.25
11.....	64.9	62.2	68.7	55.5	63.9	0.17	0.18	0.13	0.24	0.27
12.....	64.0	61.2	67.7	54.5	62.9	0.22	0.25	0.16	0.32	0.30
13.....	63.0	60.2	66.7	53.6	61.9	0.33	0.40	0.21	0.51	0.32
14.....	62.0	59.3	65.7	52.6	61.0	0.47	0.61	0.29	0.79	0.35
15.....	61.0	58.3	64.8	51.6	60.0	0.64	0.85	0.38	1.07	0.38
16.....	60.1	57.3	63.8	50.7	59.0	0.79	1.07	0.46	1.37	0.43
17.....	59.1	56.4	62.8	49.8	58.0	0.91	1.25	0.52	1.66	0.48
18.....	58.2	55.5	61.8	48.8	57.1	1.00	1.37	0.54	1.94	0.55
19.....	57.2	54.6	60.9	47.9	56.1	1.04	1.44	0.52	2.19	0.63
20.....	56.3	53.6	59.9	47.0	55.1	1.09	1.51	0.51	2.47	0.72
21.....	55.3	52.7	58.9	46.2	54.2	1.14	1.58	0.50	2.74	0.80
22.....	54.4	51.8	58.0	45.3	53.2	1.17	1.61	0.49	2.96	0.89
23.....	53.5	50.9	57.0	44.4	52.3	1.19	1.62	0.50	3.09	0.97
24.....	52.5	50.0	56.0	43.5	51.3	1.19	1.60	0.51	3.16	1.05
25.....	51.6	49.0	55.0	42.7	50.4	1.19	1.57	0.52	3.22	1.13
26.....	50.6	48.1	54.1	41.8	49.4	1.19	1.54	0.54	3.31	1.21
27.....	49.7	47.2	53.1	41.0	48.5	1.21	1.53	0.55	3.43	1.30
28.....	48.8	46.3	52.1	40.1	47.5	1.24	1.56	0.57	3.63	1.39
29.....	47.8	45.3	51.2	39.2	46.6	1.29	1.62	0.59	3.88	1.49
30.....	46.9	44.4	50.2	38.4	45.7	1.35	1.69	0.61	4.14	1.58
31.....	45.9	43.5	49.2	37.5	44.7	1.41	1.75	0.64	4.41	1.69
32.....	45.0	42.6	48.3	36.7	43.8	1.48	1.82	0.68	4.72	1.82
33.....	44.1	41.6	47.3	35.9	42.9	1.55	1.89	0.72	5.08	1.96
34.....	43.1	40.7	46.3	35.1	42.0	1.63	1.97	0.76	5.47	2.12
35.....	42.2	39.8	45.4	34.3	41.1	1.73	2.05	0.82	5.91	2.30
36.....	41.3	38.9	44.4	33.5	40.2	1.83	2.15	0.89	6.35	2.48
37.....	40.4	37.9	43.4	32.7	39.3	1.93	2.25	0.96	6.73	2.66
38.....	39.4	37.0	42.5	31.9	38.4	2.03	2.36	1.03	7.02	2.84
39.....	38.5	36.1	41.5	31.1	37.5	2.12	2.47	1.12	7.26	3.02
40.....	37.6	35.2	40.6	30.3	36.6	2.22	2.60	1.21	7.49	3.22
41.....	36.7	34.3	39.6	29.6	35.7	2.35	2.76	1.32	7.77	3.44
42.....	35.8	33.4	38.7	28.8	34.8	2.51	2.94	1.45	8.10	3.66
43.....	34.9	32.5	37.7	28.0	33.9	2.70	3.14	1.59	8.52	3.89
44.....	33.9	31.6	36.8	27.2	33.1	2.92	3.38	1.76	9.01	4.13
45.....	33.0	30.7	35.8	26.5	32.2	3.17	3.65	1.95	9.54	4.39
46.....	32.1	29.8	34.9	25.7	31.4	3.44	3.96	2.16	10.09	4.69
47.....	31.3	28.9	34.0	25.0	30.5	3.76	4.32	2.39	10.73	5.04
48.....	30.4	28.0	33.1	24.3	29.7	4.12	4.74	2.65	11.46	5.46
49.....	29.5	27.2	32.1	23.5	28.8	4.53	5.21	2.94	12.26	5.95
50.....	28.6	26.3	31.2	22.8	28.0	4.98	5.74	3.26	13.16	6.48
51.....	27.8	25.5	30.3	22.1	27.2	5.47	6.33	3.60	14.11	7.05
52.....	26.9	24.6	29.5	21.4	26.3	6.01	7.00	3.99	15.03	7.67
53.....	26.1	23.8	28.6	20.8	25.5	6.61	7.77	4.41	15.90	8.33
54.....	25.3	23.0	27.7	20.1	24.8	7.26	8.64	4.87	16.76	9.04
55.....	24.4	22.2	26.8	19.4	24.0	7.96	9.57	5.37	17.62	9.77
56.....	23.6	21.4	26.0	18.8	23.2	8.72	10.57	5.91	18.59	10.57
57.....	22.8	20.6	25.1	18.1	22.5	9.56	11.68	6.50	19.82	11.51
58.....	22.0	19.8	24.3	17.5	21.7	10.49	12.89	7.15	21.39	12.61
59.....	21.3	19.1	23.5	16.8	21.0	11.50	14.21	7.86	23.26	13.84
60.....	20.5	18.4	22.6	16.2	20.3	12.61	15.64	8.63	25.31	15.19
61.....	19.8	17.6	21.8	15.6	19.6	13.78	17.16	9.46	27.42	16.57
62.....	19.0	16.9	21.0	15.0	18.9	14.97	18.72	10.33	29.49	17.88
63.....	18.3	16.3	20.2	14.5	18.2	16.18	20.29	11.22	31.44	19.06
64.....	17.6	15.6	19.5	13.9	17.6	17.42	21.91	12.16	33.32	20.15
65.....	16.9	14.9	18.7	13.4	16.9	18.72	23.60	13.17	35.26	21.26
70.....	13.6	11.8	15.0	10.9	13.8	28.19	36.32	20.54	48.13	29.59
75.....	10.7	9.1	11.7	8.6	10.9	42.46	55.80	32.23	67.66	42.16
80.....	8.1	6.8	8.7	6.8	8.4	65.54	85.86	52.88	98.61	65.18
85 and over.....	6.0	5.1	6.3	5.5	6.6	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00

<sup>1</sup> Based on the proportion of the cohort who are alive at the beginning of an indicated age interval who will die before reaching the end of that interval. For example, out of every 1,000 people alive and exactly 50 years old at the beginning of the period, between 4 and 5 (4.98) will die before reaching their 51st birthdays.

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual.

**No. 108. Deaths and Death Rates, by Sex and Race: 1960 to 1989**

[Rates are per 1,000 population for specified groups. Except as noted, excludes deaths of nonresidents of the U.S. Excludes fetal deaths. For explanation of age-adjustment, see text, section 2. The standard population for this table is the total population of the United States enumerated in 1940. See Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series B 167-173 and B 181-192]

SEX AND RACE	1960 <sup>1</sup>	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989, <sup>2</sup> prel.
<b>Deaths<sup>3</sup> (1,000).</b>	<b>1,712</b>	<b>1,921</b>	<b>1,893</b>	<b>1,990</b>	<b>1,975</b>	<b>2,019</b>	<b>2,039</b>	<b>2,086</b>	<b>2,105</b>	<b>2,123</b>	<b>2,168</b>	<b>2,155</b>
Male <sup>3</sup> (1,000)	978	1,078	1,051	1,075	1,056	1,072	1,077	1,098	1,104	1,108	1,126	1,115
Female <sup>3</sup> (1,000)	736	843	842	915	918	947	963	989	1,001	1,015	1,042	1,040
White (1,000)	1,505	1,682	1,660	1,739	1,729	1,766	1,782	1,819	1,831	1,843	1,877	1,867
Male (1,000)	861	942	918	934	919	932	935	950	953	953	965	955
Female (1,000)	644	740	743	805	810	834	847	869	879	890	911	911
Black (1,000)	196	226	218	233	227	233	236	244	250	255	264	260
Male (1,000)	108	128	124	130	126	128	129	134	137	140	144	143
Female (1,000)	88	98	94	103	101	105	107	111	113	115	120	117
<b>Death rates<sup>3</sup></b>	<b>9.5</b>	<b>9.5</b>	<b>8.8</b>	<b>8.8</b>	<b>8.5</b>	<b>8.6</b>	<b>8.6</b>	<b>8.7</b>	<b>8.7</b>	<b>8.7</b>	<b>8.8</b>	<b>8.7</b>
Male <sup>3</sup>	11.0	10.9	10.0	9.8	9.4	9.4	9.4	9.5	9.4	9.3	9.4	9.2
Female <sup>3</sup>	8.1	8.1	7.6	7.9	7.7	7.9	7.9	8.1	8.1	8.1	8.3	8.2
White	9.5	9.5	8.9	8.9	8.7	8.8	8.9	9.0	9.0	9.0	9.1	8.9
Male	11.0	10.9	10.0	9.8	9.5	9.6	9.5	9.6	9.5	9.5	9.5	9.3
Female	8.0	8.1	7.8	8.1	8.0	8.2	8.2	8.4	8.4	8.5	8.6	8.5
Black	10.4	10.0	8.8	8.8	8.2	8.3	8.3	8.5	8.5	8.6	8.7	8.5
Male	11.8	11.9	10.6	10.3	9.6	9.6	9.6	9.8	9.9	9.9	10.1	9.8
Female	9.1	8.3	7.3	7.3	6.9	7.1	7.1	7.3	7.3	7.4	7.5	7.3
<b>Age-adjusted death rates<sup>3</sup></b>	<b>7.6</b>	<b>7.1</b>	<b>6.3</b>	<b>5.9</b>	<b>5.5</b>	<b>5.5</b>	<b>5.5</b>	<b>5.5</b>	<b>5.4</b>	<b>5.4</b>	<b>5.4</b>	<b>5.2</b>
Male <sup>3</sup>	9.5	9.3	8.4	7.8	7.3	7.3	7.2	7.2	7.1	7.0	7.0	6.8
Female <sup>3</sup>	5.9	5.3	4.6	4.3	4.1	4.1	4.1	4.1	4.1	4.0	4.0	4.0
White	7.3	6.8	6.0	5.6	5.3	5.3	5.2	5.2	5.2	5.1	5.1	5.0
Male	9.2	8.9	8.0	7.5	7.1	7.0	6.9	6.9	6.8	6.7	6.6	6.5
Female	5.6	5.0	4.4	4.1	3.9	3.9	3.9	3.9	3.9	3.8	3.8	3.8
Black	10.7	10.4	8.9	8.4	7.8	7.8	7.7	7.8	7.8	7.8	7.9	7.6
Male	12.5	13.2	11.6	11.1	10.4	10.2	10.1	10.2	10.3	10.2	10.4	10.1
Female	9.2	8.1	6.7	6.3	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.6

<sup>1</sup> Includes deaths of nonresidents of the U.S. <sup>2</sup> Based on a 10-percent sample of deaths. <sup>3</sup> Includes other races, not shown separately.

**No. 109. Death Rates, by Age, Sex, and Race: 1960 to 1989**

[Number of deaths per 100,000 population in specified group. See headnote, table 108]

SEX, YEAR, AND RACE	All ages <sup>1</sup>	Under 1 yr. old	1-4 yr. old	5-14 yr. old	15-24 yr. old	25-34 yr. old	35-44 yr. old	45-54 yr. old	55-64 yr. old	65-74 yr. old	75-84 yr. old	85 yr. old and over
<b>MALE<sup>2</sup></b>												
1960 <sup>3</sup>	1,105	3,059	120	56	152	188	373	992	2,310	4,914	10,178	21,186
1970	1,090	2,410	93	51	189	215	403	959	2,283	4,874	10,010	17,822
1980	977	1,429	73	37	172	196	299	767	1,815	4,105	8,817	18,801
1985	945	1,197	58	32	141	178	278	669	1,693	3,788	8,504	18,325
1986	941	1,153	58	32	151	193	288	653	1,648	3,701	8,353	18,187
1987	935	1,129	58	32	146	193	292	644	1,624	3,618	8,232	18,031
1988	940	1,114	57	31	151	197	301	629	1,607	3,574	8,223	18,371
1989, prel. <sup>3,4</sup>	922	1,077	47	32	152	203	302	628	1,570	3,415	7,960	17,695
White: 1970	1,087	2,113	84	48	171	177	344	883	2,203	4,810	10,099	18,552
1980	983	1,230	66	35	167	171	257	699	1,729	4,036	8,830	19,097
1985	960	1,039	52	30	136	157	241	609	1,614	3,717	8,500	18,789
1989, prel. <sup>3,4</sup>	935	910	42	30	139	173	260	564	1,498	3,348	7,944	18,110
Black: 1970	1,187	4,299	151	67	321	560	957	1,778	3,257	5,803	9,455	12,222
1980	1,034	2,587	111	47	209	407	690	1,480	2,873	5,131	9,232	16,099
1985	977	2,135	89	41	174	347	642	1,283	2,623	4,889	9,298	15,046
1989, prel. <sup>3,4</sup>	985	1,994	74	45	236	433	701	1,289	2,371	4,516	8,903	14,958
<b>FEMALE<sup>2</sup></b>												
1960 <sup>3</sup>	809	2,321	98	37	61	107	229	527	1,196	2,672	7,633	19,008
1970	808	1,864	75	32	68	102	231	517	1,099	2,580	6,678	15,518
1980	785	1,142	55	24	58	76	159	413	934	2,145	5,440	14,747
1985	807	932	45	21	50	69	138	373	919	2,095	5,220	14,343
1986	809	906	46	20	52	72	140	365	906	2,091	5,152	14,298
1987	813	902	45	19	52	74	139	360	900	2,063	5,118	14,261
1988	827	898	45	20	52	74	140	351	905	2,056	5,173	14,508
1989, prel. <sup>3,4</sup>	817	891	41	21	54	76	142	338	888	1,997	5,083	14,070
White: 1970	813	1,615	66	30	62	84	193	463	1,015	2,471	6,699	15,980
1980	806	983	49	23	56	65	138	373	876	2,067	5,402	14,980
1985	837	787	40	19	48	59	121	340	864	2,028	5,171	14,579
1989, prel. <sup>3,4</sup>	854	723	36	18	51	64	122	309	841	1,947	5,072	14,317
Black: 1970	829	3,369	129	44	112	231	533	1,044	1,986	3,861	6,692	10,707
1980	733	2,124	84	31	71	150	324	768	1,561	3,057	6,212	12,367
1985	728	1,757	71	28	60	136	278	654	1,502	2,926	6,252	12,155
1989, prel. <sup>3,4</sup>	725	1,803	65	32	67	155	305	593	1,374	2,745	5,813	12,224

<sup>1</sup> Includes unknown age. <sup>2</sup> Includes other races not shown separately. <sup>3</sup> Includes deaths of nonresidents. <sup>4</sup> Based on a 10-percent sample of deaths.

Sources of tables 108 and 109: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; and unpublished data.

## No. 110. Deaths and Death Rates, by State: 1970 to 1989

[Excludes deaths of nonresidents of the U.S., except as noted. See Appendix III]

REGION, DIVISION, AND STATE	NUMBER OF DEATHS (1,000)								RATE PER 1,000 POPULATION							
	By State of residence							By State of occurrence <sup>1</sup>	By State of residence							By State of occurrence <sup>1</sup>
	1970	1980	1985	1986	1987	1988	1988, prel.	1989, prel.	1970	1980	1985	1986	1987	1988	1988, prel.	1989, prel.
<b>United States</b> .....	1,921	1,990	2,086	2,105	2,123	2,168	2,171	2,155	9.5	8.8	8.7	8.7	8.7	8.8	8.8	8.6
<b>Northeast</b> .....	499	480	485	488	489	495	1,495	480	10.2	9.8	9.7	9.7	9.7	9.8	9.8	9.5
<b>New England</b> .....	116	115	118	118	118	120	122	117	9.8	9.3	9.3	9.3	9.2	9.2	9.4	9.0
Maine .....	11	11	11	11	11	12	11	11	11.1	9.6	9.8	9.6	9.5	9.6	9.4	9.0
New Hampshire .....	7	8	8	9	8	9	9	8	10.0	8.3	8.5	8.4	8.0	8.1	8.0	7.6
Vermont .....	4	5	5	5	5	5	5	5	10.0	9.0	8.7	8.8	8.7	8.4	9.5	7.9
Massachusetts .....	57	55	56	56	56	56	58	55	10.1	9.6	9.6	9.6	9.5	9.6	9.8	9.4
Rhode Island .....	9	9	10	10	10	10	10	10	10.0	9.8	10.0	10.0	9.8	9.8	10.0	9.8
Connecticut .....	26	27	28	28	28	29	29	28	8.6	8.8	8.9	8.8	8.8	8.8	8.0	8.7
<b>Middle Atlantic</b> .....	383	365	367	370	371	376	373	363	10.3	9.9	9.9	9.9	9.9	10.0	9.9	9.6
New York .....	188	173	172	174	174	176	174	170	10.3	9.8	9.7	9.8	9.7	9.8	9.7	9.5
New Jersey .....	68	69	71	72	72	73	72	69	9.5	9.4	9.4	9.4	9.4	9.5	9.3	9.0
Pennsylvania .....	127	124	124	124	125	126	127	124	10.8	10.4	10.4	10.5	10.5	10.5	10.0	10.3
<b>Midwest</b> .....	541	524	532	536	534	543	542	533	9.6	8.9	9.0	9.0	9.0	9.1	9.1	8.9
<b>E. No. Cent.</b> .....	377	365	370	375	372	379	374	369	9.4	8.8	8.9	9.0	8.9	9.0	8.9	8.7
Ohio .....	100	98	99	100	99	100	101	98	9.4	9.1	9.2	9.3	9.2	9.2	9.3	9.0
Indiana .....	49	47	48	49	49	50	50	49	9.3	8.6	8.8	9.0	8.8	9.0	9.1	8.8
Illinois .....	111	103	102	103	102	105	101	101	10.0	9.0	8.9	8.9	8.8	9.1	8.7	8.6
Michigan .....	76	75	79	80	80	80	79	78	8.6	8.1	8.7	8.8	8.7	8.7	8.5	8.4
Wisconsin .....	41	41	41	42	42	43	43	43	9.2	8.7	8.7	8.8	8.8	8.9	8.0	8.8
<b>W. No. Cent.</b> .....	164	159	162	161	162	164	168	164	10.1	9.2	9.2	9.2	9.2	9.3	9.5	9.2
Minnesota .....	34	33	35	35	35	35	35	34	8.9	8.2	8.3	8.3	8.1	8.2	8.2	7.9
Iowa .....	29	27	28	27	27	28	28	25	10.4	9.3	9.7	9.5	9.6	9.8	9.8	8.9
Missouri .....	52	50	50	50	51	51	54	56	11.1	10.1	10.0	9.9	9.9	9.9	10.6	10.8
North Dakota .....	6	6	6	5	5	6	6	6	9.1	8.6	8.2	7.8	8.2	8.5	9.1	8.9
South Dakota .....	7	7	7	7	7	7	7	7	9.9	9.5	9.3	9.3	9.4	9.2	9.2	9.1
Nebraska .....	15	14	15	15	15	15	15	15	10.1	9.2	9.3	9.2	9.3	9.3	9.4	9.5
Kansas .....	22	22	22	22	22	23	23	22	9.7	9.3	9.0	9.1	8.9	9.2	9.0	8.6
<b>South</b> .....	593	659	713	723	731	750	758	754	9.5	8.7	8.7	8.7	8.7	8.9	9.0	8.8
<b>South Atlantic</b> .....	290	330	364	372	379	389	391	395	9.5	8.9	9.0	9.1	9.1	9.2	9.2	9.2
Delaware .....	5	5	5	6	6	6	6	6	9.0	8.5	8.8	8.9	8.7	8.7	8.9	8.9
Maryland .....	33	34	37	37	38	39	38	38	8.4	8.1	8.3	8.4	8.4	8.4	8.2	8.1
Dist. of Col. ....	9	7	7	7	7	8	9	10	11.7	11.1	11.2	11.7	11.9	12.4	14.5	16.3
Virginia .....	39	43	45	47	47	48	47	46	18.4	18.0	7.9	8.0	7.9	7.9	7.8	7.6
West Virginia .....	20	19	19	20	20	20	20	19	11.5	9.9	10.0	10.4	10.4	10.6	10.5	10.5
North Carolina .....	45	48	53	55	55	58	58	58	8.8	8.2	8.5	8.6	8.6	8.9	9.0	8.8
South Carolina .....	23	25	27	28	28	29	28	29	8.8	8.1	8.1	8.3	8.3	8.5	8.2	8.2
Georgia .....	42	44	49	49	50	52	53	54	9.1	8.1	8.1	8.1	8.1	8.1	8.3	8.4
Florida .....	75	105	121	124	127	131	132	134	11.0	10.7	10.7	10.6	10.6	10.6	10.7	10.6
<b>E. So. Cent.</b> .....	128	134	140	141	142	145	149	143	10.0	9.1	9.3	9.3	9.3	9.5	9.7	9.3
Kentucky .....	33	34	35	35	35	36	36	34	10.3	9.2	9.4	9.3	9.3	9.6	9.5	9.1
Tennessee .....	38	41	43	44	45	46	51	47	9.7	8.9	9.1	9.2	9.3	9.4	10.4	9.6
Alabama .....	34	36	38	38	38	39	39	37	9.8	9.1	9.3	9.3	9.2	9.5	9.5	9.1
Mississippi .....	23	24	25	24	25	25	24	24	10.5	9.4	9.4	9.3	9.4	9.5	9.0	9.3
<b>W. So. Cent.</b> .....	175	195	209	209	210	215	218	215	9.1	8.2	7.9	7.8	7.8	8.0	8.1	8.0
Arkansas .....	21	23	24	24	24	25	25	25	10.7	9.9	10.2	10.1	10.2	10.4	10.6	10.2
Louisiana .....	33	36	37	36	36	38	39	36	9.2	8.5	8.3	8.1	8.2	8.5	8.8	8.3
Oklahoma .....	27	28	30	30	29	30	29	29	10.5	9.3	9.0	9.1	9.0	9.3	9.0	8.9
Texas .....	94	108	118	119	120	123	125	126	8.4	7.6	7.2	7.1	7.1	7.3	7.0	7.4
<b>West</b> .....	288	327	356	359	369	380	374	387	8.3	7.6	7.4	7.4	7.4	7.5	7.4	7.5
<b>Mountain</b> .....	66	80	88	90	92	95	97	97	8.0	7.0	6.9	6.9	7.0	7.1	7.3	7.2
Montana .....	7	7	7	7	7	7	7	7	9.5	8.5	8.2	8.3	8.2	8.4	8.4	8.3
Idaho .....	6	7	7	7	7	8	7	7	8.8	7.2	7.1	7.4	7.4	7.7	7.4	7.1
Wyoming .....	3	3	3	3	3	3	3	3	8.8	6.9	6.4	6.3	6.2	6.8	6.4	6.5
Colorado .....	17	19	20	21	21	21	22	22	7.9	6.6	6.3	6.4	6.4	6.5	6.6	6.6
New Mexico .....	7	9	10	10	10	10	11	7.3	7.0	6.7	6.8	6.9	6.9	7.0	6.9	6.9
Arizona .....	15	21	25	26	27	28	28	29	8.4	7.9	7.7	7.8	8.0	7.9	8.2	8.1
Utah .....	7	8	9	9	9	9	9	9	6.7	5.6	5.5	5.4	5.4	5.5	5.7	5.6
Nevada .....	4	6	7	7	8	8	9	9	7.9	7.4	7.7	7.7	7.8	8.0	8.0	8.2
<b>Pacific</b> .....	221	247	268	269	277	285	278	290	8.3	7.8	7.7	7.5	7.6	7.6	7.4	7.6
Washington .....	30	32	35	34	35	36	36	36	8.8	7.7	7.8	7.7	7.7	7.8	7.8	7.6
Oregon .....	20	22	24	23	24	25	25	27	9.3	8.3	8.9	8.7	8.9	9.0	9.0	9.7
California .....	166	187	202	203	209	215	208	217	8.3	7.9	7.7	7.5	7.6	7.6	7.4	7.5
Alaska .....	1	2	2	2	2	2	2	2	4.8	4.3	4.0	3.9	3.9	3.9	3.9	3.9
Hawaii .....	4	5	6	6	6	6	6	7	5.2	5.2	5.5	5.5	5.7	5.5	5.8	6.0

<sup>1</sup> Includes deaths of nonresidents.Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; and *Monthly Vital Statistics Report*.



**No. 111. Infant, Maternal, and Neonatal Mortality Rates, and Fetal Mortality Ratios, by Race: 1960 to 1988**

[Deaths per 1,000 live births, except as noted. Beginning 1970, excludes deaths of nonresidents of U.S. See also Appendix III and *Historical Statistics, Colonial Times to 1970*, series B 136-147]

ITEM	1960	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
<b>Infant deaths</b> <sup>1</sup>	<b>26.0</b>	<b>20.0</b>	<b>18.1</b>	<b>13.1</b>	<b>12.6</b>	<b>11.9</b>	<b>11.5</b>	<b>11.2</b>	<b>10.8</b>	<b>10.6</b>	<b>10.4</b>	<b>10.1</b>	<b>10.0</b>
White	22.9	17.8	14.2	11.4	11.0	10.5	10.1	9.7	9.4	9.3	8.9	8.6	8.5
Black and other	43.2	30.9	24.2	19.8	19.1	17.8	17.3	16.8	16.1	15.8	15.7	15.4	15.0
Black	44.3	32.6	26.2	21.8	21.4	20.0	19.6	19.2	18.4	18.2	18.0	17.9	17.6
<b>Maternal deaths</b> <sup>2</sup>	<b>37.1</b>	<b>21.5</b>	<b>12.8</b>	<b>9.6</b>	<b>9.2</b>	<b>8.5</b>	<b>7.9</b>	<b>8.0</b>	<b>7.8</b>	<b>7.8</b>	<b>7.2</b>	<b>6.6</b>	<b>8.4</b>
White	26.0	14.4	9.1	6.4	6.7	6.3	5.8	5.9	5.4	5.2	4.9	5.1	5.9
Black and other	97.9	55.9	29.0	22.7	19.8	17.3	16.4	16.3	16.9	18.1	16.0	12.0	17.4
Black	103.6	59.8	31.3	25.1	21.5	20.4	18.2	18.3	19.7	20.4	18.8	14.2	19.5
<b>Fetal deaths</b> <sup>3</sup>	<b>16.1</b>	<b>14.2</b>	<b>10.7</b>	<b>9.4</b>	<b>9.2</b>	<b>9.0</b>	<b>8.9</b>	<b>8.5</b>	<b>8.2</b>	<b>7.9</b>	<b>7.7</b>	<b>7.7</b>	<b>7.5</b>
White	14.1	12.4	9.5	8.4	8.2	8.0	7.9	7.5	7.4	7.0	6.8	6.7	6.4
Black and other	26.8	22.6	16.0	13.8	13.4	12.8	12.7	12.4	11.5	11.3	11.2	11.5	11.4
<b>Neonatal deaths</b> <sup>4</sup>	<b>18.7</b>	<b>15.1</b>	<b>11.6</b>	<b>8.9</b>	<b>8.5</b>	<b>8.0</b>	<b>7.7</b>	<b>7.3</b>	<b>7.0</b>	<b>7.0</b>	<b>6.7</b>	<b>6.5</b>	<b>6.3</b>
White	17.2	13.8	10.4	7.9	7.5	7.1	6.8	6.4	6.2	6.1	5.8	5.5	5.4
Black and other	26.9	21.4	16.8	12.9	12.5	11.8	11.3	10.8	10.2	10.3	10.1	10.0	9.7
Black	27.8	22.5	18.3	14.3	14.1	13.4	13.1	12.4	11.8	12.1	11.7	11.7	11.5

<sup>1</sup> Represents deaths of infants under 1 year old, exclusive of fetal deaths. <sup>2</sup> Per 100,000 live births from deliveries and complications of pregnancy, childbirth, and the puerperium. Beginning 1979, deaths are classified according to the ninth revision of the *International Classification of Diseases*; for the earlier years classified according to the revision in use at the time; see text, section 2. <sup>3</sup> Beginning 1970, includes only those deaths with stated or presumed period of gestation of 20 weeks or more; for prior years, includes gestational age not stated. <sup>4</sup> Represents deaths of infants under 28 days old, exclusive of fetal deaths.

**No. 112. Fetal and Infant Deaths—Number and Percent Distribution: 1960 to 1988**

[State requirements for reporting of fetal deaths vary. Most States require reporting of fetal deaths of gestations of 20 weeks or more. There is substantial evidence that not all fetal deaths for which reporting is required are reported. For details of methodology, see Appendix III and source]

YEAR	NUMBER						PERCENT DISTRIBUTION					
	Total	Fetal deaths		Infant deaths			Total	Fetal deaths		Infant deaths		
		Early <sup>1</sup>	Late <sup>2</sup>	Neonatal		Post-neo-natal <sup>5</sup>		Early <sup>1</sup>	Late <sup>2</sup>	Neonatal		Post-neo-natal <sup>5</sup>
				Early <sup>3</sup>	Late <sup>4</sup>					Early <sup>3</sup>	Late <sup>4</sup>	
1960	179,353	16,496	51,984	71,125	8,608	31,140	100.0	9.2	29.0	39.7	4.8	17.4
1970	127,628	17,170	35,791	50,821	5,458	18,388	100.0	13.5	28.0	39.8	4.3	14.4
1980	78,879	10,754	22,599	25,492	5,126	14,908	100.0	13.6	28.7	32.3	6.5	18.9
1981	75,901	11,126	21,470	24,384	4,737	14,184	100.0	14.7	28.3	32.1	6.2	18.7
1982	75,095	11,028	21,666	23,706	4,629	14,066	100.0	14.7	28.9	31.6	6.2	18.7
1983	71,379	10,933	19,819	22,315	4,192	14,120	100.0	15.3	27.8	31.3	5.9	19.8
1984	69,679	10,963	19,136	21,566	4,125	13,889	100.0	15.7	27.5	31.0	5.9	19.9
1985	69,691	10,958	18,703	21,865	4,314	13,851	100.0	15.7	26.8	31.4	6.2	19.9
1986	67,863	11,100	17,872	21,053	4,159	13,679	100.0	16.4	26.3	31.0	6.1	20.2
1987	67,757	11,656	17,693	20,471	4,156	13,781	100.0	17.2	26.1	30.2	6.1	20.3
1988	68,352	11,833	17,609	20,471	4,219	14,220	100.0	17.3	25.8	29.9	6.2	20.8

<sup>1</sup> 20-27 weeks gestation. <sup>2</sup> 28 weeks or more gestation. <sup>3</sup> Less than 7 days. <sup>4</sup> 7-27 days. <sup>5</sup> 28 days-11 months.

**No. 113. Infant Deaths and Infant Mortality Rates, by Cause of Death: 1980 to 1988**

[Excludes deaths of nonresidents of U.S. Deaths classified according to ninth revision of *International Classification of Diseases*. See also Appendix III]

CAUSE OF DEATH	NUMBER			PERCENT DISTRIBUTION			INFANT MORTALITY RATE <sup>1</sup>			
	1980	1985	1988	1980	1985	1988	1980	1985	1988	1989, <sup>2</sup> prel.
<b>Total</b>	<b>45,526</b>	<b>40,030</b>	<b>38,910</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>1,260.3</b>	<b>1,064.5</b>	<b>995.3</b>	<b>973.3</b>
Congenital anomalies	9,220	8,561	8,141	20.3	21.4	20.9	255.2	227.7	208.2	204.7
Sudden infant death syndrome	5,510	5,315	5,476	12.1	13.3	14.1	152.5	141.3	140.1	126.4
Respiratory distress syndrome	4,989	3,691	3,181	11.0	9.2	8.2	138.1	98.2	81.4	86.6
Disorders relating to short gestation and unspecified low birthweight	3,648	3,257	3,268	8.0	8.1	8.4	101.0	86.6	83.6	100.1
Newborn affected by maternal complications of pregnancy	1,572	1,335	1,411	3.5	3.3	3.6	43.5	35.5	36.1	(NA)
Intrauterine hypoxia and birth asphyxia	1,497	1,158	777	3.3	2.9	2.0	41.4	30.8	19.9	19.5
Infections specific to the perinatal period	971	955	878	2.1	2.4	2.3	26.9	25.4	22.5	(NA)
Accidents and adverse effects	1,166	890	936	2.6	2.2	2.4	32.3	23.7	23.9	(NA)
Newborn affected by complications of placenta, cord, and membranes	985	891	907	2.2	2.2	2.3	27.3	23.7	23.2	(NA)
Pneumonia and influenza	1,012	705	641	2.2	1.8	1.6	28.0	18.7	16.4	12.5
All other causes	14,956	13,272	13,294	32.9	33.2	34.2	414.1	352.9	340.0	(NA)

NA Not available. <sup>1</sup> Deaths of infants under 1 year old per 100,000 live births. <sup>2</sup> Based on a 10-percent sample of deaths. Source of tables 111-113: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; and *Monthly Vital Statistics Report*.

### No. 114. Infant Mortality Rates, by Race—States: 1980 to 1988

[Deaths per 1,000 live births, by place of residence. Represents deaths of infants under 1 year old, exclusive of fetal deaths. Excludes deaths of nonresidents of the United States. See Appendix III and *Historical Statistics, Colonial Times to 1970*, series B 143-147, for U.S. total by race]

DIVISION AND STATE	TOTAL <sup>1</sup>			WHITE		BLACK		DIVISION AND STATE	TOTAL <sup>1</sup>			WHITE		BLACK	
	1980	1987	1988	1980	1988	1980	1988		1980	1987	1988	1980	1988	1980	1988
U.S. . . . .	12.6	10.1	10.0	11.0	8.5	21.4	17.6	VA. . . . .	13.6	10.2	10.4	11.9	8.1	19.8	17.9
N.E. . . . .	10.5	7.9	8.1	10.1	7.6	17.7	15.2	WV. . . . .	11.8	9.8	9.0	11.4	8.5	21.5	21.6
ME. . . . .	9.2	8.3	7.9	9.4	8.0	-	-	NC. . . . .	14.5	11.9	12.5	12.1	9.6	20.0	19.5
NH. . . . .	9.9	7.8	8.3	9.9	8.4	<sup>2</sup> 22.5	<sup>2</sup> 13.4	SC. . . . .	15.6	12.7	12.3	10.8	9.6	22.9	16.6
VT. . . . .	10.7	8.5	6.8	10.7	6.7	-	-	GA. . . . .	14.5	12.7	12.6	10.8	9.2	21.0	18.9
MA. . . . .	10.5	7.2	7.9	10.1	7.3	16.8	15.4	FL. . . . .	14.6	10.6	10.6	11.8	8.5	22.8	17.4
RI. . . . .	11.0	8.4	8.2	10.9	7.5	<sup>2</sup> 17.4	<sup>2</sup> 13.8	E.S.C. . . . .	14.5	11.7	11.4	11.8	9.1	21.8	17.2
CT. . . . .	11.2	8.8	8.9	10.2	8.0	19.1	15.5	KY. . . . .	12.9	9.7	10.7	12.0	10.0	22.0	17.4
M.A. . . . .	12.8	10.3	10.3	11.1	8.4	21.1	18.6	TN. . . . .	13.5	11.7	10.8	11.9	8.2	19.3	18.6
NY. . . . .	12.5	10.7	10.8	10.8	8.9	20.0	18.1	AL. . . . .	15.1	12.2	12.1	11.6	9.3	21.6	17.2
NJ. . . . .	12.5	9.4	9.9	10.3	7.9	21.9	18.5	MS. . . . .	17.0	13.7	12.3	11.1	8.7	23.7	16.1
PA. . . . .	13.2	10.4	9.9	11.9	8.1	23.1	19.8	W.S.C. . . . .	12.7	9.7	9.4	11.1	8.5	19.8	14.4
E.N.C. . . . .	13.0	10.3	10.5	10.9	8.7	24.4	19.6	AR. . . . .	12.7	10.3	10.7	10.3	8.7	20.0	17.4
OH. . . . .	12.8	9.3	9.7	11.2	8.6	23.0	15.9	LA. . . . .	14.3	11.8	11.0	10.5	9.0	20.6	14.3
IN. . . . .	11.9	10.1	11.0	10.5	9.9	23.4	19.9	OK. . . . .	12.7	9.6	9.0	12.1	9.3	21.8	12.6
IL. . . . .	14.8	11.6	11.3	11.7	8.7	26.3	20.7	TX. . . . .	12.2	9.1	9.0	11.2	8.3	18.8	14.5
MI. . . . .	12.8	10.7	11.1	10.6	8.6	24.2	21.9	Mt. . . . .	11.0	9.4	9.2	10.7	9.0	19.5	15.5
WI. . . . .	10.3	8.6	8.4	9.7	7.5	18.5	16.4	MT. . . . .	12.4	10.0	8.7	11.8	8.8	-	<sup>2</sup> 12.8
W.N.C. . . . .	11.3	9.3	8.9	10.5	8.1	21.3	17.1	ID. . . . .	10.7	10.4	8.8	10.7	8.5	-	<sup>2</sup> 25.0
MN. . . . .	10.0	8.7	7.8	9.6	7.2	20.0	19.5	WY. . . . .	9.8	9.2	8.9	9.3	8.6	<sup>2</sup> 25.9	<sup>2</sup> 16.8
IA. . . . .	11.8	9.1	8.7	11.5	8.3	20.2	19.9	CO. . . . .	10.1	9.8	9.6	9.8	8.6	19.1	12.0
MO. . . . .	12.4	10.2	10.1	11.1	9.0	20.7	16.2	NM. . . . .	11.5	8.1	10.0	11.3	9.7	<sup>2</sup> 23.1	<sup>2</sup> 14.2
ND. . . . .	12.1	8.7	10.5	11.7	10.0	<sup>2</sup> 27.5	-	AZ. . . . .	12.4	9.5	9.7	11.8	9.4	18.4	17.9
SD. . . . .	10.9	9.9	10.1	9.0	9.7	-	-	UT. . . . .	10.4	8.8	8.0	10.5	7.9	<sup>2</sup> 27.3	<sup>2</sup> 6.2
NE. . . . .	11.5	8.6	9.0	10.7	8.1	25.2	22.4	NV. . . . .	10.7	9.6	8.4	10.0	7.5	20.6	18.7
KS. . . . .	10.4	9.5	8.0	9.5	7.0	20.6	16.5	Pac. . . . .	11.2	9.2	8.8	10.9	8.3	17.8	15.9
S.A. . . . .	14.5	11.5	11.6	11.8	9.8	21.6	18.5	WA. . . . .	11.8	9.7	9.0	11.5	8.7	16.4	16.1
DE. . . . .	13.9	11.7	11.8	9.8	9.1	27.9	21.1	OR. . . . .	12.2	10.4	8.6	12.2	8.5	<sup>2</sup> 15.9	<sup>2</sup> 14.7
MD. . . . .	14.0	11.5	11.3	11.6	8.5	20.4	17.8	CA. . . . .	11.1	9.0	8.6	10.6	8.2	18.0	15.9
DC. . . . .	25.0	19.3	23.2	17.8	19.9	26.7	26.0	AK. . . . .	12.3	10.4	11.6	9.4	9.8	<sup>2</sup> 19.5	<sup>2</sup> 20.2
								HI. . . . .	10.3	8.9	7.2	11.6	7.2	<sup>2</sup> 11.8	<sup>2</sup> 9.0

- Represents zero. <sup>1</sup> Includes other races, not shown separately. <sup>2</sup> Based on a frequency of less than 20 infant deaths.

### No. 115. Age-Adjusted Death Rates, by Selected Causes: 1970 to 1988

[Rates per 100,000 population. For explanation of age-adjustment, see text, section 2. The standard population for this table is the total population of the United States enumerated in 1940. See also headnote, table 116]

CAUSE OF DEATH	1970	1980	1988	CAUSE OF DEATH	1970	1980	1988
All causes . . . . .	714.3	585.8	535.5	Pneumonia and influenza . . . . .	22.1	12.9	14.2
Major cardiovascular diseases . . . . .	340.1	256.0	206.6	Pneumonia . . . . .	20.8	12.4	13.9
Diseases of heart . . . . .	253.6	202.0	166.3	Influenza . . . . .	1.3	0.5	0.3
Rheumatic fever and rheumatic heart disease . . . . .	6.3	2.6	1.7	Diabetes mellitus . . . . .	14.1	10.1	10.1
Hypertensive heart disease . . . . .	4.9	6.8	5.4	Suicide . . . . .	11.8	11.4	11.4
Ischemic heart disease . . . . .	228.1	149.8	110.2	Chronic liver disease and cirrhosis . . . . .	14.7	12.2	9.0
Other diseases of endocardium . . . . .	2.3	2.0	2.4	Nephritis, nephrotic syndrome, and nephrosis . . . . .	3.5	4.5	4.8
All other forms of heart disease . . . . .	12.0	40.8	46.5	Homicide and legal intervention . . . . .	9.1	10.8	9.0
Hypertension . . . . .	2.9	2.0	1.8	Septicemia . . . . .	1.4	2.6	4.6
Cerebrovascular diseases . . . . .	66.3	40.8	29.7	Other infective and parasitic diseases . . . . .	2.8	1.8	8.9
Atherosclerosis . . . . .	8.4	5.7	3.4	Benign neoplasms <sup>5</sup> . . . . .	2.0	2.0	1.7
Other . . . . .	8.8	5.5	5.3	Ulcer of stomach and duodenum . . . . .	3.2	1.7	1.4
Malignancies <sup>2</sup> . . . . .	129.9	132.8	132.7	Hernia of abdominal cavity and intestinal obstruction <sup>6</sup> . . . . .	2.6	1.4	1.1
Of respiratory and intrathoracic organs . . . . .	28.4	36.4	39.9	Anemias . . . . .	1.3	0.9	0.9
Of digestive organs and peritoneum . . . . .	35.2	33.0	30.0	Cholelithiasis and other disorders of gallbladder . . . . .	1.3	0.8	0.6
Of genital organs . . . . .	15.6	13.6	13.0	Nutritional deficiencies . . . . .	0.8	0.5	0.5
Of breast . . . . .	12.6	12.5	12.6	Infections of kidney . . . . .	2.8	0.7	0.3
Of urinary organs . . . . .	5.7	5.2	4.9	Tuberculosis . . . . .	2.2	0.6	0.5
Leukemia . . . . .	5.8	5.4	4.8	Meningitis . . . . .	0.8	0.6	0.4
Accidents and adverse effects . . . . .	53.7	42.3	35.0	Viral hepatitis . . . . .	0.5	0.3	0.4
Motor vehicle . . . . .	27.4	22.9	19.7	Acute bronchitis and bronchiolitis . . . . .	0.5	0.2	0.1
All other . . . . .	26.3	19.5	15.3	Hyperplasia of prostate . . . . .	0.6	0.2	0.1
Chronic obstructive pulmonary diseases and allied conditions <sup>3</sup> . . . . .	11.6	15.9	19.4	Symptoms, signs, and ill-defined conditions . . . . .	10.4	9.8	9.2
Bronchitis, chronic and unspecified . . . . .	2.1	1.0	0.8	All other causes . . . . .	44.0	36.8	40.4
Emphysema . . . . .	8.4	4.0	3.8				
Asthma . . . . .	1.0	1.0	1.4				
Other . . . . .	( <sup>4</sup> )	9.9	13.5				

<sup>1</sup> With or without renal disease. <sup>2</sup> Includes other types of malignancies not shown separately. <sup>3</sup> Prior to 1980, data are shown for bronchitis, emphysema, and asthma. <sup>4</sup> Included in "all other causes." Comparable data not available separately. <sup>5</sup> Includes neoplasms of unspecified nature; beginning 1980 also includes carcinoma in situ. <sup>6</sup> Without mention of hernia.

Source of tables 114 and 115: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; and unpublished data.

## No. 116. Deaths and Death Rates, by Selected Causes: 1970 to 1989

[Excludes deaths of nonresidents of the U.S., except as noted. Beginning 1979, deaths classified according to ninth revision of *International Classification of Diseases*; for earlier years, classified according to revision in use at that time. See also Appendix III and *Historical Statistics, Colonial Times to 1970*, series B 149-166]

CAUSE OF DEATH	DEATHS (1,000)					CRUDE DEATH RATE PER 100,000 POPULATION <sup>2</sup>				
	1970	1980	1985	1988	1989, <sup>1</sup> prel.	1970	1980	1985	1988	1989, <sup>1</sup> prel.
All causes	1,921.0	1,989.8	2,086.4	2,168.0	2,155.0	945.3	878.3	873.9	882.0	868.1
Major cardiovascular diseases	1,008.0	988.5	977.9	969.4	934.3	496.0	436.4	409.6	394.4	376.4
Diseases of heart	735.5	761.1	771.2	765.2	735.5	362.0	336.0	323.0	311.3	296.3
Percent of total	38.3	38.3	37.0	35.3	34.1	38.3	38.3	37.0	35.3	34.1
Rheumatic fever and rheumatic heart disease	14.9	7.8	6.6	6.4	6.0	7.3	3.5	2.8	2.6	2.4
Hypertensive heart disease <sup>3</sup>	15.0	24.8	23.7	23.2	23.2	7.4	10.9	9.9	9.5	9.4
Ischemic heart disease	666.7	565.8	536.8	509.6	497.9	328.1	249.7	224.8	207.3	200.6
Other diseases of endocardium	6.7	7.2	9.5	11.7	11.8	3.3	3.2	4.0	4.8	4.7
All other forms of heart disease	32.3	155.5	194.6	214.2	196.6	15.9	68.7	81.5	87.1	79.2
Hypertension <sup>3</sup>	8.3	7.8	7.8	8.5	8.5	4.1	3.5	3.2	3.4	3.4
Cerebrovascular diseases	207.2	170.2	153.1	150.5	147.5	101.9	75.1	64.1	61.2	59.4
Atherosclerosis	31.7	29.4	23.9	22.1	19.1	15.6	13.0	10.0	9.0	7.7
Other	25.3	20.0	22.0	23.2	23.8	12.5	8.8	9.2	9.4	9.6
Malignancies <sup>4</sup>	330.7	416.5	461.6	485.0	497.2	162.8	183.9	193.3	197.3	200.3
Percent of total	17.2	20.9	22.1	22.4	23.1	17.2	20.9	22.1	22.4	23.1
Of respiratory and intrathoracic organs	69.5	108.5	127.3	138.3	141.6	34.2	47.9	53.3	56.2	57.0
Of digestive organs and peritoneum	94.7	110.6	116.6	117.4	119.2	46.6	48.8	48.8	47.8	48.0
Of genital organs	41.2	46.4	49.7	53.4	53.6	20.3	20.5	20.8	21.7	21.6
Of breast	29.9	35.9	40.4	42.5	43.7	14.7	15.8	16.9	17.3	17.6
Of urinary organs	15.5	17.8	18.9	19.5	20.1	7.6	7.9	7.9	7.9	8.1
Leukemia	14.5	16.5	17.3	17.6	18.9	7.1	7.3	7.3	7.2	7.6
Accidents and adverse effects	114.6	105.7	93.5	97.1	94.8	56.4	46.7	39.1	39.5	38.2
Motor vehicle	54.6	53.2	45.9	49.1	48.8	26.9	23.5	19.2	20.0	19.7
All other	60.0	52.5	47.6	48.0	46.0	29.5	23.3	19.9	19.5	18.5
Chronic obstructive pulmonary diseases and allied conditions <sup>5</sup>	30.9	56.1	74.7	82.9	84.4	15.2	24.7	31.3	33.7	34.0
Bronchitis, chronic and unspecified	5.8	3.7	3.8	3.7	3.7	2.9	1.6	1.5	1.5	1.5
Emphysema	22.7	13.9	14.2	15.5	15.5	11.2	6.1	5.9	6.3	6.3
Asthma	2.3	2.9	3.9	4.6	5.2	1.1	1.3	1.6	1.9	2.1
Other	( <sup>7</sup> )	35.6	53.0	59.0	60.0	( <sup>7</sup> )	15.7	22.2	24.0	24.2
Pneumonia and influenza	62.7	54.6	67.6	77.7	75.2	30.9	24.1	28.3	31.6	30.3
Pneumonia	59.0	51.9	65.6	75.7	73.9	29.0	22.9	27.5	30.8	29.8
Influenza	3.7	2.7	2.1	1.9	1.4	1.8	1.2	0.9	0.8	0.6
Diabetes mellitus	38.3	34.9	37.0	40.4	46.6	18.9	15.4	15.5	16.4	18.8
Suicide	23.5	26.9	29.5	30.4	31.2	11.6	11.9	12.3	12.4	12.6
Chronic liver disease and cirrhosis	31.4	30.6	26.8	26.4	26.4	15.5	13.5	11.2	10.7	10.6
Other infective and parasitic diseases	6.9	5.1	6.1	24.0	29.5	3.4	2.2	3.4	9.7	11.9
Human immunodeficiency virus (HIV) infection (AIDS)	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	16.6	21.4	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	6.8	8.6
Homicide and legal intervention	16.8	24.3	19.9	22.0	23.0	8.3	10.7	8.3	9.0	9.3
Nephritis, nephrotic syndrome, and nephrosis	8.9	16.8	21.3	22.4	21.2	4.4	7.4	8.9	9.1	8.6
Septicemia	3.5	9.4	17.2	20.9	19.1	1.7	4.2	7.2	8.5	7.7
Certain conditions originating in the perinatal period	43.2	22.9	19.2	18.2	18.5	21.3	10.1	8.1	7.4	7.5
Congenital anomalies	16.8	13.9	12.8	12.8	12.7	8.3	6.2	5.4	5.2	5.1
Benign neoplasms <sup>8</sup>	4.8	6.2	6.7	6.7	7.1	2.4	2.7	2.8	2.7	2.9
Ulcer of stomach and duodenum	8.6	6.1	6.6	6.4	6.6	4.2	2.7	2.8	2.6	2.7
Hernia of abdominal cavity and intestinal obstruction <sup>9</sup>	7.2	5.4	5.4	5.6	5.4	3.6	2.4	2.2	2.3	2.2
Anemias	3.4	3.2	3.7	3.8	3.9	1.7	1.4	1.5	1.6	1.6
Cholelithiasis and other disorders of gall bladder	4.0	3.3	3.0	3.1	3.0	2.0	1.5	1.2	1.3	1.2
Nutritional deficiencies	2.5	2.4	2.9	3.0	3.1	1.2	1.0	1.2	1.2	1.2
Tuberculosis	5.2	2.0	1.8	1.9	1.8	2.6	0.9	0.7	0.8	0.7
Infections of kidney	8.2	2.7	2.0	1.6	1.3	4.0	1.2	0.8	0.7	0.5
Viral hepatitis	1.0	0.8	0.9	1.3	1.4	0.5	0.4	0.4	0.5	0.6
Meningitis	1.7	1.4	1.2	1.2	1.0	0.8	0.6	0.5	0.5	0.4
Acute bronchitis and bronchiolitis	1.3	0.6	0.6	0.6	0.5	0.6	0.3	0.3	0.3	0.2
Hyperplasia of prostate	2.2	0.8	0.5	0.5	0.4	1.1	0.3	0.2	0.2	0.2
Symptoms, signs, and ill-defined conditions	25.8	28.8	31.0	31.0	29.8	12.7	12.7	13.0	12.6	12.0
All other causes	108.8	120.0	153.0	171.7	175.6	53.5	53.0	64.4	69.8	70.4

<sup>1</sup> Based on a 10-percent sample of deaths. Includes deaths of nonresidents. <sup>2</sup> 1970 and 1980 based on resident population enumerated as of Apr. 1; 1985-1989 estimated as of July 1. <sup>3</sup> With or without renal disease. <sup>4</sup> Includes other types of malignancies not shown separately. <sup>5</sup> Prior to 1980, data are shown for bronchitis, emphysema, and asthma. <sup>6</sup> Included in "all other causes." Comparable data not available separately. <sup>7</sup> Data are included in several other categories. <sup>8</sup> Includes neoplasms of unspecified nature; beginning 1980 also includes carcinoma in situ. <sup>9</sup> Without mention of hernia.

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; *Monthly Vital Statistics Report*; and unpublished data.

## No. 117. Deaths, by Selected Cause and Selected Characteristics: 1988

[In thousands. Excludes deaths of nonresidents of the U.S. Deaths classified according to ninth revision of *International Classification of Diseases*. See also Appendix III]

AGE, SEX, AND RACE	Total <sup>1</sup>	Dis- eases of heart	Malignant neoplasms	Acci- dents and ad- verse ef- fects	Cere- bro- vas- cular dis- eases	Chronic obstruc- tive pul- monary dis- eases <sup>2</sup>	Pneu- monia, flu	Sui- cide	Chronic liver dis- ease, cirrho- sis	Diab- etes mel- litus	Homi- cide and legal inter- vention
<b>ALL RACES <sup>3</sup></b>											
<b>Both sexes, total <sup>4</sup></b>	<b>2,168.0</b>	<b>765.2</b>	<b>485.0</b>	<b>97.1</b>	<b>150.5</b>	<b>82.9</b>	<b>77.7</b>	<b>30.4</b>	<b>26.4</b>	<b>40.4</b>	<b>22.0</b>
Under 15 years old . . . . .	55.3	1.5	1.7	8.0	0.3	0.2	1.0	0.2	(Z)	(Z)	1.2
15-24 years old . . . . .	38.2	1.1	1.9	18.5	0.3	0.2	0.3	4.9	0.1	0.1	5.8
25-34 years old . . . . .	59.1	3.6	5.2	16.7	1.0	0.3	0.8	6.7	1.1	0.7	7.0
35-44 years old . . . . .	77.5	12.1	15.6	11.6	2.4	0.6	1.3	5.2	3.6	1.4	3.8
45-54 years old . . . . .	117.5	31.8	38.8	7.5	4.6	2.3	1.8	3.5	4.8	2.5	1.7
55-64 years old . . . . .	269.7	87.5	97.7	7.7	11.2	10.7	4.1	3.4	7.0	6.1	1.1
65-74 years old . . . . .	488.5	176.1	150.8	9.0	27.7	27.2	10.7	3.3	6.3	11.1	0.8
75-84 years old . . . . .	601.9	242.1	125.0	10.1	52.7	29.8	24.5	2.5	3.1	11.9	0.4
85 years old and over . . . . .	459.7	209.3	48.3	7.9	50.3	11.6	33.1	0.6	0.6	6.5	0.1
<b>Male, total <sup>4</sup></b>	<b>1,125.5</b>	<b>385.4</b>	<b>258.1</b>	<b>65.8</b>	<b>59.8</b>	<b>48.9</b>	<b>36.8</b>	<b>24.1</b>	<b>17.2</b>	<b>17.0</b>	<b>16.7</b>
Under 15 years old . . . . .	31.7	0.9	1.0	5.1	0.1	0.1	0.5	0.2	(Z)	(Z)	0.6
15-24 years old . . . . .	28.5	0.7	1.1	14.2	0.1	0.1	0.1	4.1	(Z)	0.1	4.7
25-34 years old . . . . .	43.0	2.5	2.6	13.1	0.5	0.2	0.5	5.5	0.7	0.4	5.4
35-44 years old . . . . .	52.4	9.1	6.9	8.9	1.3	0.3	0.9	4.0	2.6	0.8	3.0
45-54 years old . . . . .	73.9	23.5	19.5	5.5	2.5	1.2	1.2	2.6	3.4	1.4	1.3
55-64 years old . . . . .	165.4	60.2	54.2	5.3	6.1	6.2	2.6	2.6	4.7	2.9	0.8
65-74 years old . . . . .	283.9	107.9	85.2	5.4	14.0	16.4	6.6	2.6	3.9	4.9	0.5
75-84 years old . . . . .	294.7	116.1	66.7	5.2	21.6	18.1	12.6	2.1	1.6	4.6	0.2
85 years old and over . . . . .	151.6	64.6	20.9	3.1	13.4	6.4	11.8	0.5	0.3	1.9	0.1
<b>Female, total <sup>4</sup></b>	<b>1,042.5</b>	<b>379.8</b>	<b>227.0</b>	<b>31.3</b>	<b>90.8</b>	<b>33.9</b>	<b>40.8</b>	<b>6.3</b>	<b>9.2</b>	<b>23.4</b>	<b>5.3</b>
Under 15 years old . . . . .	23.6	0.7	0.8	3.0	0.1	0.1	0.4	0.1	(Z)	(Z)	0.5
15-24 years old . . . . .	9.6	0.4	0.8	4.3	0.1	0.1	0.1	0.8	(Z)	0.1	1.1
25-34 years old . . . . .	16.2	1.1	2.7	3.6	0.4	0.1	0.3	1.2	0.3	0.3	1.6
35-44 years old . . . . .	25.0	3.0	8.7	2.7	1.1	0.3	0.5	1.2	1.0	0.6	0.8
45-54 years old . . . . .	43.6	8.3	19.2	2.0	2.2	1.1	0.6	1.0	1.4	1.1	0.4
55-64 years old . . . . .	104.4	27.3	43.5	2.4	5.1	4.5	1.5	0.8	2.3	3.2	0.3
65-74 years old . . . . .	204.6	68.2	65.6	3.5	13.7	10.8	4.2	0.7	2.4	6.2	0.3
75-84 years old . . . . .	307.2	126.0	58.3	5.0	31.1	11.7	11.9	0.4	1.5	7.3	0.2
85 years old and over . . . . .	308.2	144.6	27.5	4.8	36.9	5.2	21.4	0.1	0.3	4.7	0.1
<b>WHITE</b>											
<b>Both sexes, total <sup>4</sup></b>	<b>1,876.9</b>	<b>678.5</b>	<b>425.1</b>	<b>81.1</b>	<b>130.1</b>	<b>76.7</b>	<b>69.6</b>	<b>27.8</b>	<b>21.9</b>	<b>32.7</b>	<b>11.1</b>
Under 15 years old . . . . .	38.0	1.1	1.4	5.9	0.2	0.1	0.6	0.2	(Z)	(Z)	0.6
15-24 years old . . . . .	29.0	0.7	1.5	15.9	0.2	0.1	0.2	4.3	(Z)	0.1	2.4
25-34 years old . . . . .	42.5	2.4	4.2	13.7	0.6	0.2	0.5	5.8	0.7	0.5	3.2
35-44 years old . . . . .	56.8	8.9	12.6	9.2	1.5	0.4	0.8	4.8	2.5	1.0	2.1
45-54 years old . . . . .	91.4	24.9	31.7	6.0	3.1	1.8	1.2	3.3	3.7	1.8	1.0
55-64 years old . . . . .	224.6	72.8	83.7	6.3	8.3	9.5	3.2	3.2	5.9	4.6	0.7
65-74 years old . . . . .	426.6	154.3	133.4	7.6	22.8	25.3	9.2	3.2	5.7	8.9	0.5
75-84 years old . . . . .	542.2	218.8	112.7	9.1	46.8	28.2	22.4	2.4	2.8	10.1	0.3
85 years old and over . . . . .	425.3	194.6	43.9	7.3	46.6	11.1	31.3	0.6	0.6	5.8	0.1
<b>BLACK</b>											
<b>Both sexes, total <sup>4</sup></b>	<b>264.0</b>	<b>79.5</b>	<b>54.0</b>	<b>13.5</b>	<b>18.5</b>	<b>5.5</b>	<b>7.2</b>	<b>2.0</b>	<b>3.9</b>	<b>7.0</b>	<b>10.4</b>
Under 15 years old . . . . .	15.6	0.4	0.3	1.8	0.1	0.1	0.3	(Z)	(Z)	(Z)	0.5
15-24 years old . . . . .	8.0	0.3	0.3	2.0	0.1	0.1	0.1	0.5	(Z)	(Z)	3.2
25-34 years old . . . . .	15.2	1.1	0.9	2.5	0.3	0.1	0.3	0.7	0.3	0.2	3.6
35-44 years old . . . . .	19.0	3.0	2.7	2.0	0.8	0.2	0.5	0.4	1.0	0.4	1.7
45-54 years old . . . . .	23.6	6.4	6.2	1.3	1.4	0.4	0.5	0.2	1.0	0.7	0.6
55-64 years old . . . . .	41.2	13.6	12.6	1.2	2.7	1.0	0.8	0.1	0.9	1.4	0.4
65-74 years old . . . . .	56.5	20.1	15.9	1.1	4.5	1.7	1.3	0.1	0.5	2.0	0.3
75-84 years old . . . . .	54.0	21.3	11.2	0.9	5.3	1.4	1.8	0.1	0.2	1.7	0.1
85 years old and over . . . . .	30.9	13.2	3.9	0.5	3.3	0.5	1.6	(Z)	(Z)	0.7	(Z)

Z Fewer than 50. <sup>1</sup> Includes other causes, not shown separately. <sup>2</sup> Includes allied conditions. <sup>3</sup> Includes other races, not shown separately. <sup>4</sup> Includes those deaths with age not stated.

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual.

**No. 118. Death Rates by Selected Causes and Selected Characteristics: 1970 to 1989**

[Deaths per 100,000 population in specified group. Except as noted, excludes deaths of nonresidents of U.S. See headnote, tables 115 and 116]

YEAR AND CHARACTERISTIC	Total <sup>1</sup>	Diseases of heart	Malignant neoplasms	Accidents and adverse effects	Cerebrovascular diseases	Chronic obstructive pulmonary diseases <sup>2</sup>	Pneumonia, flu	Suicide	Chronic liver disease, cirrhosis	Diabetes mellitus	Homicide and legal intervention
<b>ALL RACES <sup>3</sup></b>											
<b>Both sexes:</b>											
1970, age-adjusted . . . . .	714.3	253.6	129.9	53.7	66.3	( <sup>4</sup> )	22.1	11.8	14.7	14.1	9.1
1980, age-adjusted . . . . .	585.8	202.0	132.8	42.3	40.8	15.9	12.9	11.4	12.2	10.1	10.8
1985, age-adjusted . . . . .	546.1	180.5	133.6	34.7	32.3	18.7	13.4	11.5	9.6	9.6	8.3
1986, age-adjusted . . . . .	541.7	175.0	133.2	35.2	31.0	18.8	13.5	11.9	9.2	9.6	9.0
1987, age-adjusted . . . . .	535.5	169.6	132.9	34.6	30.3	18.7	13.1	11.7	9.1	9.8	8.6
1988, age-adjusted . . . . .	535.5	166.3	132.7	35.0	29.7	19.4	14.2	11.4	9.0	10.1	9.0
1989, age-adjusted <sup>5</sup> . . . . .	524.1	155.9	133.7	33.5	28.5	19.4	13.3	11.7	8.7	11.3	9.4
15-24 years old . . . . .	102.1	2.9	5.1	49.5	0.7	0.5	0.7	13.2	0.1	0.3	15.4
25-34 years old . . . . .	135.4	8.2	11.9	38.3	2.2	0.7	1.9	15.4	2.4	1.5	16.0
35-44 years old . . . . .	219.6	34.2	44.2	32.8	6.9	1.8	3.8	14.8	10.1	4.0	10.9
45-54 years old . . . . .	486.2	131.4	160.4	31.1	19.2	9.3	7.3	14.6	19.8	10.4	7.1
55-64 years old . . . . .	1,235.6	400.9	447.3	35.1	51.3	48.8	18.9	15.6	32.0	28.0	5.2
65-74 years old . . . . .	2,729.8	984.1	842.7	50.1	154.7	151.9	59.9	18.4	35.0	62.0	4.2
75-84 years old . . . . .	6,321.3	2,542.7	1,313.3	106.5	553.6	313.0	257.1	25.9	32.4	125.0	4.5
85 years old and over . . . . .	15,594.0	7,098.1	1,638.9	267.3	1,707.4	394.3	1,124.5	20.5	20.0	222.1	4.7
<b>Male:</b>											
1970, age-adjusted . . . . .	931.6	348.5	157.4	80.7	73.2	( <sup>4</sup> )	28.8	17.3	20.2	13.5	14.9
1980, age-adjusted . . . . .	777.2	280.4	165.5	64.0	44.9	26.1	17.4	18.0	17.1	10.2	17.4
1985, age-adjusted . . . . .	716.8	247.7	164.5	51.8	35.2	27.9	18.2	18.8	13.6	9.9	12.8
1987, age-adjusted . . . . .	698.6	229.6	163.2	51.2	32.7	26.9	17.7	19.1	13.0	10.3	13.2
1988, age-adjusted <sup>5</sup> . . . . .	696.7	224.5	162.4	51.5	32.4	27.5	18.9	18.7	12.9	10.5	13.9
15-24 years old . . . . .	151.0	3.8	5.9	75.1	0.8	0.5	0.8	21.9	0.2	0.4	24.7
25-34 years old . . . . .	196.7	11.3	11.7	60.0	2.4	0.7	2.4	25.0	3.2	1.8	24.7
35-44 years old . . . . .	301.4	52.2	39.7	51.0	7.5	1.9	5.1	22.9	14.9	4.8	17.3
45-54 years old . . . . .	629.0	199.8	166.3	47.0	21.0	10.2	10.0	21.7	29.1	11.5	11.4
55-64 years old . . . . .	1,606.9	584.7	526.7	51.2	59.5	59.9	25.1	25.0	45.7	28.6	8.2
65-74 years old . . . . .	3,573.8	1,358.1	1,072.7	68.6	176.5	205.9	82.5	33.0	48.7	61.8	5.9
75-84 years old . . . . .	8,223.2	3,239.1	1,861.0	143.7	603.2	504.8	352.4	57.2	43.8	127.3	6.3
85 years old and over . . . . .	18,370.8	7,830.9	2,527.9	374.5	1,625.6	776.8	1,428.2	60.4	33.8	229.2	7.3
<b>Female:</b>											
1970, age-adjusted . . . . .	532.5	175.2	108.8	28.2	60.8	( <sup>4</sup> )	16.7	6.8	9.8	14.4	3.7
1980, age-adjusted . . . . .	432.6	140.3	109.2	21.8	37.6	8.9	9.8	5.4	7.9	10.0	4.5
1985, age-adjusted . . . . .	409.4	127.3	111.4	18.6	30.0	12.5	10.1	4.9	6.1	9.4	3.9
1987, age-adjusted . . . . .	403.3	121.7	111.0	18.8	28.3	13.2	10.0	4.9	5.6	9.3	4.1
1988, age-adjusted <sup>5</sup> . . . . .	404.4	119.8	111.2	19.1	27.6	14.0	11.0	4.7	5.6	9.8	4.2
15-24 years old . . . . .	52.1	2.1	4.2	23.3	0.7	0.4	0.7	4.2	0.1	0.3	6.0
25-34 years old . . . . .	74.0	5.1	12.2	16.6	2.1	0.7	1.5	5.7	1.6	1.2	7.3
35-44 years old . . . . .	140.0	16.8	48.5	15.0	6.2	1.7	2.5	6.9	5.4	3.1	4.6
45-54 years old . . . . .	350.9	66.7	154.9	16.0	17.4	8.5	4.8	7.9	11.0	9.2	3.1
55-64 years old . . . . .	904.7	237.0	376.6	20.7	44.0	39.0	13.3	7.2	19.8	27.5	2.5
65-74 years old . . . . .	2,056.1	685.6	659.2	35.4	137.3	108.8	41.8	6.8	24.1	62.1	2.9
75-84 years old . . . . .	5,173.3	2,122.4	982.6	84.1	523.7	197.3	199.6	6.9	25.5	123.7	3.5
85 years old and over . . . . .	14,508.1	6,810.1	1,292.8	225.5	1,738.4	245.5	1,005.9	5.0	14.6	219.3	3.7
<b>WHITE</b>											
<b>Both sexes:</b>											
1970, age-adjusted . . . . .	679.6	249.1	127.8	51.0	61.8	( <sup>4</sup> )	19.8	12.4	13.4	12.9	4.7
1980, age-adjusted . . . . .	559.4	197.6	129.6	41.5	38.0	18.3	12.2	12.1	11.0	9.1	6.9
1985, age-adjusted . . . . .	523.1	176.1	130.7	34.1	30.1	19.2	12.8	12.3	8.9	8.6	5.4
1988, age-adjusted . . . . .	509.8	161.5	130.0	34.1	27.5	19.8	13.6	12.2	8.4	9.0	5.3
<b>Male:</b>											
1970, age-adjusted . . . . .	893.4	347.6	154.3	76.2	68.3	( <sup>4</sup> )	26.0	18.2	18.8	12.7	7.3
1980, age-adjusted . . . . .	745.3	277.5	160.5	62.3	41.9	26.7	16.2	18.9	15.7	9.5	10.9
1985, age-adjusted . . . . .	688.7	244.5	159.2	50.4	32.8	28.5	17.4	19.9	12.6	9.2	8.1
1988, age-adjusted . . . . .	664.3	220.5	157.6	49.9	30.0	27.8	18.0	19.8	12.1	9.6	7.7
<b>Female:</b>											
1970, age-adjusted . . . . .	501.7	167.8	107.6	27.2	56.2	( <sup>4</sup> )	15.0	7.2	8.7	12.8	2.2
1980, age-adjusted . . . . .	411.1	134.6	107.7	21.4	35.2	9.2	9.4	5.7	7.0	8.7	3.2
1985, age-adjusted . . . . .	390.6	121.7	110.3	18.4	27.9	12.9	9.8	5.3	5.6	8.1	2.9
1988, age-adjusted . . . . .	384.4	114.2	110.1	18.8	25.5	14.5	10.7	5.1	5.0	8.4	2.8
<b>BLACK</b>											
<b>Both sexes:</b>											
1970, age-adjusted . . . . .	1,044.0	307.6	156.7	74.4	114.5	( <sup>4</sup> )	40.4	8.1	24.8	26.5	46.1
1980, age-adjusted . . . . .	842.5	255.7	172.1	51.2	68.5	12.5	19.2	6.4	21.6	20.3	40.6
1985, age-adjusted . . . . .	779.9	236.2	173.0	41.8	55.0	15.0	18.5	6.4	16.1	19.7	29.0
1988, age-adjusted . . . . .	788.8	226.6	171.3	43.7	51.5	16.6	19.6	6.8	14.5	21.2	34.1
<b>Male:</b>											
1970, age-adjusted . . . . .	1,318.6	375.9	198.0	119.5	122.5	( <sup>4</sup> )	53.8	9.9	33.1	21.2	82.1
1980, age-adjusted . . . . .	1,112.8	327.3	229.9	82.0	77.5	20.9	28.0	11.1	30.6	17.7	71.9
1985, age-adjusted . . . . .	1,024.0	301.0	231.6	66.7	60.8	23.9	26.8	11.3	23.4	17.7	49.9
1988, age-adjusted . . . . .	1,037.8	286.2	227.0	69.0	57.8	26.0	28.0	11.8	20.7	19.8	58.2
<b>Female:</b>											
1970, age-adjusted . . . . .	814.4	251.7	123.5	35.3	107.9	( <sup>4</sup> )	29.2	2.9	17.8	30.9	15.0
1980, age-adjusted . . . . .	631.1	201.1	129.7	25.1	61.7	6.3	12.7	2.4	14.4	22.1	13.7
1985, age-adjusted . . . . .	589.1	186.8	130.4	20.7	50.3	8.7	12.4	2.1	10.1	21.1	10.8
1988, age-adjusted . . . . .	593.1	181.1	131.2	22.2	46.6	10.0	13.4	2.4	9.3	22.1	12.7

<sup>1</sup> Includes other causes, not shown separately. <sup>2</sup> Includes allied conditions. <sup>3</sup> Includes other races not shown separately. <sup>4</sup> Data not available on a comparable basis with later years. <sup>5</sup> Includes persons under 15 years old, not shown separately.

<sup>6</sup> Provisional. Includes deaths of nonresidents. Based on a 10-percent sample of deaths.

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual.

## No. 119. Death Rates, by Cause—States: 1988

[Deaths per 100,000 resident population estimated as of July 1. By place of residence. Excludes nonresidents of U.S. Causes of death classified according to ninth revision of *International Classification of Diseases*]

REGION, DIVISION, AND STATE	Total <sup>1</sup>	Dis- eases of heart	Malig- nant neo- plasms	Cere- bro- vas- cular dis- eases	Acci- dents and ad- verse ef- fects	Chronic obstruc- tive pulmo- nary dis- eases <sup>2</sup>	Pneu- monia, flu	Dia- betes melli- tus	Sui- cide	Chronic liver dis- ease and cirrho- sis	Ath- ero- scler- osis	Homi- cide and legal inter- vention	HIV <sup>3</sup> infection
<b>U.S. . .</b>	<b>882.0</b>	<b>311.3</b>	<b>197.3</b>	<b>61.2</b>	<b>39.5</b>	<b>33.7</b>	<b>31.6</b>	<b>16.4</b>	<b>12.4</b>	<b>10.7</b>	<b>9.0</b>	<b>9.0</b>	<b>6.8</b>
<b>Northeast . .</b>	<b>979.4</b>	<b>366.9</b>	<b>222.7</b>	<b>58.9</b>	<b>33.1</b>	<b>32.8</b>	<b>35.7</b>	<b>19.1</b>	<b>9.0</b>	<b>12.5</b>	<b>9.0</b>	<b>7.8</b>	<b>12.3</b>
<b>N.E. . . . .</b>	<b>923.8</b>	<b>329.3</b>	<b>218.2</b>	<b>60.4</b>	<b>31.2</b>	<b>34.6</b>	<b>36.6</b>	<b>17.6</b>	<b>10.3</b>	<b>11.5</b>	<b>10.1</b>	<b>4.2</b>	<b>4.7</b>
ME . . . . .	955.9	330.4	226.6	64.5	39.5	46.1	29.5	22.9	13.4	10.5	14.4	3.0	1.4
NH . . . . .	808.3	278.3	195.2	56.2	27.6	33.5	28.2	16.4	13.1	11.1	9.9	2.6	2.2
VT . . . . .	837.7	289.4	183.3	56.9	41.8	45.2	33.4	16.7	16.2	11.0	8.8	2.5	1.1
MA . . . . .	959.1	343.9	223.4	63.5	29.7	34.4	43.0	15.7	8.6	12.4	10.7	4.1	5.4
RI . . . . .	979.2	353.6	242.0	64.0	29.7	34.3	26.1	28.6	10.0	13.1	9.4	4.5	4.2
CT . . . . .	883.9	318.8	211.9	53.9	30.7	29.3	34.1	16.4	10.3	10.2	7.9	5.6	6.2
<b>M.A. . . . .</b>	<b>988.5</b>	<b>379.8</b>	<b>224.2</b>	<b>58.4</b>	<b>33.7</b>	<b>32.2</b>	<b>35.4</b>	<b>19.7</b>	<b>8.6</b>	<b>12.8</b>	<b>8.6</b>	<b>9.0</b>	<b>14.9</b>
NY . . . . .	984.5	376.2	216.0	54.0	32.1	31.0	38.7	18.1	6.7	14.2	8.7	12.8	22.3
NJ . . . . .	950.8	356.1	223.5	54.9	31.5	29.3	31.1	19.8	7.0	13.5	8.0	5.4	15.0
PA . . . . .	1,050.1	400.6	237.1	67.3	37.6	36.0	33.3	21.9	12.4	10.3	8.7	5.6	3.9
<b>Midwest . . .</b>	<b>906.6</b>	<b>332.1</b>	<b>203.1</b>	<b>65.1</b>	<b>37.2</b>	<b>34.7</b>	<b>33.6</b>	<b>17.0</b>	<b>11.6</b>	<b>9.0</b>	<b>10.8</b>	<b>6.8</b>	<b>2.4</b>
<b>E.N.C. . . .</b>	<b>898.8</b>	<b>333.5</b>	<b>203.2</b>	<b>62.3</b>	<b>36.2</b>	<b>33.6</b>	<b>31.3</b>	<b>17.8</b>	<b>11.5</b>	<b>9.9</b>	<b>10.3</b>	<b>7.8</b>	<b>2.6</b>
OH . . . . .	922.4	344.6	212.1	62.1	34.6	37.5	29.9	19.7	11.2	8.9	9.4	5.2	2.1
IN . . . . .	900.6	318.0	204.3	70.0	39.0	37.4	28.8	22.0	11.6	8.3	12.1	5.9	2.0
IL . . . . .	906.2	340.8	202.3	59.9	37.9	30.4	33.1	15.8	10.8	10.8	9.1	9.8	4.0
MI . . . . .	867.4	327.2	193.8	56.8	35.1	31.4	29.1	16.5	11.8	11.7	12.9	11.5	2.3
WI . . . . .	886.3	320.7	202.1	69.8	34.8	32.7	37.1	16.2	13.5	8.1	8.7	3.5	1.2
<b>W.N.C. . . .</b>	<b>925.0</b>	<b>328.9</b>	<b>202.8</b>	<b>71.9</b>	<b>39.7</b>	<b>37.3</b>	<b>39.0</b>	<b>15.2</b>	<b>11.9</b>	<b>7.0</b>	<b>12.0</b>	<b>4.6</b>	<b>2.1</b>
MN . . . . .	823.0	276.5	188.2	69.9	34.7	30.1	35.7	12.9	11.3	6.8	9.8	2.9	1.7
IA . . . . .	983.4	359.2	218.4	78.1	41.4	42.5	44.4	16.2	11.2	6.8	17.6	1.9	0.8
MO . . . . .	988.9	359.3	212.7	71.1	43.6	40.5	37.7	16.0	13.3	7.3	8.6	8.5	3.6
ND . . . . .	849.2	308.5	192.7	64.6	35.8	30.4	31.5	17.2	10.6	8.7	14.7	2.4	0.4
SD . . . . .	922.7	364.0	189.9	73.2	40.4	33.7	43.2	13.3	11.5	7.3	9.7	4.5	0.7
NE . . . . .	928.3	321.4	197.6	72.3	38.5	36.4	45.7	15.5	10.4	6.4	16.1	3.4	1.7
KS . . . . .	921.5	322.8	199.6	71.3	40.2	40.4	38.1	16.4	12.3	7.1	13.5	4.0	2.2
<b>South . . . .</b>	<b>885.9</b>	<b>306.0</b>	<b>196.6</b>	<b>64.4</b>	<b>44.7</b>	<b>32.3</b>	<b>28.2</b>	<b>16.4</b>	<b>13.2</b>	<b>9.8</b>	<b>7.9</b>	<b>11.3</b>	<b>5.8</b>
<b>S.A. . . . .</b>	<b>917.4</b>	<b>316.0</b>	<b>209.1</b>	<b>65.3</b>	<b>44.5</b>	<b>34.2</b>	<b>27.9</b>	<b>16.8</b>	<b>13.4</b>	<b>11.2</b>	<b>7.5</b>	<b>11.5</b>	<b>7.2</b>
DE . . . . .	874.1	309.8	217.7	44.7	43.8	30.2	22.9	22.3	13.2	9.7	5.8	4.7	3.9
MD . . . . .	836.3	276.2	201.0	51.3	33.3	30.4	27.9	16.7	11.3	9.8	6.4	10.6	5.4
DC . . . . .	1,242.1	355.9	263.9	64.5	39.1	23.5	44.7	22.0	7.8	34.7	3.7	49.9	40.0
VA . . . . .	791.5	268.6	184.5	58.5	37.1	27.3	29.0	12.5	12.6	9.0	6.8	8.2	4.3
WV . . . . .	1,055.1	397.1	231.7	69.8	47.7	48.1	36.7	20.8	11.4	8.8	11.1	5.8	0.9
NC . . . . .	888.3	299.4	195.8	73.6	49.5	32.3	29.7	20.4	12.1	10.8	6.4	9.0	3.4
SC . . . . .	848.1	293.9	177.1	74.7	55.9	27.4	21.5	15.9	9.9	9.4	5.2	10.0	3.3
GA . . . . .	814.0	266.7	171.2	63.7	49.6	29.0	26.1	14.4	13.4	9.2	6.2	12.8	7.5
FL . . . . .	1,062.4	380.4	253.0	71.5	43.7	43.1	27.3	17.3	16.7	13.6	9.8	13.9	11.7
<b>E.S.C. . . .</b>	<b>947.3</b>	<b>333.4</b>	<b>206.0</b>	<b>73.1</b>	<b>50.9</b>	<b>35.9</b>	<b>31.6</b>	<b>18.7</b>	<b>12.5</b>	<b>8.8</b>	<b>9.0</b>	<b>9.8</b>	<b>2.1</b>
KY . . . . .	955.6	338.0	215.3	68.9	46.1	41.1	35.9	22.7	12.6	8.7	10.2	6.0	1.2
TN . . . . .	935.1	327.7	201.1	76.2	49.4	35.6	33.2	15.1	13.4	8.4	8.8	10.4	2.1
AL . . . . .	953.9	323.5	206.2	71.2	54.5	35.1	28.8	19.3	12.1	9.8	9.3	11.5	2.2
MS . . . . .	947.9	352.7	201.4	76.1	54.8	30.7	27.1	19.0	11.3	8.1	7.5	11.8	2.8
<b>W.S.C. . . .</b>	<b>801.2</b>	<b>274.6</b>	<b>171.6</b>	<b>56.5</b>	<b>41.5</b>	<b>27.2</b>	<b>26.7</b>	<b>14.4</b>	<b>13.2</b>	<b>8.2</b>	<b>7.9</b>	<b>11.9</b>	<b>5.7</b>
AR . . . . .	1,039.8	359.4	225.8	88.9	51.7	36.2	41.7	17.5	12.6	7.0	8.7	10.6	2.2
LA . . . . .	853.0	303.0	190.8	58.4	44.5	25.9	23.2	19.6	13.1	7.4	8.5	13.2	5.6
OK . . . . .	926.3	339.6	197.3	71.1	44.2	37.2	36.0	16.6	12.8	8.9	12.0	8.1	2.4
TX . . . . .	729.6	242.5	153.8	48.5	38.8	24.3	23.7	12.2	13.4	8.4	6.9	12.4	6.9
<b>West . . . . .</b>	<b>749.1</b>	<b>240.0</b>	<b>166.4</b>	<b>53.7</b>	<b>39.9</b>	<b>35.8</b>	<b>30.8</b>	<b>13.0</b>	<b>15.3</b>	<b>12.6</b>	<b>8.6</b>	<b>8.7</b>	<b>7.9</b>
<b>Mt. . . . .</b>	<b>711.9</b>	<b>218.8</b>	<b>153.7</b>	<b>44.2</b>	<b>44.3</b>	<b>38.6</b>	<b>28.2</b>	<b>14.3</b>	<b>19.0</b>	<b>10.3</b>	<b>8.4</b>	<b>6.9</b>	<b>3.5</b>
MT . . . . .	842.4	257.3	191.7	57.0	46.7	47.6	30.9	19.0	18.0	10.8	10.9	4.2	0.6
ID . . . . .	767.8	237.1	158.8	60.1	54.6	40.2	34.2	16.3	17.8	6.5	8.3	3.7	1.1
WY . . . . .	677.7	191.9	145.7	48.9	53.2	41.1	31.1	14.6	16.9	8.6	6.1	2.7	0.6
CO . . . . .	646.8	196.2	134.9	40.1	34.4	39.3	29.8	11.2	18.1	8.3	10.8	5.8	5.1
NM . . . . .	691.8	189.8	144.7	42.0	56.7	31.3	24.3	17.1	22.8	12.8	7.0	11.1	2.1
AZ . . . . .	793.5	251.5	180.0	43.9	48.6	41.9	28.6	15.6	19.5	12.9	9.1	9.3	4.3
UT . . . . .	545.8	175.3	101.1	40.8	35.0	22.1	24.3	13.1	13.6	4.8	4.4	3.2	2.0
NV . . . . .	804.0	258.3	193.3	39.5	42.7	52.8	25.0	11.7	26.0	17.1	6.4	9.9	6.1
<b>Pac. . . . .</b>	<b>762.4</b>	<b>247.5</b>	<b>171.0</b>	<b>57.1</b>	<b>38.3</b>	<b>34.8</b>	<b>31.7</b>	<b>12.6</b>	<b>13.9</b>	<b>13.4</b>	<b>8.7</b>	<b>9.4</b>	<b>9.5</b>
WA . . . . .	781.8	252.7	179.3	60.2	37.5	39.7	28.3	14.1	15.5	9.8	10.2	5.9	4.4
OR . . . . .	896.6	281.1	210.6	72.5	45.4	43.2	33.4	16.0	16.9	10.4	14.0	5.4	3.6
CA . . . . .	761.1	249.5	168.5	56.5	37.4	34.2	33.0	12.0	13.7	14.7	8.3	10.7	11.2
AK . . . . .	393.9	88.7	85.7	16.4	74.4	13.5	8.8	7.6	10.5	8.6	1.0	5.2	1.3
HI . . . . .	553.3	167.3	139.3	39.2	28.7	17.5	17.9	13.4	7.9	7.2	3.5	3.2	5.6

<sup>1</sup> Includes other causes not shown separately. <sup>2</sup> Includes allied conditions. <sup>3</sup> Human immunodeficiency virus.

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual.

### No. 120. Acquired Immunodeficiency Syndrome (AIDS) Deaths, by Selected Characteristics: 1982 to 1989

[Data are shown by year of death and are subject to retrospective changes. For data on AIDS cases reported, see table 192. Based on reporting by State health departments]

CHARACTERISTIC	NUMBER									PERCENT DISTRIBUTION	
	Total <sup>1</sup>	1982	1983	1984	1985	1986	1987	1988	1989	Total	1989
Total <sup>2</sup>	77,350	444	1,436	3,266	6,404	10,965	14,612	18,248	21,675	100.0	100.0
Age:											
Under 5 years old	976	12	28	45	92	118	213	223	235	1.2	1.1
5-12 years old	182	1	1	4	12	24	46	42	52	0.2	0.2
13-29 years old	15,044	88	312	679	1,291	2,176	2,864	3,531	4,039	19.4	18.6
30-39 years old	34,790	208	631	1,467	2,882	4,974	6,535	8,091	9,865	45.0	45.5
40-49 years old	17,001	85	323	704	1,342	2,354	3,116	4,054	4,967	22.1	22.9
50-59 years old	6,393	42	122	277	555	881	1,186	1,538	1,764	8.2	8.1
60 years old and over	2,964	8	19	90	230	438	652	769	753	3.8	3.5
Sex:											
Male	69,929	401	1,321	3,000	5,915	10,022	13,178	16,334	19,499	90.4	90.0
Female	7,421	43	115	266	489	943	1,434	1,914	2,176	9.6	10.0
Race/ethnicity:											
White, non-Hispanic	43,895	217	770	1,893	3,807	6,507	8,250	10,044	12,251	57.1	56.5
Black, non-Hispanic	22,493	153	451	895	1,705	2,904	4,283	5,564	6,438	29.0	29.7
Hispanic	10,254	73	208	454	852	1,465	1,954	2,462	2,747	12.9	12.7

<sup>1</sup> Includes deaths prior to 1982. <sup>2</sup> Includes other race/ethnicity groups not shown separately.

Source: U.S. Centers for Disease Control, Atlanta, GA, unpublished data.

### No. 121. Death Rates From Heart Disease, by Sex, Age, and Selected Type: 1970 to 1988

[Deaths per 100,000 population in specified age groups. Excludes deaths of nonresidents of the United States. Beginning 1980, deaths classified according to the ninth revision of the *International Classification of Diseases*. For earlier years, classified according to the revision in use at the time; see text, section 2. See Appendix III]

AGE AT DEATH AND SELECTED TYPE OF HEART DISEASE	MALE					FEMALE				
	1970	1980	1985	1987	1988	1970	1980	1985	1987	1988
<b>Total U.S. rate <sup>1</sup></b>	<b>422.5</b>	<b>368.6</b>	<b>342.8</b>	<b>325.0</b>	<b>321.9</b>	<b>304.5</b>	<b>305.1</b>	<b>304.3</b>	<b>300.4</b>	<b>301.2</b>
25-34 years	15.2	11.4	11.5	11.4	11.3	7.7	5.3	5.0	5.5	5.1
35-44 years	103.2	68.7	58.4	55.0	52.2	32.2	21.4	18.3	16.8	16.8
45-54 years	376.4	282.6	236.9	214.8	199.8	109.9	84.5	73.8	70.3	66.7
55-64 years	987.2	746.8	651.9	598.6	584.7	351.6	272.1	250.3	240.0	237.0
65 years old and over	3,258.0	2,778.6	2,519.3	2,355.6	2,336.1	2,268.2	2,027.5	1,938.0	1,882.6	1,881.3
65-74 years	2,170.3	1,728.0	1,508.4	1,388.6	1,358.1	1,082.7	828.6	745.3	705.3	685.6
75-84 years	4,534.8	3,834.3	3,498.0	3,267.4	3,239.1	3,120.8	2,497.0	2,245.2	2,135.7	2,122.4
85 years old and over	8,426.2	8,752.7	8,123.7	7,795.0	7,830.9	7,591.8	7,350.5	6,935.7	6,792.2	6,810.1
Persons 45-54 years old:										
Ischemic heart	338.0	217.3	169.9	147.4	134.5	84.0	52.2	43.3	39.6	36.8
Rheumatic heart	11.4	3.1	1.9	1.3	1.5	10.6	4.3	2.7	2.4	2.1
Hypertensive heart <sup>2</sup>	4.8	8.3	8.4	8.2	7.8	4.0	5.4	4.6	4.3	4.2
Persons 55-64 years old:										
Ischemic heart	904.6	581.1	474.6	421.7	401.3	299.1	189.0	163.3	151.3	147.1
Rheumatic heart	21.5	6.2	4.2	3.8	3.4	20.8	9.2	6.3	5.4	5.6
Hypertensive heart <sup>2</sup>	11.7	21.8	19.6	19.4	18.6	9.1	13.3	12.2	11.5	11.6
Persons 65-74 years old:										
Ischemic heart	2,010.0	1,355.5	1,110.8	988.6	956.9	978.0	605.3	514.1	469.9	453.1
Rheumatic heart	31.9	11.8	8.6	7.5	7.3	30.2	18.6	13.3	13.1	12.5
Hypertensive heart <sup>2</sup>	30.6	44.3	38.2	35.6	34.9	24.8	36.2	29.0	27.8	26.3
Persons 75-84 years old:										
Ischemic heart	4,222.7	2,953.7	2,544.9	2,313.9	2,277.5	2,866.3	1,842.7	1,547.5	1,434.0	1,413.1
Rheumatic heart	34.8	16.7	14.7	13.7	13.6	34.3	25.4	24.1	23.9	24.6
Hypertensive heart <sup>2</sup>	80.8	90.7	79.5	71.7	69.6	83.9	101.1	80.4	74.4	74.3
Persons 85 years old and over:										
Ischemic heart	7,781.5	6,501.6	5,658.9	5,260.9	5,236.2	6,951.5	5,280.6	4,642.8	4,402.3	4,374.2
Rheumatic heart	34.7	19.5	17.7	16.6	21.1	39.2	25.8	27.2	29.9	29.9
Hypertensive heart <sup>2</sup>	182.0	180.3	150.7	138.5	148.8	223.5	250.8	213.9	203.5	199.4

<sup>1</sup> Includes persons under 25 years old, not shown separately. <sup>2</sup> With or without renal disease.

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; and unpublished data.

## No. 122. Death Rates From Cancer, by Sex, Age, and Selected Type: 1970 to 1988

[Deaths per 100,000 population in the specified age groups. See headnote, table 121]

AGE AT DEATH AND SELECTED TYPE OF CANCER	MALE					FEMALE				
	1970	1980	1985	1987	1988	1970	1980	1985	1987	1988
<b>Total U.S. rate<sup>1</sup></b>	<b>182.1</b>	<b>205.3</b>	<b>212.6</b>	<b>214.8</b>	<b>215.5</b>	<b>144.4</b>	<b>163.6</b>	<b>175.1</b>	<b>178.0</b>	<b>180.0</b>
25-34 years	16.3	13.4	13.0	12.1	11.7	16.7	14.0	13.1	12.7	12.2
35-44 years	53.0	44.0	42.3	39.1	39.7	65.6	53.1	49.1	47.8	48.5
45-54 years	183.5	188.7	174.5	169.1	166.3	181.5	171.8	164.0	159.7	154.9
55-64 years	511.8	520.8	531.1	528.4	526.7	343.2	361.7	379.1	374.5	376.6
65 years old and over	1,221.2	1,371.6	1,389.8	1,397.1	1,398.6	708.3	767.8	813.8	829.1	840.5
65-74 years	1,006.8	1,093.2	1,085.6	1,084.0	1,072.7	557.9	607.1	644.6	652.5	659.2
75-84 years	1,588.3	1,790.5	1,840.2	1,850.2	1,861.0	891.9	903.1	948.3	967.4	982.6
85 years old and over	1,720.8	2,369.5	2,413.7	2,474.8	2,527.9	1,096.7	1,255.7	1,262.9	1,282.9	1,292.8
<b>Persons, 35-44 years old:</b>										
Respiratory, intrathoracic	17.0	12.6	10.6	9.4	9.6	6.5	6.8	5.8	6.0	5.6
Digestive organs, peritoneum	11.4	9.5	9.0	9.0	9.1	8.6	6.5	5.8	5.8	5.6
Breast	0.1	-	0.1	0.1	0.1	20.4	17.9	17.5	17.5	17.6
Genital organs	1.4	0.7	0.7	0.7	0.5	13.6	8.3	7.1	6.7	6.9
Lymphatic and hematopoietic tissues, excl. leukemia	5.6	4.3	4.6	4.1	4.4	3.2	2.4	2.3	1.9	2.4
Urinary organs	1.9	1.4	1.6	1.4	1.4	1.0	0.6	0.9	0.7	0.7
Lip, oral cavity, and pharynx	1.7	1.8	1.4	1.2	1.2	0.7	0.5	0.6	0.4	0.4
Leukemia	3.4	3.2	3.0	2.8	3.0	2.8	2.6	2.1	2.0	2.1
<b>Persons, 45-54 years old:</b>										
Respiratory, intrathoracic	72.1	79.8	70.7	68.7	65.7	22.2	34.8	35.9	35.5	35.0
Digestive organs, peritoneum	45.9	44.3	41.7	40.1	39.5	32.5	27.8	25.7	24.3	22.4
Breast	0.4	0.2	0.3	0.1	0.3	52.6	48.1	46.7	45.4	45.3
Genital organs	3.4	3.4	3.1	3.0	3.1	34.4	24.1	20.4	19.6	18.5
Lymphatic and hematopoietic tissues, excl. leukemia	12.8	10.2	10.0	10.5	10.5	8.3	6.6	6.4	6.1	6.1
Urinary organs	8.0	7.4	7.5	7.2	7.0	3.5	3.3	3.0	3.3	2.9
Lip, oral cavity, and pharynx	7.9	8.2	6.8	6.1	6.6	2.8	2.6	2.0	2.0	1.9
Leukemia	6.6	6.2	5.7	5.3	5.5	4.9	4.4	4.3	4.4	3.9
<b>Persons, 55-64 years old:</b>										
Respiratory, intrathoracic	202.3	223.8	231.1	230.9	229.5	38.9	74.5	93.9	97.6	102.2
Digestive organs, peritoneum	139.0	129.3	129.3	125.9	125.9	86.0	79.1	74.7	73.0	69.8
Breast	0.6	0.7	0.6	0.7	0.4	77.6	80.5	83.6	80.7	81.8
Genital organs	22.8	23.5	24.3	24.4	25.1	58.2	46.8	42.8	40.2	41.3
Lymphatic and hematopoietic tissues, excl. leukemia	27.1	24.4	25.0	24.8	25.6	17.7	16.8	17.5	16.7	16.5
Urinary organs	26.4	22.9	22.2	22.8	21.4	9.4	8.9	8.5	8.6	8.5
Lip, oral cavity, and pharynx	20.1	17.9	15.8	15.3	15.4	6.2	6.0	5.4	5.0	4.9
Leukemia	15.4	14.7	14.6	14.0	13.9	9.0	9.3	9.2	8.7	8.5
<b>Persons, 65-74 years old:</b>										
Respiratory, intrathoracic	340.7	422.0	424.8	430.0	425.4	45.6	106.1	145.1	157.3	164.1
Digestive organs, peritoneum	293.3	284.1	272.7	262.7	257.3	185.8	173.6	162.7	158.3	155.6
Breast	1.4	1.1	1.0	1.1	1.1	93.8	101.1	107.7	108.3	109.4
Genital organs	103.7	107.6	108.3	111.1	111.8	85.6	73.6	71.2	70.1	71.3
Lymphatic and hematopoietic tissues, excl. leukemia	50.3	48.1	52.2	53.5	52.0	34.6	34.4	36.6	37.5	38.5
Urinary organs	60.3	56.9	51.1	49.4	50.0	20.1	19.7	19.7	19.3	19.7
Lip, oral cavity, and pharynx	26.8	25.4	23.7	21.3	20.9	6.7	8.8	8.6	7.9	8.3
Leukemia	35.3	35.3	34.0	32.4	32.7	19.3	18.7	19.2	18.2	17.8
<b>Persons, 75-84 years old:</b>										
Respiratory, intrathoracic	354.2	511.5	559.0	571.5	579.8	56.5	98.0	137.2	158.4	169.9
Digestive organs, peritoneum	507.5	496.6	476.2	467.3	456.8	353.3	326.3	312.2	300.4	297.1
Breast	2.7	2.1	2.3	2.5	2.3	127.4	126.4	137.7	137.8	143.1
Genital organs	299.4	315.4	321.4	324.6	333.9	104.9	95.7	93.8	94.9	94.5
Lymphatic and hematopoietic tissues, excl. leukemia	74.0	80.0	92.8	92.7	96.7	49.4	57.8	64.2	68.6	69.4
Urinary organs	112.2	112.4	106.2	106.7	102.5	44.0	37.4	36.8	36.9	36.9
Lip, oral cavity, and pharynx	36.6	31.4	27.6	24.4	26.0	10.8	10.9	10.0	10.4	11.0
Leukemia	68.3	71.5	70.1	69.0	71.8	39.6	38.5	38.5	36.8	37.7
<b>Persons, 85 years old and over:</b>										
Respiratory, intrathoracic	215.3	386.3	450.2	489.2	492.8	56.5	96.3	102.7	117.2	125.7
Digestive organs, peritoneum	583.7	705.8	656.8	659.4	658.1	465.0	504.3	490.4	477.7	483.3
Breast	2.9	2.6	3.9	3.5	4.0	157.1	169.3	175.9	176.5	183.9
Genital organs	434.2	612.3	605.0	653.2	663.6	107.3	115.9	104.6	104.8	106.8
Lymphatic and hematopoietic tissues, excl. leukemia	58.1	93.2	113.1	113.6	126.8	41.7	63.0	72.6	81.1	78.7
Urinary organs	140.5	177.0	182.7	168.7	165.0	59.9	63.8	62.3	65.0	64.8
Lip, oral cavity, and pharynx	47.0	40.2	32.2	31.1	33.0	19.2	16.0	15.8	16.3	14.4
Leukemia	83.3	117.1	113.1	103.7	110.1	50.9	61.1	63.0	64.3	62.4

<sup>1</sup> - Represents or rounds to zero. <sup>1</sup> Includes persons under 25 years of age and malignant neoplasms of other and unspecified sites, not shown separately.

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; and unpublished data.



**No. 123. Death Rates From Accidents and Violence: 1970 to 1988**

[Rates are per 100,000 population. Excludes deaths of nonresidents of the U.S. Beginning 1980, deaths classified according to the ninth revision of the *International Classification of Diseases*. For earlier years, classified according to the revisions in use at the time; see text, section 2. See Appendix III.]

CAUSE OF DEATH AND AGE	WHITE						BLACK					
	Male			Female			Male			Female		
	1970	1980	1988	1970	1980	1988	1970	1980	1988	1970	1980	1988
<b>Total</b> <sup>1</sup>	<b>101.9</b>	<b>97.1</b>	<b>83.3</b>	<b>42.4</b>	<b>36.3</b>	<b>33.5</b>	<b>183.2</b>	<b>154.0</b>	<b>136.6</b>	<b>51.7</b>	<b>42.6</b>	<b>39.9</b>
Motor vehicle accidents	39.1	35.9	28.7	14.8	12.8	12.1	44.3	31.1	28.9	13.4	8.3	9.3
All other accidents	38.2	30.4	25.0	18.3	14.4	13.0	63.3	46.0	38.2	22.5	18.6	15.1
Suicide	18.0	19.9	21.7	7.1	5.9	5.5	8.0	10.3	11.5	2.6	2.2	2.4
Homicide	6.8	10.9	7.9	2.1	3.2	2.9	67.6	66.6	58.0	13.3	13.5	13.2
15-24 years old	130.7	138.6	113.4	34.9	37.3	33.3	234.3	162.0	175.1	45.5	35.0	35.0
25-34 years old	96.6	118.4	97.3	23.8	29.0	26.5	384.4	256.9	204.8	76.0	49.4	50.3
35-44 years old	85.7	94.1	81.5	25.8	29.2	24.6	345.2	218.1	185.0	77.2	43.2	40.7
45-54 years old	87.5	90.8	73.8	30.4	31.8	26.7	303.3	207.3	143.5	65.5	40.2	32.2
55-64 years old	101.5	92.3	80.0	36.3	33.8	30.1	242.4	188.5	129.2	56.0	47.3	35.3
65 years old and over	216.9	163.9	156.3	122.4	87.2	84.1	220.0	215.8	193.7	107.9	102.9	84.0
65-74 years old	128.0	116.7	103.4	57.7	46.4	44.4	217.4	182.2	153.8	81.5	68.7	53.6
75-84 years old	229.3	209.2	205.6	149.0	101.5	94.3	236.0	261.4	240.4	140.1	137.5	101.5
85 years old and over	468.7	438.5	449.8	391.4	268.1	237.6	271.8	379.2	388.6	214.3	235.7	204.4

<sup>1</sup> Includes persons under 15 years old, not shown separately.

**No. 124. Deaths and Death Rates from Accidents, by Type: 1970 to 1988**

[See headnote, table 123; and Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series B 163-165]

TYPE OF ACCIDENT	DEATHS (number)					RATE PER 100,000 POPULATION				
	1970	1980	1985	1987	1988	1970	1980	1985	1987	1988
<b>Accidents and adverse effects</b>	<b>114,638</b>	<b>105,718</b>	<b>93,457</b>	<b>95,020</b>	<b>97,100</b>	<b>56.4</b>	<b>46.7</b>	<b>39.1</b>	<b>39.0</b>	<b>39.5</b>
Motor-vehicle accidents	54,633	53,172	45,901	48,290	49,078	26.9	23.5	19.2	19.8	20.0
Traffic	53,493	51,930	44,822	47,297	48,024	26.3	22.9	18.8	19.4	19.5
Nontraffic	1,140	1,242	1,079	993	1,054	0.6	0.5	0.5	0.4	0.4
Water-transport accidents	1,651	1,429	1,111	949	979	0.8	0.6	0.5	0.4	0.4
Air and space transport accidents	1,612	1,494	1,428	1,263	1,012	0.8	0.7	0.6	0.5	0.4
Railway accidents	852	632	551	624	571	0.4	0.3	0.2	0.3	0.2
Accidental falls	16,926	13,294	12,001	11,733	12,096	8.3	5.9	5.0	4.8	4.9
Fall from one level to another	4,798	3,743	3,365	3,362	3,317	2.4	1.7	1.4	1.4	1.3
Fall on the same level	828	415	411	404	433	0.4	0.2	0.2	0.2	0.2
Fracture, cause unspecified, and other and unspecified falls	11,300	9,136	8,225	7,967	8,346	5.6	4.0	3.4	3.3	3.4
Accidental drowning	6,391	6,043	4,407	4,360	4,199	3.1	2.7	1.8	1.8	1.7
Accidents caused by—										
Fires and flames	6,718	5,822	4,938	4,710	4,965	3.3	2.6	2.1	1.9	2.0
Firearms	2,406	1,955	1,649	1,440	1,501	1.2	0.9	0.7	0.6	0.6
Electric current	1,140	1,095	802	760	714	0.6	0.5	0.3	0.3	0.3
Accidental poisoning by—										
Drugs and medicines	2,505	2,492	3,612	3,907	4,865	1.2	1.1	1.5	1.6	2.0
Other solid and liquid substances	1,174	597	479	508	488	0.6	0.3	0.2	0.2	0.2
Gases and vapors	1,620	1,242	1,079	900	873	0.8	0.5	0.5	0.4	0.4
Complications due to medical procedures	3,581	2,437	2,852	3,032	3,038	1.8	1.1	1.2	1.3	1.2
Inhalation and ingestion of objects	2,753	3,249	3,551	3,688	3,805	1.4	1.4	1.5	1.5	1.5
All other accidents	10,676	10,765	9,096	8,856	8,916	5.2	4.7	3.8	3.6	3.6

**No. 125. Suicides, by Sex and Method Used, 1970 to 1988**

[Excludes deaths of nonresidents of the United States. Beginning 1979, deaths classified according to the ninth revision of the *International Classification of Diseases*. For earlier years, classified according to the revision in use at the time; see text, section 2. See also *Historical Statistics, Colonial Times to 1970*, series H 979-986]

METHOD	MALE							FEMALE						
	1970	1980	1984	1985	1986	1987	1988	1970	1980	1984	1985	1986	1987	1988
Total . . . . .	16,629	20,505	22,689	23,145	24,226	24,272	24,078	6,851	6,364	6,597	6,308	6,678	6,524	6,329
Firearms <sup>1</sup>	9,704	12,937	14,504	14,809	15,518	15,539	15,656	2,068	2,459	2,609	2,554	2,635	2,597	2,513
Percent of total.	58.4	63.1	63.9	64.0	64.1	64.0	65.0	30.2	38.6	39.5	40.5	39.5	39.8	39.7
Poisoning <sup>2</sup>	3,299	2,997	3,203	3,319	3,516	3,790	3,403	3,285	2,456	2,406	2,385	2,520	2,531	2,422
Hanging and strangulation <sup>3</sup>	2,422	2,997	3,478	3,532	3,761	3,478	3,588	831	694	863	732	845	757	787
Other <sup>4</sup>	1,204	1,574	1,504	1,485	1,431	1,465	1,431	667	755	719	637	678	639	607

<sup>1</sup> Includes explosives in 1970. <sup>2</sup> Includes solids, liquids, and gases. <sup>3</sup> Includes suffocation. <sup>4</sup> Beginning 1980, includes explosives.

Source of tables 123-125: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual.

**No. 126. Suicide Rates, by Sex, Race, and Age Group: 1970 to 1988**

[See headnote, tables 118 and 123]

AGE	TOTAL <sup>1</sup>			MALE						FEMALE					
	1970	1980	1988	White			Black			White			Black		
				1970	1980	1988	1970	1980	1988	1970	1980	1988	1970	1980	1988
All ages <sup>2</sup> . . . . .	11.6	11.9	12.4	18.0	19.9	21.7	8.0	10.3	11.5	7.1	5.9	5.5	2.6	2.2	2.4
10-14 years old . . . . .	0.6	0.8	1.4	1.1	1.4	2.1	0.3	0.5	1.3	0.3	0.3	0.8	0.4	0.1	0.9
15-19 years old . . . . .	5.9	8.5	11.3	9.4	15.0	19.6	4.7	5.6	9.7	2.9	3.3	4.8	2.9	1.6	2.2
20-24 years old . . . . .	12.2	16.1	15.0	19.3	27.8	27.0	18.7	20.0	19.8	5.7	5.9	4.4	4.9	3.1	2.9
25-34 years old . . . . .	14.1	16.0	15.4	19.9	25.6	25.7	19.2	21.8	22.1	9.0	7.5	6.1	5.7	4.1	3.8
35-44 years old . . . . .	16.9	15.4	14.8	23.3	23.5	24.1	12.6	15.6	16.4	13.0	9.1	7.4	3.7	4.6	3.5
45-54 years old . . . . .	20.0	15.9	14.6	29.5	24.2	23.2	13.8	12.0	11.7	13.5	10.2	8.6	3.7	2.8	3.8
55-64 years old . . . . .	21.4	15.9	15.6	35.0	25.8	27.0	10.6	11.7	10.6	12.3	9.1	7.9	2.0	2.3	2.5
65 years and over . . . . .	20.8	17.8	21.0	41.1	37.5	45.0	8.7	11.4	14.0	8.5	6.5	7.1	2.6	1.4	1.6
65-74 years over . . . . .	20.8	16.9	18.4	38.7	32.5	35.4	8.7	11.1	12.9	9.6	7.0	7.3	2.9	1.7	2.0
75-84 years over . . . . .	21.2	19.1	25.9	45.5	45.5	61.5	8.9	10.5	17.6	7.2	5.7	7.4	1.7	1.4	1.3
85 years and over . . . . .	19.0	19.2	20.5	45.8	52.8	65.8	8.7	18.9	10.0	5.8	5.8	5.3	2.8	-	-

- Represents or rounds to zero. <sup>1</sup> Includes other races, not shown separately. <sup>2</sup> Includes other age groups, not shown separately.

**No. 127. Deaths—Life Years Lost and Mortality Costs, by Age, Sex, and Cause: 1985**

[Life years lost: Number of years person would have lived in absence of death. Mortality cost: value of lifetime earnings lost by persons who die prematurely, discounted at 6 percent. For explanation of methodology, see source. For data on injury loss, see table 187]

CHARACTER- ISTIC	Number of deaths (1,000)	Life years lost <sup>1</sup>		Mortality cost <sup>2</sup>		CHARACTER- ISTIC	Number of deaths (1,000)	Life years lost <sup>1</sup>		Mortality cost <sup>2</sup>	
		Total (1,000)	Per death	Total (mil.)	Per death			Total (1,000)	Per death	Total (mil.)	Per death
<b>Total . . . . .</b>	<b>2,085.6</b>	<b>33,253</b>	<b>15.9</b>	<b>\$183,643</b>	<b>\$88,054</b>	<b>Total . . . . .</b>	<b>2,085.6</b>	<b>33,253</b>	<b>15.9</b>	<b>\$183,643</b>	<b>\$88,054</b>
Under 5 yrs. old . . . . .	47.4	3,501	73.9	9,366	197,724	Diseases of the heart . . . . .	771.2	9,094	11.8	40,982	53,143
5-14 yrs. old . . . . .	8.9	583	65.3	2,817	315,388	Neoplasms . . . . .	461.6	7,210	15.6	40,786	88,365
15-24 yrs. old . . . . .	37.9	2,065	54.4	18,438	486,047	Cerebrovascular diseases . . . . .	153.1	1,664	10.9	6,237	40,751
25-44 yrs. old . . . . .	117.7	4,772	40.6	56,475	479,953	Injuries . . . . .	142.6	5,126	36.0	47,739	334,851
45-64 yrs. old . . . . .	403.1	8,843	21.9	73,115	181,376	Other . . . . .	557.2	10,158	18.2	47,899	85,962
65 yrs. old and over . . . . .	1,470.5	13,490	9.2	23,431	15,934	<b>Male . . . . .</b>	<b>1,097.3</b>	<b>18,044</b>	<b>16.4</b>	<b>124,134</b>	<b>113,130</b>
<b>Male . . . . .</b>	<b>1,097.3</b>	<b>18,044</b>	<b>16.4</b>	<b>124,134</b>	<b>113,130</b>	Diseases of the heart . . . . .	398.2	4,874	12.2	28,480	71,520
Under 5 yrs. old . . . . .	27.2	1,930	71.0	5,791	212,917	Neoplasms . . . . .	246.9	3,467	14.0	22,565	91,388
5-14 yrs. old . . . . .	5.5	343	62.5	1,859	338,988	Cerebrovascular diseases . . . . .	60.8	655	10.8	3,255	53,554
15-24 yrs. old . . . . .	28.2	1,483	52.7	14,454	513,238	Injuries . . . . .	102.8	3,710	36.1	38,921	378,594
25-44 yrs. old . . . . .	80.8	3,150	39.0	42,921	530,880	Other . . . . .	288.6	5,338	18.5	30,913	107,128
45-64 yrs. old . . . . .	251.0	5,067	20.2	49,108	195,626	<b>Female . . . . .</b>	<b>988.3</b>	<b>15,209</b>	<b>15.4</b>	<b>59,509</b>	<b>60,214</b>
65 yrs. old and over . . . . .	704.5	6,071	8.6	10,001	14,194	Diseases of the heart . . . . .	373.0	4,220	11.3	12,502	33,521
<b>Female . . . . .</b>	<b>988.3</b>	<b>15,209</b>	<b>15.4</b>	<b>59,509</b>	<b>60,214</b>	Neoplasms . . . . .	214.6	3,743	17.4	18,221	84,887
Under 5 yrs. old . . . . .	20.2	1,570	77.9	3,575	177,236	Cerebrovascular diseases . . . . .	92.3	1,009	10.9	2,982	32,318
5-14 yrs. old . . . . .	3.4	240	69.7	958	277,846	Injuries . . . . .	39.8	1,417	35.6	8,818	221,758
15-24 yrs. old . . . . .	9.8	582	59.5	3,984	407,692	Other . . . . .	268.7	4,820	17.9	16,986	63,227
25-44 yrs. old . . . . .	36.8	1,623	44.1	13,554	368,125						
45-64 yrs. old . . . . .	152.1	3,776	24.8	24,007	157,856						
65 yrs. old and over . . . . .	766.0	7,418	9.7	13,431	17,534						

<sup>1</sup> Based on life expectancy at year of death. <sup>2</sup> Cost estimates based on the person's age, sex, life expectancy at the time of death, labor force participation rates, annual earnings, value of homemaking services, and a 6 percent discount rate by which to convert to present worth the potential aggregate earnings lost over the years.

Source: Institute for Health and Aging, University of California, San Francisco, CA and the Injury Prevention Center, The Johns Hopkins University, Baltimore, MD, *Cost of Injury in the United States: A Report to Congress, 1989*.

**No. 128. Marriages and Divorces: 1960 to 1987**[See also *Historical Statistics, Colonial Times to 1970*, series B 214-217]

YEAR	MARRIAGES <sup>1</sup>						DIVORCES AND ANNULMENTS		
	Number (1,000)	Rate per 1,000 population					Number (1,000)	Rate per 1,000 population	
		Total	Men, 15 yrs. old and over	Women 15 yrs. old and over	Unmarried women			Total	Married women 15 yrs. old and over
					15 yrs. old and over	15-44 yrs. old			
1960	1,523	8.5	25.4	24.0	73.5	148.0	393	2.2	9.2
1965	1,800	9.3	27.9	26.0	75.0	144.3	479	2.5	10.6
1970	2,159	10.6	31.1	28.4	76.5	140.2	708	3.5	14.9
1975	2,153	10.0	27.9	25.6	66.9	118.5	1,036	4.8	20.3
1980	2,390	10.6	28.5	26.1	61.4	102.6	1,189	5.2	22.6
1981	2,422	10.6	28.4	26.1	61.7	103.1	1,213	5.3	22.6
1982	2,456	10.6	28.4	26.1	61.4	101.9	1,170	5.0	21.7
1983	2,446	10.5	28.0	25.7	59.9	99.3	1,158	4.9	21.3
1984	2,477	10.5	28.1	25.8	59.5	99.0	1,169	5.0	21.5
1985	2,413	10.1	26.9	24.8	57.0	94.9	1,190	5.0	21.7
1986	2,407	10.0	26.5	24.5	56.2	93.9	1,178	4.9	21.2
1987	2,403	9.9	26.2	24.2	55.7	92.4	1,166	4.8	20.8

<sup>1</sup> Beginning 1980, includes nonlicensed marriages registered in California.

Sources of tables 126 and 128: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; *Monthly Vital Statistics Report*; and unpublished data.

**No. 129. Percent Distribution of Marriages, by Marriage Order: 1970 to 1987**

[Beginning 1980, excludes Iowa. Excludes marriages with marriage order not stated. See headnote, table 130]

MARRIAGE ORDER	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
<b>Total</b> .....	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
First marriage of bride and groom .....	68.6	60.1	56.2	54.7	54.8	54.4	54.4	54.3	53.9	53.9
First marriage of bride, remarriage of groom .....	7.6	9.9	11.3	11.8	11.6	11.6	11.5	11.5	11.3	11.3
Remarriage of bride, first marriage of groom .....	7.3	8.6	9.8	10.1	10.3	10.5	10.7	10.9	11.2	11.3
Remarriage of bride and groom .....	16.5	21.3	22.7	23.4	23.3	23.5	23.4	23.4	23.6	23.5

**No. 130. Percent Distribution of Marriages, by Age, Sex, and Previous Marital Status: 1980 to 1987**

[Data cover marriage registration area; see text, section 2. Based on a sample and subject to sampling variability; for details, see source]

SEX AND PREVIOUS MARITAL STATUS	Total	Under 20 years old	20-24 years old	25-29 years old	30-34 years old	35-44 years old	45-64 years old	65 years old and over
<b>WOMEN</b>								
All marriages: <sup>1</sup>								
1980 .....	100.0	21.1	37.1	18.7	9.3	7.8	5.0	1.0
1985 .....	100.0	13.9	34.4	22.1	12.0	11.1	5.4	1.0
1987 .....	100.0	12.1	32.3	23.7	13.1	12.1	5.7	1.0
First marriages: <sup>2</sup>								
1980 .....	100.0	30.4	47.3	16.0	4.0	1.6	0.6	0.1
1985 .....	100.0	20.8	46.3	22.4	6.9	2.8	0.6	0.1
1987 .....	100.0	18.1	44.2	25.2	8.4	3.5	0.7	0.1
Remarriages: <sup>2,3</sup>								
1980 .....	100.0	1.7	15.3	24.4	20.6	20.8	14.3	2.9
1985 .....	100.0	0.9	11.1	21.6	21.9	27.1	14.6	2.9
1987 .....	100.0	0.7	9.8	21.0	22.2	28.5	15.0	2.8
Previously divorced: <sup>4</sup> 1985 .....	100.0	0.9	12.0	23.2	23.5	28.4	11.2	0.6
1987 .....	100.0	0.8	10.5	22.6	23.6	29.9	12.0	0.5
<b>MEN</b>								
All marriages: <sup>1</sup>								
1980 .....	100.0	8.5	35.7	23.8	12.3	10.5	7.4	1.8
1985 .....	100.0	5.3	30.1	26.2	14.4	14.0	8.2	1.9
1987 .....	100.0	4.5	27.8	26.9	15.4	15.0	8.5	1.9
First marriages: <sup>2</sup>								
1980 .....	100.0	12.7	50.0	25.7	7.5	2.9	1.1	0.1
1985 .....	100.0	8.1	43.4	31.5	11.0	4.7	1.1	0.1
1987 .....	100.0	6.9	40.2	33.2	13.0	5.5	1.1	0.1
Remarriages: <sup>2,3</sup>								
1980 .....	100.0	0.2	7.2	20.1	21.9	25.6	20.0	5.1
1985 .....	100.0	0.1	4.9	16.0	20.6	31.6	21.6	5.2
1987 .....	100.0	0.1	4.2	15.2	20.1	32.8	22.4	5.2
Previously divorced: <sup>4</sup> 1985 .....	100.0	0.1	5.3	17.4	22.3	33.7	19.6	1.6
1987 .....	100.0	0.1	4.5	16.3	21.7	35.2	20.5	1.7

<sup>1</sup> Includes marriage order not stated. <sup>2</sup> Excludes data for Iowa. <sup>3</sup> Includes remarriages of previously widowed.<sup>4</sup> Excludes remarriages in Michigan, Ohio, and South Carolina.**No. 131. Marriage Rates and Median Age of Bride and Groom, by Previous Marital Status: 1970 to 1987**[Data cover marriage registration area; see text, section 2. Beginning 1977, excludes Iowa. Figures for previously divorced and previously widowed exclude data for Michigan and Ohio for all years, for South Carolina beginning 1975, and for the District of Columbia for 1970. Based on a sample and subject to sampling variability; for details, see source. For definition of median, see Guide to Tabular Presentation. See also *Historical Statistics, Colonial Times to 1970*, series A 158-159]

YEAR	MARRIAGE RATES <sup>1</sup>						MEDIAN AGE AT MARRIAGE (years)					
	Women			Men			Women			Men		
	Single	Divorced	Wid- owed	Single	Divorced	Wid- owed	First mar- riage	Remarriage		First mar- riage	Remarriage	
								Divorced	Widowed		Divorced	Widowed
1970 .....	93.4	123.3	10.2	80.4	204.5	40.6	20.6	30.1	51.2	22.5	34.5	58.7
1975 .....	75.9	117.2	8.3	61.5	189.8	40.4	20.8	30.2	52.4	22.7	33.6	59.4
1976 .....	72.0	111.3	7.9	58.2	185.0	37.6	21.0	30.1	52.4	22.9	33.7	60.0
1977 .....	69.2	107.3	7.6	56.7	173.4	35.3	21.1	30.2	53.1	23.0	33.6	60.1
1978 .....	68.2	105.0	7.1	56.4	168.6	32.7	21.4	30.5	52.6	23.2	33.8	59.7
1979 .....	67.8	104.0	7.7	56.3	165.6	35.3	21.6	30.8	52.2	23.4	33.9	61.7
1980 .....	66.0	91.3	6.7	54.7	142.1	32.2	21.8	31.0	53.6	23.9	34.0	61.2
1981 .....	64.9	96.3	6.5	53.8	150.8	30.8	22.0	31.2	53.6	23.9	34.0	61.0
1982 .....	66.0	94.4	6.1	53.1	146.9	32.1	22.3	31.6	54.1	24.1	34.9	61.7
1983 .....	63.8	91.6	6.2	51.8	142.1	30.7	22.5	32.0	54.0	24.4	35.3	62.0
1984 .....	63.5	87.3	5.8	51.6	132.7	28.7	22.8	32.5	54.2	24.6	35.9	62.4
1985 .....	61.5	81.8	5.7	50.1	121.6	27.7	23.0	32.8	54.6	24.8	36.1	62.7
1986 .....	59.7	79.5	5.5	49.1	117.8	26.8	23.3	33.1	54.3	25.1	36.6	62.9
1987 .....	58.9	80.7	5.4	48.8	115.7	26.1	23.6	33.3	53.9	25.3	36.7	62.8

<sup>1</sup> Rate per 1,000 population 15 years old and over in specified group.Source of tables 129-131: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; *Monthly Vital Statistics Report*; and unpublished data.

**No. 132. Marriages—Age Differences of Bride and Groom, by Age: 1987**

[In percent, except as indicated. Data cover marriage-registration area; see text, section 2. Based on a sample and subject to sampling variability; for details, see source]

AGE OF BRIDE	PERCENT DISTRIBUTION				Average age difference, bride-groom (years)	AGE OF GROOM	PERCENT DISTRIBUTION				Average age difference, bride-groom (years)
	Total	Groom older than bride	Groom same age as bride	Bride older than groom			Total	Groom older than bride	Groom same age as bride	Bride older than groom	
<b>Total</b> . . . . .	<b>100.0</b>	<b>66.3</b>	<b>10.5</b>	<b>23.2</b>	<b>2.6</b>	<b>Total</b> . . . . .	<b>100.0</b>	<b>66.3</b>	<b>10.5</b>	<b>23.2</b>	<b>2.6</b>
15-19 years old . . . . .	100.0	86.9	9.7	3.4	3.5	15-19 years old . . . . .	100.0	40.3	25.7	34.0	0.3
20-24 years old . . . . .	100.0	73.4	13.6	13.0	3.0	20-24 years old . . . . .	100.0	56.9	15.8	27.3	0.4
20 years old . . . . .	100.0	79.6	11.9	8.5	3.2	20 years old . . . . .	100.0	53.6	18.5	27.9	0.1
21 years old . . . . .	100.0	77.6	12.5	9.9	3.2	21 years old . . . . .	100.0	55.3	15.9	28.7	0.2
22 years old . . . . .	100.0	74.4	13.3	12.3	3.0	22 years old . . . . .	100.0	55.8	15.7	28.5	0.4
23 years old . . . . .	100.0	69.4	15.2	15.4	2.8	23 years old . . . . .	100.0	57.8	16.0	26.2	0.6
24 years old . . . . .	100.0	67.1	14.6	18.2	2.8	24 years old . . . . .	100.0	59.9	14.2	25.9	0.7
25-29 years old . . . . .	100.0	61.9	11.5	26.6	2.7	25-29 years old . . . . .	100.0	64.8	10.1	25.1	1.4
25 years old . . . . .	100.0	65.2	13.4	21.5	2.9	25 years old . . . . .	100.0	61.3	12.5	26.2	0.9
26 years old . . . . .	100.0	63.7	11.8	24.5	2.6	26 years old . . . . .	100.0	63.8	10.6	25.6	1.2
27 years old . . . . .	100.0	60.5	11.1	28.4	2.6	27 years old . . . . .	100.0	65.7	9.5	24.7	1.4
28 years old . . . . .	100.0	60.4	10.0	29.6	2.6	28 years old . . . . .	100.0	66.7	8.3	25.0	1.6
29 years old . . . . .	100.0	57.8	10.1	32.1	2.4	29 years old . . . . .	100.0	68.2	8.6	23.2	2.1
30-34 years old . . . . .	100.0	53.9	7.7	38.4	1.8	30-34 years old . . . . .	100.0	70.9	6.5	22.5	2.8
35-39 years old . . . . .	100.0	52.0	6.2	41.9	1.3	35-39 years old . . . . .	100.0	76.2	5.1	18.6	4.6
40-44 years old . . . . .	100.0	53.7	6.1	40.1	1.5	40-44 years old . . . . .	100.0	79.5	4.8	15.8	6.0
45-49 years old . . . . .	100.0	57.2	5.6	37.2	1.9	45-49 years old . . . . .	100.0	83.0	4.2	12.8	7.3
50-54 years old . . . . .	100.0	62.0	5.5	32.5	2.4	50-54 years old . . . . .	100.0	85.9	3.4	10.8	8.6
55-64 years old . . . . .	100.0	65.4	6.6	28.0	2.8	55-64 years old . . . . .	100.0	83.6	3.9	12.5	9.4
65 years old and over . . . . .	100.0	56.5	8.3	35.3	1.1	65 years old and over . . . . .	100.0	85.2	4.4	10.4	9.7

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual and *Monthly Vital Statistics Report*, and unpublished data.

**No. 133. Divorces and Annulments—Median Duration of Marriage, Median Age at Divorce, and Children Involved: 1970 to 1987**

[Data cover divorce-registration area; see text, section 2. Based on a sample and subject to sampling variability; for details, see source. Median age computed on data by single years of age. See also *Historical Statistics, Colonial Times to 1970*, series B 218]

DURATION OF MARRIAGE, AGE AT DIVORCE, AND CHILDREN INVOLVED	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987
Median duration of marriage (years) . . . . .	6.7	6.5	6.8	6.8	7.0	7.0	7.0	6.9	6.8	6.9	7.0
Median age at divorce:											
Men (years) . . . . .	32.9	32.2	32.5	32.7	33.1	33.6	34.0	34.3	34.4	34.6	34.9
Women (years) . . . . .	29.8	29.5	30.1	30.3	30.6	31.1	31.5	31.7	31.9	32.1	32.5
Children involved in divorce (1,000) . . . . .	870	1,123	1,181	1,174	1,180	1,108	1,091	1,081	1,091	1,064	1,038
Avg. number of children per decree . . . . .	1.22	1.08	1.00	0.98	0.97	0.94	0.94	0.92	0.92	0.90	0.89
Rate per 1,000 children under 18 years of age . . . . .	12.5	16.7	18.4	17.3	18.7	17.6	17.4	17.2	17.3	16.8	16.3

**No. 134. Divorces and Annulments—Rate and Percent Distribution, by Sex and Age: 1987**

[See headnote, table 133]

AGE AT TIME OF DIVORCE DECREE	DIVORCE RATE <sup>1</sup>		PERCENT DISTRIBUTION		AGE AT TIME OF MARRIAGE	PERCENT DISTRIBUTION OF DIVORCES	
	Women	Men	Women	Men		Women	Men
<b>Total</b> . . . . .	<b>18.6</b>	<b>18.8</b>	<b>100.0</b>	<b>100.0</b>	<b>Total</b> . . . . .	<b>100.0</b>	<b>100.0</b>
Under 20 years old . . . . .	49.5	37.6	1.7	0.4	Under 20 years old . . . . .	30.4	12.8
20-24 years old . . . . .	46.0	52.2	15.0	9.0	20-24 years old . . . . .	36.5	40.5
25-29 years old . . . . .	33.9	37.6	22.6	20.2	25-29 years old . . . . .	15.4	21.3
30-34 years old . . . . .	27.2	30.4	20.3	20.8	30-34 years old . . . . .	7.9	10.6
35-39 years old . . . . .	23.1	26.0	16.1	17.3	35-39 years old . . . . .	4.5	6.3
40-44 years old . . . . .	18.7	21.4	11.0	13.0	40-44 years old . . . . .	2.4	3.5
45-49 years old . . . . .	13.1	17.1	6.2	8.1	45 years old and over . . . . .	3.0	5.0
50-54 years old . . . . .	7.5	11.0	3.2	4.8			
55-59 years old . . . . .	4.5	6.5	1.9	2.9			
60-64 years old . . . . .	2.7	4.3	1.1	1.8			
65 years old and over . . . . .	1.5	2.0	0.9	1.7			

<sup>1</sup> Rate per 1,000 married population in specified group. Figures for age not stated were distributed. Excludes data for Michigan, Ohio, and South Dakota.

Source of tables 132-134: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual and *Monthly Vital Statistics Report*, and unpublished data.

## No. 135. Marriages and Divorces—Number and Rate, by State: 1980 to 1989

[By place of occurrence]

REGION, DIVISION, AND STATE	MARRIAGES <sup>1</sup>						DIVORCES <sup>3</sup>					
	Number (1,000)			Rate per 1,000 population <sup>2</sup>			Number (1,000)			Rate per 1,000 population <sup>2</sup>		
	1980	1985	1989, prel.	1980	1985	1989, prel.	1980	1985	1989, prel.	1980	1985	1989, prel.
<b>U.S.</b> .....	2,390.3	2,412.6	<sup>4</sup> 2,404.0	10.6	10.1	<sup>4</sup> 9.7	1,189.0	<sup>5</sup> 1,190.0	<sup>5</sup> 1,163.0	5.2	<sup>5</sup> 5.0	<sup>5</sup> 4.7
<b>Northeast</b> .....	400.3	428.7	425.8	8.1	8.6	8.4	174.0	187.0	166.0	3.5	3.8	3.3
<b>New England</b> .....	106.3	114.3	117.9	8.8	9.0	9.0	49.0	49.9	42.5	4.0	3.9	3.3
Maine.....	12.0	12.2	12.4	10.7	10.5	10.2	6.2	6.1	5.7	5.5	5.2	4.7
New Hampshire.....	9.3	11.4	11.3	10.0	11.4	10.2	5.3	4.9	5.2	5.7	4.9	4.7
Vermont.....	5.2	5.5	6.0	10.2	10.4	10.6	2.6	2.4	2.5	5.1	4.4	4.4
Massachusetts.....	46.3	49.8	53.4	8.1	8.6	9.0	17.9	21.6	15.4	3.1	3.7	2.6
Rhode Island.....	7.5	8.0	8.2	7.9	8.3	8.3	3.6	3.7	3.6	3.8	3.8	3.6
Connecticut.....	26.0	27.3	26.6	8.4	8.6	8.2	13.5	11.2	10.0	4.3	3.5	3.1
<b>Middle Atlantic</b> .....	294.0	314.3	307.9	8.0	8.5	8.2	124.7	137.1	123.5	3.4	3.7	3.3
New York.....	144.5	164.0	161.8	8.2	9.2	9.0	62.0	67.6	59.5	3.5	3.8	3.3
New Jersey.....	55.8	61.2	60.2	7.6	8.1	7.8	27.8	29.3	25.6	3.8	3.9	3.3
Pennsylvania.....	93.7	89.1	85.9	7.9	7.5	7.1	34.9	40.2	38.3	2.9	3.4	3.2
<b>Midwest</b> .....	569.2	<sup>6</sup> 520.5	512.7	9.7	<sup>6</sup> 8.8	8.5	292.0	267.0	230.0	5.0	4.5	3.8
<b>E. No. Cent.</b> .....	395.5	<sup>6</sup> 362.2	355.0	9.2	<sup>6</sup> 8.7	8.4	212.4	<sup>6</sup> 192.8	154.2	5.1	<sup>6</sup> 4.6	4.2
Ohio.....	99.8	94.4	98.1	9.2	<sup>6</sup> 8.8	9.0	58.8	<sup>6</sup> 53.0	49.3	5.4	<sup>6</sup> 4.9	4.5
Indiana.....	57.9	51.1	55.1	10.5	9.3	9.9	40.0	<sup>6</sup> 35.3	(NA)	7.3	<sup>6</sup> 6.4	(NA)
Illinois.....	109.8	97.7	83.7	9.6	8.5	7.2	51.0	48.9	47.0	4.5	4.2	4.0
Michigan.....	86.9	79.0	77.6	9.4	8.7	8.4	45.0	38.8	40.3	4.9	4.3	4.3
Wisconsin.....	41.1	40.0	40.5	8.7	8.4	8.3	17.5	16.6	17.6	3.7	3.5	3.6
<b>W. No. Cent.</b> .....	173.7	158.3	157.7	10.1	9.0	8.8	79.6	74.3	75.9	4.6	4.2	4.2
Minnesota.....	37.6	35.1	34.3	9.2	8.4	7.9	15.4	14.8	15.7	3.8	3.5	3.6
Iowa.....	27.5	24.6	24.3	9.4	8.5	8.5	11.9	10.5	10.0	4.1	3.7	3.5
Missouri.....	54.6	49.5	51.1	11.1	9.8	9.9	27.6	25.0	26.3	5.6	5.0	5.1
North Dakota.....	6.1	5.4	4.8	9.3	7.9	7.3	2.1	2.3	2.2	3.3	3.4	3.4
South Dakota.....	8.8	7.8	7.1	12.7	11.0	9.9	2.8	2.6	2.6	4.1	3.6	3.7
Nebraska.....	14.2	12.7	12.7	9.1	7.9	7.9	6.4	6.4	6.4	4.1	4.0	3.9
Kansas.....	24.8	23.3	23.3	10.5	9.5	9.3	13.4	12.8	12.6	5.7	5.2	5.0
<b>South</b> .....	880.2	919.1	909.8	11.7	11.2	10.6	449.0	<sup>5</sup> 458.0	437.5	6.0	<sup>5</sup> 5.6	5.1
<b>South Atlantic</b> .....	413.1	438.8	446.8	11.2	10.9	10.4	206.3	210.5	213.4	5.6	5.2	5.0
Delaware.....	4.4	5.4	5.9	7.5	8.6	8.8	2.3	3.0	3.0	3.9	4.8	4.4
Maryland.....	46.3	46.1	47.3	11.0	10.5	10.1	17.5	16.2	15.6	4.1	3.7	3.3
Dist. of Columbia.....	5.2	5.0	4.8	8.1	8.1	7.9	4.7	2.7	2.4	7.3	4.3	4.0
Virginia.....	60.2	66.5	68.9	11.3	11.7	11.3	23.6	24.1	25.8	4.4	4.2	4.2
West Virginia.....	17.4	14.6	13.4	8.9	7.5	7.2	10.3	9.9	9.4	5.3	5.1	5.1
North Carolina.....	46.7	50.5	50.6	7.9	8.1	7.7	28.1	30.2	32.4	4.8	4.8	4.9
South Carolina.....	53.9	52.8	54.3	17.3	15.8	15.5	13.6	13.5	14.9	4.4	4.0	4.2
Georgia.....	70.6	72.3	63.1	12.9	12.1	9.8	34.7	33.4	30.0	6.4	5.6	4.7
Florida.....	108.3	125.5	138.4	11.1	10.9	10.9	71.6	77.5	80.0	7.3	6.8	6.3
<b>E. So. Cent.</b> .....	<sup>6</sup> 168.8	171.8	181.3	<sup>6</sup> 11.5	11.4	11.8	<sup>6</sup> 67.5	86.2	90.6	<sup>6</sup> 6.0	5.7	5.9
Kentucky.....	32.7	46.0	50.2	8.9	12.3	13.5	16.7	18.3	20.6	4.6	4.9	5.5
Tennessee.....	59.2	55.0	65.0	12.9	11.5	13.2	30.2	29.9	32.3	6.6	6.3	6.5
Alabama.....	49.0	46.1	41.8	12.6	11.5	10.2	26.7	25.0	24.9	6.9	6.2	6.1
Mississippi.....	27.9	24.8	24.3	11.1	9.5	9.3	13.8	<sup>6</sup> 13.0	12.8	5.5	<sup>5</sup> 5.0	4.9
<b>W. So. Cent.</b> .....	298.2	308.6	281.7	12.6	11.6	10.4	<sup>6</sup> 155.0	<sup>6</sup> 160.9	133.5	<sup>6</sup> 5.5	(NA)	5.9
Arkansas.....	26.5	31.7	34.6	11.6	13.4	14.4	<sup>6</sup> 15.9	<sup>6</sup> 16.5	16.4	<sup>6</sup> 6.9	7.0	6.8
Louisiana.....	43.5	39.4	39.0	10.3	8.8	8.9	18.1	<sup>6</sup> 17.6	(NA)	4.3	(NA)	(NA)
Oklahoma.....	46.5	35.9	33.1	15.4	10.9	10.3	24.2	26.4	23.1	8.0	8.0	7.1
Texas.....	181.8	201.6	175.0	12.8	12.3	10.3	96.8	100.4	94.0	6.8	6.1	5.5
<b>West</b> .....	540.5	544.3	566.4	12.5	11.4	10.9	274.0	278.0	260.2	6.3	5.8	5.0
<b>Mountain</b> .....	241.7	233.7	241.4	11.3	10.3	10.9	126.3	126.3	126.3	5.9	5.4	5.1
Montana.....	6.3	7.2	6.7	10.6	8.7	8.3	4.9	4.3	4.1	6.3	5.2	5.1
Idaho.....	13.4	12.3	13.1	14.2	12.2	12.9	6.6	6.2	6.0	7.0	6.2	6.0
Wyoming.....	6.9	5.4	4.6	14.6	10.6	9.7	4.0	3.8	3.0	8.5	7.5	6.4
Colorado.....	34.9	33.6	31.7	12.1	10.4	9.6	18.6	19.2	18.7	6.4	5.9	5.6
New Mexico.....	16.6	<sup>8</sup> 15.5	12.7	12.8	<sup>8</sup> 10.7	8.3	10.4	<sup>9</sup> 13.2	7.6	8.0	5.1	5.0
Arizona.....	30.2	35.7	35.7	11.1	11.2	10.1	19.9	21.2	23.2	7.3	6.6	6.5
Utah.....	17.0	17.5	18.6	11.6	10.6	10.9	7.8	8.8	8.1	5.3	5.3	4.7
Nevada.....	114.3	106.5	118.2	14.8	113.7	106.3	13.8	13.3	13.2	17.3	14.2	11.9
<b>Pacific</b> .....	298.8	310.6	325.1	9.4	8.9	8.5	187.9	188.5	178.3	5.9	5.4	4.6
Washington.....	47.7	43.8	43.7	11.6	9.9	9.2	28.6	26.3	27.3	6.9	6.0	5.7
Oregon.....	23.0	22.4	23.5	8.7	8.3	8.3	17.8	15.7	15.1	6.7	5.9	5.4
California.....	210.9	222.8	234.1	8.9	8.5	8.1	133.5	<sup>11</sup> 137.5	124.9	5.6	<sup>11</sup> 5.2	4.3
Alaska.....	5.4	6.2	5.8	13.3	11.8	11.0	3.5	4.0	3.3	8.8	7.7	6.3
Hawaii.....	11.9	15.4	18.0	12.3	14.7	16.2	4.4	4.9	5.6	4.6	4.6	5.1

NA Not available. <sup>1</sup> Data are counts of marriages performed, except as noted. <sup>2</sup> Based on total population residing in area; population enumerated as of April 1 for 1980; estimated as of July 1 for all other years. <sup>3</sup> Includes annulments. <sup>4</sup> Estimate for U.S. is based on monthly reports adjusted for observed differences from final monthly figures. State figures are not adjusted in this manner. <sup>5</sup> Estimated. <sup>6</sup> Data are incomplete. <sup>7</sup> Includes divorce petitions filed for some counties. <sup>8</sup> Premarital health forms issued. <sup>9</sup> Divorce petitions filed. <sup>10</sup> Marriage data include nonlicensed marriages registered. <sup>11</sup> Data include legal separations.

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; and *Monthly Vital Statistics Reports*.

Figure 3.1  
**Personal Health Care Expenses: 1970 to 1989**

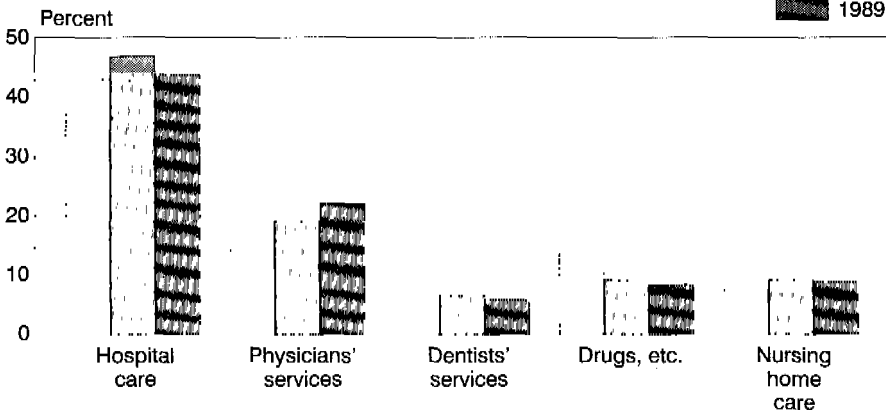
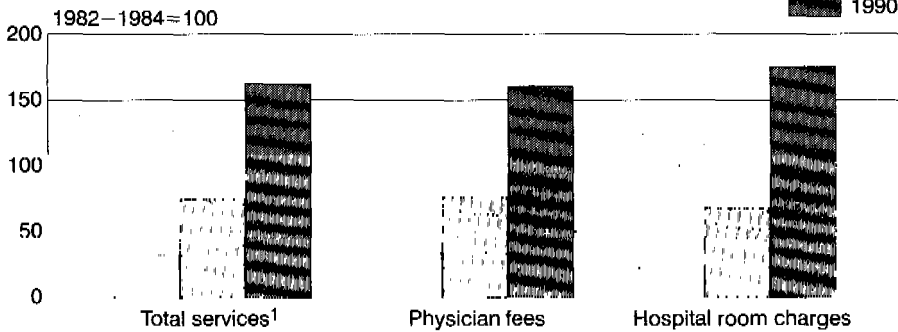
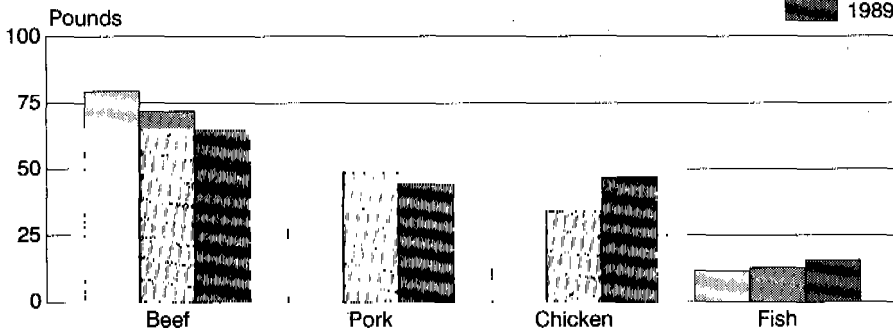


Figure 3.2  
**Consumer Price Indexes—  
 Medical Services: 1970 to 1990**



<sup>1</sup>Includes other medical care services.

Figure 3.3  
**Per Capita Meat Consumption,  
 by Selected Products: 1970 to 1989**



Source: Charts prepared by U.S. Bureau of the Census.

For figure 3.1 data, see table 136; figure 3.2 data, see table 152; figure 3.3 data, see table 207.



## Section 3

# Health and Nutrition

This section presents statistics on health expenditures and insurance coverage, including Medicare and Medicaid; medical personnel; hospitals; nursing homes and other care facilities; incidence of acute and prevalence of chronic conditions; nutritional intake of the population; and food consumption. Summary statistics showing recent trends on health care and discussions of selected health issues are published annually by the U.S. National Center for Health Statistics (NCHS) in *Health, United States*. Data on national health expenditures, medical costs, and insurance coverage are compiled by the U.S. Health Care Financing Administration (HCFA), and appear in the quarterly *Health Care Financing Review*, and in the *Annual Medicare Program Statistics* series. Statistics on health insurance are also collected by NCHS and are published in series 10 of *Vital and Health Statistics*. The Census Bureau also publishes data on insurance coverage in *Current Population Reports*, series P-70. Statistics on health facilities are collected by NCHS and are published in series 14 of *Vital and Health Statistics*. Statistics on hospitals are published annually by the American Hospital Association, Chicago, IL, in *Hospital Statistics*. Primary sources for data on nutrition are the quarterly *National Food Review* and the annual *Food Consumption, Prices, and Expenditures*, both issued by the U.S. Department of Agriculture. NCHS also conducts periodic surveys of nutrient levels in the population and clinical signs of malnutrition.

**National health expenditures.**—HCFA compiles estimates of national health expenditures (NHE) to measure spending for health care in the U.S. With the publication of the 1988 estimates, major revisions to the NHE back to 1960 have been incorporated into the accounts. The NHE accounts are structured to show spending by type of expenditure (i.e., hospital care, physician care, dental care, and other professional care, home health, drugs and other medical nondurables, vision products and other medical durables, nursing home care, and other personal health expenditures, plus nonpersonal health expenditures for such items as public health, research, construction of medical facilities, and administration), and by source of funding (e.g., private health insurance, out-of-pocket payments, and a range of public programs including Medicare, Medicaid, and those operated by the Department of Veterans Affairs (VA)).

In all cases except private insurance (HCFA conducts its own survey of part of the health insurance industry), data used to estimate health expenditures come from existing sources which are tabulated for other purposes. The type of expenditure estimates rely upon statistics produced by such groups as the American Hospital Association, the Internal Revenue Service, the Department of Commerce, and the Department of Health and Human Services (HHS). Source of funding estimates are constructed using administrative and statistical records from: the Medicare and Medicaid programs, the Department of Defense and VA medical programs, the Social Security Administration, Census Bureau's *Governmental Finances*, State and local governments, other HHS agencies, and other nongovernment sources. Detailed descriptions of sources and methods, along with the most recent analysis of health care expenditure estimates, are published in the *Health Care Financing Review's* annual article on national health expenditures.

**Medicare and Medicaid.**—Since July 1966, the Federal Medicare program has provided two coordinated plans for nearly all people age 65 and over: (1) A hospital insurance plan which covers hospital and related services and (2) a voluntary supplementary medical insurance plan, financed partially by monthly premiums paid by participants, which partly covers physicians' and related medical services. Such insurance also applies, since July 1973, to disabled beneficiaries of any age after 24 months of entitlement to cash benefits under the social security or railroad retirement programs and to persons with end stage renal disease.

Under Medicaid, all States (except Arizona) offer basic health services to certain very poor people: Individuals who are pregnant, aged, disabled or blind, and families with dependent children. Medicaid eligibility is automatic for almost all cash welfare recipients in these States. Thirty-one States also extend Medicaid to certain other persons who qualify, except for incomes above regular eligibility levels; those persons include those who have medical expenses which, when subtracted from their income, spend down to a State "medically needy" level, or those who meet the higher "medically needy" income restrictions. Within Federal guidelines, each State determines its own Medicaid eligibility criteria and the health services to be provided under Medicaid. The cost of providing Medicaid services is jointly shared by the Federal Government and the States.

**Health resources.**—Hospital statistics based on data from the American Hospital Association's yearly survey are published annually in *Hospital Statistics*, and cover all hospitals accepted for registration by the Association. To be accepted for registration, a hospital must meet certain

requirements relating to number of beds, construction, equipment, medical and nursing staff, patient care, clinical records, surgical and obstetrical facilities, diagnostic and treatment facilities, laboratory services, etc. Data obtained from NCHS cover all U.S. hospitals which meet certain criteria for inclusion. The criteria are published in *Vital and Health Statistics* reports, series 13. NCHS defines a hospital as a non-federal short-term general or special facility with six or more inpatient beds with an average stay of less than 60 days.

Statistics on the demographic characteristics of persons employed in the health occupations are compiled by the U.S. Bureau of Labor Statistics and reported in *Employment and Earnings* (monthly) (see table 652, section 13). Data based on surveys of health personnel and utilization of health facilities providing long-term care, ambulatory care, and hospital care are presented in NCHS series 13 and series 14, *Data on Health Resources Utilization and Data on Health Resources: Manpower and Facilities*. Statistics on patient visits to health care providers, as reported in health interviews, appear in NCHS series 10, *National Health Interview Survey Data*.

The HCFA's *Health Care Financing Review*, and *Health Care Financing Program Statistics* present data for hospitals and nursing homes as well as extended care facilities and home health agencies. These data are based on records of the Medicare program and differ from those of other sources because they are limited to facilities meeting Federal eligibility standards for participation in Medicare.

Data on patients in hospitals for the mentally ill and on mental health facilities are collected by the National Institute of Mental Health (NIMH) and appear in *Mental Health, U.S.*, the *Mental Health Statistics* reports, (series CN), and the Mental Health Statistical Note series.

**Disability and illness.**—General health statistics, including morbidity, disability, injuries, preventive care, and findings from physiological testing, are collected by NCHS in its National Health Interview Survey and its National Health and Nutrition Examination Surveys and appear in *Vital and Health Statistics*, series 10 and 11, respectively. The Department of Labor compiles statistics on industrial injuries (see section 13). Annual incidence data on notifiable diseases are compiled by the Public Health Service (PHS) at its Centers for Disease Control in Atlanta, Georgia, and are published as a supplement to its *Morbidity and Mortality Weekly Report*. The list of diseases is revised annually and includes those which, by mutual agreement of the States and PHS, are communicable diseases of national importance.

**Nutrition.**—Statistics on annual per capita consumption of food and its nutrient value are estimated by the U.S. Department of Agriculture and published quarterly in *National Food Review*. Historical data can be found in *Food Consumption, Prices, and Expenditures*, issued annually.

**Statistical reliability.**—For discussion of statistical collection, estimation, and sampling procedures and measures of reliability applicable to data from NCHS and HCFA, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

### No. 136. National Health Expenditures: 1970 to 1989

[Includes Puerto Rico and outlying areas]

YEAR	TOTAL <sup>1</sup>			HEALTH SERVICES AND SUPPLIES						
	Total (bil.dol.)	Per cap- ita (dol.)	Percent of GNP <sup>2</sup>	Private				Public		
				Total <sup>3</sup> (bil.dol.)	Out-of-pocket payments		Insur- ance pre- miums <sup>4</sup> (bil. dol.)	Total (bil.dol.)	Medical payments	
					Total (bil.dol.)	Percent of total private			Medi- care (bil. dol.)	Public assis- tance (bil. dol.)
1970	74.4	346	7.3	44.1	25.6	58.0	16.7	24.9	7.6	6.3
1971	82.3	379	7.5	48.2	27.1	56.2	19.1	28.2	8.5	7.7
1972	92.3	421	7.6	54.0	29.8	55.2	21.9	31.8	9.3	8.9
1973	102.5	464	7.5	59.9	32.9	54.8	24.6	35.9	10.7	10.2
1974	116.1	521	7.9	66.1	35.6	53.8	27.8	42.8	13.5	11.9
1975	132.9	592	8.3	74.5	38.5	51.8	32.9	50.2	16.4	14.5
1976	152.2	672	8.5	86.3	42.5	49.2	39.7	56.9	19.8	16.4
1977	172.0	753	8.6	98.6	46.3	46.9	47.8	64.6	22.8	18.8
1978	193.4	838	8.6	110.1	49.9	45.3	55.0	73.6	26.8	20.9
1979	216.6	930	8.6	122.5	53.5	43.7	63.2	84.1	31.1	24.0
1980	249.1	1,059	9.1	139.7	58.4	41.8	73.4	98.1	37.5	28.0
1981	288.6	1,215	9.5	161.7	65.5	40.5	86.9	114.2	45.2	32.6
1982	323.8	1,349	10.2	182.9	71.9	39.3	100.5	127.0	52.6	34.5
1983	356.1	1,469	10.5	201.6	78.8	39.1	111.4	139.5	59.9	37.9
1984	387.0	1,582	10.3	220.6	85.0	38.5	123.7	151.0	65.9	40.8
1985	420.1	1,700	10.5	239.0	91.7	38.4	134.0	165.7	72.1	44.9
1986	452.3	1,813	10.7	254.9	97.4	38.2	143.5	181.4	76.9	48.6
1987	492.5	1,955	10.9	276.2	104.7	37.9	156.3	199.0	82.9	54.4
1988	544.0	2,139	11.2	307.9	115.5	37.5	176.0	216.2	90.5	58.7
1989	604.1	2,354	11.6	342.7	124.8	36.4	199.7	240.8	102.1	66.7

<sup>1</sup> Includes medical research and medical facilities construction. <sup>2</sup> GNP—Gross national product; see table 701.

<sup>3</sup> Includes other sources of funds not shown separately. <sup>4</sup> See footnote 2, table 137.

Source: U. S. Health Care Financing Administration, *Health Care Financing Review*, Summer 1990.



**No. 137. National Health Expenditures, by Type: 1970 to 1989**

[In millions of dollars, except percent. Includes Puerto Rico and outlying areas. See also *Historical Statistics, Colonial Times to 1970*, series B 248-261]

TYPE OF EXPENDITURE	1970	1980	1983	1984	1985	1986	1987	1988	1989
<b>Total</b>	<b>74,377</b>	<b>249,054</b>	<b>356,114</b>	<b>386,995</b>	<b>420,058</b>	<b>452,294</b>	<b>492,498</b>	<b>543,994</b>	<b>604,134</b>
Average annual percent change	12.3	13.4	10.0	8.7	8.5	7.7	8.9	10.5	11.1
<b>Private expenditures</b>	<b>46,703</b>	<b>143,894</b>	<b>208,459</b>	<b>227,264</b>	<b>244,995</b>	<b>260,949</b>	<b>282,858</b>	<b>315,783</b>	<b>350,874</b>
Health services and supplies	44,148	139,664	201,633	220,584	239,006	254,907	276,203	307,945	342,693
Out-of-pocket payments	25,606	58,428	78,847	85,009	91,664	97,429	104,737	115,503	124,825
Insurance premiums <sup>2</sup>	16,743	73,407	111,440	123,686	133,988	143,476	156,294	175,962	199,709
Other	1,798	7,829	11,347	11,888	13,354	14,002	15,172	16,479	18,158
Medical research	215	274	379	493	501	714	725	744	779
Medical facilities construction	2,341	3,956	6,446	6,188	5,488	5,328	5,929	7,094	7,402
<b>Public expenditures</b>	<b>27,674</b>	<b>105,159</b>	<b>147,655</b>	<b>159,731</b>	<b>175,063</b>	<b>191,345</b>	<b>209,641</b>	<b>228,211</b>	<b>253,260</b>
Percent Federal of public	64.1	68.4	69.9	70.5	70.6	69.3	68.4	68.7	68.9
Health services and supplies	24,908	98,114	139,476	150,956	165,656	181,427	199,022	216,204	240,818
Medicare	7,633	37,533	59,874	65,911	72,052	76,862	82,906	90,536	102,108
Public assistance medical payments <sup>4</sup>	6,310	28,007	37,932	40,838	44,878	48,565	54,443	58,746	66,681
Temporary disability insurance	66	52	59	55	51	55	57	62	64
Workers' compensation (medical) <sup>5</sup>	1,409	5,177	6,738	6,974	8,036	10,346	11,934	13,205	14,478
Defense Dept. hospital, medical	1,784	4,346	6,113	6,563	7,637	8,414	9,301	9,773	10,359
Maternal, child health programs	425	892	1,125	1,103	1,262	1,434	1,607	1,694	1,818
Public health activities	1,385	7,219	9,753	10,794	12,306	13,486	14,652	16,192	17,505
Veterans' hospital, medical care	1,764	5,934	7,672	8,448	8,712	9,172	9,605	10,022	10,590
Medical vocational rehabilitation	158	298	357	385	401	425	468	500	526
State and local hospitals <sup>6</sup>	3,173	5,589	6,900	6,717	7,030	9,119	10,336	11,443	12,899
Other	803	3,067	2,954	3,169	3,282	3,552	3,713	4,031	3,790
Medical research	1,741	5,170	5,970	6,626	7,294	7,826	8,304	9,596	10,199
Medical facilities construction	1,025	1,875	2,210	2,148	2,112	2,092	2,315	2,411	2,242

<sup>1</sup> Change from prior year shown; for 1970, change from 1965. For explanation of average annual percent change, see Guide to Tabular Presentation. <sup>2</sup> Covers insurance benefits and amount retained by insurance companies for expenses, additions to reserves, and profits (net cost of insurance). <sup>3</sup> Represents expenditures for benefits and administrative cost from Federal hospital and medical insurance trust funds under old-age, survivors, disability, and health insurance programs; see text, section 12. <sup>4</sup> Payments made directly to suppliers of medical care (primarily Medicaid). <sup>5</sup> Includes medical benefits paid under public law by private insurance carriers and self-insurers. <sup>6</sup> Expenditures not offset by other revenues. <sup>7</sup> Covers expenditures for Alcohol, Drug Abuse, and Mental Health Administration; Indian Health Service; school health and other programs.

Source: U.S. Health Care Financing Administration, *Health Care Financing Review*, Winter 1990.

**No. 138. National Health Expenditures, by Object: 1970 to 1989**

[See headnote, table 137. See also *Historical Statistics, Colonial Times to 1970*, series B 221-235]

OBJECT OF EXPENDITURE	EXPENDITURE (bil.dol.)							PERCENT		
	1970	1980	1985	1986	1987	1988	1989	1970	1980	1989
Total .....	74.4	249.1	420.1	452.3	492.5	544.0	604.1	100.0	100.0	100.0
Spent by—										
Consumers .....	42.3	131.8	225.7	240.9	261.0	291.5	324.5	56.9	52.9	53.7
Government .....	27.7	105.2	175.1	191.3	209.6	228.2	253.3	37.2	42.2	41.9
Other <sup>1</sup> .....	4.4	12.1	19.3	20.0	21.8	24.3	26.3	5.9	4.8	4.4
Spent for—										
Health services and supplies .....	69.1	237.8	404.7	436.3	475.2	524.1	583.5	92.8	95.5	96.6
Personal health care expenses .....	64.9	218.3	367.2	398.2	436.7	480.0	530.7	87.3	87.7	87.8
Hospital care .....	27.9	102.4	167.9	179.4	193.8	211.7	232.8	37.6	41.1	38.5
Physicians' services .....	13.6	41.9	74.0	82.1	93.0	105.1	117.6	18.3	16.8	19.5
Dentists' services .....	4.7	14.4	23.3	24.7	27.1	29.4	31.4	6.3	5.8	5.2
Other professional services <sup>2</sup> .....	1.5	8.7	16.6	18.6	21.2	23.8	27.0	2.0	3.5	4.5
Home health care .....	0.1	1.3	3.8	4.0	4.1	4.5	5.4	0.2	0.5	0.9
Drugs/other medical nondurables .....	8.8	20.1	32.3	35.6	38.7	41.5	44.6	11.8	8.1	7.4
Vision products/other med. durables <sup>3</sup> .....	2.0	5.0	8.4	9.5	10.7	12.0	13.5	2.7	2.0	2.2
Nursing home care .....	4.9	20.0	34.1	36.7	39.8	42.8	47.9	6.5	8.0	7.9
Other health services .....	1.4	4.6	6.8	7.6	8.3	9.3	10.5	1.8	1.8	1.7
Net cost of insurance and admin. <sup>4</sup> .....	2.8	12.2	25.2	24.7	23.9	27.9	35.3	3.7	4.9	5.8
Government public health activities .....	1.4	7.2	12.3	13.5	14.7	16.2	17.5	1.9	2.9	2.9
Medical research .....	2.0	5.4	7.8	8.5	9.0	10.3	11.0	2.6	2.2	1.8
Medical facilities construction .....	3.4	5.8	7.6	7.4	8.2	9.5	9.6	4.5	2.3	1.6

<sup>1</sup> Includes nonpatient revenues, privately funded construction, and industrial plant. <sup>2</sup> Includes services of registered and practical nurses in private duty, visiting nurses, podiatrists, physical therapists, clinical psychologists, chiropractors, naturopaths, and Christian Science practitioners. <sup>3</sup> Includes expenditures for eyeglasses, hearing aids, orthopedic appliances, artificial limbs, crutches, wheelchairs, etc. <sup>4</sup> Includes administrative expenses of federally financed health programs.

Source: U.S. Health Care Financing Administration, *Health Care Financing Review*, Winter 1990.

### No. 139. Health Services and Supplies—Per Capita National and Private Consumer Expenditures, by Object: 1970 to 1989

[In dollars, except percent. Based on Social Security Administration estimates of total U.S. population as of July 1, including Armed Forces and Federal employees abroad and civilian population of outlying areas. Excludes research and construction. See also *Historical Statistics, Colonial Times to 1970*, series B 222-232]

OBJECT OF EXPENDITURE	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
<b>Total, national</b> . . . . .	<b>321</b>	<b>555</b>	<b>1,011</b>	<b>1,407</b>	<b>1,518</b>	<b>1,638</b>	<b>1,749</b>	<b>1,887</b>	<b>2,061</b>	<b>2,274</b>
Average annual percent change <sup>1</sup> . . . . .	11.4	11.5	12.7	9.0	7.9	7.9	6.8	7.9	9.3	10.3
Hospital care . . . . .	130	233	435	607	642	680	719	769	833	907
Physicians' services . . . . .	63	104	178	250	274	299	329	369	413	458
Dentists' services . . . . .	22	37	61	82	87	94	99	108	116	122
Other professional services <sup>2</sup> . . . . .	7	16	37	55	61	67	75	84	93	105
Home health care . . . . .	1	2	6	12	14	16	16	16	18	21
Drugs and other medical nondurables . . . . .	41	58	86	113	122	131	143	154	163	174
Vision products and other medical durables <sup>2</sup> . . . . .	9	14	21	26	29	34	38	42	47	53
Nursing home care . . . . .	23	44	65	119	127	138	147	158	168	187
Other health services . . . . .	6	12	19	25	26	28	30	33	37	41
Net cost of insurance and administration <sup>2</sup> . . . . .	13	23	52	78	90	102	99	95	110	138
Government public health activities . . . . .	6	14	31	40	44	50	54	58	64	68
<b>Total, private consumer <sup>3</sup></b> . . . . .	<b>197</b>	<b>318</b>	<b>560</b>	<b>785</b>	<b>853</b>	<b>913</b>	<b>966</b>	<b>1,036</b>	<b>1,146</b>	<b>1,265</b>
Hospital care . . . . .	56	100	182	254	266	276	291	311	344	377
Physicians' services . . . . .	49	75	124	170	188	202	219	245	276	306
Dentists' services . . . . .	21	35	58	79	85	92	97	105	113	119
Other professional services <sup>2</sup> . . . . .	5	10	26	39	43	46	51	57	65	73
Home health care . . . . .	-	-	1	2	3	3	3	3	3	4
Drugs and other medical nondurables . . . . .	39	54	79	104	111	118	128	137	145	153
Vision products and other medical durables <sup>2</sup> . . . . .	9	13	19	21	24	28	31	34	38	43
Nursing home care . . . . .	11	19	38	57	62	68	74	78	83	85
Net cost of insurance . . . . .	7	14	35	58	71	81	73	67	79	105

- Represents or rounds to zero. <sup>1</sup> Change from prior period shown; for 1970, change from 1965. For explanation of average annual percent change, see Guide to Tabular Presentation. <sup>2</sup> See footnotes for corresponding objects in table 138. <sup>3</sup> Represents out-of-pocket payments and private health insurance.

Source: U.S. Health Care Financing Administration, *Health Care Financing Review*, Winter 1990.

### No. 140. Personal Health Care—Third Party Payments and Private Consumer Expenditures: 1970 to 1989

[In billions of dollars, except percent. See headnote, table 141]

ITEM	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
<b>Personal health care expenditures</b> . . . . .	<b>64.9</b>	<b>116.6</b>	<b>218.3</b>	<b>312.4</b>	<b>338.6</b>	<b>367.2</b>	<b>398.2</b>	<b>436.7</b>	<b>480.0</b>	<b>530.7</b>
<b>Third party payments, total</b> . . . . .	<b>39.3</b>	<b>78.0</b>	<b>159.9</b>	<b>233.6</b>	<b>253.6</b>	<b>275.5</b>	<b>300.7</b>	<b>331.9</b>	<b>384.5</b>	<b>405.9</b>
Percent of personal health care . . . . .	60.5	66.9	73.2	74.8	74.9	75.0	75.5	76.0	75.9	76.5
Private insurance payments . . . . .	15.2	29.9	65.3	97.4	108.3	114.0	125.2	139.4	155.9	172.9
Government expenditures . . . . .	22.4	45.3	87.1	125.3	135.9	148.7	162.0	177.8	192.7	215.4
Other <sup>1</sup> . . . . .	1.7	2.9	7.6	11.0	11.4	12.9	13.5	14.7	16.0	17.6
<b>Private consumer expenditures <sup>2</sup></b> . . . . .	<b>40.8</b>	<b>68.4</b>	<b>123.7</b>	<b>176.2</b>	<b>191.3</b>	<b>205.6</b>	<b>222.7</b>	<b>244.2</b>	<b>271.4</b>	<b>297.7</b>
Percent met by private insurance . . . . .	37.2	43.7	52.8	55.3	55.6	55.4	56.2	57.1	57.4	58.1
Hospital care . . . . .	12.1	22.4	42.8	61.5	65.0	68.2	72.5	78.2	87.5	96.9
Percent met by private insurance . . . . .	79.2	80.4	87.5	87.6	87.5	87.1	88.1	88.8	87.1	86.9
Physicians' services . . . . .	10.6	16.8	29.2	41.2	46.0	49.8	54.7	61.7	70.2	78.4
Percent met by private insurance . . . . .	45.1	54.5	61.5	64.6	66.0	67.7	70.1	71.1	71.4	71.5

<sup>1</sup> Includes nonpatient revenues and industrial implant health services. <sup>2</sup> Includes expenditures not shown separately. Represents out-of-pocket payments and private health insurance benefits. Excludes net cost of insurance.

Source: U.S. Health Care Financing Administration, *Health Care Financing Review*, Winter 1990.

### No. 141. Personal Health Care Expenditures, by Object and Source of Payment: 1989

[In millions of dollars, except as indicated. Includes Puerto Rico and outlying areas. Covers all expenditures for health services and supplies, except net cost of insurance and administration, government public health activities, and expenditures of philanthropic agencies for fund raising activities]

SOURCE	Total	Hospital care	Physicians' services	Dentists' services	Other professional services <sup>1</sup>	Home health care	Drugs and other medical nondurables	Vision products and other medical durables <sup>1</sup>	Nursing home care	Other personal health care
<b>Total</b> . . . . .	<b>530,691</b>	<b>232,752</b>	<b>117,648</b>	<b>31,398</b>	<b>27,025</b>	<b>5,376</b>	<b>44,607</b>	<b>13,497</b>	<b>47,915</b>	<b>10,473</b>
Out of pocket payments . . . . .	124,825	12,685	22,378	17,234	8,511	611	32,343	9,808	21,255	-
Third party payments . . . . .	405,866	220,067	95,270	14,164	18,514	4,764	12,265	3,689	26,660	10,473
Private health insurance . . . . .	172,878	84,169	56,051	13,416	10,200	367	6,980	1,175	520	-
Government . . . . .	215,357	124,494	39,175	748	5,446	4,061	5,284	2,514	25,213	8,422
Other <sup>2</sup> . . . . .	17,631	11,404	44	-	2,868	336	-	-	927	2,051
<b>Private <sup>3</sup></b> . . . . .	<b>315,334</b>	<b>108,259</b>	<b>78,474</b>	<b>30,650</b>	<b>21,579</b>	<b>1,314</b>	<b>38,323</b>	<b>10,983</b>	<b>22,702</b>	<b>2,051</b>

- Represents or rounds to zero. <sup>1</sup> See footnotes for corresponding objects on table 138. <sup>2</sup> Includes nonpatient revenues and industrial implant. <sup>3</sup> Covers out-of-pocket payments, private health insurance, nonpatient revenues and industrial implant.

Source: U.S. Health Care Financing Administration, *Health Care Financing Review*, Summer 1990.

**No. 142. Government Expenditures for Health Services and Supplies: 1980 and 1989**

[In millions of dollars, except percent. Includes Puerto Rico and outlying areas. Excludes medical research and construction]

YEAR AND TYPE OF SERVICE	TOTAL <sup>1</sup>		FEDERAL		State and local	Medi-care <sup>2</sup> (OASDHI)	Public assistance <sup>3</sup>	OTHER HEALTH SERVICES		
	Amount	Percent distribution	Total	Percent of total				Vet-erans	Defense Dept. <sup>4</sup>	Workers' compensation <sup>5</sup>
<b>1980, total <sup>1</sup></b>	<b>98,114</b>	<b>100.0</b>	<b>66,762</b>	<b>68.0</b>	<b>31,352</b>	<b>37,533</b>	<b>28,007</b>	<b>5,934</b>	<b>4,346</b>	<b>5,177</b>
Hospital care	54,599	55.6	41,344	75.7	13,255	26,373	10,933	4,918	3,737	2,007
Physicians' services	12,626	12.9	9,668	76.6	2,959	7,948	2,424	59	261	1,667
Nursing home care	10,525	10.7	6,139	58.3	4,386	411	9,752	361	-	-
Drugs and other medical nondurables	1,661	1.7	819	49.3	842	-	1,536	13	13	78
Administration	3,839	3.9	2,063	53.7	1,776	1,118	1,318	49	37	1,225
Public health activities	7,219	7.4	1,246	17.3	5,973	-	-	-	-	-
<b>1989, total <sup>1</sup></b>	<b>240,818</b>	<b>100.0</b>	<b>164,764</b>	<b>68.4</b>	<b>76,054</b>	<b>102,108</b>	<b>66,681</b>	<b>10,590</b>	<b>10,359</b>	<b>14,478</b>
Hospital care	124,494	51.7	92,853	74.6	31,640	62,071	25,444	8,265	8,349	6,214
Physicians' services	39,175	16.3	31,784	81.1	7,391	27,480	4,770	126	1,168	5,173
Nursing home care	25,213	10.5	16,185	64.2	9,028	3,594	20,692	926	-	-
Drugs and other medical nondurables	5,284	2.2	2,496	47.2	2,788	-	4,931	9	67	243
Administration	7,957	3.3	4,332	54.4	3,624	2,281	3,109	43	125	2,230
Public health activities	17,505	7.3	2,077	11.9	15,428	-	-	-	-	-

- Represents zero. <sup>1</sup> Includes other items not shown separately. <sup>2</sup> Covers hospital and medical insurance payments and administrative costs under old-age, survivors, disability and health insurance program. <sup>3</sup> Covers Medicaid and other medical public assistance. Includes funds paid into Medicare trust fund by States to cover premiums for public assistance recipients and medically indigent persons. <sup>4</sup> Includes care for retirees and military dependents. <sup>5</sup> Medical benefits.

Source: U.S. Health Care Financing Administration, *Health Care Financing Review*, Winter 1990.**No. 143. Expenditures for Health Services and Supplies, by Type of Payer: 1970 to 1989**

[In billions of dollars]

TYPE OF PAYER	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989
Total expenditures	69.1	124.7	237.8	310.0	341.1	371.5	404.7	436.3	475.2	524.1	583.5
Private	50.1	86.2	161.5	212.7	233.0	256.6	280.2	304.4	329.5	365.1	405.1
Business	15.1	30.3	67.6	90.3	98.3	108.8	117.1	128.0	137.8	154.4	173.4
Share of private health insurance premiums	11.2	22.4	51.1	68.0	74.6	82.2	87.5	93.0	99.7	113.2	128.8
Households <sup>1</sup>	33.8	53.4	87.0	112.9	124.6	137.4	151.2	164.0	178.3	196.1	215.6
Share of private health insurance premiums	4.6	7.4	13.9	20.2	22.8	26.0	30.3	33.7	37.9	40.6	45.6
Out-of-pocket spending	25.6	38.5	58.4	71.9	78.8	85.0	91.7	97.4	104.7	115.5	124.8
Non-patient revenues <sup>2</sup>	1.5	2.5	7.0	9.5	10.2	10.6	11.9	12.4	13.5	14.6	16.1
Public	18.9	38.5	76.3	97.3	108.1	114.9	124.5	131.9	145.7	159.0	178.4
Federal government	10.4	21.3	42.6	53.1	60.2	63.4	69.0	70.0	76.7	84.2	95.5
State/local government	8.5	17.2	33.7	44.2	47.9	51.5	55.5	61.9	69.0	74.9	82.9

<sup>1</sup> Includes other items not shown separately. <sup>2</sup> Includes philanthropy.Source: U.S. Health Care Financing Administration, *Health Care Financing Review*, Winter 1990.**No. 144. Benefit Expenditures of Private Health Insurance Organizations: 1970 to 1987**

[In millions of dollars. For financial data on private health insurance organizations, see table 856]

TYPE OF PLAN	1970	1980	1982	1983	1984	1985	1986	1987			
								Total	Hospital care	Physicians services	Dental care and other
<b>Total</b>	<b>15,320</b>	<b>67,504</b>	<b>89,929</b>	<b>97,980</b>	<b>105,280</b>	<b>111,994</b>	<b>124,822</b>	<b>139,090</b>	<b>73,589</b>	<b>43,392</b>	<b>22,109</b>
Blue Cross-Blue Shield	7,060	25,467	32,144	34,398	35,522	37,290	41,258	44,525	27,913	11,874	4,738
Insurance companies	7,104	25,774	36,424	40,109	41,547	42,880	45,810	51,549	26,892	16,675	7,982
Independent plans	1,156	16,264	21,360	23,483	28,211	32,024	37,554	43,016	18,783	14,843	9,390

Source: U.S. Health Care Financing Administration, *Health Care Financing Review*, Winter 1988, and unpublished data.

**No. 145. Medicare Program—Enrollment and Payments: 1970 to 1989**

[Enrollment as of July 1; payments for calendar year. Benefit payments represent trust fund outlays. Includes Puerto Rico, outlying areas, and enrollees in foreign countries. See text, section 3, for explanation of coverage]

TYPE OF INSURANCE	Unit	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>HOSPITAL AND/OR MEDICAL INSURANCE</b>												
Enrollment, total	1,000	20,491	24,959	28,478	29,494	30,026	30,455	31,083	31,750	32,411	32,980	33,579
Benefit payments	Mil. dol	7,099	15,588	35,699	51,086	57,443	62,918	70,527	75,997	80,316	86,487	98,305
<b>HOSPITAL INSURANCE</b>												
Enrollment, total	1,000	20,361	24,640	28,067	29,069	29,587	29,996	30,589	31,216	31,853	32,413	33,040
Persons 65 and over	1,000	20,361	22,472	25,104	26,115	26,670	27,112	27,683	28,257	28,822	29,312	29,869
Disabled persons	1,000	(X)	2,168	2,963	2,954	2,918	2,884	2,907	2,959	3,031	3,101	3,171
Benefit payments	Mil. dol	5,124	11,315	25,064	35,631	39,337	43,257	47,580	49,758	49,496	52,517	60,011
<b>MEDICAL INSURANCE</b>												
Enrollment, total	1,000	19,584	23,904	27,400	28,412	28,975	29,415	29,989	30,590	31,170	31,617	32,099
Persons 65 and over	1,000	19,584	21,945	24,680	25,707	26,292	26,784	27,311	27,863	28,382	28,780	29,216
Disabled persons	1,000	(X)	1,959	2,719	2,705	2,682	2,651	2,678	2,727	2,788	2,837	2,883
Benefit payments	Mil. dol	1,975	4,273	10,635	15,455	18,106	19,661	22,947	26,239	30,820	33,970	38,294

X Not applicable. <sup>1</sup> Age under 65; includes persons enrolled because of end-stage renal disease (ESRD) only.

Source: U.S. Health Care Financing Administration. Published in U.S. Social Security Administration, *Annual Statistical Supplement to the Social Security Bulletin*.

**No. 146. Medicare—Persons Served and Reimbursements: 1980 to 1988**

[Persons served are enrollees who use covered services, incurred expenses greater than the applicable deductible amounts and for whom Medicare paid benefits. Reimbursements are amounts paid to providers for covered services. Excluded are retroactive adjustments resulting from end of fiscal year cost settlements and certain lump-sum interim payments. Also excluded are beneficiary (or third party payor) liabilities for applicable deductibles, coinsurance amounts, and charges for non-covered services. Includes data for enrollees living in outlying territories and foreign countries]

TYPE OF COVERAGE AND SERVICE	Unit	PERSONS 65 YEARS OLD AND OVER				DISABLED PERSONS <sup>1</sup>			
		1980	1985	1987	1988	1980	1985	1987	1988
<b>Persons served, total <sup>2</sup></b>	<b>1,000</b>	<b>16,271</b>	<b>20,347</b>	<b>22,155</b>	<b>22,942</b>	<b>1,760</b>	<b>1,944</b>	<b>2,108</b>	<b>2,182</b>
Hospital insurance <sup>2</sup>	1,000	6,024	6,058	6,048	6,082	728	662	665	649
Inpatient hospital	1,000	5,951	5,714	5,752	5,779	721	636	642	625
Skilled-nursing services	1,000	248	304	283	371	9	10	10	13
Home health services	1,000	675	1,448	1,447	1,485	51	101	97	97
Supplementary medical insurance <sup>2</sup>	1,000	16,099	20,186	22,020	22,808	1,723	1,916	2,085	2,156
Physicians' and other medical services	1,000	15,627	19,590	21,496	22,270	1,631	1,820	1,986	2,041
Outpatient services	1,000	6,629	9,889	11,939	12,795	909	1,096	1,288	1,357
Home health services <sup>3</sup>	1,000	302	27	31	32	25	-	-	-
<b>Persons served per 1,000 enrollees, total <sup>2</sup></b>	<b>Rate</b>	<b>638</b>	<b>722</b>	<b>754</b>	<b>768</b>	<b>594</b>	<b>669</b>	<b>696</b>	<b>704</b>
Hospital insurance <sup>2</sup>	Rate	240	219	210	208	246	228	219	209
Inpatient hospital	Rate	237	206	200	197	243	219	212	202
Skilled-nursing services	Rate	10	11	10	13	3	4	3	4
Home health services	Rate	27	52	50	51	17	35	32	31
Supplementary medical insurance <sup>2</sup>	Rate	652	739	776	793	634	716	748	760
Physicians' and other medical services	Rate	633	717	757	774	600	680	712	720
Outpatient services	Rate	269	362	421	445	334	409	462	478
Home health services <sup>3</sup>	Rate	12	1	1	1	9	-	-	-
<b>Reimbursements, total</b>	<b>Mil. dol.</b>	<b>29,134</b>	<b>55,199</b>	<b>67,022</b>	<b>72,900</b>	<b>4,478</b>	<b>7,495</b>	<b>8,420</b>	<b>8,980</b>
Hospital insurance	Mil. dol.	20,353	37,360	41,744	45,703	2,765	4,785	5,060	5,436
Inpatient hospital	Mil. dol.	19,583	35,313	39,578	43,112	2,714	4,638	4,908	5,264
Skilled-nursing services	Mil. dol.	331	484	524	811	13	17	21	33
Home health services	Mil. dol.	440	1,583	1,643	1,781	38	130	131	140
Supplementary medical insurance	Mil. dol.	8,781	18,839	25,278	27,196	1,713	2,709	3,360	3,544
Physicians' and other medical services	Mil. dol.	7,361	15,309	20,143	21,311	997	1,712	2,099	2,162
Outpatient services	Mil. dol.	1,261	3,499	5,087	5,843	701	997	1,261	1,383
Home health services <sup>3</sup>	Mil. dol.	159	31	36	43	16	-	-	-
<b>Reimbursements, per person served, total</b>	<b>Dollars.</b>	<b>1,791</b>	<b>2,762</b>	<b>3,025</b>	<b>3,178</b>	<b>2,544</b>	<b>3,855</b>	<b>3,994</b>	<b>4,115</b>
Hospital insurance	Dollars.	3,379	6,167	6,903	7,515	3,798	7,224	7,610	8,373
Inpatient hospital	Dollars.	3,281	6,181	6,881	7,461	3,765	7,295	7,651	8,418
Skilled-nursing services	Dollars.	1,336	1,525	1,853	2,184	1,571	1,681	2,154	2,529
Home health services	Dollars.	652	1,093	1,135	1,199	733	1,288	1,353	1,449
Supplementary medical insurance	Dollars.	545	933	1,148	1,192	994	1,414	1,611	1,644
Physicians' and other medical services	Dollars.	471	781	937	957	611	941	1,057	1,059
Outpatient services	Dollars.	190	354	427	457	771	909	978	1,019
Home health services <sup>3</sup>	Dollars.	526	1,122	1,233	1,359	619	1,598	1,552	1,623

- Represents or rounds to zero. <sup>1</sup> Age under 65; includes persons enrolled because of end-stage renal disease (ESRD) only. <sup>2</sup> Persons are counted once for each type of covered service used, but are not double counted in totals. <sup>3</sup> Beginning 1982, a change in legislation resulted in virtually all home health services being paid under hospital insurance.

Source: U.S. Health Care Financing Administration, *Medicare Program Statistics*, annual; and unpublished data.

### No. 147. Medicare—Hospital Utilization and Hospital and Physician Charges: 1970 to 1989

[Data reflect date expense was incurred based on bills submitted for payment and recorded in Health Care Financing Administration central records through May, 1990. Includes Puerto Rico, Virgin Islands, Guam, other outlying areas and enrollees in foreign countries]

ITEM	Unit	PERSONS 65 YEARS OLD AND OVER					DISABLED PERSONS <sup>1</sup>				
		1970	1980	1985	1988, prel.	1989, prel.	1975	1980	1985	1988, prel.	1989, prel.
Hospital inpatient care:											
Admissions	1,000	6,141	9,258	9,751	9,574	7,876	822	1,271	1,319	1,159	1,056
Per 1,000 enrollees <sup>2</sup>	Rate	302	369	352	327	264	379	429	454	374	333
Covered days of care	Millions	79	98	80	81	79	9	13	11	11	11
Per 1,000 enrollees <sup>2</sup>	Rate	3,902	3,885	2,882	2,769	2,635	4,198	4,549	3,739	3,468	3,526
Per admission	Days	12.9	10.5	8.2	8.5	10.0	11.1	10.6	8.2	9.3	10.6
Hospital covered charges	Mil. dol.	5,968	28,615	49,236	70,292	78,840	1,371	4,087	6,582	9,080	10,337
Per covered day	Dollars	75	293	617	866	1,002	151	303	606	844	925
Percent of covered charges reimbursed <sup>3</sup>	Percent	78.0	70.0	65.6	51.8	50.7	73.6	68.6	64.4	49.2	50.4
Physician allowed charges	Mil. dol.	2,310	9,011	17,743	23,987	26,274	367	1,112	1,823	2,230	2,477
Percent reimbursed	Percent	71.9	78.0	78.8	78.4	78.4	76.1	78.7	78.8	78.1	78.0

<sup>1</sup> Disabled persons under age 65 and persons enrolled solely because of end-stage renal disease. <sup>2</sup> Based on Hospital Insurance (HI) enrollment as of July 1. <sup>3</sup> Billing reimbursements exclude: (1) PPS pass-through amounts for capital, direct medical education, kidney acquisitions, and bad debts by Medicare patients; (2) certain lump-sum interim payments; and (4) retroactive adjustments resulting from end-of-fiscal year cost reports.

Source: U.S. Health Care Financing Administration, unpublished data.

### No. 148. Medicare and Medicaid—Summary, by State and Other Areas: 1980 and 1989

[1989 data are preliminary estimates]

REGION, DIVISION, AND STATE	MEDICARE		MEDICAID <sup>3</sup>		REGION, DIVISION, AND STATE	MEDICARE		MEDICAID <sup>3</sup>	
	Enroll- ment, <sup>1</sup> 1989 (1,000)	Payments <sup>2</sup> (mil. dol.)	Recip- ients, <sup>4</sup> 1989 (1,000)	Payments <sup>2</sup> (mil. dol.)		Enroll- ment, <sup>1</sup> 1989 (1,000)	Payments <sup>2</sup> (mil. dol.)	Recip- ients, <sup>4</sup> 1989 (1,000)	Payments <sup>2</sup> (mil. dol.)
	1980	1989	1980	1989		1980	1989	1980	1989
<b>Total</b>	<b>33,579</b>	<b>35,699</b>	<b>98,305</b>	<b>23,511</b>	<b>23,311</b>	<b>54,500</b>			
<b>U.S.</b>	<b>32,886</b>	<b>35,561</b>	<b>97,808</b>	<b>22,197</b>	<b>23,213</b>	<b>54,354</b>			
<b>NE</b>	<b>7,362</b>	<b>9,071</b>	<b>24,157</b>	<b>5,012</b>	<b>8,138</b>	<b>19,050</b>			
<b>N. Eng.</b>	<b>1,865</b>	<b>2,238</b>	<b>5,381</b>	<b>1,125</b>	<b>1,781</b>	<b>4,481</b>			
ME	180	177	469	123	131	371			
NH	134	120	311	36	72	183			
VT	73	68	173	53	59	133			
MA	858	1,179	2,697	582	1,009	2,393			
RI	157	189	359	103	160	374			
CT	462	505	1,373	228	350	1,027			
<b>Mid. Atl.</b>	<b>5,496</b>	<b>6,833</b>	<b>18,775</b>	<b>3,887</b>	<b>6,357</b>	<b>14,569</b>			
NY	2,492	3,409	8,629	2,253	4,543	10,191			
NJ	1,078	1,198	3,458	533	756	1,920			
PA	1,926	2,226	6,688	1,101	1,058	2,458			
<b>Midwest</b>	<b>8,298</b>	<b>9,507</b>	<b>23,596</b>	<b>5,339</b>	<b>5,637</b>	<b>12,364</b>			
<b>E.N.C.</b>	<b>5,695</b>	<b>6,720</b>	<b>17,288</b>	<b>4,008</b>	<b>4,114</b>	<b>8,999</b>			
OH	1,517	1,606	4,679	1,134	809	2,666			
IN	749	719	1,967	312	354	1,157			
IL	1,516	2,046	4,725	1,043	1,192	2,103			
MI	1,209	1,620	4,105	1,117	1,072	1,954			
WI	704	729	1,812	402	687	1,119			
<b>W.N.C.</b>	<b>2,603</b>	<b>2,787</b>	<b>6,308</b>	<b>1,331</b>	<b>1,523</b>	<b>3,365</b>			
MN	579	594	1,098	323	590	1,105			
IA	452	453	1,090	224	230	522			
MO	771	888	2,206	406	295	781			
ND	98	109	258	47	47	178			
SD	109	96	245	45	55	143			
NE	235	234	506	109	109	256			
KS	359	413	907	177	197	380			
<b>South</b>	<b>11,253</b>	<b>10,412</b>	<b>32,409</b>	<b>7,171</b>	<b>5,558</b>	<b>14,448</b>			
<b>So. Atl.</b>	<b>5,985</b>	<b>5,555</b>	<b>17,398</b>	<b>3,264</b>	<b>2,512</b>	<b>7,295</b>			
DE	86	87	245	38	45	110			
MD	528	622	1,954	321	322	936			
DC	78	149	396	98	168	244			
VA	703	614	1,961	345	360	822			
WV	304	260	753	240	104	324			
<b>NC</b>	<b>867</b>	<b>642</b>	<b>2,066</b>	<b>487</b>	<b>401</b>	<b>1,165</b>			
<b>SC</b>	<b>430</b>	<b>302</b>	<b>896</b>	<b>277</b>	<b>258</b>	<b>556</b>			
<b>GA</b>	<b>715</b>	<b>601</b>	<b>2,072</b>	<b>582</b>	<b>462</b>	<b>1,226</b>			
<b>FL</b>	<b>2,274</b>	<b>2,278</b>	<b>7,055</b>	<b>876</b>	<b>392</b>	<b>1,912</b>			
<b>E.S.C.</b>	<b>2,138</b>	<b>1,878</b>	<b>5,698</b>	<b>1,701</b>	<b>1,150</b>	<b>2,765</b>			
KY	526	437	1,458	431	296	810			
TN	678	594	1,935	543	380	972			
AL	573	523	1,333	321	263	509			
MS	361	324	972	406	211	474			
<b>W.S.C.</b>	<b>3,131</b>	<b>2,979</b>	<b>9,312</b>	<b>2,206</b>	<b>1,896</b>	<b>4,388</b>			
AR	386	333	993	242	235	491			
LA	522	467	1,753	526	415	1,036			
OK	444	443	1,240	253	285	635			
TX	1,778	1,736	5,327	1,185	981	2,226			
<b>West.</b>	<b>5,947</b>	<b>6,529</b>	<b>17,642</b>	<b>4,673</b>	<b>3,878</b>	<b>8,489</b>			
<b>Mt.</b>	<b>1,578</b>	<b>1,304</b>	<b>4,092</b>	<b>578</b>	<b>505</b>	<b>1,337</b>			
MT	115	99	284	61	82	155			
ID	129	97	301	47	52	134			
WY	50	44	135	31	14	55			
CO	346	315	822	191	182	452			
NM	173	137	414	113	70	235			
AZ	480	383	1,378	(X)	(X)	(X)			
UT	154	110	379	94	80	201			
NV	131	119	380	41	45	105			
<b>Pac.</b>	<b>4,370</b>	<b>5,225</b>	<b>13,550</b>	<b>4,095</b>	<b>3,373</b>	<b>7,152</b>			
WA	600	507	1,557	427	329	962			
OR	413	385	850	213	179	409			
CA	3,211	4,219	10,825	3,326	2,728	5,498			
AK	23	18	74	36	28	124			
HI	122	96	244	93	109	159			
PR	421	124	458	1,301	97	142			
Outlying areas	8	4	17	<sup>6</sup> 13	<sup>6</sup> 2	<sup>6</sup> 4			
Foreign	264	9	30	(X)	(X)	(X)			

X Not applicable. <sup>1</sup> Hospital and/or medical insurance enrollment as of July 1. <sup>2</sup> Payments are for calendar year and represent disbursements from Federal hospital and supplementary medical insurance trust funds. Estimates of distribution by State based on interim data. <sup>3</sup> For fiscal year ending Sept. 30. <sup>4</sup> Persons receiving Medicaid at any time during the year. <sup>5</sup> Includes data for enrollees with residence unknown. <sup>6</sup> Virgin Islands only.

Source: U.S. Health Care Financing Administration, *Medical Program Statistics, Selected State Data, 1978-1982*, May 1984 and unpublished data.

**No. 149. Medicaid—Selected Utilization Measures by Type of Facility: 1975 to 1988**

[In thousands. For fiscal years ending in year shown. Includes Virgin Islands. See text, section 3. Excludes Arizona which has no Title XIX (Medicaid) program]

MEASURE	1975	1980	1982	1983	1984	1985	1986	1987	1988
<b>General hospitals:</b>									
Total discharges . . . . .	3,031	3,203	2,915	3,379	3,414	3,616	3,713	3,558	3,905
Recipients discharged . . . . .	2,336	2,255	2,218	7,410	2,263	2,390	2,564	2,525	2,640
Total days of care . . . . .	22,941	24,089	21,552	23,094	23,185	29,562	29,517	23,124	24,022
<b>Skilled nursing facility:</b>									
Total recipients . . . . .	630	606	559	574	559	547	571	537	579
Total days of care . . . . .	78,111	102,832	92,013	100,847	100,265	72,119	116,044	112,466	119,806
<b>Intermediate care facilities:</b> <sup>1</sup>									
Total recipients . . . . .	69	121	149	151	141	147	145	140	145
Total days of care . . . . .	9,060	250,124	35,664	39,844	46,310	47,324	48,418	45,611	46,825
<b>Intermediate care facilities:</b> <sup>2</sup>									
Total recipients . . . . .	582	789	765	793	796	828	828	834	866
Total days of care . . . . .	121,604	170,665	172,041	194,065	202,158	205,877	217,972	216,292	224,887

<sup>1</sup> Mentally retarded. <sup>2</sup> General.

Source: U.S. Health Care Financing Administration, unpublished data.

**No. 150. Medicaid—Selected Characteristics of Persons Covered: 1980 to 1989**

[In thousands, except percent. Represents number of persons as of March of following year who were enrolled at any time in year shown. Person did not have to receive medical care paid for by Medicaid in order to be counted. See headnote, table 585]

POVERTY STATUS	1980	1985	1987	1989							
				Total <sup>1</sup>	White	Black	His-panic <sup>2</sup>	Under 17 years old	18-44 years old	45-64 years old	65 years and over
Persons covered, total . . . . .	18,966	19,204	19,526	21,185	12,779	7,123	3,221	10,099	6,347	2,161	2,576
Below poverty level . . . . .	11,113	12,652	13,233	13,325	7,262	5,291	2,136	7,128	3,953	1,184	1,060
Above poverty level . . . . .	7,854	6,552	6,293	7,860	5,517	1,832	1,085	2,971	2,394	977	1,516
Percent of total population . . . . .	8.4	8.1	8.1	8.6	6.2	23.4	15.5	15.7	6.0	4.6	8.7
Below poverty level . . . . .	39.1	39.7	42.2	42.3	34.9	56.9	39.3	56.6	33.9	30.2	31.5
Above poverty level . . . . .	4.0	3.2	3.0	3.7	3.0	8.7	7.1	5.7	2.5	2.3	5.8

<sup>1</sup> Includes other races not shown separately. <sup>2</sup> Persons of Hispanic origin may be of any race.

Source: U.S. Bureau of the Census, *Current Population Reports*, series No. 155, earlier reports and unpublished data.

**No. 151. Medical Assistance (Medicaid)—Recipients and Payments, by Basis of Eligibility and Type of Service: 1980 to 1988**

[For fiscal year ending in year shown; see text, section 3. Includes Puerto Rico and outlying areas. Excludes Arizona, which has no Title XIX (Medicaid) program. Medical vendor payments are those made directly to suppliers of medical care]

BASIS OF ELIGIBILITY AND TYPE OF SERVICE	RECIPIENTS (1,000)					PAYMENTS (mil. dol.)				
	1980	1985	1987	1988	1989	1980	1985	1987	1988	1989
<b>Total<sup>1</sup> . . . . .</b>	<b>21,605</b>	<b>21,814</b>	<b>23,109</b>	<b>22,907</b>	<b>23,511</b>	<b>23,311</b>	<b>37,508</b>	<b>45,050</b>	<b>48,710</b>	<b>54,500</b>
Age 65 and over . . . . .	3,440	3,061	3,224	3,159	3,132	8,739	14,096	16,037	17,135	18,558
Blindness <sup>2</sup> . . . . .	92	80	85	86	95	124	249	309	344	409
Disabled <sup>3</sup> . . . . .	2,819	2,937	3,296	3,401	3,498	7,497	13,203	16,507	18,250	20,476
AFDC <sup>4</sup> program . . . . .	14,210	15,275	15,767	15,541	16,036	6,354	9,160	11,100	11,731	13,788
Other and unknown . . . . .	1,499	1,214	1,418	1,343	1,175	596	798	1,097	1,250	1,268
<b>Inpatient services in—</b>										
General hospital . . . . .	3,680	3,434	3,767	3,832	4,170	6,412	9,453	11,302	12,076	13,378
Mental hospital . . . . .	66	60	57	60	90	775	1,192	1,409	1,375	1,470
<b>Intermediate care facilities:</b>										
Mentally retarded . . . . .	121	147	149	145	148	1,989	4,731	5,591	6,022	6,649
Other . . . . .	789	828	849	866	888	4,202	6,516	7,280	7,923	8,871
Skilled nursing facility . . . . .	609	547	572	579	564	3,685	5,071	5,967	6,354	6,660
Physicians . . . . .	13,765	14,387	15,373	15,265	15,686	1,875	2,346	2,775	2,953	3,408
Dental . . . . .	4,652	4,672	5,131	5,072	4,216	462	458	541	577	498
Other practitioner . . . . .	3,234	3,357	3,542	3,480	3,555	198	251	263	284	317
Outpatient hospital . . . . .	9,705	10,072	10,978	10,533	11,344	1,101	1,789	2,226	2,413	2,837
Clinic . . . . .	1,531	2,121	2,183	2,256	2,391	320	714	963	1,105	1,249
Laboratory . . . . .	3,212	6,354	7,596	7,579	7,759	121	337	475	543	590
Home health . . . . .	392	535	609	569	609	332	1,120	1,690	2,015	2,572
Prescribed drugs . . . . .	13,707	13,921	15,083	15,323	15,918	1,318	2,315	2,988	3,294	3,689
Family planning . . . . .	1,129	1,636	1,652	1,525	1,564	81	195	228	206	227

<sup>1</sup> Recipient data do not add due to small number of recipients that are reported in more than one category. Includes recipients of aid and payments for other care not shown separately. <sup>2</sup> Permanently and totally. <sup>3</sup> Aid to families with dependent children. <sup>4</sup> Includes radiological services.

Source: U.S. Health Care Financing Administration, *Health Care Financing Review*, quarterly.

## No. 152. Indexes of Medical Care Prices: 1970 to 1990

[1982-1984 = 100. Indexes are components of consumer price index; for explanation, see text, section 15. See *Historical Statistics, Colonial Times to 1970*, series B 262-272 for similar data]

YEAR	Index, total	MEDICAL CARE SERVICES					Medical care commodities <sup>2</sup>	ANNUAL PERCENT CHANGE					
		Total <sup>1</sup>	Professional services			Hospital room		Total <sup>1</sup>	Medical care services				Medical care commodities <sup>2</sup>
			Total <sup>1</sup>	Physicians	Dental				Total <sup>1</sup>	Physicians	Dental	Hospital room	
1970	34.0	32.3	37.0	34.5	39.2	23.6	46.5	<sup>3</sup> 6.6	<sup>3</sup> 7.0	<sup>3</sup> 7.5	<sup>3</sup> 5.7	<sup>3</sup> 12.9	<sup>3</sup> 2.4
1975	47.5	46.6	50.8	48.1	53.2	38.3	53.3	12.0	12.6	12.1	10.4	17.1	8.3
1977	57.0	56.4	60.0	58.5	60.8	48.6	60.2	9.6	9.9	9.3	7.6	11.5	6.5
1978	61.8	61.2	64.5	63.4	65.1	54.0	64.4	8.4	8.5	8.4	7.1	11.1	7.0
1979	67.5	67.2	70.1	69.2	70.5	60.1	69.0	9.2	9.8	9.1	8.3	11.3	0.1
1980	74.9	74.8	77.9	76.5	78.9	68.0	75.4	11.0	11.3	10.5	11.9	13.1	9.3
1981	82.9	82.8	85.9	84.9	86.5	78.1	83.7	10.7	10.7	11.0	9.6	14.9	11.0
1982	92.5	92.6	93.2	92.9	93.1	90.4	92.3	11.6	11.8	9.4	7.6	15.7	10.3
1983	100.6	100.7	99.8	100.1	99.4	100.6	100.2	8.8	8.7	7.8	6.8	11.3	8.6
1984	106.8	106.7	107.0	107.0	107.5	109.0	107.5	6.2	6.0	6.9	8.1	8.3	7.3
1985	113.5	113.2	113.5	113.3	114.2	115.4	115.2	6.3	6.1	5.9	6.2	5.9	7.2
1986	122.0	121.9	120.8	121.5	120.6	122.3	122.8	7.5	7.7	7.2	5.6	6.0	6.6
1987	130.1	130.0	128.8	130.4	128.8	131.1	131.0	6.6	6.6	7.3	6.8	7.2	6.7
1988	138.6	138.3	137.5	139.8	137.5	143.3	139.9	6.5	6.4	7.2	6.8	9.3	6.8
1989	149.3	148.9	146.4	150.1	146.1	158.1	150.8	7.7	7.7	7.4	6.3	10.3	7.8
1990	162.8	162.7	156.1	160.8	155.8	175.4	163.4	9.0	9.3	7.1	6.6	10.9	8.4

<sup>1</sup> Includes other services, not shown separately. <sup>2</sup> Prior to 1978, covers drugs and prescriptions only. <sup>3</sup> Change from 1969.

Source: U.S. Bureau of Labor Statistics, *CPI Detailed Report*, January 1991, and unpublished data.

## No. 153. Average Annual Expenditures of Consumer Units for Health Care 1984 to 1988, and by Selected Characteristics, 1988

[In dollars, except percent. See text, section 14, and headnote, table 719. For composition of regions, see fig. 1, inside front cover]

ITEM	HEALTH CARE, TOTAL		Health insurance	Medical services	Drugs and medical supplies <sup>1</sup>	PERCENT DISTRIBUTION			
	Amount	Percent of total expenditures				Health care, total	Health insurance	Medical services	Drugs and medical supplies
1984	1,049	4.8	370	454	225	100.0	35.3	43.3	21.4
1985	1,108	4.7	375	496	238	100.0	33.8	44.8	21.5
1986	1,135	4.8	371	502	261	100.0	32.7	44.2	23.0
1987	1,135	4.6	392	467	276	100.0	34.5	41.1	24.3
1988	1,298	5.0	474	529	294	100.0	36.5	40.8	22.7
<b>Age of reference person:</b>									
Under 25 years old	523	3.2	143	286	93	100.0	27.3	54.7	17.8
25-34 years old	777	3.0	279	337	161	100.0	35.9	43.4	20.7
35-44 years old	1,253	3.8	405	604	244	100.0	32.3	48.2	19.5
45-54 years old	1,258	3.8	411	535	312	100.0	32.7	42.5	24.8
55-64 years old	1,518	5.9	550	564	405	100.0	36.2	37.2	26.7
65-74 years old	2,005	10.0	872	645	487	100.0	43.5	32.2	24.3
75 years old and over	2,230	16.7	895	853	482	100.0	40.1	38.3	21.6
<b>Region of residence:</b>									
Northeast	1,238	4.7	394	587	256	100.0	31.8	47.4	20.7
Midwest	1,257	5.1	474	492	292	100.0	37.7	39.1	23.2
South	1,372	5.6	529	500	342	100.0	38.6	36.4	24.9
West	1,289	4.5	469	564	256	100.0	36.4	43.8	19.9
<b>Size of consumer unit:</b>									
One person	834	5.3	324	333	176	100.0	38.8	39.9	21.1
Two persons	1,607	6.1	636	551	421	100.0	39.6	34.3	26.2
Three persons	1,478	4.9	533	606	339	100.0	36.1	41	22.9
Four persons	1,409	4.6	462	652	295	100.0	32.8	46.3	20.9
Five persons or more	1,425	4.1	471	670	285	100.0	33.1	47.0	20.0
	1,287	3.9	432	602	252	100.0	33.6	46.8	19.6
<b>Income before taxes:</b>									
Complete income reporters <sup>2</sup>	1,282	4.9	473	513	296	100.0	38.9	40.0	23.1
<b>Quintiles of income:</b>									
Lowest 20 percent	831	7.6	346	271	214	100.0	41.6	32.6	25.8
Second 20 percent	1,320	7.8	469	552	299	100.0	35.5	41.8	22.7
Third 20 percent	1,286	5.5	512	480	294	100.0	39.8	37.3	22.9
Fourth 20 percent	1,425	4.4	524	564	336	100.0	36.8	39.6	23.6
Highest 20 percent	1,550	3.2	516	697	337	100.0	33.3	45.0	21.7
Incomplete reporters of income	1,397	6.0	481	629	286	100.0	34.4	45.0	20.5

<sup>1</sup> Includes prescription and non-prescription drugs. <sup>2</sup> A complete reporter is a consumer unit providing values for at least one of the major sources of income.

Source: Bureau of Labor Statistics, *Consumer Expenditure Survey*, annual.

**No. 154. Health Insurance Coverage Status, by Selected Characteristics: 1985 to 1988**

[Data represents monthly averages for first quarter. Government health insurance includes Medicare, Medicaid, and military plans. Based on Survey of Income and Program Participation; see text, section 14]

CHARACTERISTIC	NUMBER (mil.)						PERCENT				
	Total	Covered by private or Government health insurance				Not covered by health insurance	Total	Covered by private or Government health insurance			Not covered by health insurance
		Total <sup>1</sup>	Private insurance		Covered by Medicaid			Total <sup>1</sup>	Private	Covered by Medicaid	
			Total	Related to employment <sup>2</sup>							
1985 <sup>3</sup>	234.0	199.4	174.6	141.3	16.1	34.6	100.0	85.2	74.6	6.9	14.8
1986	236.7	202.6	177.5	144.1	16.7	34.2	100.0	85.6	75.0	7.1	14.4
1987	238.9	206.0	180.6	146.3	18.0	32.9	100.0	86.2	75.6	7.5	13.8
1988, total <sup>4</sup>	241.4	210.6	186.6	150.4	17.7	30.8	100.0	87.2	77.3	7.4	12.8
Male	117.3	101.2	90.9	74.8	7.1	16.1	100.0	86.3	77.5	6.1	13.7
Female	124.1	109.4	95.7	75.6	10.6	14.7	100.0	88.2	77.1	8.6	11.8
White	204.2	180.7	164.8	132.3	10.8	23.5	100.0	88.5	80.7	5.3	11.5
Black	29.5	23.7	16.7	13.9	6.1	5.8	100.0	80.3	56.7	20.6	19.7
Hispanic origin <sup>5</sup>	19.4	14.3	10.8	8.9	3.0	5.1	100.0	73.8	55.7	15.3	26.2
Under 16 years	56.2	47.6	39.4	34.2	7.6	8.5	100.0	84.8	70.1	13.5	15.2
16-24 years	33.5	26.6	24.3	18.5	2.2	6.9	100.0	79.5	72.7	6.5	20.5
25-34 years	43.1	38.6	33.6	30.1	2.4	6.5	100.0	84.9	78.1	5.5	15.1
35-44 years	34.9	30.6	28.6	25.6	1.5	4.2	100.0	87.9	82.0	4.3	12.1
45-54 years	23.5	21.2	19.9	17.6	0.9	2.4	100.0	90.0	84.5	3.9	10.0
55-64 years	21.8	19.6	18.3	14.6	0.8	2.2	100.0	90.0	84.1	3.7	10.0
65 years and over	28.4	28.3	22.4	9.9	2.4	0.1	100.0	99.6	78.8	8.4	0.4

<sup>1</sup> Includes other Government insurance, not shown separately. <sup>2</sup> Related to current or prior employment of self or other family members. <sup>3</sup> Revised since originally published. <sup>4</sup> Includes other races, not shown separately. <sup>5</sup> Persons of Hispanic origin may be of any race.

Source: U.S. Bureau of the Census, unpublished data.

**No.155. Health Insurance Coverage, by Selected Characteristic: 1985 to 1987**

[Data represent persons covered by Government or private health insurance coverage during a 28 month period, from February 1985 through May 1987. For composition of regions, see fig.1, inside front cover]

CHARACTERISTIC	All persons (mil.)	COVERED BY INSURANCE (mil.)						PERCENT COVERED BY INSURANCE			
		Government or private			Private			Government or private			Private for entire period
		For entire period	For part of the period	No coverage	For entire period	For part of the period	No coverage	For entire period	For part of the period	No coverage	
Total	226.5	162.8	53.8	9.8	138.9	61.3	26.3	71.9	23.8	4.3	61.3
Under 18 years old	63.0	41.3	18.5	3.2	36.0	17.6	9.4	65.5	29.5	5.1	57.1
Under 6 years old	21.8	14.2	6.6	1.0	11.8	6.3	3.7	65.0	30.4	4.6	54.2
18 to 24 years old	26.6	12.8	12.2	1.6	11.4	12.3	2.9	48.1	45.9	6.0	43.0
25 to 44 years old	69.9	50.5	16.2	3.2	47.3	16.3	6.3	72.3	23.2	4.5	67.7
45 to 64 years old	43.2	34.6	6.7	1.8	31.0	8.1	4.2	80.1	15.5	4.3	71.7
65 years old and over	23.8	23.6	0.1	(Z)	13.1	7.1	3.6	99.3	0.6	0.1	55.3
Male	109.0	76.5	27.0	5.5	67.0	29.6	12.4	70.2	24.8	5.0	61.5
Female	117.5	86.4	26.8	4.3	71.9	31.6	14.0	73.5	22.8	3.7	61.2
White	192.2	141.5	42.9	7.8	124.2	49.7	18.4	73.6	22.3	4.0	64.6
Black	27.0	16.8	8.6	1.6	10.9	9.2	6.9	62.3	31.7	5.9	40.5
Hispanic <sup>1</sup>	15.7	7.5	6.4	1.8	5.5	6.1	4.1	48.0	40.6	11.3	34.9
Residence:											
Northeast	45.9	35.8	9.2	0.9	30.0	11.0	4.9	77.9	20.2	1.9	65.2
Midwest	61.0	46.2	12.6	2.2	41.4	14.0	5.5	75.8	20.7	3.6	68.0
South	76.4	51.5	20.4	4.5	42.7	23.4	10.4	67.4	26.6	5.9	55.8
West	43.2	29.3	11.6	2.2	24.8	12.9	5.5	67.9	26.9	5.2	57.5
Educational attainment: <sup>2</sup>											
Less than 12 years	38.8	27.6	8.5	2.6	16.9	12.8	9.2	71.2	21.9	6.8	43.5
12 to 15 years	92.8	67.9	21.5	3.4	61.3	24.8	6.8	73.2	23.0	3.7	66.0
16 years or more	28.4	24.3	3.7	0.4	23.3	4.6	0.6	85.6	12.9	1.5	81.8
Work-status: <sup>3</sup>											
Worked entire 28 months—											
Full-time	51.7	44.4	6.2	1.1	44.0	6.5	1.2	86.0	12.1	2.0	85.1
Part-time	4.9	3.6	0.9	0.3	3.4	0.9	0.5	74.6	18.7	6.8	70.5
Had at least one work interruption	62.9	34.8	24.2	3.9	32.1	24.4	6.4	55.3	38.4	6.2	51.0

Z Less than 50,000. <sup>1</sup> Persons of Hispanic origin may be of any race. <sup>2</sup> For persons 19 years old and over. <sup>3</sup> For wage and salary workers.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-70, No. 17.



**No. 156. Persons With Health Insurance Protection, by Type of Insurer: 1960 to 1988**

[In millions; for end of year. Beginning 1975, includes Puerto Rico and outlying areas]

YEAR	Total insured <sup>1</sup>	INSURANCE COMPANIES			Blue Cross/ Blue Shield	Other <sup>2</sup>
		Total <sup>1</sup>	Group	Individual/ family		
1960	122.5	69.2	54.4	22.2	58.1	6.0
1965	138.7	77.6	65.4	24.4	63.3	7.0
1970	158.8	89.7	80.5	26.7	75.1	8.1
1971	161.8	91.5	80.6	27.8	76.5	8.5
1972	164.1	93.7	81.5	29.1	78.2	8.1
1973	168.5	94.5	83.6	27.5	81.3	9.6
1974	173.1	97.0	85.4	28.8	83.8	11.1
1975	178.2	99.5	87.2	30.1	86.4	13.1
1976	176.9	97.0	86.8	27.0	86.6	14.9
1977	179.9	100.4	89.2	28.7	88.0	18.1
1978	185.7	106.0	92.6	36.1	85.8	21.5
1979	185.7	104.1	94.1	34.4	86.1	25.5
1980	187.4	105.5	97.4	33.8	86.7	33.2
1981	186.2	105.9	103.0	25.3	85.8	40.3
1982	188.3	109.6	103.9	29.4	82.0	48.2
1983	186.6	105.9	104.6	22.2	79.6	53.6
1984	184.4	103.1	103.0	20.4	79.4	54.4
1985	181.3	100.4	99.5	21.2	78.7	55.1
1986	180.9	<sup>3</sup> 92.5	<sup>3</sup> 95.2	<sup>3</sup> 11.7	78.0	64.9
1987	179.7	<sup>3</sup> 91.0	<sup>3</sup> 94.7	<sup>3</sup> 10.0	76.9	66.9
1988	182.3	<sup>3</sup> 93.3	<sup>3</sup> 96.8	<sup>3</sup> 10.7	74.0	71.3

<sup>1</sup> Excludes duplication of persons protected by more than one kind of insuring organization. <sup>2</sup> Includes self-insured plans, self-administered plans, plans employing third-party administrators, and Health Maintenance Organizations. <sup>3</sup> Not comparable with previous years; excludes hospital indemnity coverage.

Source: Health Insurance Association of America, Washington, DC, *Source Book of Health Insurance Data*, annual.**No. 157. Health Maintenance Organizations (HMO)—Number and Enrollment, by Type and Size of Organization: 1976 to 1990**

(As of June 30, except as noted. Under the Health Maintenance Organization Act, an HMO must have four characteristics: (1) an organized system for providing health care in a geographic area, for which the HMO is responsible for providing or otherwise assuring its delivery; (2) an agreed upon set of basic and supplemental health maintenance and treatment services; (3) a voluntarily enrolled group of people; and (4) community rating. A group HMO contracts with one or more medical groups to provide services to members and generally provides all services except hospital care under one roof. Data for group model HMO's include staff model HMO's (a model in which the HMO hires its own physicians) and network HMO's (an HMO that provides comprehensive health services to members in two or more distinct geographic areas. Individual practice association (IPA) HMO contracts with a physician organization that in turn contracts with individual physicians. IPA physicians provide care to HMO members from their private offices and continue to see their fee-for-service patients. An open-ended product line allows enrollees to receive services from health care providers outside the HMO network for additional out-of-pocket fee (typically a deductible and coinsurance are imposed).)

TYPE OF PRACTICE AND SIZE	1976	1980	1983	1984 (Dec.31)	1985	1986	1987	1988	1989 (Jan.1)	1990 (Jan.1)
NUMBER OF PLANS										
Total	175	236	280	337	393	595	662	643	607	<sup>1</sup> 575
Group	134	139	181	195	212	250	245	231	220	213
I.P.A.	41	97	99	142	181	345	417	412	387	362
Less than 15,000 members	128	144	137	143	171	315	325	271	229	194
15,000-24,999 members	15	36	42	45	56	63	86	98	102	99
25,000-49,999 members	12	28	61	78	79	107	100	114	112	122
50,000-99,999 members	7	15	19	40	51	67	89	86	89	75
100,000 members or more	10	13	21	31	36	47	62	74	74	82
ENROLLMENT (1,000)										
Total	6,016	9,100	12,491	16,743	18,894	23,664	28,587	<sup>2</sup> 31,366	<sup>2</sup> 31,940	<sup>2</sup> 33,092
Group	5,627	7,406	10,602	13,075	14,247	15,210	17,261	17,883	18,371	19,322
I.P.A.	390	1,694	1,889	3,667	4,646	8,454	11,326	13,483	13,569	13,770
Less than 15,000 members	620	870	874	975	1,020	1,514	1,797	1,794	1,581	1,404
15,000-24,999 members	297	732	842	867	1,101	1,220	1,681	1,933	2,044	1,918
25,000-49,999 members	365	907	2,062	2,699	2,813	3,791	3,564	4,011	3,927	4,249
50,000-99,999 members	525	978	1,257	2,577	3,315	4,828	6,343	6,041	6,274	5,292
100,000 members or more	4,210	5,615	7,455	9,625	10,646	12,311	15,202	17,587	18,104	20,229
HMO'S WITH OPEN-ENDED PRODUCT LINE										
Number of plans	(X)	(X)	(X)	(X)	(X)	(X)	(X)	48	70	84
Enrollment (1,000)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	482	617	858

X Not applicable. <sup>1</sup> Includes three HMO's containing only open-ended members, not distributed by enrollment size. <sup>2</sup> Excludes enrollees participating in open-ended plans.

Source: Interstudy, Excelsior, MN, *The Interstudy Edge*, 1990, vol. 2, and earlier publications (copyright) and Group Health Association of America, Inc., Washington, DC, releases.

## No. 158. Physicians, Dentists, and Nurses: 1970 to 1988

[Physicians, dentists, and nurses as of end of year, except as noted. Data for physicians include Puerto Rico and outlying areas. See also *Historical Statistics, Colonial Times to 1970*, series B 275-290]

ITEM	Unit	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988
<b>Physicians, number</b> <sup>1</sup>	1,000	348	409	487	523	542	(NA)	577	595	612	(NA)
Rate per 100,000 population <sup>2</sup>	Rate	168	187	211	222	228	(NA)	237	246	252	(NA)
Doctors of medicine <sup>3</sup>	1,000	334	394	468	502	520	(NA)	553	569	586	(NA)
Active non-Federal <sup>4</sup>	1,000	281	312	397	430	447	(NA)	476	484	500	(NA)
Rate per 100,000 population <sup>5</sup>	Rate	137	143	172	184	190	(NA)	201	202	205	(NA)
Active foreign medical school graduates <sup>6</sup>	1,000	54	(NA)	82	96	100	(NA)	105	107	111	(NA)
Doctors of osteopathy <sup>7</sup>	1,000	14	15	19	21	22	23	24	25	27	28
Medical and osteopathic schools <sup>7</sup>	Number	107	123	140	142	142	142	142	142	142	142
Students <sup>7</sup>	1,000	39.7	57.2	70.1	72.6	73.5	73.6	73.2	72.8	72.3	71.9
Graduates <sup>7</sup>	1,000	8.8	13.4	16.2	17.0	17.1	17.6	17.8	17.7	17.4	17.5
Newly licensed physicians, total <sup>6,8</sup>	1,000	11.0	16.9	18.2	17.6	20.6	18.3	18.3	19.6	(NA)	(NA)
Percent of total active M.D.'s <sup>9</sup>	Percent	3.5	4.6	4.2	4.1	4.3	(NA)	3.6	3.8	(NA)	(NA)
Graduates of—											
U.S. and Canadian medical schools	1,000	8.0	10.9	14.9	13.4	15.8	14.2	15.3	16.7	(NA)	(NA)
Foreign medical schools	1,000	3.0	6.0	3.3	4.2	4.8	4.1	3.0	2.9	(NA)	(NA)
Percent of total newly licensed	Percent	27.3	35.4	18.2	23.8	23.1	22.3	16.7	15.0	(NA)	(NA)
<b>Dentists, number</b>	1,000	116	127	141	147	150	153	156	158	161	163
Active (exc. in Federal service) <sup>5</sup>	1,000	96	107	121	127	130	133	136	138	140	142
Rate per 100,000 population <sup>5</sup>	Rate	47	50	54	55	56	57	57	57	58	58
Dental schools <sup>10</sup>	Number	53	59	60	60	60	60	60	59	58	58
Students <sup>10</sup>	1,000	16.0	20.1	22.5	22.2	21.4	20.6	19.6	18.7	17.9	17.1
Graduates <sup>10</sup>	1,000	3.7	5.0	5.3	5.4	5.8	5.3	5.4	5.0	4.7	4.6
<b>Nurses, number (active registered)</b>	1,000	750	961	1,273	1,380	1,439	1,486	1,544	1,589	1,627	1,648
Rate per 100,000 population <sup>2</sup>	Rate	368	446	560	595	615	629	647	659	668	670
Nursing programs	Number	1,340	1,362	1,385	1,432	1,466	1,477	1,473	1,469	1,465	1,442
Students <sup>11</sup>	1,000	163	248	231	242	251	237	218	194	183	185
Graduates <sup>11</sup>	1,000	46	77	76	74	77	80	82	77	71	65

NA Not available. <sup>1</sup> Includes not classified, inactive, and Federal physicians. <sup>2</sup> Based on Bureau of the Census resident population estimates as of July 1. <sup>3</sup> Excludes non-Federal physicians with temporary foreign addresses; see headline, table 159. 1987 data as of Jan. 1, 1988. <sup>4</sup> Excludes nonclassified physicians. <sup>5</sup> Based on Bureau of the Census civilian population estimates as of July 1. <sup>6</sup> Foreign medical graduates exclude graduates of Canadian schools. <sup>7</sup> Based on data from annual surveys conducted by the Association of American Medical Colleges and the American Association of Colleges of Medicine. <sup>8</sup> Source: American Medical Association, Chicago, IL, *U.S. Medical Licensure Statistics, 1984 and License Requirements, 1985*, and *Physician Characteristics and Distribution in the U.S.*, annual. (Copyright.) <sup>9</sup> Excludes M.D.'s with unknown addresses. Includes those not classified. <sup>10</sup> Based on data from the American Dental Association, Council on Dental Education, *Annual Report on Dental Education*. <sup>11</sup> Number of programs and students are as of October 15 and number of graduates are for academic year ending in year shown; from National League for Nursing, *NLN Data Book*, annual issues.

Source: Except as noted, U.S. Dept. of Health and Human Services, Health Resources and Services Administration, unpublished data. Prior to 1980, data were published by U.S. National Center for Health Statistics in *Health Resources Statistics*, annual.

## No. 159. Physicians, by Type of Practice: 1970 to 1987

[As of December 31, except as indicated. Includes Puerto Rico and outlying areas. Excludes 4,148 non-Federal physicians with temporary foreign addresses in 1970, 5,559 in 1975, 6,755 in 1980, 6,259 in 1981, 174 in 1982, 7,039 in 1983, 7,514 in 1985, 8,072 in 1986, and 8,947 in 1987]

TYPE OF PRACTICE	NUMBER (1,000)										PERCENT DISTRIBUTION			
	1970	1975	1980	1981	1982	1983	1985	1986	1987	1970	1980	1985	1987	
All physicians <sup>1</sup>	348.3	409.0	486.5	504.7	522.5	541.1	576.7	594.7	612.4	100	100	100	100	
Doctors of medicine <sup>2</sup>	334.0	393.7	467.7	485.1	502.0	519.5	552.7	569.2	585.8	96	96	96	96	
Active M.D.'s <sup>3</sup>	311.2	366.4	435.5	444.9	462.9	479.4	511.0	519.4	534.7	89	90	89	87	
Non-Federal <sup>3</sup>	301.3	359.7	443.5	460.1	479.2	496.9	528.2	544.3	561.0	87	91	92	92	
Patient care	255.0	287.8	361.9	373.6	393.3	408.1	431.5	444.7	461.2	73	74	75	75	
Office based <sup>4</sup>	188.9	213.3	271.2	286.5	297.5	308.3	329.0	325.8	337.5	54	56	57	55	
General practice <sup>5</sup>	50.8	46.3	47.7	49.4	50.4	51.4	53.9	53.6	55.1	12	10	9	9	
Specialty <sup>6</sup>	138.1	167.0	223.5	237.1	247.1	257.7	275.2	272.1	282.4	40	46	48	46	
Training programs <sup>6</sup>	45.8	53.5	59.6	60.5	66.7	70.6	72.2	85.4	87.5	13	12	13	14	
Full-time hospital staff	20.3	21.0	31.0	26.6	29.1	29.2	30.3	33.5	36.2	6	6	5	6	
Other professional activity	26.3	24.3	35.2	37.3	36.6	39.3	44.0	39.1	38.4	8	7	8	6	
Retired, not in practice	19.6	21.4	25.7	35.0	35.7	36.9	38.6	46.8	48.0	6	5	7	8	
Federal <sup>7</sup>	29.5	28.2	17.8	19.8	19.5	19.4	21.6	21.9	21.7	8	4	4	4	
Patient care <sup>7</sup>	23.5	24.1	14.6	15.7	15.4	15.3	17.3	17.4	17.3	7	3	3	3	
Full-time hospital staff	14.6	17.7	11.0	11.4	11.4	11.1	12.9	12.9	13.0	4	2	2	2	
Other professional activity	6.0	4.1	3.2	4.1	4.1	4.0	4.3	4.5	4.5	2	1	1	1	
Doctors of osteopathy <sup>8</sup>	14.3	15.4	18.8	19.6	20.5	21.6	24.0	25.5	26.8	4	4	4	4	

<sup>1</sup> Includes physicians with unknown addresses and those not classified, not shown separately. <sup>2</sup> Excludes physicians of unknown addresses. <sup>3</sup> Includes physicians inactive and not classified. Excludes unknown addresses. 1987 data as of Jan. 1, 1988. <sup>4</sup> Covers all physicians rendering patient care (or patient services by pathologists) in solo, partnership, group practice, or other industry, insurance companies, health depts., laboratories, etc. <sup>5</sup> Includes family practice. <sup>6</sup> Includes 7,828 clinical fellows in 1986 and 7,987 in 1987. <sup>7</sup> Includes Federal physicians in office-based practice and training programs. <sup>8</sup> Active D.O.'s. For 1988 the number of active D.O.'s is 26,397; for 1989, 27,827. Source: American Osteopathic Association, Chicago, IL.

Source: Except as noted, 1970 and 1975, U.S. National Center for Health Statistics, *Health Resources Statistics*, annual; American Medical Association, Chicago, IL, thereafter, *Physician Characteristics and Distribution in the U.S.*, annual (copyright).

**No. 160. Active Non-Federal Physicians, and Nurses, 1988, and Dentists, 1989—States**

[As of Dec. 31, except as noted. Excludes doctors of osteopathy, Federally employed persons, and physicians with addresses unknown. Includes all physicians not classified according to activity status]

REGION, DIVISION, AND STATE	PHYSICIANS, 1988		DENTISTS, 1989		NURSES, 1988		REGION, DIVISION, AND STATE	PHYSICIANS, 1988 <sup>1</sup>		DENTISTS, 1989		NURSES, 1988	
	Total	Rate <sup>2</sup>	Total	Rate <sup>2</sup>	Total	Rate <sup>2</sup>		Total	Rate <sup>2</sup>	Total	Rate <sup>2</sup>	Total	Rate <sup>2</sup>
<b>U.S.</b> . . . . .	<b>506,474</b>	<b>210</b>	<b>144,000</b>	<b>58</b>	<b>1,627,035</b>	<b>667</b>	<b>DC.</b> . . . . .	3,627	591	590	94	10,279	1,693
<b>North-</b>							<b>VA.</b> . . . . .	11,701	204	3,180	54	33,500	573
<b>  east</b> . . . . .	<b>135,543</b>	<b>270</b>	<b>36,280</b>	<b>71</b>	<b>424,876</b>	<b>842</b>	<b>WV.</b> . . . . .	3,120	164	840	43	11,097	592
<b>  N.E.</b> . . . . .	<b>35,887</b>	<b>280</b>	<b>9,120</b>	<b>70</b>	<b>130,915</b>	<b>1,014</b>	<b>NC.</b> . . . . .	11,276	179	2,700	42	37,568	588
<b>  ME.</b> . . . . .	2,036	173	570	47	9,639	805	<b>SC.</b> . . . . .	5,246	156	1,400	41	15,180	446
<b>  NH.</b> . . . . .	1,959	186	640	59	10,015	926	<b>GA.</b> . . . . .	10,294	167	2,920	46	33,860	540
<b>  VT.</b> . . . . .	1,334	244	320	57	4,490	805	<b>FL.</b> . . . . .	24,235	203	6,160	50	80,319	656
<b>  MA.</b> . . . . .	18,812	322	4,420	74	68,255	1,161	<b>E.S.C.</b> . . . . .	<b>24,369</b>	<b>160</b>	<b>7,290</b>	<b>47</b>	<b>82,644</b>	<b>542</b>
<b>  RI.</b> . . . . .	2,393	244	560	56	9,149	927	<b>KY.</b> . . . . .	5,953	161	2,000	53	19,495	528
<b>  CT.</b> . . . . .	9,353	293	2,610	80	29,367	913	<b>TN.</b> . . . . .	9,022	187	2,630	53	28,889	592
<b>  M.A.</b> . . . . .	<b>99,656</b>	<b>267</b>	<b>27,160</b>	<b>71</b>	<b>293,961</b>	<b>783</b>	<b>AL.</b> . . . . .	6,137	151	1,680	40	22,113	542
<b>  NY.</b> . . . . .	54,745	307	5,690	73	142,899	799	<b>MS.</b> . . . . .	3,257	125	980	37	12,147	467
<b>  NJ.</b> . . . . .	17,899	234	14,050	77	53,239	692	<b>W.S.C.</b> . . . . .	<b>44,282</b>	<b>166</b>	<b>12,610</b>	<b>46</b>	<b>125,470</b>	<b>471</b>
<b>  PA.</b> . . . . .	27,012	227	7,420	61	97,823	816	<b>AR.</b> . . . . .	3,414	144	960	39	11,292	473
							<b>LA.</b> . . . . .	8,126	184	2,030	45	19,685	450
<b>Midwest</b> . . . . .	<b>110,076</b>	<b>185</b>	<b>35,150</b>	<b>58</b>	<b>430,666</b>	<b>721</b>	<b>OK.</b> . . . . .	4,691	145	1,560	47	15,036	469
<b>  E.N.C.</b> . . . . .	<b>78,413</b>	<b>187</b>	<b>24,940</b>	<b>58</b>	<b>295,202</b>	<b>702</b>	<b>TX.</b> . . . . .	28,051	169	8,060	47	79,457	476
<b>  OH.</b> . . . . .	20,598	191	6,050	55	80,095	738	<b>West</b> . . . . .	<b>106,900</b>	<b>218</b>	<b>31,450</b>	<b>62</b>	<b>303,707</b>	<b>606</b>
<b>  IN.</b> . . . . .	8,323	151	2,680	47	35,527	640	<b>  Mt.</b> . . . . .	<b>23,154</b>	<b>177</b>	<b>7,710</b>	<b>58</b>	<b>81,838</b>	<b>618</b>
<b>  IL.</b> . . . . .	24,194	210	7,230	61	84,779	732	<b>  MT.</b> . . . . .	1,207	150	510	62	5,275	659
<b>  MI.</b> . . . . .	16,584	180	5,800	62	60,463	655	<b>  ID.</b> . . . . .	1,192	120	540	53	4,963	498
<b>  WI.</b> . . . . .	8,714	181	3,180	65	34,338	711	<b>  WY.</b> . . . . .	648	134	260	52	2,697	567
<b>  W.N.C.</b> . . . . .	<b>31,663</b>	<b>180</b>	<b>10,210</b>	<b>57</b>	<b>135,464</b>	<b>766</b>	<b>  CO.</b> . . . . .	6,574	202	2,300	69	23,459	720
<b>  MN.</b> . . . . .	9,008	212	2,900	67	33,911	788	<b>  NM.</b> . . . . .	2,554	173	690	45	7,489	501
<b>  IA.</b> . . . . .	4,098	145	1,590	55	22,770	805	<b>  AZ.</b> . . . . .	6,442	191	1,770	51	23,191	671
<b>  MO.</b> . . . . .	9,683	190	2,760	53	38,277	747	<b>  UT.</b> . . . . .	2,966	177	1,140	66	8,397	498
<b>  ND.</b> . . . . .	1,101	167	320	47	6,239	950	<b>  NV.</b> . . . . .	1,571	158	500	49	6,367	609
<b>  SD.</b> . . . . .	973	138	350	49	5,777	817	<b>  Pac.</b> . . . . .	<b>83,746</b>	<b>232</b>	<b>23,740</b>	<b>64</b>	<b>221,869</b>	<b>601</b>
<b>  NE.</b> . . . . .	2,655	168	1,020	63	11,627	731	<b>  WA.</b> . . . . .	9,245	206	3,110	68	33,121	721
<b>  KS.</b> . . . . .	4,145	169	1,270	51	16,863	682	<b>  OR.</b> . . . . .	5,325	196	1,950	70	20,466	740
<b>South</b> . . . . .	<b>153,955</b>	<b>186</b>	<b>41,120</b>	<b>48</b>	<b>467,785</b>	<b>558</b>	<b>  CA.</b> . . . . .	66,184	242	17,500	62	159,008	567
<b>  S.A.</b> . . . . .	<b>85,304</b>	<b>207</b>	<b>21,220</b>	<b>50</b>	<b>259,671</b>	<b>620</b>	<b>  AK.</b> . . . . .	688	138	340	66	3,351	670
<b>  DE.</b> . . . . .	1,229	191	290	44	5,661	863	<b>  HI.</b> . . . . .	2,304	225	840	80	5,923	570
<b>  MD.</b> . . . . .	14,576	325	3,140	68	32,207	704							

<sup>1</sup> As of January 1, 1988. <sup>2</sup> Per 100,000 civilian population. Based on U.S. Bureau of the Census estimates as of July 1 for 1987 for physicians; July 1, 1988 for nurses; and July 1, 1989 for dentists.

Source: Physicians: American Medical Association, Chicago, IL, *Physician Characteristics and Distribution in the U.S.*, annual (copyright); Dentists and nurses: U.S. Dept. of Health and Human Services, Health Resources and Services Administration, unpublished data. Dentists: Based on data supplied by American Dental Association, Bureau of Economic and Behavioral Research.

**No. 161. Physicians, by Sex, Specialty, and Major Professional Activity: 1970 to 1988**

[In thousands, except percent. As of December 31 through 1985; 1988 as of January 1. Includes Puerto Rico and outlying areas]

SPECIALTY	1970		1975, total	1980, total	1985, total	1988						
	Total	Per- cent				Total		Patient care				Other profes- sional <sup>2</sup>
						Num- ber	Per- cent	Total	Office- based	Hospital-based		
										Full- time	Resi- dents <sup>1</sup>	
<b>Total <sup>3</sup></b> . . . . .	<b>334.5</b>	<b>100</b>	<b><sup>4</sup>393.7</b>	<b><sup>4</sup>467.7</b>	<b><sup>4</sup>552.7</b>	<b><sup>4</sup>585.6</b>	<b>100.0</b>	<b>478.5</b>	<b>338.7</b>	<b>49.3</b>	<b>90.6</b>	<b>42.8</b>
Male . . . . .	(NA)	(NA)	<sup>4</sup> 358.1	<sup>4</sup> 413.4	<sup>4</sup> 472.0	<sup>4</sup> 492.9	84.2	402.6	297.7	39.6	65.3	36.4
Female . . . . .	(NA)	(NA)	<sup>4</sup> 35.6	<sup>4</sup> 54.3	<sup>4</sup> 80.7	<sup>4</sup> 92.8	15.8	75.9	41.0	9.7	25.3	6.4
General practice . . . . .	57.9	17.3	54.6	60.0	67.1	69.3	11.8	67.2	55.6	4.3	7.4	2.1
Internal medicine . . . . .	41.9	12.5	54.3	71.5	90.4	94.7	16.2	84.7	55.6	7.4	21.7	9.9
Pediatrics . . . . .	17.9	5.4	21.7	28.3	35.6	38.2	6.5	34.9	23.5	3.4	8.0	3.3
General surgery . . . . .	29.8	8.9	31.6	34.0	38.2	37.8	6.5	36.2	23.7	2.8	9.7	1.6
Obstetrics, gynecology . . . . .	18.9	5.7	21.7	26.3	30.9	32.3	5.5	31.1	24.3	1.8	5.1	1.1
Orthopedic surgery . . . . .	9.6	2.9	11.4	14.0	17.2	18.2	3.1	17.8	13.5	1.0	3.3	0.4
Ophthalmology . . . . .	9.9	3.0	11.1	13.0	14.9	15.6	2.7	15.1	12.5	0.6	1.9	0.5
Psychiatry . . . . .	21.1	6.3	23.9	27.5	32.3	33.7	5.8	30.3	18.8	5.9	5.6	3.4
Anesthesiology . . . . .	10.1	3.0	12.9	16.0	22.0	24.3	4.1	23.2	16.0	2.9	4.3	1.1
Pathology . . . . .	10.3	3.1	11.7	13.4	15.5	16.2	2.8	13.0	6.8	3.4	2.9	3.2
Radiology . . . . .	10.5	3.1	11.5	11.7	10.1	8.4	1.4	7.8	6.2	1.3	0.4	0.6

NA Not available. <sup>1</sup> Includes interns and, beginning 1988, clinical fellows (8,379). <sup>2</sup> Medical teaching, administration, research, and other. <sup>3</sup> Includes other specialties not shown separately. <sup>4</sup> Includes physicians who are inactive, not classified, or with address unknown, not shown separately.

Source: American Medical Association, Chicago, IL, *Distribution of Physicians in the United States, 1970*, *Physician Distribution and Medical Licensure in the U.S., 1975*; and, beginning 1980, *Physician Characteristics and Distribution in the U.S.*, annual (copyright).

**No. 162. Physician and Dental Visits, by Patient Characteristics: 1970 to 1988**

[See headnote, table 188. Based on National Health Interview Survey; see Appendix III]

TYPE OF VISIT AND YEAR	TOTAL VISITS (mil.)				VISITS PER PERSON									
	Sex		Race <sup>1</sup>		Sex		Race <sup>1</sup>		Age (years)					
	Male	Fe- male	White	Black	Male	Fe- male	White	Black	Under 6	6 to 16	17 to 24	25 to 44	45 to 64	65 and over
Physicians: 1970 . . . . .	396	531	832	87	4.1	5.1	4.8	3.9	5.9	2.9	4.6	4.6	5.2	6.3
1980 . . . . .	426	610	903	115	4.0	5.4	4.8	4.5	6.7	3.2	4.0	4.6	5.1	6.4
1985 . . . . .	498	733	1,074	132	4.4	6.1	5.4	4.7	6.3	3.1	4.2	4.9	6.1	8.3
1986 . . . . .	515	756	1,110	131	4.5	6.2	5.5	4.6	6.3	3.3	4.2	4.7	6.6	9.1
1987 . . . . .	523	765	1,118	140	4.5	6.2	5.5	4.9	6.7	3.3	4.4	4.8	6.4	8.9
1988 . . . . .	530	774	1,139	136	4.5	6.2	5.6	4.6	7.0	3.4	3.8	5.1	6.1	8.7
Dentists: 1970 . . . . .	133	171	283	17	1.4	1.7	1.6	0.8	0.5	1.9	1.8	1.7	1.5	1.1
1980 . . . . .	158	207	333	26	1.5	1.8	1.8	1.0	0.5	2.3	1.6	1.7	1.8	1.4
1983 . . . . .	183	239	382	31	1.6	2.0	1.9	1.1	0.5	2.6	1.6	1.9	2.0	1.5
1986 . . . . .	210	256	416	37	1.9	2.2	2.1	1.4	0.7	2.4	1.7	2.0	2.2	2.1

<sup>1</sup> See footnote 2, table 188. <sup>2</sup> Under 5. <sup>3</sup> 5 to 17. <sup>4</sup> 18 to 24.Source: U.S. National Center for Health Statistics, *Vital and Health Statistics*, series 10, and unpublished data.**No. 163. Physicians' Median Earnings from Practice: 1975 to 1988**

[In thousands of dollars. Unincorporated: Net earnings from practice represent residual after payment of tax-deductible professional expenses but before payment of income taxes. Covers office-based, patient-care doctors of medicine (M.D.s.). Incorporated: Applies to office-based, patient-care doctors of medicine (M.D.s.). Bonuses (if any), and funds set aside for retirement purposes are included in earnings. 1988 data are based on 10,276 physicians.]

See Guide to Tabular Presentation. For composition of divisions, see fig. 1, inside front cover. See *Historical Statistics, Colonial Times to 1970*, series D 918 for physicians]

YEAR, REGION, AND DIVISION	Gross earnings	NET EARNINGS			LOCATION OF M.D.'S OFFICE, YEARS IN PRACTICE, AND TYPE OF PRACTICE	Gross earnings	Net earnings
		Total	Incor- porated	Unincor- porated			
1975 . . . . .	(NA)	58.4	76.3	47.5	1988—Con.		
1980 . . . . .	132.2	83.7	95.1	63.8	Urban . . . . .	210.8	121.5
1985 . . . . .	182.3	102.5	120.1	79.0	Suburban . . . . .	221.0	119.6
1987 . . . . .	210.5	116.4	133.9	93.3	Rural . . . . .	213.2	107.3
1988 . . . . .	214.5	117.8	136.9	96.9	1 to 2 years . . . . .	152.0	99.5
Northeast . . . . .	207.6	118.3	146.3	95.5	3 to 5 years . . . . .	195.0	107.2
New England . . . . .	198.8	115.0	142.5	97.9	6 to 10 years . . . . .	231.3	129.4
Middle Atlantic . . . . .	210.6	120.0	147.1	94.3	11 to 20 years . . . . .	252.3	134.3
Midwest . . . . .	214.5	115.4	125.3	97.1	21 to 30 years . . . . .	212.2	118.1
East North Central . . . . .	211.6	119.4	134.0	99.4	31 years or more . . . . .	159.7	93.8
West North Central . . . . .	223.6	108.9	117.9	92.5	Incorporated: Solo . . . . .	266.2	128.3
South . . . . .	215.3	121.1	140.9	99.3	2 shareholders . . . . .	238.6	124.1
South Atlantic . . . . .	209.5	119.3	145.0	98.1	3 shareholders . . . . .	250.0	151.6
East South Central . . . . .	222.9	126.7	141.3	98.8	4 or more shareholders . . . . .	244.4	149.4
West South Central . . . . .	217.9	120.2	135.6	101.9	Unincorporated: Solo . . . . .	152.2	92.1
West . . . . .	220.5	113.4	136.3	95.8	Expense-sharing . . . . .	196.7	112.5
Mountain . . . . .	216.4	115.0	127.5	98.8	2 or 3 partners . . . . .	205.6	105.6
Pacific . . . . .	222.4	112.7	137.5	95.0	4 or more 5 partners . . . . .	212.5	120.0

NA Not available.

**No. 164. Office-Based Physicians' Median Earnings from Practice, by Specialty: 1988**

[See headnote, table 163. Total includes specialties not shown separately]

SPECIALTY	Gross earnings (\$1,000)	Net earnings (\$1,000)	NET EARNINGS FROM PRACTICE—PERCENT DISTRIBUTION						
			Less than \$60,000	\$60,000- \$99,999	\$100,000- \$124,999	\$125,000- \$149,999	\$150,000- \$199,999	\$200,000- \$299,999	\$300,000 or more
<b>M.D.'s total . . . . .</b>	<b>214.5</b>	<b>117.8</b>	<b>11</b>	<b>27</b>	<b>18</b>	<b>11</b>	<b>13</b>	<b>15</b>	<b>6</b>
Anesthesiologists . . . . .	211.3	168.6	1	12	18	11	28	30	-
Cardiologists . . . . .	300.8	186.5	5	7	18	8	14	32	16
Cardiovascular sur- geons . . . . .	485.9	295.2	2	4	6	5	10	25	48
Dermatologists . . . . .	279.2	156.1	5	14	16	11	23	23	8
Family physicians . . . . .	199.7	91.3	15	42	22	10	7	4	-
Gastroenterologists . . . . .	302.8	179.8	4	7	14	11	25	25	14
General practitioners . . . . .	143.9	78.8	29	42	11	8	8	2	-
General surgeons . . . . .	253.4	135.0	5	17	21	14	17	19	7
Internists . . . . .	198.6	104.9	12	32	22	13	13	7	1
Neurologists . . . . .	211.5	124.8	11	25	16	13	17	16	2
Neurosurgons . . . . .	419.2	236.4	1	5	5	11	17	32	29
OB/GYN . . . . .	317.7	157.9	4	13	13	15	23	21	11
Orthopedic surgeons . . . . .	440.6	219.1	2	7	8	9	17	34	23
Pediatricians . . . . .	190.4	98.9	21	31	21	11	12	3	1
Plastic surgeons . . . . .	398.8	205.7	2	8	16	7	15	34	18
Psychiatrists . . . . .	140.8	100.0	16	33	21	11	10	6	3
Radiologists . . . . .	221.3	185.0	1	16	12	7	19	37	8
Thoracic surgeons . . . . .	343.8	196.3	6	12	12	8	13	25	24

- Represents or rounds to zero. <sup>1</sup> Obstetrician-gynecologists.Source of tables 163 and 164: Medical Economics Company, Oradell, NJ, *Medical Economics*. (Copyright.)

**No. 165. Hospital Registered Nursing Personnel—Summary: 1989**

[In percent, except as indicated. Based on a sample of 2,109 (30%) U.S. hospitals registered and unregistered by the American Hospital Association, with a response rate of 55%. For details see source. For an explanation of mean, see Guide to Tabular Presentation]

CHARACTERISTIC	1989	CHARACTERISTIC	1989
Total full-time registered nurses per hospital (mean) <sup>1</sup>	105	Highest mean hourly wage paid . . . . .	15.33
LENGTH OF EMPLOYMENT AT HOSPITAL <sup>2</sup>		Mean hourly wage paid . . . . .	13.27
Full-time: Less than 1 year . . . . .	17.0	HOSPITAL STAFFING MECHANISMS <sup>3</sup>	
1 year to less than 2 years . . . . .	13.9	Full-time hospital nursing staff <sup>2</sup> . . . . .	99.1
2 year to less than 5 years . . . . .	23.2	Part-time hospital nursing staff <sup>2</sup> . . . . .	91.2
5 years or more . . . . .	45.8	Per-diem . . . . .	35.7
Part-time: Less than 1 year . . . . .	21.1	Float-pool <sup>4</sup> . . . . .	38.5
1 year to less than 2 years . . . . .	16.7	On-call . . . . .	37.2
2 year to less than 5 years . . . . .	23.2	Temporary nursing service . . . . .	36.8
5 years or more . . . . .	38.6	Other . . . . .	2.7
EDUCATIONAL ATTAINMENT		HOSPITAL POSITION SCHEDULES <sup>5</sup>	
Associate degree in Nursing . . . . .	44.8	Days only . . . . .	31.8
Nursing diploma . . . . .	32.5	Evenings only . . . . .	19.7
Baccalaureate degree in Nursing . . . . .	20.8	Nights only . . . . .	17.3
Master's degree in Nursing . . . . .	1.7	Shifts: Day/evening . . . . .	10.3
SALARY/WAGES (dol. per hr.) <sup>2</sup>		Day/night . . . . .	6.0
Full-time head nurse:		Evening/night . . . . .	3.2
Lowest mean annual salary paid . . . . .	14.10	Rotate all . . . . .	11.5
Highest mean annual salary paid . . . . .	18.17	HOSPITAL BARGAINING STATUS	
Registered nurse, full-time:		Organized for the purpose of collective bargaining . . . . .	17.0
Lowest mean hourly wage paid . . . . .	11.40		

<sup>1</sup> Source: American Hospital Association, Chicago, IL, 1989 Human Resource Survey. <sup>2</sup> Full-time: at least 35 hours worked per week. Part-time: less than 35 hours worked per week. <sup>3</sup> Percent of hospitals with each mechanism. Includes multiple responses. <sup>4</sup> In-house nursing staff personnel routinely assigned schedules who work different units in the institution according to the demands of variable patient volume and acuity levels. <sup>5</sup> Percent of positions.

Source: Except as indicated, American Hospital Association, Chicago, IL, *Report of the Hospital Nursing Personnel Survey, 1989* (copyright).

**No. 166. Hospitals and Nursing Homes—Summary Characteristics: 1971 to 1988**

[Except as indicated, based on National Master Facility Inventory]

YEAR AND TYPE OF FACILITY	Total	FACILITIES UNDER—			FACILITIES WITH—			Resi- dents <sup>2</sup> (1,000)	Full-time employ- ees (1,000)
		Govt. control	Propri- etary control	Non- profit control	Less than 25 beds	25-74 beds	75 or more beds		
1971: All facilities . . . . .	29,682	4,178	18,091	7,413	8,902	10,959	9,821	2,262	3,007
Nursing homes <sup>3</sup> . . . . .	22,004	1,368	17,049	3,587	8,266	8,259	5,479	1,076	568
Hospitals . . . . .	7,678	2,810	1,042	3,826	636	2,700	4,342	1,186	2,439
1980: All facilities . . . . .	30,116	3,498	19,811	7,007	8,852	8,573	12,691	2,427	3,919
Nursing homes <sup>3 4 5</sup> . . . . .	23,065	936	18,669	3,460	8,498	6,362	8,205	1,396	798
Hospitals . . . . .	7,051	2,562	942	3,547	354	2,211	4,486	1,031	3,121
1986: All facilities . . . . .	32,600	3,275	21,399	7,926	9,903	8,755	13,942	2,427	(NA)
All hospitals . . . . .	6,954	2,230	1,176	3,548	290	2,150	4,514	874	3,241
General . . . . .	5,956	1,871	829	3,256	259	1,849	3,848	690	2,871
Psychiatric . . . . .	584	267	218	99	12	140	432	139	248
Chronic . . . . .	44	30	4	10	-	6	38	13	21
Tuberculosis . . . . .	4	3	-	1	-	1	3	-	1
Nursing homes <sup>3 5</sup> . . . . .	25,646	1,045	20,223	4,378	9,613	6,605	9,428	1,553	(NA)
1987: All hospitals <sup>7</sup> . . . . .	6,940	2,220	1,216	3,504	314	2,155	4,471	865	3,318
General . . . . .	5,880	1,858	815	3,207	281	1,817	3,782	683	2,943
Psychiatric . . . . .	637	270	267	100	14	165	458	138	255
Chronic . . . . .	41	30	4	7	-	5	36	12	20
Tuberculosis . . . . .	5	4	-	1	-	1	4	-	1
1988: All hospitals <sup>7</sup> . . . . .	6,927	2,210	1,228	3,489	308	2,175	4,444	859	3,349
General . . . . .	5,795	1,852	764	3,179	275	1,793	3,727	680	2,973
Psychiatric . . . . .	696	268	319	109	16	201	479	137	260
Chronic . . . . .	42	33	1	8	-	5	37	13	17
Tuberculosis . . . . .	4	3	-	1	-	1	3	-	1

- Represents or rounds to zero. NA Not available. <sup>1</sup> For hospitals, minimum of 6 beds; for nursing homes, minimum of 3 beds. <sup>2</sup> Number of residents as of date of interview. <sup>3</sup> See footnote 1, table 179. <sup>4</sup> Includes 1978 data for Alaska and South Dakota. <sup>5</sup> Excludes hospital-based nursing homes; 1986 data based on the 1986 Inventory of Long-Term Care Places. Data may not be strictly comparable with previous year data. <sup>6</sup> Estimated. <sup>7</sup> Includes types not shown below. Based on data from the American Hospital Association.

Source: U.S. National Center for Health Statistics, *Health Resources Statistics, 1971*, and unpublished data.

### No. 167. Hospitals—Summary Characteristics, by Type of Service and Control: 1972 to 1988

[Covers hospitals accepted for registration by American Hospital Association; see text, section 3. Short-term hospitals have an average patient stay of less than 30 days; long-term, an average stay of longer duration. Special hospitals include obstetrics and gynecology; eye, ear, nose, and throat; rehabilitation; orthopedic; and chronic and other special hospitals except psychiatric, tuberculosis, alcoholism, and chemical dependency hospitals. Minus sign (-) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series B 305-318, B 331-344, and B 413-422]

ITEM	1972	1980	1982	1983	1984	1985	1986	1987	1988	Percent change 1980-88
<b>Number:</b>										
All hospitals	7,061	6,965	6,915	6,888	6,872	6,872	6,841	6,821	6,780	-2.7
With 100 beds or more	2,710	3,755	3,807	3,812	3,808	3,805	3,765	3,713	3,681	-2.0
Non-Federal	6,860	6,606	6,569	6,546	6,531	6,529	6,499	6,479	6,438	-2.5
Community hospitals <sup>2</sup>	5,746	5,830	5,801	5,783	5,759	5,732	5,678	5,611	5,533	-5.1
Nongovernmental nonprofit	3,301	3,322	3,338	3,347	3,351	3,349	3,323	3,274	3,242	-2.4
For profit	738	730	748	757	786	805	854	828	790	8.2
State and local government	1,707	1,776	1,715	1,679	1,622	1,578	1,521	1,509	1,501	-15.6
Long-term general and special	216	157	138	131	131	128	133	131	129	-17.8
Psychiatric	529	534	558	564	579	610	634	684	726	36.0
Tuberculosis	72	11	10	8	7	7	4	5	4	-63.6
Federal	401	359	346	342	341	343	342	342	342	-4.7
<b>Beds (1,000):</b>										
All hospitals <sup>3</sup>	1,550	1,365	1,360	1,350	1,339	1,309	1,283	1,261	1,241	-9.1
Rate per 1,000 population <sup>4</sup>	7.6	6.0	5.9	5.8	5.7	5.5	5.4	5.3	5.0	-15.8
Beds per hospital	220	196	197	196	195	190	188	185	183	-6.6
Non-Federal	1,407	1,248	1,246	1,237	1,226	1,197	1,172	1,152	1,138	-8.8
Community hospitals <sup>2</sup>	879	988	1,012	1,018	1,017	1,001	978	958	944	-4.4
Rate per 1,000 population <sup>4</sup>	4.32	4.15	4.25	4.27	4.27	4.20	4.10	4.02	3.8	-7.3
Nongovernmental nonprofit	617	692	712	718	716	707	689	673	666	-3.8
For profit	57	87	91	94	100	104	106	106	103	18.9
State and local government	205	209	210	207	201	189	182	180	175	-16.1
Long-term general and special	54	39	34	30	30	31	30	28	27	-30.1
Psychiatric	457	215	195	185	175	169	165	165	163	-24.3
Tuberculosis	13	2	1	1	1	1	(Z)	1	1	-76.7
Federal	143	117	114	113	112	112	111	109	104	-11.5
<b>Occupancy rate:</b> <sup>5</sup>										
All hospitals	78.0	77.7	77.4	76.1	72.5	69.5	68.8	69.2	69.6	(X)
Non-Federal	78.0	77.4	77.2	75.7	71.9	68.9	68.3	68.7	69.1	(X)
Community hospitals <sup>2</sup>	75.4	75.6	75.3	73.5	69.0	64.8	64.3	64.9	65.7	(X)
Nongovernmental nonprofit	77.5	78.2	77.8	75.8	71.4	67.2	66.8	67.6	68.4	(X)
For profit	68.7	65.2	65.6	63.1	57.0	52.2	50.9	51.0	51.0	(X)
State and local government	71.0	71.1	71.1	70.4	66.2	62.9	62.7	63.1	63.9	(X)
Long-term general and special	83.0	85.9	87.9	86.5	88.7	88.5	88.1	87.2	87.5	(X)
Psychiatric	82.8	85.2	86.1	86.5	86.3	87.0	86.8	86.4	86.3	(X)
Tuberculosis	61.2	67.0	62.3	67.5	63.4	64.1	59.0	64.1	67.2	(X)
Federal	80.0	80.1	79.4	80.5	79.0	76.3	74.2	74.2	74.4	(X)
<b>Expenses (bil. dol.):</b> <sup>6</sup>										
All hospitals	32.7	91.9	123.2	136.3	144.1	153.3	165.2	178.7	196.7	114.0
Non-Federal	30.0	84.0	113.7	125.6	133.0	141.0	152.1	165.0	182.1	116.8
Community hospitals <sup>2</sup>	25.5	76.9	104.9	116.3	123.3	130.5	140.7	152.6	168.7	119.4
Nongovernmental nonprofit	18.4	55.8	76.8	85.6	90.8	96.1	103.5	112.3	124.7	123.5
For profit	1.4	5.8	8.2	9.2	10.3	11.5	13.0	14.1	15.5	168.0
State and local government	5.7	15.2	19.9	21.6	22.3	22.9	24.1	26.2	28.5	87.3
Long-term general and special	0.7	1.2	1.5	1.5	1.7	1.9	2.0	2.2	2.3	89.3
Psychiatric	3.1	5.8	7.0	7.4	7.7	8.3	9.1	9.9	10.9	87.2
Tuberculosis	0.1	0.1	0.1	0.1	0.1	0.1	(Z)	(Z)	(Z)	(-)
Federal	3.1	7.9	9.5	10.7	11.2	12.3	13.1	13.7	14.6	84.8
<b>Personnel (1,000):</b> <sup>7</sup>										
All hospitals	2,671	3,492	3,746	3,707	3,630	3,625	3,647	3,742	3,840	10.0
Non-Federal	2,439	3,213	3,449	3,422	3,339	3,326	3,351	3,445	3,545	10.3
Community hospitals <sup>2</sup>	2,051	2,873	3,103	3,096	3,017	2,997	3,025	3,114	3,205	11.6
Nongovernmental nonprofit	1,473	2,086	2,265	2,270	2,222	2,216	2,241	2,298	2,373	13.8
For profit	105	189	212	213	214	221	229	242	249	31.6
State and local government	473	598	627	613	581	561	555	573	583	-2.5
Long-term general and special	63	56	59	53	54	58	56	55	54	-4.3
Psychiatric	307	275	277	264	260	263	263	269	281	2.2
Tuberculosis	12	3	3	2	2	2	1	1	1	-68.3
Federal	232	279	297	286	290	299	296	297	295	5.8
<b>Personnel per 100 patients:</b> <sup>7</sup>										
All hospitals	221	329	356	361	374	398	413	429	445	35.2
Non-Federal	223	333	353	365	379	403	419	435	451	35.4
Community hospitals <sup>2</sup>	309	380	353	413	430	462	481	501	517	36.0
Nongovernmental nonprofit	308	385	355	417	434	466	487	505	521	35.4
For profit	269	334	320	358	375	408	423	448	471	41.1
State and local government	324	401	320	423	437	471	487	507	521	29.7
Long-term general and special	140	170	200	202	203	212	212	222	225	32.1
Psychiatric	81	150	167	165	172	180	183	189	200	33.4
Tuberculosis	150	290	334	351	342	378	365	308	303	4.4
Federal	204	297	335	314	327	351	360	367	383	28.9
<b>Outpatient visits, (mil.):</b>	<b>219.2</b>	<b>263.0</b>	<b>313.7</b>	<b>273.2</b>	<b>276.6</b>	<b>282.1</b>	<b>294.6</b>	<b>310.7</b>	<b>336.2</b>	<b>27.8</b>
Emergency	60.1	82.0	81.1	77.5	78.5	80.1	82.1	83.5	88.6	5.6
<b>Closures</b>	<b>(NA)</b>	<b>73</b>	<b>53</b>	<b>35</b>	<b>76</b>	<b>59</b>	<b>80</b>	<b>93</b>	<b>106</b>	<b>45.2</b>

NA Not available. X Not applicable. Z Less than 500 beds \$50 million, or 5 percent. <sup>1</sup> Short term (average length of stay less than 30 days) general and special (e.g. obstetrics and gynecology; eye, ear, nose and throat; rehabilitation etc. except psychiatric, tuberculosis, alcoholism and chemical dependency). Includes hospital units of institutions. <sup>2</sup> Excludes hospital units of institutions. <sup>3</sup> Beginning 1988, number of beds at end of reporting period; prior years, average number in 12 month period.

<sup>4</sup> Based on Bureau of the Census estimated resident population as of July 1. <sup>5</sup> Ratio of average daily census to every 100 beds. <sup>6</sup> Excludes new construction. <sup>7</sup> Includes full-time equivalents of part-time personnel.

Source: American Hospital Association, Chicago, IL *Hospital Statistics*, annual. (Copyright.)

## Hospitals, by State

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## No. 168. Hospital Facilities—States and Puerto Rico: 1988

[Short term hospitals have an average stay of less than 30 days. See *Historical Statistics, Colonial Times to 1970*, series B 305-308 and B 359-362]

REGION, DIVISION AND STATE OR OTHER AREA	NUMBER OF HOSPITALS		BEDS (1,000)		PATIENTS ADMITTED (mil.)		AVERAGE DAILY CENSUS <sup>2</sup> (1,000)		OCCUPANCY RATE <sup>3</sup>		OUTPATIENT VISITS (mil.)		Person- nel <sup>4</sup> (1,000)
	Total	Com- muni- ty <sup>1</sup>	Total	Com- muni- ty <sup>1</sup>	Total	Com- muni- ty <sup>1</sup>	Total	Com- muni- ty <sup>1</sup>	Total	Com- muni- ty <sup>1</sup>	Total	Com- muni- ty <sup>1</sup>	
<b>U.S. ....</b>	<b>6,780</b>	<b>5,533</b>	<b>1,241.1</b>	<b>944.5</b>	<b>34.1</b>	<b>31.5</b>	<b>863.4</b>	<b>620.4</b>	<b>69.6</b>	<b>65.7</b>	<b>336.2</b>	<b>269.1</b>	<b>3,839.9</b>
<b>Northeast ..</b>	<b>1,100</b>	<b>816</b>	<b>285.3</b>	<b>201.3</b>	<b>7.3</b>	<b>6.9</b>	<b>231.4</b>	<b>156.8</b>	<b>81.1</b>	<b>77.9</b>	<b>80.0</b>	<b>70.0</b>	<b>952.8</b>
<b>N.E. ....</b>	<b>361</b>	<b>241</b>	<b>69.7</b>	<b>46.0</b>	<b>1.7</b>	<b>1.6</b>	<b>54.2</b>	<b>33.8</b>	<b>77.7</b>	<b>73.5</b>	<b>21.2</b>	<b>18.2</b>	<b>247.4</b>
ME .....	46	40	6.1	4.6	0.2	0.1	4.6	3.3	76.0	70.7	2.2	2.0	20.7
NH .....	43	28	5.1	3.5	0.1	0.1	3.6	2.3	70.0	65.6	1.8	1.5	16.0
VT .....	19	16	2.4	1.8	0.1	0.1	1.7	1.2	71.0	66.5	0.6	0.5	7.4
MA .....	169	108	36.5	23.2	0.9	0.8	28.3	17.0	77.5	73.4	10.9	9.4	131.0
RI .....	20	13	4.7	3.3	0.1	0.1	4.0	2.7	84.3	80.0	1.2	0.9	18.2
CT .....	64	36	14.9	9.7	0.4	0.4	12.0	7.4	80.8	76.2	4.6	3.9	54.1
<b>M.A. ....</b>	<b>739</b>	<b>577</b>	<b>215.5</b>	<b>155.3</b>	<b>5.8</b>	<b>5.3</b>	<b>177.2</b>	<b>123.0</b>	<b>82.2</b>	<b>79.2</b>	<b>58.8</b>	<b>51.8</b>	<b>705.4</b>
NJ .....	318	246	107.8	74.6	2.6	2.4	94.7	63.6	87.8	85.3	30.4	26.3	357.7
NY .....	122	92	38.7	28.5	1.1	1.1	30.9	22.2	79.9	78.0	9.3	7.8	116.7
PA .....	301	239	69.0	52.2	1.9	1.8	51.6	37.2	74.8	71.1	19.2	17.7	228.9
<b>Midwest ....</b>	<b>1,835</b>	<b>1,592</b>	<b>322.0</b>	<b>260.6</b>	<b>8.5</b>	<b>8.0</b>	<b>213.0</b>	<b>163.4</b>	<b>66.2</b>	<b>62.7</b>	<b>86.1</b>	<b>75.9</b>	<b>972.6</b>
<b>E.N.C. ....</b>	<b>976</b>	<b>835</b>	<b>210.1</b>	<b>171.3</b>	<b>5.9</b>	<b>5.6</b>	<b>140.8</b>	<b>109.1</b>	<b>67.0</b>	<b>63.7</b>	<b>62.5</b>	<b>57.0</b>	<b>670.3</b>
OH .....	229	194	55.8	45.4	1.6	1.6	38.0	29.7	68.1	65.3	16.5	15.3	185.9
IN .....	135	115	27.6	23.0	0.8	0.7	17.2	13.4	62.2	58.2	8.0	7.4	84.4
IL .....	257	220	61.0	49.3	1.6	1.5	40.8	31.1	66.8	63.1	17.0	15.0	191.3
MI .....	206	177	41.7	34.4	1.2	1.1	28.7	22.8	68.8	66.3	14.6	13.8	142.5
WI .....	149	129	24.0	19.2	0.6	0.6	16.1	12.2	67.2	63.3	6.3	5.5	66.3
<b>W.N.C. ....</b>	<b>859</b>	<b>757</b>	<b>111.9</b>	<b>89.3</b>	<b>2.6</b>	<b>2.4</b>	<b>72.3</b>	<b>54.3</b>	<b>64.8</b>	<b>60.8</b>	<b>23.6</b>	<b>18.9</b>	<b>302.2</b>
MN .....	170	158	25.5	20.5	0.6	0.5	17.1	13.1	66.9	63.9	4.2	3.8	64.4
IA .....	137	127	17.7	14.6	0.4	0.4	11.5	8.9	65.0	60.7	4.3	4.0	46.7
MO .....	163	135	30.7	24.7	0.8	0.7	20.0	15.3	65.3	61.9	6.9	5.6	97.2
ND .....	58	51	5.6	4.6	0.1	0.1	3.6	3.0	65.0	63.9	1.0	0.5	12.6
SD .....	66	54	5.2	4.0	0.1	0.1	3.2	2.4	61.3	59.2	1.1	0.5	12.2
NE .....	106	95	11.2	9.2	0.2	0.2	6.6	5.1	59.5	55.9	2.3	1.7	27.1
KS .....	159	137	16.0	11.7	0.3	0.3	10.2	6.6	63.7	56.4	3.9	2.7	42.1
<b>South .....</b>	<b>2,557</b>	<b>2,088</b>	<b>438.3</b>	<b>333.7</b>	<b>12.4</b>	<b>11.2</b>	<b>289.7</b>	<b>207.2</b>	<b>66.1</b>	<b>62.1</b>	<b>103.3</b>	<b>73.7</b>	<b>1,278.6</b>
<b>S.A. ....</b>	<b>1,065</b>	<b>828</b>	<b>214.2</b>	<b>158.8</b>	<b>6.1</b>	<b>5.5</b>	<b>150.4</b>	<b>105.6</b>	<b>70.2</b>	<b>66.5</b>	<b>55.4</b>	<b>39.4</b>	<b>662.3</b>
DE .....	14	8	3.4	2.0	0.1	0.1	2.8	1.5	81.4	77.0	1.0	0.8	11.7
MD .....	84	53	20.9	13.4	0.6	0.5	16.7	10.4	79.9	77.6	6.6	4.4	73.3
DC .....	18	12	7.9	4.8	0.2	0.2	6.6	3.6	83.0	75.8	2.4	1.4	32.7
VA .....	136	98	29.3	20.1	0.8	0.7	21.1	13.5	72.1	67.2	7.8	5.2	86.6
WV .....	66	58	10.9	8.7	0.3	0.3	7.0	5.3	64.4	61.0	2.7	2.3	30.0
NC .....	158	128	29.8	21.7	0.9	0.8	22.1	15.4	74.2	71.1	7.3	5.2	95.0
SC .....	91	72	14.7	11.4	0.4	0.4	10.3	7.6	69.7	67.1	4.6	3.0	44.2
GA .....	205	164	34.6	25.5	1.0	0.9	23.7	16.8	68.6	65.7	9.0	6.4	102.2
FL .....	293	235	62.7	51.3	1.8	1.6	40.1	31.5	64.0	61.4	14.0	10.6	186.7
<b>E.S.C. ....</b>	<b>540</b>	<b>472</b>	<b>89.7</b>	<b>71.4</b>	<b>2.5</b>	<b>2.4</b>	<b>58.6</b>	<b>43.7</b>	<b>65.3</b>	<b>61.3</b>	<b>18.3</b>	<b>14.1</b>	<b>239.7</b>
KY .....	123	108	19.0	15.9	0.6	0.5	12.1	9.6	63.8	60.6	4.9	3.7	51.6
TN .....	158	136	29.6	23.5	0.9	0.8	20.2	15.3	68.1	64.9	5.4	4.4	86.0
AL .....	140	120	23.8	18.6	0.6	0.6	15.3	11.2	64.4	60.0	5.2	4.1	62.5
MS .....	119	108	17.3	13.3	0.4	0.4	11.0	7.7	63.4	57.5	2.7	1.8	39.7
<b>W.S.C. ....</b>	<b>952</b>	<b>788</b>	<b>134.4</b>	<b>103.5</b>	<b>3.7</b>	<b>3.3</b>	<b>80.7</b>	<b>57.9</b>	<b>60.0</b>	<b>55.9</b>	<b>29.6</b>	<b>20.1</b>	<b>376.6</b>
AR .....	98	88	13.0	10.7	0.4	0.3	7.6	6.1	68.8	56.9	2.3	1.8	33.8
LA .....	172	141	26.0	19.0	0.7	0.6	16.1	10.6	62.0	55.6	5.9	4.8	70.0
OK .....	140	115	15.6	12.9	0.5	0.4	9.4	7.4	59.8	57.4	4.0	2.1	46.4
TX .....	542	444	79.7	60.9	2.2	2.0	47.5	33.8	59.6	55.5	17.4	11.5	226.4
<b>West .....</b>	<b>1,288</b>	<b>1,035</b>	<b>195.6</b>	<b>149.0</b>	<b>6.0</b>	<b>5.4</b>	<b>129.3</b>	<b>93.0</b>	<b>66.1</b>	<b>62.4</b>	<b>66.8</b>	<b>49.6</b>	<b>635.9</b>
<b>Mt. ....</b>	<b>480</b>	<b>370</b>	<b>58.4</b>	<b>42.9</b>	<b>1.6</b>	<b>1.4</b>	<b>35.9</b>	<b>25.6</b>	<b>63.8</b>	<b>59.7</b>	<b>19.5</b>	<b>13.1</b>	<b>172.6</b>
MT .....	64	58	4.9	4.5	0.1	0.1	3.0	2.8	62.5	62.5	1.1	0.8	11.4
ID .....	49	43	4.0	3.2	0.1	0.1	2.4	1.8	60.6	56.8	1.1	0.9	10.8
WY .....	32	27	3.1	2.2	0.1	0.1	1.8	1.2	57.8	51.7	0.6	0.5	6.5
CO .....	96	79	14.1	10.8	0.4	0.3	9.2	6.5	65.2	60.6	5.3	3.5	45.9
NM .....	61	38	6.8	4.1	0.2	0.2	4.5	2.4	66.5	58.9	2.9	1.6	20.3
AZ .....	93	62	13.5	10.1	0.5	0.4	8.9	6.4	66.1	63.5	4.9	3.0	45.4
UT .....	52	41	6.0	4.5	0.2	0.2	3.6	2.6	59.8	56.5	2.5	2.1	20.1
NV .....	33	22	4.2	3.4	0.1	0.1	2.5	1.9	58.6	55.8	1.1	0.7	12.2
<b>Pac. ....</b>	<b>808</b>	<b>665</b>	<b>139.1</b>	<b>106.1</b>	<b>4.3</b>	<b>3.9</b>	<b>93.4</b>	<b>67.3</b>	<b>67.1</b>	<b>63.5</b>	<b>47.3</b>	<b>36.5</b>	<b>463.3</b>
WA .....	114	96	16.1	12.4	0.5	0.5	10.3	7.4	64.2	59.8	6.4	4.4	54.4
OR .....	78	71	10.3	8.0	0.3	0.3	6.5	4.5	62.7	56.4	3.5	3.2	34.6
CA .....	563	464	106.8	81.7	3.3	3.0	72.3	52.5	67.7	64.3	34.2	27.0	352.8
AK .....	27	16	2.0	1.2	0.1	(Z)	1.1	0.6	54.1	49.8	1.1	0.4	6.7
HI .....	26	18	4.0	2.8	0.1	0.1	3.3	2.3	82.3	83.2	2.2	1.6	14.8
<b>P. Rico ....</b>	<b>67</b>	<b>60</b>	<b>11.1</b>	<b>9.0</b>	<b>0.4</b>	<b>0.4</b>	<b>7.3</b>	<b>5.6</b>	<b>66.2</b>	<b>62.5</b>	<b>4.3</b>	<b>3.9</b>	<b>30.4</b>

<sup>1</sup> Z Less than 50,000. <sup>2</sup> For definition of community hospital, see footnotes 1 and 2 table 167. <sup>3</sup> Inpatients receiving treatment each day; excludes newborn. <sup>4</sup> Ratio of average daily census to every 100 beds. <sup>5</sup> Includes full-time equivalents of part-time personnel.

Source: American Hospital Association, Chicago, IL, *Hospital Statistics*, 1989. (Copyright.)

**No. 169. Hospital Use Rates, by Type of Hospital: 1972 to 1988**[See also *Historical Statistics, Colonial Times to 1970*, series B 384-387]

TYPE OF HOSPITAL	1972	1980	1982	1983	1984	1985	1986	1987	1988
<b>Community hospitals:</b> <sup>1</sup>									
Admissions per 1,000 population <sup>2</sup>	147	159	157	154	149	140	134	130	128
Admissions per bed	35	37	36	35	35	33	33	33	33
Average length of stay <sup>3</sup> (days)	7.9	7.6	7.6	7.6	7.3	7.1	7.1	7.2	7.2
Outpatient visits per admission	1.8	5.6	6.8	5.8	6.0	6.5	7.2	7.8	8.6
Outpatient visits per 1,000 population <sup>2</sup>	257	890	1,070	897	896	916	962	1,009	1,095
Surgical operations (million)	14.8	18.8	19.6	19.8	19.9	20.1	20.5	20.8	21.4
Number per admission	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7
<b>Non-federal psychiatric:</b>									
Admissions per 1,000 population	2.8	2.5	2.4	2.4	2.4	2.5	2.5	2.6	2.8
Days in hospital per 1,000 population <sup>2</sup>	661	295	264	249	234	224	217	214	209

<sup>1</sup> For definition of community hospitals, see footnotes 1 and 2 table 167. <sup>2</sup> Based on Bureau of the Census estimated resident population as of July 1. <sup>3</sup> Number of inpatient days divided by number of admissions.

Source: American Hospital Association, Chicago, IL, *Hospital Statistics*, annual (copyright); and unpublished data.

**No. 170. Average Cost to Community Hospitals per Patient, 1970 to 1988, and Average Semi-Private Room Charge, 1980 to 1988**

[In dollars, except percent. Covers non-Federal short-term general or special hospitals (excluding psychiatric or tuberculosis hospitals and, beginning 1975, hospital units of institutions). Total cost per patient based on total hospital expenses (payroll, employee benefits, professional fees, supplies, etc.). Data have been adjusted for outpatient visits]

TYPE OF EXPENSE AND HOSPITAL	1970	1975	1980	1983	1984	1985	1986	1987	1988
<b>Average cost per day, total</b>	<b>74</b>	<b>134</b>	<b>245</b>	<b>369</b>	<b>411</b>	<b>460</b>	<b>501</b>	<b>539</b>	<b>586</b>
Annual percent change	12.7	12.6	12.8	12.8	11.4	10.7	8.2	7.1	8.0
Nongovernmental nonprofit	75	133	246	374	415	463	504	544	591
For profit	71	133	257	385	438	500	552	585	649
State and local government	71	136	239	348	385	433	466	499	539
<b>Average cost per stay, total</b>	<b>805</b>	<b>1,030</b>	<b>1,851</b>	<b>2,789</b>	<b>2,995</b>	<b>3,245</b>	<b>3,533</b>	<b>3,850</b>	<b>4,207</b>
Nongovernmental nonprofit	615	1,040	1,902	2,869	3,073	3,307	3,590	3,914	4,273
For profit	486	876	1,676	2,518	2,749	3,033	3,342	3,617	4,023
State and local government	614	1,031	1,750	2,621	2,823	3,106	3,405	3,718	4,034
<b>Average semi-private room charge (Jan. 1)</b> <sup>1</sup>	<b>(NA)</b>	<b>(NA)</b>	<b>127</b>	<b>185</b>	<b>203</b>	<b>213</b>	<b>224</b>	<b>247</b>	<b>252</b>

NA Not available. <sup>1</sup> For explanation of annual percent change, see Guide to Tabular Presentation. Average change from prior year shown. For 1970, change from 1965. <sup>2</sup> Source: See footnote 1, table 171. Charge for 1989 was \$262.

Source: Except as noted, American Hospital Association, Chicago, IL, *Hospital Statistics*, annual (copyright); and unpublished data.

**No. 171. Average Daily Hospital Room Charges, 1980 to 1990, and Average Cost to Community Hospitals per Patient, 1980 and 1988—States**

[In dollars. Average daily room charges cover non-governmental short-term general hospitals and represent average cost to patient for a semi-private room. See headline, table 170]

STATE	AVERAGE DAILY ROOM CHARGE <sup>1</sup>			AVERAGE COST PER DAY		AVERAGE COST PER STAY		STATE	AVERAGE DAILY ROOM CHARGE <sup>1</sup>			AVERAGE COST PER DAY		AVERAGE COST PER STAY	
	1980	1985	1990	1980	1988	1980	1988		1980	1985	1990	1980	1988	1980	1988
U.S. ....	127	212	315	245	586	1,851	4,207	MO. ....	107	185	259	230	578	1,848	4,288
AL. ....	96	161	225	209	506	1,459	3,471	MT. ....	113	201	294	160	354	1,321	3,312
AK. ....	189	295	407	408	961	2,276	5,616	NE. ....	100	155	208	194	414	1,526	4,093
AZ. ....	106	191	296	290	760	2,013	4,527	NV. ....	125	243	285	343	763	2,201	4,840
AR. ....	86	140	180	185	463	1,172	2,994	NH. ....	125	200	321	203	546	1,432	3,685
CA. ....	161	281	452	362	804	2,395	5,061	NJ. ....	146	183	271	212	510	1,850	3,774
CO. ....	124	211	326	247	627	1,760	4,432	NM. ....	115	193	252	263	670	1,549	3,793
CT. ....	127	206	434	271	685	2,039	5,065	NY. ....	157	228	415	257	530	2,469	5,070
DE. ....	125	214	385	238	628	1,937	4,391	NC. ....	87	139	215	187	487	1,397	3,538
DC. ....	170	274	325	358	811	3,189	6,150	ND. ....	93	173	236	177	377	1,528	3,869
FL. ....	109	181	277	247	646	1,803	4,506	OH. ....	139	228	307	241	612	1,907	4,173
GA. ....	92	150	197	218	516	1,380	3,488	OK. ....	101	162	224	239	547	1,527	3,632
HI. ....	127	231	349	245	517	1,868	4,651	OR. ....	133	225	375	277	703	1,671	3,833
ID. ....	110	197	259	208	457	1,251	3,151	PA. ....	132	255	408	234	583	1,947	4,370
IL. ....	144	248	326	277	633	2,183	4,646	RI. ....	138	206	365	260	546	2,162	4,396
IN. ....	107	184	271	214	572	1,620	3,750	SC. ....	80	145	212	186	474	1,367	3,347
IA. ....	107	179	220	199	432	1,465	3,547	SD. ....	96	161	206	189	360	1,265	3,214
KS. ....	104	183	267	207	448	1,592	3,498	TN. ....	91	140	198	204	517	1,427	3,545
KY. ....	92	175	266	189	485	1,268	3,108	TX. ....	91	159	228	226	628	1,491	3,884
LA. ....	89	154	220	233	605	1,492	3,784	UT. ....	112	173	338	271	737	1,462	3,879
ME. ....	124	208	330	217	475	1,707	3,808	VT. ....	116	209	374	183	491	1,472	3,588
MD. ....	119	186	277	251	579	2,136	3,997	VA. ....	101	165	228	211	529	1,647	3,690
MA. ....	151	229	404	294	671	2,578	5,225	WA. ....	125	229	346	262	708	1,502	3,984
MI. ....	151	267	338	267	644	2,087	4,712	WV. ....	110	166	240	195	494	1,393	3,319
MN. ....	105	187	281	203	458	1,818	4,103	WI. ....	104	166	223	218	484	1,765	3,583
MS. ....	67	113	162	174	375	1,178	2,593	WY. ....	98	173	242	242	416	1,189	3,107

<sup>1</sup> As of January. Source: Health Insurance Association of America, Washington, DC, *Source Book of Health Insurance Data, 1990*, and *Survey of Hospital Semi-Private Room Charges*, annual.

Source: Except as noted, American Hospital Association, Chicago, IL, *Hospital Statistics*, annual (copyright); and unpublished data.



**No. 172. Hospitals—Selected Financial Measures: 1980 to 1988**

[For definition of short-term and community hospitals, see footnotes 1 and 2, table 167]

TYPE OF HOSPITAL AND SELECTED MEASURE	Unit	1980	1983	1984	1985	1986	1987	1988
<b>Hospitals:</b>								
Total	Number	6,965	6,888	6,872	6,872	6,841	6,821	6,780
Non-Federal	Number	6,606	6,546	6,531	6,529	6,499	6,479	6,438
Short-term	Number	5,904	5,843	5,814	5,784	5,728	5,659	5,579
Community	Number	5,830	5,783	5,759	5,732	5,678	5,611	5,533
<b>Full-time equivalent personnel:</b>								
Total	1,000	3,492	3,707	3,630	3,625	3,647	3,742	3,840
Non-Federal	1,000	3,213	3,422	3,339	3,326	3,351	3,445	3,545
Short-term	1,000	2,879	3,102	3,023	3,003	3,032	3,120	3,209
Community	1,000	2,873	3,098	3,017	2,997	3,025	3,114	3,205
<b>Total expenses:</b>								
Total	Mil. dol.	91,886	136,315	144,114	153,327	165,194	178,662	196,704
Non-Federal	Mil. dol.	84,017	125,636	132,958	140,991	152,061	164,994	182,103
Short-term	Mil. dol.	76,970	116,632	123,550	130,700	140,907	152,909	168,942
Community	Mil. dol.	78,851	116,438	123,336	130,499	140,654	152,585	168,723
<b>Payroll expenses:</b>								
Total	Mil. dol.	46,970	69,469	72,777	76,119	80,449	85,676	93,791
Non-Federal	Mil. dol.	42,043	62,722	65,673	68,270	72,185	77,158	84,801
Short-term	Mil. dol.	37,458	57,042	59,805	61,953	65,384	69,993	76,912
Community	Mil. dol.	37,379	56,919	59,674	61,828	65,238	69,831	76,806
<b>REVENUE—COMMUNITY HOSPITALS</b>								
Net total revenue	Mil. dol.	79,739	121,498	129,952	138,882	148,549	159,309	174,558
Net patient revenue	Mil. dol.	73,819	113,453	121,265	129,722	137,939	147,326	161,082
Inpatient gross revenue	Mil. dol.	77,818	125,925	133,539	136,893	146,704	160,170	179,065
Per patient day	Dollars	285	461	520	579	639	706	789
Outpatient gross revenue	Mil. dol.	11,671	19,216	22,281	26,359	31,698	37,928	45,769
Per patient visit	Dollars	58	91	105	121	137	154	170

Source: American Hospital Association, Chicago, IL, *Hospital Statistics*, annual. (Copyright.)**No. 173. Hospital Utilization Rates, by Sex, 1970 to 1988, and Selected Characteristics, 1988**

[Represents estimates of inpatients discharged from noninstitutional, short-stay hospitals, exclusive of Federal hospitals. Excludes newborn. Based on sample data collected from the National Hospital Discharge Survey, a sample survey of hospital records of patients discharged in year shown; subject to sampling variability. For methodological details, see source. For composition of regions, see fig. 1, inside front cover]

SELECTED CHARACTERISTIC	Patients discharged (1,000)	PATIENTS DISCHARGED PER 1,000 PERSONS <sup>1</sup>			DAYS OF CARE PER 1,000 PERSONS <sup>1</sup>			AVERAGE STAY (days)			Beds used per day <sup>2</sup>
		Total	Male	Female	Total	Male	Female	Total	Male	Female	
1970	29,127	144	118	169	1,122	982	1,251	8.0	8.7	7.6	321
1980	37,832	168	139	194	1,217	1,068	1,356	7.3	7.7	7.0	337
1983	38,783	167	139	193	1,155	1,024	1,278	6.9	7.4	6.6	316
1984	37,162	159	132	184	1,044	924	1,155	6.6	7.0	6.3	286
1985	35,058	148	124	171	954	849	1,053	6.5	6.9	6.2	261
1986	34,256	143	121	164	913	817	1,003	6.4	6.8	6.1	250
1987	33,387	138	116	159	889	806	968	6.4	6.9	6.1	244
<b>1988,<sup>3</sup> total</b>	<b>31,146</b>	<b>128</b>	<b>107</b>	<b>147</b>	<b>834</b>	<b>757</b>	<b>907</b>	<b>6.5</b>	<b>7.1</b>	<b>6.2</b>	<b>228</b>
<b>Age:</b>											
Under 1 year old	774	201	224	176	1,335	1,505	1,155	6.7	6.7	6.6	368
1 to 4 years old	778	53	61	45	192	218	164	3.6	3.6	3.6	53
5 to 14 years old	1,058	31	33	28	147	163	130	4.8	4.9	4.7	40
15 to 24 years old	3,731	102	51	152	437	326	548	4.3	6.4	3.6	120
25 to 34 years old	5,019	117	57	175	524	362	682	4.5	6.4	3.9	144
35 to 44 years old	3,184	91	76	103	514	474	540	5.6	6.2	5.2	141
45 to 64 years old	6,456	141	146	135	955	993	921	6.8	6.8	6.8	262
65 to 74 years old	4,718	264	291	242	2,222	2,383	2,093	8.4	8.2	8.7	609
75 years old and over	5,428	435	485	408	4,045	4,347	3,879	9.3	9.0	9.5	1,108
<b>Region:</b>											
Northeast	7,078	140	123	156	1,081	994	1,160	7.7	8.1	7.4	296
Midwest	7,832	131	113	149	839	756	918	6.4	6.7	6.2	230
South	10,845	129	105	152	808	715	894	6.2	6.8	5.9	221
West	5,391	108	87	127	626	593	657	5.8	6.8	5.2	172

<sup>1</sup> Based on Bureau of the Census estimated civilian population as of July 1. <sup>2</sup> Average daily number of beds occupied per 100,000 civilian population. <sup>3</sup> Comparisons of 1988 data with data for earlier years should be made with caution as estimates of change between 1987 and 1988 may reflect improvements in the 1988 design rather than true changes in hospital use.

Source: U.S. National Center for Health Statistics, *Vital Health Statistics*, series 13, and unpublished data.

**No. 174. Facilities and Services Provided by Community Hospitals: 1988**

[Community hospitals are non-federal short-stay (average length of stay fewer than 30 days) excluding hospital units of institutions. Data are for hospitals responding to that portion of the questionnaire—5,244 of a total of 5,533 community hospital]

SERVICE	Hospitals with service	Percent of total	SERVICE	Hospitals with service	Percent of total
Alcoholism/chemical dependency outpatient services	990	17.9	Psychiatric services:		
Birthing rooms	3,322	60.0	Emergency	1,685	30.5
Blood bank	3,675	66.4	Outpatient	929	16.8
Cardiac catheterization	1,229	22.2	Radiation therapy:		
Computed tomographic (CT) scanner	3,347	60.5	X-ray	986	17.8
Emergency department	4,935	89.2	Megavoltage (mill. volts)	963	17.4
Extracorporeal shock wave lithotripter	255	4.6	Radio isotope implants	1,257	22.7
Genetic counseling services	471	8.5	Radio isotope facilities:		
Geriatric services	2,844	51.4	Diagnostic	3,206	57.9
Hemodialysis	1,405	25.4	Therapeutic	1,287	23.3
Histopathology laboratory	3,386	61.2	Rehabilitation outpatient department	2,408	43.5
Home health services	1,809	32.7	Reproductive health services	1,931	34.9
Hospice	767	13.9	Therapy services:		
Hospital auxiliary	4,240	76.6	Occupational therapy services	2,428	43.9
Magnetic resonance imaging (MRI)	656	11.9	Physical therapy services	4,486	81.1
Open-heart surgery facilities	789	14.3	Recreational therapy services	1,540	27.8
Organ tissue transplant	392	7.1	Respiratory therapy services	4,724	85.4
Outpatient department	4,064	73.5	Trauma center	703	12.7
Outpatient surgery services	4,989	90.2	Ultrasound	4,396	79.5
Patient representative services	2,732	49.4	Volunteer services department	3,477	62.8
			Women's center	749	13.5

Source: American Hospital Association, Chicago, IL, *Hospital Statistics*, 1989. (Copyright.)

**No. 175. Hospital Discharges and Days of Care, by Sex, Age, and Diagnosis: 1988**

[See headnote, table 173]

AGE AND FIRST-LISTED DIAGNOSIS	DISCHARGES		Days of care per 1,000 persons <sup>1</sup>	Average stay (days)	AGE AND FIRST-LISTED DIAGNOSIS	DISCHARGES		Days of care per 1,000 persons <sup>1</sup>	Average stay (days)
	Num- ber (1,000)	Per 1,000 persons <sup>1</sup>				Num- ber (1,000)	Per 1,000 persons <sup>1</sup>		
MALE					FEMALE				
All ages <sup>2</sup>	12,642	106.9	756.5	7.1	All ages <sup>2</sup>	18,504	147.0	907.4	6.2
Diseases of heart	1,955	16.5	113.7	6.9	Delivery	3,781	30.0	87.6	2.9
Malignant neoplasms	772	6.5	61.3	9.4	Diseases of heart	1,686	13.4	98.8	7.4
Fracture, all sites	506	4.3	30.7	7.2	Malignant neoplasms	898	7.1	66.9	9.4
Pneumonia, all forms	472	4.0	33.1	8.3	Fracture, all sites	508	4.0	39.1	9.7
Psychoses	341	2.9	41.1	14.3	Pneumonia, all forms	452	3.6	30.9	8.6
Under 15 years <sup>2</sup>	1,486	54.6	275.5	5.0	Under 15 years <sup>2</sup>	1,125	43.4	213.6	4.9
Bronchitis, emphysema <sup>3</sup>	111	4.1	11.0	2.7	Pneumonia, all forms	79	3.1	14.9	4.9
Pneumonia, all forms	105	3.9	16.9	4.4	Bronchitis, emphysema	66	2.5	7.3	2.9
Acute respiratory infection	103	3.8	11.7	3.1	Acute respiratory infection	65	2.5	8.9	3.5
Congenital anomalies	95	3.5	18.7	5.4	Chronic disease of tonsils and adenoids	61	2.4	2.5	1.1
Fracture, all sites	71	2.6	13.5	5.2	Congenital anomalies	55	2.1	14.5	6.8
15-44 years <sup>2</sup>	3,485	61.5	388.2	6.3	15-44 years <sup>2</sup>	8,448	145.6	595.6	4.1
Fracture, all sites	257	4.5	27.1	6.0	Delivery	3,768	64.9	189.4	2.9
Psychoses	219	3.9	51.9	13.4	Pregnancy w/abortive outcome	264	4.6	10.5	2.3
Diseases of heart	159	2.8	16.1	5.7	Psychoses	210	3.6	57.7	15.9
Intervertebral disc disorders	139	2.5	12.6	5.1	Benign neoplasms	176	3.0	13.2	4.4
Lacerations and open wounds	124	2.2	9.4	4.3	Cholelithiasis	157	2.7	13.3	4.9
45-64 years <sup>2</sup>	3,221	146.4	993.2	6.8	45-64 years <sup>2</sup>	3,235	135.1	920.5	6.8
Diseases of heart	751	34.1	210.1	6.2	Diseases of heart	411	17.2	106.5	6.2
Malignant neoplasms	215	9.8	95.1	9.7	Malignant neoplasms	351	14.7	122.2	8.3
Cerebrovascular diseases	93	4.2	35.7	8.5	Benign neoplasms	116	4.9	24.8	5.1
Intervertebral disc disorders	86	3.9	21.8	5.6	Psychoses	99	4.2	62.0	14.9
Fracture, all sites	79	3.6	26.6	7.4	Cholelithiasis	97	4.1	24.2	6.0
65 years old and older <sup>2</sup>	4,450	360.3	3,083.5	8.6	65 years old and older <sup>2</sup>	5,696	316.2	2,892.3	9.1
Diseases of heart	1,038	84.0	635.7	7.6	Diseases of heart	1,185	65.8	526.6	7.9
Malignant neoplasms	457	37.0	351.8	9.5	Malignant neoplasms	422	23.4	258.5	11.0
Pneumonia, all forms	248	20.1	200.4	10.0	Cerebrovascular disease	352	19.6	193.0	9.9
Cerebrovascular disease	226	18.3	191.9	10.5	Fracture, all sites	300	16.6	192.7	11.6
Hyperplasia of prostate	191	15.4	93.0	6.0	Pneumonia, all forms	242	13.4	133.7	10.3

<sup>1</sup> See footnote 1, table 173. <sup>2</sup> Includes other first-listed diagnoses, not shown separately. <sup>3</sup> Includes asthma.

Source: U.S. National Center for Health Statistics, *Health, United States*, 1989, and unpublished data.

**No. 176. Procedures for Inpatients Discharged From Short-Stay Hospitals: 1980 to 1988**

[Excludes newborn infants and discharges from Federal hospitals. See headnote, table 173]

SEX AND TYPE OF PROCEDURE	NUMBER OF PROCEDURES (1,000)					RATE PER 1,000 POPULATION <sup>1</sup>				
	1980	1985	1986	1987	1988 <sup>2</sup>	1980	1985	1986	1987	1988 <sup>2</sup>
<b>BOTH SEXES</b>										
<b>Surgical procedures, total <sup>3</sup></b>	<b>24,494</b>	<b>24,799</b>	<b>25,041</b>	<b>25,655</b>	<b>25,625</b>	<b>108.6</b>	<b>104.6</b>	<b>104.6</b>	<b>106.2</b>	<b>105.0</b>
Procedures to assist delivery	2,391	2,494	2,605	2,938	3,131	10.6	10.5	10.9	12.2	12.8
Cesarean section	619	877	906	953	933	2.7	3.7	3.8	3.9	3.8
Cardiac catheterization	348	681	775	866	930	1.5	2.9	3.2	3.6	3.8
Reduction of fracture	605	681	673	685	639	2.7	2.9	2.8	2.8	2.6
Repair of current obstetric laceration	355	548	612	660	690	1.6	2.3	2.6	2.7	2.8
Hysterectomy	649	670	644	655	578	2.9	2.8	2.7	2.7	2.4
<b>Diagnostic and other non-surgical procedures <sup>4</sup></b>	<b>6,918</b>	<b>11,961</b>	<b>12,959</b>	<b>13,463</b>	<b>13,567</b>	<b>30.7</b>	<b>50.5</b>	<b>54.1</b>	<b>55.7</b>	<b>55.6</b>
CAT scan <sup>5</sup>	306	1,378	1,531	1,646	1,613	1.4	5.8	6.4	6.8	6.6
Diagnostic ultrasound	318	1,234	1,411	1,596	1,562	1.4	5.2	5.9	6.6	6.4
Angiocardiology and arteriography	569	1,117	1,285	1,448	1,624	2.5	4.7	5.4	6.0	6.7
Radioisotope scan	525	838	851	759	704	2.3	3.5	3.6	3.1	2.9
Cystoscopy	867	645	622	593	542	3.8	2.7	2.6	2.5	2.2
<b>MALE</b>										
<b>Surgical procedures, total <sup>3</sup></b>	<b>8,505</b>	<b>8,805</b>	<b>8,960</b>	<b>9,073</b>	<b>9,069</b>	<b>78.1</b>	<b>76.8</b>	<b>77.4</b>	<b>77.6</b>	<b>76.7</b>
Cardiac catheterization	228	439	495	533	598	2.1	3.8	4.3	4.6	5.1
Prostatectomy	335	367	367	410	358	3.1	3.2	3.2	3.5	3.0
Reduction of fracture	325	339	350	367	337	3.0	3.0	3.0	3.1	2.8
Repair of inguinal hernia	483	370	293	290	261	4.4	3.2	2.5	2.5	2.2
<b>Diagnostic and other non-surgical procedures <sup>4</sup></b>	<b>3,386</b>	<b>5,889</b>	<b>6,359</b>	<b>6,643</b>	<b>6,665</b>	<b>31.1</b>	<b>51.4</b>	<b>54.9</b>	<b>56.8</b>	<b>56.4</b>
Angiocardiology and arteriography	355	693	771	868	995	3.3	6.0	6.7	7.4	8.4
CAT scan <sup>5</sup>	152	671	747	814	775	1.4	5.9	6.5	7.0	6.6
<b>FEMALE</b>										
<b>Surgical procedures, total <sup>3</sup></b>	<b>15,989</b>	<b>15,994</b>	<b>16,081</b>	<b>16,583</b>	<b>16,555</b>	<b>137.1</b>	<b>130.6</b>	<b>130.2</b>	<b>133.0</b>	<b>131.5</b>
Procedures to assist delivery	2,391	2,494	2,605	2,938	3,131	20.5	20.4	21.1	23.6	24.9
Cesarean section	619	877	906	953	933	5.3	7.2	7.3	7.6	7.4
Repair of current obstetric laceration	355	548	612	660	690	3.0	4.5	5.0	5.3	5.5
Hysterectomy	649	670	644	655	578	5.6	5.5	5.2	5.3	4.6
<b>Diagnostic and other non-surgical procedures <sup>4</sup></b>	<b>3,532</b>	<b>6,072</b>	<b>6,601</b>	<b>6,820</b>	<b>6,902</b>	<b>30.3</b>	<b>49.6</b>	<b>53.4</b>	<b>54.7</b>	<b>54.8</b>
Diagnostic ultrasound	204	756	865	981	963	1.7	6.2	7.0	7.9	7.6
CAT scan <sup>5</sup>	154	707	784	833	838	1.3	5.8	6.3	6.7	6.7

<sup>1</sup> Based on Bureau of the Census estimated civilian population as of July 1. <sup>2</sup> Comparisons of 1988 data with data for earlier years should be made with caution as estimates of change may reflect improvements in the 1988 design rather than true changes in hospital use. <sup>3</sup> Includes other types of surgical procedures not shown separately. <sup>4</sup> Excluding skull, nose, and jaw. <sup>5</sup> Includes other non-surgical procedures not shown separately. <sup>6</sup> Computerized axial tomography. <sup>7</sup> Using contrast material.

Source: U.S. National Center for Health Statistics, *Vital and Health Statistics*, series 13, and unpublished data.**No. 177. Organ Transplants and Grafts: 1981 to 1989**

[As of end of year. Based on reports of procurement programs and transplant centers in the United States]

PROCEDURE	NUMBER OF PROCEDURES							NUMBER OF CENTERS		Number of people waiting, 1989	One-year survival rates, 1988 (percent)
	1981	1985	1986	1987	1988	1989	Cumulative through 1989 <sup>1</sup>	1981	1988		
<b>Transplant:</b>											
Heart	62	719	1,368	1,512	1,647	1,673	7,525	8	135	1,324	80.0
Liver	26	602	924	1,199	1,680	2,160	(NA)	1	70	830	65.0
Kidney	4,883	7,695	976	8,967	9,123	8,890	95,888	157	210	16,363	<sup>2</sup> 91.0, 96.0
Heart-lung	5	30	45	41	74	67	292	(NA)	48	240	55.0
Lung	-	2	-	11	31	89	(NA)	(NA)	(NA)	94	45
Pancreas/islet cell	(NA)	130	140	180	243	413	(NA)	(NA)	57	322	45.0
Cornea grafts	15,500	26,300	28,000	35,930	36,900	(NA)	<sup>3</sup> 322,830	(NA)	<sup>4</sup> 106	(NA)	<sup>5</sup> 95.0
Bone grafts	(NA)	(NA)	200,000	250,000	300,000	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Skin grafts	(NA)	(NA)	2,000	5,000	5,200	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Heart-valve grafts	(NA)	(NA)	(NA)	(NA)	30,000	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

- Represents zero. NA Not available. <sup>1</sup> Total number of procedures performed, including years not shown. <sup>2</sup> 91.0 percent with kidney from a deceased donor, 96.0 percent with kidney from a living related donor. Cumulative through 1988. <sup>3</sup> Eye banks. <sup>4</sup> Success rate.

Source: U.S. Department of Health and Human Services, Public Health Service, Division of Organ Transplantation, American Association of Tissue Banks, McLean, VA, and Eye Bank Association of America, Washington, DC and unpublished data.

### No. 178. Patients Discharged From Hospitals—Principal Source of Expected Payment, by Selected Characteristic: 1988

[Covers non-Federal short-stay hospitals. Discharges excludes newborn infants. Based on the National Hospital Discharge Survey. See headnote, table 173. For composition of regions, see fig 1, inside front cover]

CHARACTERISTIC	Total dis- charges <sup>1</sup> (1,000)	PRINCIPAL SOURCE OF EXPECTED PAYMENT— PERCENT DISTRIBUTION							
		Private in- surance	Government				Self-pay	No charge	Other <sup>2</sup>
			Medi- care	Medi- caid	Worker's compen- sation	Other			
AGE									
All ages . . . . .	31,146	41.0	34.4	9.5	1.5	2.0	6.3	0.7	2.7
Under 15 years old . . . . .	2,610	54.8	3.9	23.1	(X)	3.2	8.1	1.2	3.3
15-44 years old . . . . .	11,934	57.4	3.3	14.9	2.7	2.7	10.9	1.1	3.9
45-64 years old . . . . .	6,456	63.4	13.5	7.4	4.8	2.5	5.2	0.7	3.0
65 years old and over . . . . .	10,146	4.0	92.2	0.9	0.2	0.4	0.9	( <sup>3</sup> )	0.9
SEX									
Male, all ages . . . . .	12,642	38.8	38.1	6.9	2.9	2.1	6.4	0.7	2.5
Under 15 years old . . . . .	1,486	54.2	4.1	23.2	(X)	3.5	8.2	1.2	3.2
15-44 years old . . . . .	3,485	54.0	5.7	9.0	7.0	3.0	13.2	1.1	3.8
45-64 years old . . . . .	3,221	62.4	15.7	5.3	3.3	2.6	5.7	0.7	3.0
65 years old and over . . . . .	4,450	4.7	91.1	0.9	0.3	0.5	0.9	( <sup>3</sup> )	1.0
Female, all ages . . . . .	18,504	42.6	31.9	11.3	0.6	1.9	6.2	0.7	2.9
Under 15 years old . . . . .	1,125	55.5	3.7	22.9	(X)	2.7	8.1	1.2	3.5
15-44 years old . . . . .	8,448	58.8	2.4	17.3	0.9	2.6	9.9	1.0	4.1
45-64 years old . . . . .	3,235	64.5	11.3	9.8	1.0	2.5	5.3	0.6	3.2
65 years old and over . . . . .	5,696	3.4	93.0	0.9	0.2	0.3	0.8	( <sup>3</sup> )	0.7
RACE									
White . . . . .	23,322	43.1	37.5	6.6	1.6	1.6	5.3	0.4	2.2
All other . . . . .	5,008	31.6	23.5	22.6	1.1	3.2	9.9	2.0	3.2
Not stated . . . . .	2,817	41.0	28.0	9.9	1.8	2.8	7.5	0.7	5.7
GEOGRAPHIC REGION									
Northeast . . . . .	7,078	41.1	35.1	10.8	1.8	0.6	6.2	( <sup>3</sup> )	3.4
Midwest . . . . .	7,832	42.6	35.4	9.9	1.2	1.7	5.3	0.3	2.5
South . . . . .	10,845	40.5	34.8	8.8	1.7	2.0	7.3	0.7	1.4
West . . . . .	5,391	39.9	31.4	8.6	1.3	3.9	5.6	1.8	4.7

X Not applicable. <sup>1</sup> Includes discharges for whom expected source of payment was unknown. <sup>2</sup> Includes all other nonprofit source of payment such as church, welfare, or United Way. <sup>3</sup> Figure does not meet standards of reliability or precision.

Source: U.S. National Center for Health Statistics, unpublished data.

### No. 179. Nursing and Related Care Facilities: 1971 to 1989

ITEM	Unit	1971	1973	1976	1978	1980	1982	1984	1986	1988	1989
<b>Nursing and related care:</b> <sup>1</sup>											
Facilities . . . . .	Number	22,004	21,834	20,468	<sup>2</sup> 18,722	<sup>3</sup> 23,065	<sup>4</sup> 25,849	(NA)	<sup>4</sup> 25,648	(NA)	(NA)
Beds . . . . .	1,000	1,202	1,328	1,415	<sup>2</sup> 1,349	<sup>3</sup> 1,537	<sup>4</sup> 1,642	(NA)	<sup>4</sup> 1,709	(NA)	(NA)
Resident patients . . . . .	1,000	1,076	1,198	1,293	<sup>2</sup> 1,240	<sup>3</sup> 1,396	<sup>4</sup> 1,493	(NA)	<sup>4</sup> 1,553	(NA)	(NA)
Employees, full-time . . . . .	1,000	568	636	653	<sup>2</sup> 664	<sup>3</sup> 798	(NA)	(NA)	(NA)	(NA)	(NA)
Per 1,000 patients . . . . .	Rate	528	531	505	<sup>2</sup> 535	<sup>3</sup> 571	(NA)	(NA)	(NA)	(NA)	(NA)
<b>Skilled nursing facilities:</b> <sup>5</sup>											
Beds . . . . .	Number	4,277	3,970	3,922	4,745	5,052	5,408	5,952	6,897	7,507	8,198
Per 1,000 Medicare enrollees <sup>6</sup> . . . . .	Rate	307	287	309	408	436	488	530	(NA)	456	491
		15.1	13.5	13.7	17.3	17.7	19.1	19.9	(NA)	15.9	16.8

NA Not available. <sup>1</sup> Covers nursing homes with 3 beds or more and all other places providing some form of nursing, personal, or domiciliary care; standards vary widely among States. Includes skilled nursing facilities. 1971-1984 based on National Master Facility Inventory. Some changes in data beginning 1976 may be due to dependence on State collection. 1986 data based on the 1986 Inventory of Long Term Care Places. Data may not be strictly comparable with previous years. <sup>2</sup> Includes 1976 data for California, District of Columbia, New York, and North Carolina. <sup>3</sup> Excludes hospital-based nursing homes and includes 1978 data for Alaska and South Dakota. <sup>4</sup> Excludes hospital-based nursing homes. <sup>5</sup> Source: Through 1976, U.S. Social Security Administration, *Health Insurance Statistics* and unpublished data. Beginning 1978, U.S. Health Care Financing Administration, *Medicare Participating Providers and Suppliers of Health Services, 1980*; and unpublished data. Covers facilities and beds certified for participation under Medicare as of mid-year. Includes facilities which have transfer agreements with one or more participating hospitals, and are engaged primarily in providing skilled nursing care and related services for the rehabilitation of injured, disabled, or sick persons. <sup>6</sup> Based on number of aged persons residing in United States who were enrolled in the Medicare hospital insurance program as of July 1 of year stated.

Source: Except as noted, U.S. National Center for Health Statistics, *Health Resources Statistics*, annual through 1976 and 1978; 1982 and 1986, *Advance Data from Vital and Health Statistics*, No. 111 and No. 147, and unpublished data.

**No. 180. Nursing and Related Care Facilities—Selected Characteristics: 1986**

[Excludes hospital-based nursing homes. Based on the 1986 Inventory of Long-Term Care Places. For composition of regions, see fig. 1, inside front cover]

CHARACTERISTIC	TOTAL FACILITIES				NURSING HOMES <sup>1</sup>				RESIDENTIAL FACILITIES <sup>2</sup>			
	Homes	Beds (1,000)	Average number of beds	Occu-pancy rate	Homes	Beds (1,000)	Average number of beds	Occu-pancy rate	Homes	Beds (1,000)	Average number of beds	Occu-pancy rate
<b>Total</b> . . . . .	<b>25,646</b>	<b>1709.2</b>	<b>67</b>	<b>91.0</b>	<b>16,388</b>	<b>1,507.4</b>	<b>92</b>	<b>91.7</b>	<b>9,258</b>	<b>201.8</b>	<b>22</b>	<b>85.4</b>
Northeast . . . . .	4,863	373.8	77	93.7	2,948	317.5	108	94.8	1,915	56.3	29	87.6
Midwest . . . . .	7,474	539.8	72	90.7	5,393	506.7	94	91.2	2,081	33.1	16	84.4
South . . . . .	7,311	516.5	71	90.1	5,008	464.0	93	90.5	2,303	52.5	23	86.4
West . . . . .	5,998	279.1	47	89.4	3,039	219.2	72	91.1	2,959	59.9	20	83.1
Government . . . . .	1,045	106.6	102	93.0	789	99.7	126	93.6	256	6.8	27	85.3
Proprietary . . . . .	20,223	1235.4	61	90.5	12,336	1,079.0	87	91.3	7,887	156.5	20	85.1
Nonprofit . . . . .	4,378	367.2	84	91.8	3,263	328.7	101	92.4	1,115	38.5	35	86.5
3 to 9 beds . . . . .	5,918	32.6	6	82.8	1,340	7.2	5	82.6	4,578	25.5	6	82.9
10 to 24 beds . . . . .	3,695	58.1	16	86.3	1,069	18.2	17	87.6	2,626	39.9	15	85.7
25 to 49 beds . . . . .	3,135	115.5	37	89.5	2,061	77.8	38	90.8	1,074	37.6	35	86.8
50 to 74 beds . . . . .	3,470	208.7	60	92.2	3,037	182.7	60	92.8	433	26.0	60	87.6
75 to 99 beds . . . . .	2,526	221.6	88	92.1	2,335	205.4	88	92.5	191	16.3	85	86.5
100 to 199 beds . . . . .	5,755	756.2	131	91.1	5,468	717.6	131	91.5	287	38.6	135	84.8
200 to 299 beds . . . . .	858	198.2	231	90.8	804	186.1	231	91.3	54	12.1	228	82.9
300 to 499 beds . . . . .	239	84.9	355	91.2	225	80.1	356	92.1	14	4.8	340	76.9
500 beds or more . . . . .	50	33.4	667	95.0	49	32.3	659	94.8	1	1.1	1050	99.7
Certification:												
Medicare or Medicaid (skilled nursing facility) . . . . .	8,045	984.1	122	92.9	8,045	984.1	122	92.9	-	-	-	-
Medicaid (intermediate care facility) <sup>3</sup> . . . . .	5,375	411.5	77	90.3	5,375	411.5	77	90.3	-	-	-	-
Not certified nursing home . . . . .	2,968	111.8	38	86.3	2,968	111.8	38	86.3	-	-	-	-
Residential facilities . . . . .	9,258	201.8	22	85.4	(X)	(X)	(X)	(X)	9,258	201.8	22	85.4

- Represents zero. X Not applicable. <sup>1</sup> These facilities have three or more beds and provide to adults who require it either (a) nursing care or (b) personal care (such as help with bathing, eating, using toilet facilities, or dressing) and/or supervision over such activities as money management, walking, and shopping. <sup>2</sup> These facilities offer no nursing services and provide only personal care or supervisory care. <sup>3</sup> Facilities certified as both skilled nursing facilities and intermediate care facilities have been classified as skilled nursing facilities.

Source: U.S. National Center for Health Statistics, *Advance Data From Vital and Health Statistics*, No. 147, and unpublished data.

**No. 181. Residential Facilities for Persons with Mental Retardation: 1970 to 1988**

[For years ending June 30. Persons with mental retardation refers to those who have been so designated by State governments in the process of placing them into residential facilities]

ITEM	STATE OPERATED FACILITIES <sup>1</sup>					PRIVATE FACILITIES <sup>3</sup>			
	1970	1980 <sup>2</sup>	1985 <sup>2</sup>	1987 <sup>2</sup>	1988 <sup>2</sup>	1977	1982	1987	1988
Number of facilities <sup>4</sup> . . . . .	190	394	881	1,079	1,177	10,219	14,605	32,997	35,365
Resident patients, beginning of year . . . . .	189,956	148,734	117,101	107,665	102,390	(NA)	(NA)	(NA)	(NA)
Admissions <sup>5</sup> . . . . .	14,985	14,064	7,713	7,027	6,928	22,363	22,431	24,598	(NA)
Deaths in institutions . . . . .	3,496	2,142	1,537	1,582	1,373	891	920	1,875	(NA)
Live releases <sup>6</sup> . . . . .	14,702	16,225	10,310	9,963	7,683	12,384	12,999	20,056	(NA)
Resident patients, end of year . . . . .	186,743	140,230	112,183	102,539	99,327	89,120	115,032	155,935	171,275
Rate per 100,000 population . . . . .	92.5	62.2	46.8	42.0	40.4	41.2	49.7	64.1	69.7
Average daily resident patients . . . . .	187,897	136,304	111,791	102,075	99,095	(NA)	(NA)	(NA)	(NA)
Maintenance expenditures per day per average daily resident patient (dollars) <sup>8</sup> . . . . .	13	68	122	149	157	<sup>9</sup> 19	<sup>9</sup> 37	(NA)	(NA)

NA Not available. <sup>1</sup> Data as submitted by many State agencies; figures reflect some estimates. Resident patients at the end of a year do not equal the number at the beginning of a succeeding year. Includes estimates for underreporting. <sup>2</sup> Includes data for 142 facilities in 1980, 121 facilities in 1985, 144 in 1987 and 122 in 1988, operated as mental hospitals or other care facilities and which have mentally retarded residents. The average daily number of mentally retarded residents in these facilities was 8,240 in 1980, 5,602 in 1985, 2,837 in 1987 and 1,933 in 1988. <sup>3</sup> A privately-operated living quarter which provides 24-hour, 7-days-a-week responsibility for room, board, and supervision of mentally retarded persons. Excludes single-family homes providing services to a relative; and nursing homes, boarding homes and foster homes not formally licensed or contracted as mental retardation service providers. <sup>4</sup> Beginning 1987, reflects the development of a large number of community bases State-operated facilities which were developed in the early 1980's. <sup>5</sup> Includes readmissions and excludes transfers. 1987 is based on the estimated admission rates for facilities surveyed in the National Medical Expenditure Survey applied to the 1987 resident patient total. Excludes people entering newly opened facilities. <sup>6</sup> 1970, represents excess of patients released alive from hospital over those returning to hospital. Beginning 1980, total live releases. <sup>7</sup> Based on Bureau of the Census estimated civilian population as of July 1. <sup>8</sup> Reporting facilities only; includes salaries and wages, purchased provisions, fuel, light, water, etc. <sup>9</sup> Represents average daily reimbursement rate per resident.

Source: State-operated facilities: 1970, U.S. Office of Human Development Services, *Residents in Public Institutions for the Mentally Retarded*, annual, and unpublished data; 1980 through 1988, Center for Residential and Community Services (CRCS), University of Minnesota, Minneapolis, MN. White, Lakin, Hill, Wright, and Bruininks, Report No. 30; Private facilities: CRCS, Lakin, Hill, White, and Wright, Brief Report No. 32, and unpublished data.

**No. 182. Mental Retardation Facilities—Summary by Selected Characteristics: 1986**

[Mental retardation (MR) facilities include intermediate care facilities (ICF-MR), foster homes, group residences, semi-independent living programs, State institutions and other kinds of MR places. Based on the 1986 Inventory of Long-Term Care Places. For an explanation of mental retardation, see table 181. For details, see source. For composition of regions, see fig. 1, inside front cover]

CHARACTERISTIC	FACILITIES		BEDS		RESIDENTS						
	Number	Per- cent distribution	Number	Per- cent distribution	Number			Percent distribution			Average number of resi- dents
					Total <sup>1</sup>	Black	His- panic <sup>2</sup>	Total <sup>1</sup>	Black	His- panic <sup>2</sup>	
<b>Total</b> .....	<b>14,639</b>	<b>100.0</b>	<b>269,954</b>	<b>100.0</b>	<b>250,472</b>	<b>29,442</b>	<b>10,181</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>17</b>
<b>BED SIZE</b>											
1 to 5 beds .....	5,115	34.9	17,099	6.3	15,234	1,726	623	6.1	5.9	6.1	3
6 to 9 beds .....	5,491	37.5	37,318	13.8	34,815	3,159	1,587	13.9	10.7	15.6	6
10 to 15 beds .....	2,097	14.3	24,991	9.3	23,444	1,950	937	9.4	6.6	9.2	11
16 to 99 beds .....	1,531	10.5	58,050	21.5	54,090	5,485	2,333	21.6	18.6	22.9	35
100 beds or more .....	405	2.8	132,496	49.1	122,889	17,122	4,701	49.1	58.2	46.2	303
100 to 199 beds .....	198	1.4	26,206	9.7	24,539	3,698	995	9.8	12.6	9.8	124
200 to 499 beds .....	126	0.9	41,331	15.3	38,322	4,904	1,465	15.3	16.7	14.4	304
500 beds or more .....	81	0.6	64,959	24.1	60,028	8,520	2,241	24.0	28.9	22.0	741
<b>GEOGRAPHIC REGION</b>											
Northeast .....	3,806	26.0	65,812	24.4	61,707	5,634	1,578	24.6	19.1	15.5	16
Midwest .....	4,741	32.4	83,067	30.8	77,193	6,438	1,079	30.8	21.9	10.6	16
South .....	2,380	16.3	71,887	26.6	66,767	14,538	2,668	26.7	49.4	26.2	28
West .....	3,712	25.4	49,188	18.2	44,805	2,832	4,856	17.9	9.6	47.7	12
<b>TYPE OF OWNERSHIP</b>											
Profit .....	6,330	43.2	66,536	24.6	60,560	6,503	3,495	24.2	22.1	34.3	10
Nonprofit .....	6,396	43.7	78,935	29.2	75,193	6,938	2,316	30.0	23.6	22.7	12
Government .....	1,913	13.1	124,483	46.1	114,719	16,001	4,370	45.8	54.3	42.9	6

<sup>1</sup> Includes races not shown separately. <sup>2</sup> Persons of Hispanic origin may be of any race.

Source: U.S. National Center for Health Statistics, *Advance Data*, No. 143, September 1987.

**No. 183. Mental Health Facilities—Summary by Type of Facility: 1988**

[Facilities, beds and inpatients as of **yearend 1988**; other data are for calendar year or fiscal year ending in a month other than December since facilities are permitted to report on either a calendar or fiscal year basis. Excludes private psychiatric office practice and psychiatric service modes of all types in hospitals or outpatient clinics of Federal agencies other than Veterans Administration. Excludes data from Puerto Rico, Virgin Islands, Guam, and other territories]

TYPE OF FACILITY	Number of facili- ties	INPATIENT BEDS		INPATIENTS		Average daily inpatients (1,000)	Inpa- tient care epi- sodes <sup>2</sup> (1,000)	EXPENDITURES		Patient care staff <sup>4</sup> (1,000)
		Total (1,000)	Rate <sup>1</sup>	Total (1,000)	Rate <sup>1</sup>			Total (mil. dol.)	Per capita <sup>3</sup> (dol.)	
<b>Total</b> .....	<b>4,941</b>	<b>272.0</b>	<b>111.5</b>	<b>228.0</b>	<b>93.0</b>	<b>227.9</b>	<b>2,232.3</b>	<b>23,071</b>	<b>95</b>	<b>382.0</b>
Mental hospitals:										
State and county .....	286	106.8	43.8	100.3	40.7	99.5	407.5	6,990	29	116.9
Private .....	886	67.6	27.7	52.9	21.6	52.9	457.6	5,915	24	87.0
General hospitals .....	1,486	48.5	19.9	34.9	14.3	36.0	914.0	3,617	15	61.8
Veterans Administration .....	138	25.7	10.5	19.5	8.0	19.6	265.7	1,290	5	21.6
Free-standing psychiatric outpatient services .....	757	(X)	(X)	(X)	(X)	(X)	(X)	668	3	11.1
Other .....	1,388	23.4	9.6	20.4	8.4	19.9	187.5	4,591	19	83.6

X Not applicable. <sup>1</sup>Rate per 100,000 population. Based on Bureau of Census estimated civilian population as of July 1.

<sup>2</sup> "Inpatient care episodes" is defined as the number of residents in inpatient facilities at the beginning of the year plus the total additions to inpatient facilities during the year. <sup>3</sup> Based on Bureau of the Census estimated civilian population as of July 1.

<sup>4</sup> Full-time equivalent. <sup>5</sup> Includes residential treatment centers for emotionally disturbed children. <sup>6</sup> Non-Federal hospitals with separate psychiatric services. <sup>7</sup> Includes Veterans Administration (VA) neuropsychiatric hospitals, VA general hospitals with separate psychiatric settings and VA freestanding psychiatric outpatient clinics. <sup>8</sup> Includes mental health facilities which provide only psychiatric outpatient services. <sup>9</sup> Includes other multiservice mental health facilities with two or more settings, which are not elsewhere classified, as well as freestanding partial care facilities which only provide psychiatric partial care services. Number of facilities, expenditures, and staff data also include freestanding psychiatric partial care facilities.

Source: U.S. National Institute of Mental Health, *Statistical Note* series, and unpublished data. (Data collected biennially.)

**No. 184. Persons Injured, by Sex, 1970 to 1988, and by Age and Place, 1988**

[Covers civilian noninstitutional population and comprises incidents leading to restricted activity and/or medical attention. Beginning 1982, data not strictly comparable with other years. See headnote, table 188. Based on National Health Interview Survey; see Appendix III]

YEAR	PERSONS INJURED (millions)			RATE PER 100 POPULATION			AGE AND PLACE	PERSONS INJURED (millions)			RATE PER 100 POPULATION		
	Total	Male	Female	Total	Male	Female		Total	Male	Female	Total	Male	Female
1970	56.0	31.8	24.2	28.0	33.0	23.3	<b>1988, total <sup>1</sup></b>	<b>59.2</b>	<b>32.4</b>	<b>26.8</b>	<b>24.6</b>	<b>27.7</b>	<b>21.6</b>
1975	71.9	39.4	32.5	34.4	39.1	30.0	Under 5 years	4.9	2.9	2.1	26.8	30.6	22.9
1978	67.5	38.1	29.4	31.6	36.9	26.6	5-17 years	13.5	7.8	5.7	29.9	33.6	26.0
1979	69.1	40.2	28.9	32.0	38.6	25.9	18-44 years	27.9	16.5	11.4	27.1	32.7	21.7
1980	68.1	39.0	29.1	31.2	37.1	25.8	45 years and over	12.8	5.2	7.6	17.3	15.5	18.7
1981	70.3	40.1	30.2	31.2	36.9	25.9	Home	20.4	9.9	10.6	8.5	8.5	8.5
1982	60.0	32.4	27.6	26.4	29.6	23.4	Street or						
1983	61.1	33.0	28.1	26.6	29.8	23.7	highway	6.0	2.9	3.0	2.5	2.5	2.4
1984	61.1	33.7	27.4	26.4	30.1	22.9	Industrial	7.1	5.5	1.7	3.0	4.7	1.3
1985	62.6	34.6	28.0	26.8	30.6	23.1	Other	15.3	9.7	5.6	6.4	8.3	4.5
1986	62.4	34.0	28.4	26.4	29.8	23.3							
1987	62.1	33.6	28.4	26.0	29.1	23.0							

<sup>1</sup> Includes unknown place of accident, not shown separately.

Source: U.S. National Center for Health Statistics, *Vital and Health Statistics*, series 10, and unpublished data.

**No. 185. Injuries Associated With Consumer Products: 1985 and 1988**

[Estimates calculated from a representative sample of hospitals with emergency treatment departments in the U.S. and its territories. Product involvement does not necessarily mean the product caused the accident]

PRODUCT	1985	1988	PRODUCT	1985	1988
Home maintenance:			Housewares:		
Noncaustic cleaning equip. <sup>1</sup>	16,345	19,338	Cookware, pots, pans	29,182	29,226
Cleaning agents (except soap)	38,198	36,344	Cutlery, knives, unpowered	348,687	337,464
Drain, oven cleaners, caustics	10,762	(NA)	Drinking glasses	121,951	114,923
Paints, solvents, lubricants	19,342	21,928	Scissors	18,357	19,586
Misc. household chemicals	17,818	14,348	Small kitchen appliances	38,441	35,484
Home workshop equipment:			Tableware and accessories	92,279	114,628
Batteries	16,695	12,080	Misc. housewares	49,326	51,383
Hoists, lifts, jacks	19,038	15,165	General household appliances:		
Power home tools, except saws	27,469	24,208	Cooking ranges, ovens etc.	44,940	41,442
Power home workshop saws	64,705	64,232	Irons, clothes steamers	17,157	18,805
Welding, soldering, cutting tools	21,521	13,940	Refrigerators, freezers	30,458	28,615
Wires, cords, not specified	11,937	14,298	Washers, dryers	20,377	19,075
Workshop manual tools	110,267	99,016	Misc. household appliances	21,523	22,124
Misc. workshop equipment	31,148	33,726	Heating, cooling equipment <sup>2</sup> :		
Yard and garden equipment:			Chimneys, fireplaces	14,255	14,682
Chains and saws	55,743	36,145	Fans (except stove)	14,743	19,384
Hand garden tools	32,855	35,427	Heating stoves, space heaters	41,877	30,992
Hatchets, axes	22,495	16,458	Pipes, heating and plumbing	28,663	24,188
Lawn garden care equipment	38,623	39,421	Radiators	18,704	17,976
Lawn mowers	68,664	53,830	Home entertainment equipment:		
Other power lawn equipment	11,479	15,300	Pet supplies, equipment	14,940	13,576
Household packaging and containers:			Sound recording, reproducing equip.	33,808	37,440
Cans, other containers	164,403	183,023	Television sets	31,888	31,754
Glass bottles, jars	98,343	67,439	Misc. hobby equipment	12,855	11,868
Paper, cardboard, plastic products	46,584	34,174	Personal use items:		
Home furnishing <sup>3</sup> :			Cigarettes, lighters, fuels	20,900	20,878
Bathbub, shower structures	120,090	121,600	Clothing	94,597	115,058
Beds, mattresses, pillows	275,521	299,222	Grooming devices	22,223	25,680
Carpets, rugs	59,245	82,235	Holders for personal items	13,029	14,895
Chairs, sofas, sofa beds	274,046	291,446	Jewelry	40,608	43,087
Desks, cabinets, shelves, racks	151,183	166,661	Paper money, coins	25,606	29,418
Electric fixtures, lamps, equipment	42,262	40,517	Pencils, pens, other desk supplies	44,400	42,130
Ladders, stools	117,594	128,818	Razors, shavers, razor blades	39,496	36,122
Mirrors, mirror glass	19,204	23,013	Sewing equipment	39,253	29,996
Sinks, toilets	38,319	42,016	Sports and recreation equipment:		
Tables	262,442	269,255	Barbecue grills, stoves, equipment	14,872	13,239
Misc. covers, fabrics	14,562	14,545	Bicycles, accessories	561,784	525,027
Other misc. accessories	41,112	39,417	Exercise equipment	62,575	65,029
Home structures, construction: <sup>3</sup>			Horseback riding	(NA)	43,820
Cabinets or door hardware	20,868	17,209	Mopeds, minibikes, ATV's <sup>5</sup>	158,297	112,571
Ceilings, walls, inside panels	198,009	186,328	Nonpowder guns, BB's, pellets	26,090	22,240
Counters, counter tops	21,281	23,088	Playground equipment	210,602	204,726
Fences	109,773	113,331	Skateboards	37,326	80,242
Glass doors, windows, panels	210,084	176,393	Toboggans, sleds, snow disks, etc	38,999	28,818
Handrails, railings, banisters	34,949	35,899	Trampolines	12,567	13,944
Nails, carpet tacks, etc	222,647	220,640	Miscellaneous products:		
Nonglass doors, panels	298,012	281,649	Dollies, carts	29,850	32,604
Outside attached structures <sup>3</sup>	11,558	(NA)	Elevators, other lifts	10,627	11,539
Porches, open side floors, etc	78,245	92,508	Fireworks, flares	10,572	10,330
Stairs, ramps, landings, floors	1,390,085	1,477,887	Gasoline and diesel fuels	22,557	15,964
Window, door sills, frames	34,581	41,457	Toys	123,104	141,755
Misc. construction materials	92,941	59,829			

NA Not available. <sup>1</sup> Includes detergent. <sup>2</sup> Includes accessories. <sup>3</sup> Includes materials. <sup>4</sup> Includes ventilating equipment. <sup>5</sup> All-terrain vehicles.

Source: National Safety Council, Chicago IL, *Accident Facts*, annual. (Copyright)

**No. 186. Costs of Accidents: 1989**

[Covers costs for accidents in which deaths or disabling injuries beyond the day of the accident occurred, together with vehicle accidents and fires]

COST	AMOUNT (bil. dol)					PERCENT DISTRIBUTION				
	Total <sup>1</sup>	Motor vehicle	Work	Home	Other	Total <sup>1</sup>	Motor vehicle	Work	Home	Other
<b>Total</b>	<b>148.5</b>	<b>72.2</b>	<b>48.5</b>	<b>18.2</b>	<b>12.5</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Wage loss <sup>2</sup>	37.7	19.5	8.3	6.1	5.5	25.4	27.0	17.1	33.5	44.0
Medical expense	23.7	5.2	8.1	6.6	5.0	16.0	7.2	16.7	36.3	40.0
Insurance administration <sup>3</sup>	28.4	20.7	6.1	0.9	0.7	19.1	28.7	12.6	4.9	5.6
Fire loss	9.4	(NA)	3.5	4.6	1.3	6.3	(NA)	7.2	25.3	10.4
Motor vehicle property damage	26.8	26.8	(NA)	(NA)	(NA)	18.0	37.1	(NA)	(NA)	(NA)
Indirect work loss <sup>4</sup>	22.5	(NA)	22.5	(NA)	(NA)	15.2	(NA)	46.4	(NA)	(NA)

NA Not available. <sup>1</sup> Excludes duplication. <sup>2</sup> Actual wage losses and the present value of future earnings lost. <sup>3</sup> The difference between premiums paid to companies and the claims paid by them. <sup>4</sup> The value of time lost by noninjured workers (e.g. giving first aid).

Source: National Safety Council, Chicago, IL, *Accident Facts, 1990*. (Copyright.)

**No. 187. Injury, Medical Care, Morbidity, and Mortality Costs, by Sex, Age, and Cause: 1985**

[An injury consists of damage to tissue caused by the exchange of kinetic, thermal, chemical, electrical or radiation energy at levels intolerable to tissue, or the deprivation of oxygen due to suffocation. For explanation of methodology, see source]

AGE, CAUSE, AND SEX	INJURY MEDICAL CARE AND MORBIDITY LOSSES					INJURY MORTALITY LOSSES				
	Number injured <sup>1</sup> (1,000)	Life years lost <sup>2</sup>		Lifetime costs <sup>4 5</sup>		Deaths, number (1,000)	Life years lost <sup>2</sup>		Lifetime costs <sup>7</sup>	
		Total (1,000)	Rate <sup>3</sup>	Total (mil. dol.)	Per injured person (dol.)		Total (1,000)	Per death	Total (mil. dol.)	Per death (dol.)
<b>Total</b>	56,716	5,086	9.0	108,241	1,908	155,665	5,285	34.0	49,374	317,189
Age: Under 4 years old	4,066	470	11.6	3,152	775	4,434	320	72.2	976	220,081
5 to 14 years old	10,184	822	8.1	8,028	788	5,992	337	56.2	1,670	278,754
15 to 24 years old	12,721	1,388	10.9	24,266	1,908	33,896	1,658	48.9	14,876	438,884
25 to 44 years old	18,015	1,314	7.3	40,930	2,272	51,579	2,045	39.6	24,891	482,583
45 to 64 years old	7,344	476	6.5	17,833	2,428	27,854	625	22.4	6,138	220,375
65 years old and over	4,386	616	14.0	14,031	3,199	31,910	300	9.4	822	25,771
Cause: Motor vehicles	5,326	1,173	22.0	30,245	5,679	52,375	1,952	37.3	18,438	352,042
Falls	12,276	363	3.0	35,638	2,903	16,470	436	26.5	1,642	99,669
Firearms	236	188	79.8	2,238	9,483	32,586	1,162	35.7	12,172	373,520
Poisonings	1,691	18	1.0	4,104	2,427	11,894	275	23.1	4,433	372,691
Fires/burns	1,457	1,259	86.4	2,407	1,652	5,710	258	45.2	1,424	249,367
Drownings/near drownings	32	161	511.3	175	5,469	6,287	206	32.8	2,278	362,292
Other	35,698	1,924	5.4	33,433	937	30,340	995	32.8	8,989	296,266
<b>Male</b>	32,014	3,059	9.6	67,909	2,121	111,867	3,827	34.2	40,086	358,344
Age: Under 4 years old	2,454	262	10.7	1,914	780	2,618	182	69.5	617	235,667
5 to 14 years old	5,981	563	9.4	5,576	932	3,986	219	54.9	1,198	300,807
15 to 24 years old	8,003	950	11.9	16,931	2,116	26,502	1,272	48.0	12,205	460,550
25 to 44 years old	10,907	890	8.2	29,458	2,701	40,327	1,561	38.7	20,650	517,012
45 to 64 years old	3,445	255	7.4	10,641	3,089	20,245	431	21.3	4,786	236,423
65 years old and over	1,223	137	11.2	3,388	2,770	18,189	162	3.0	430	23,614
Cause: Motor vehicles	2,426	737	30.4	18,891	7,787	36,836	1,362	37.0	14,437	391,921
Falls	5,626	212	3.8	19,724	3,506	9,136	280	30.6	1,317	144,143
Firearms	190	126	66.4	1,761	9,268	27,289	945	34.6	10,567	387,235
Poisonings	681	11	1.6	2,300	3,377	7,621	218	28.6	3,289	431,608
Fires/burns	794	636	80.2	1,809	2,278	3,477	170	48.9	992	285,300
Drownings/near drownings	30	100	332.6	124	4,133	5,067	120	23.7	1,994	393,464
Other	22,267	1,298	5.6	23,300	1,046	22,439	733	32.7	7,490	333,803
<b>Female</b>	24,702	2,027	8.2	40,331	1,633	43,798	1,458	33.3	9,288	212,075
Age: Under 4 years old	1,612	208	12.9	1,237	767	1,816	138	76.0	359	197,617
5 to 14 years old	4,203	259	6.2	2,452	583	2,006	118	58.8	472	235,331
15 to 24 years old	4,717	438	9.3	7,334	1,555	7,394	386	52.2	2,671	61,227
25 to 44 years old	7,108	424	6.0	11,473	1,614	11,252	484	43.0	4,042	359,190
45 to 64 years old	3,900	221	5.7	7,191	1,844	7,609	194	25.5	1,352	177,677
65 years old and over	3,162	478	15.1	10,643	3,366	13,721	138	10.1	393	28,630
Cause: Motor vehicles	2,900	436	15.0	11,354	3,915	15,539	590	38.0	4,001	257,506
Falls	6,650	151	2.3	15,914	2,393	7,334	156	21.3	325	44,267
Firearms	46	62	134.6	477	10,370	5,297	217	41.0	1,604	302,860
Poisonings	1,010	7	0.7	1,805	1,787	4,273	57	13.3	1,143	267,610
Fires/burns	663	622	93.8	599	903	2,233	88	39.4	432	193,416
Drownings/near drownings	2	62	3,780.9	51	25,500	1,220	86	70.5	284	232,825
Other	13,431	686	5.1	10,132	754	7,901	262	33.2	1,499	189,660

<sup>1</sup> Excludes 142,568 deaths in 1985. <sup>2</sup> Number of years person would have been productive in absence of injury, disability, or impairment. <sup>3</sup> Per 100 injured persons. <sup>4</sup> Value of goods and services not produced because of injury related illnesses and disability (\$64.9 billion) and cost of medical services (\$43.3 billion). <sup>5</sup> Cost estimates based on the person's age, sex, life expectancy at the time of death, annual earnings, labor force participation rates, value of homemaking services, and at 6 percent discount rate by which to convert to present worth the potential aggregate earnings lost over the years. Includes costs incurred in the first year injury occurs as well as costs in later years (e.g. rehabilitation). <sup>6</sup> Includes 13,097 deaths in later years due to injuries sustained in 1985. <sup>7</sup> Value of lifetime earnings lost by persons who are fatally injured and die prematurely, discounted at 6 percent.

Source: Institute for Health and Aging, University of California, San Francisco, CA and the Injury Prevention Center, The Johns Hopkins University, Baltimore, MD, *Cost of Injury in the United States: A Report to Congress, 1989*.



**No. 188. Days of Disability, by Type and Selected Characteristics: 1970 to 1988**

[Covers civilian noninstitutional population. Beginning 1984, the levels of estimates may not be comparable to estimates for 1970-80 because the later data are based on a revised questionnaire and field procedures; for further information, see source. Based on National Health Interview Survey; see Appendix III. For composition of regions, see fig. 1, inside front cover]

ITEM	TOTAL DAYS OF DISABILITY (millions)						DAYS PER PERSON					
	1970	1980	1985	1986	1987	1988	1970	1980	1985	1986	1987	1988
Restricted-activity days <sup>1</sup>	2,913	4,165	3,453	3,597	3,448	3,536	14.6	19.1	14.8	15.2	14.5	14.7
Male	1,273	1,802	1,442	1,498	1,464	1,487	13.2	17.1	12.8	13.1	12.7	12.7
Female	1,640	2,363	2,011	2,099	1,984	2,049	15.8	21.0	16.6	17.2	16.1	16.5
White <sup>2</sup>	2,526	3,518	2,899	3,048	2,896	2,969	14.4	18.7	14.5	15.2	14.3	14.6
Black <sup>2</sup>	365	580	489	473	475	487	16.2	22.7	17.4	16.6	16.4	16.6
Hispanic <sup>3</sup>	(NA)	(NA)	228	226	226	253	(NA)	(NA)	13.2	12.5	12.0	13.0
Under 65 years	2,331	3,228	2,557	2,712	2,594	2,657	12.9	16.6	12.4	13.0	12.3	12.5
65 years and over	582	937	895	884	854	879	30.7	39.2	33.1	32.1	30.3	30.6
Northeast	709	862	689	700	684	667	14.5	17.9	13.8	14.0	13.6	13.5
Midwest	691	989	744	844	746	762	12.4	17.2	12.7	14.8	13.0	12.8
South	996	1,415	1,308	1,325	1,220	1,328	15.9	19.8	16.3	16.5	15.0	16.1
West	518	899	712	728	797	779	15.6	22.0	15.7	15.8	16.0	15.6
Family income:												
Under \$10,000	(NA)	(NA)	893	851	756	754	(NA)	(NA)	25.8	25.4	24.2	26.6
\$10,000 to \$19,999	(NA)	(NA)	781	780	750	751	(NA)	(NA)	16.7	17.3	16.9	17.8
\$20,000 to \$34,999	(NA)	(NA)	791	829	761	734	(NA)	(NA)	12.1	13.2	12.3	12.3
\$35,000 or more	(NA)	(NA)	568	669	685	726	(NA)	(NA)	9.9	10.5	9.9	9.7
Bed-disability days <sup>4</sup>	1,222	1,520	1,436	1,548	1,474	1,519	6.1	7.0	6.1	6.5	6.2	6.3
Male	503	616	583	613	595	607	5.2	5.9	5.2	5.4	5.2	5.2
Female	720	904	852	935	879	912	6.9	8.0	7.1	7.7	7.1	7.3
Under 65 years	959	1,190	1,064	1,137	1,081	1,107	5.3	6.1	5.1	5.4	5.1	5.2
65 years and over	263	330	371	411	394	412	13.8	13.8	13.7	14.9	14.0	14.4
Work-loss days <sup>5</sup>	417	485	575	607	603	609	5.4	5.0	5.3	5.5	5.4	5.3
Male	243	271	287	302	299	307	5.0	4.9	4.8	5.0	4.8	4.8
Female	175	215	288	305	304	302	5.9	5.1	6.0	6.1	6.1	5.8
School-loss days <sup>6</sup>	222	204	217	226	198	222	4.9	5.3	4.8	5.0	4.4	4.9
Male	108	95	100	99	96	107	4.7	4.8	4.4	4.3	4.2	4.6
Female	114	109	117	127	102	115	5.1	5.7	5.3	5.8	4.6	5.2

NA Not available. <sup>1</sup> A day when a person cuts down on his usual activities for the whole day because of illness or injury. Includes bed-disability, work-loss, and school-loss days. Total includes other races and unknown income, not shown separately.

<sup>2</sup> Beginning 1980 race was determined by asking the household respondent to report his race. In earlier years the racial classification of respondents was determined by interviewer observation. <sup>3</sup> Persons of Hispanic origin may be of any race.

<sup>4</sup> A day when a person was kept in bed either all or most of the day because of illness or injury. Includes those work-loss and school-loss days actually spent in bed. <sup>5</sup> A day when a person lost the entire workday because of illness or injury. Computed for persons 17 years of age and over (beginning 1985, 18 years of age and over) in the currently employed population, defined as those who were working or had a job or business from which they were not on layoff during the 2-week period preceding the week of interview. <sup>6</sup> Child's loss of entire school day because of illness or injury. Computed for children 6 to 16 years of age.

Beginning 1985, children 5 to 17 years old.

Source: U.S. National Center for Health Statistics, *Vital and Health Statistics*, series 10, and unpublished data.

**No. 189. Percent of Children Immunized Against Specified Diseases, by Age-Group: 1980 to 1985**

[Covers civilian noninstitutional population. Data are estimates from the Immunization Survey which is a supplemental questionnaire submitted to a subsample of households interviewed for the Current Population Survey (see text, section 1 and Appendix III). Subject to sampling variability; see source]

DISEASE	ALL RESPONDENTS									RESPONDENTS CONSULTING RECORDS, <sup>1</sup> 1985		
	1 to 4 years old					5 to 14 years old						
	1980, total	1984, total	1985			1980, total	1984, total	1985			1 to 4 years old	5 to 14 years old
			Total	White	Black and other			Total	White	Black and other		
Diphtheria-tetanus-pertussis <sup>2</sup>	66.3	65.7	64.9	68.7	48.7	74.0	73.8	73.7	76.0	64.0	87.0	93.0
Polio	58.8	54.8	55.3	58.9	40.1	70.0	70.2	69.7	72.6	57.5	75.7	88.4
Measles	63.5	62.8	60.8	63.6	48.8	71.0	73.5	71.5	73.6	62.6	76.9	87.6
Rubella	63.5	60.9	58.9	61.6	47.7	74.0	72.4	70.2	72.3	61.4	73.8	85.3
Mumps	56.6	58.7	58.9	61.8	47.0	63.2	70.9	71.6	73.6	63.2	75.5	87.1

<sup>1</sup> Data are based only on the 29 percent of White respondents and the 15 percent of Black and other respondents who consulted records for some or all vaccination questions. <sup>2</sup> Three or more doses.

Source: U.S. Centers for Disease Control, Atlanta, GA, *United States Immunization Survey*, annual.

### No. 190. Specified Reportable Diseases—Cases Reported: 1970 to 1989

[Figures should be interpreted with caution. Although reporting of some of these diseases is incomplete, the figures are of value in indicating trends of disease incidence. Includes cases imported from outside the U.S. See *Historical Statistics, Colonial Times to 1970*, series B 291-303, for related data]

DISEASE	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
AIDS <sup>1</sup>	(NA)	(NA)	744	2,117	4,445	8,249	13,166	21,070	31,001	33,722
Amebiasis	2,888	5,271	7,304	6,658	5,252	4,433	3,532	3,123	2,860	3,217
Aseptic meningitis	6,480	8,028	9,680	12,696	8,326	10,619	11,374	11,487	7,234	10,274
Botulism	12	89	97	133	123	122	109	82	84	89
Brucellosis (undulant fever)	213	183	173	200	131	153	106	129	96	95
Chickenpox (1,000)	(3)	190.9	167.4	177.5	222.0	178.2	183.2	213.2	192.9	185.4
Diphtheria	435	3	2	5	1	3	-	3	2	3
Encephalitis:										
Primary infectious <sup>4</sup>	1,580	1,362	1,464	1,761	1,257	1,376	1,302	1,418	882	981
Post infectious <sup>4</sup>	370	40	36	34	108	161	124	121	121	88
Hepatitis: B (serum) (1,000)	8.3	19.0	22.2	24.3	26.1	26.6	26.1	25.9	23.2	23.4
A (infectious) (1,000)	56.8	29.1	23.4	21.5	22.0	23.2	23.4	25.3	28.5	35.8
Unspecified (1,000)	(3)	11.9	8.6	7.1	5.5	5.5	3.9	3.1	2.5	2.3
Non-A, non-B (1,000)	(3)	(3)	2.6	3.5	3.9	4.2	3.6	3.0	2.6	2.5
Legionellosis	(3)	(3)	654	852	750	830	948	1,038	1,085	1,190
Leprosy	129	223	250	259	290	361	270	238	184	163
Leptospirosis	47	85	100	61	40	57	41	43	54	93
Malaria	3,051	2,062	1,056	813	1,007	1,049	1,123	944	1,099	1,277
Measles (1,000)	47.4	13.5	1.7	1.5	2.6	2.8	6.3	3.7	3.4	18.2
Meningococcal infections	2,505	2,840	3,056	2,736	2,746	2,479	2,594	2,930	2,964	2,727
Mumps (1,000)	105.0	8.6	5.3	3.4	3.0	3.0	7.8	12.8	4.9	5.7
Pertussis <sup>5</sup> (1,000)	4.2	1.7	1.9	2.5	2.3	3.6	4.2	2.8	3.5	4.2
Plague	13	18	19	40	31	17	10	12	15	4
Polio myelitis, acute	33	9	8	15	8	7	8	6	8	5
Psittacosis	35	124	152	142	172	119	224	98	114	116
Rabies, animal	3,224	6,421	6,212	5,878	5,567	5,565	5,504	4,658	4,651	4,724
Rabies, human	3	-	-	2	3	1	-	1	-	1
Rheumatic fever, acute <sup>6</sup>	3,227	432	137	88	117	90	147	141	158	144
Rubella (1,000)	56.6	3.9	2.3	1.0	1.0	0.6	0.6	0.3	0.2	0.4
Salmonellosis <sup>8</sup> (1,000)	22.1	33.7	40.9	44.3	40.9	65.3	50.0	50.9	48.9	47.8
Shigellosis <sup>9</sup> (1,000)	13.8	18.0	18.1	19.7	17.4	17.1	17.1	23.9	30.6	25.0
Tetanus	148	95	88	91	74	83	64	48	53	53
Toxic-shock syndrome	(3)	(3)	(3)	502	482	384	412	372	390	400
Trichinosis	109	131	115	45	68	61	39	40	45	30
Tuberculosis <sup>10</sup> (1,000)	37.1	27.7	25.5	23.8	22.3	22.2	22.8	22.5	22.4	23.5
Tularemia	172	234	275	310	291	177	170	214	201	152
Typhoid fever	346	510	425	507	390	402	362	400	436	460
Typhus fever:										
Flea-borne (endemic-murine)	27	81	58	62	53	37	67	49	54	41
Tick-borne (Rocky Mt. spotted fever)	380	1,163	976	1,126	838	714	760	604	609	623
Venereal diseases (civilian cases):										
Gonorrhea (1,000)	600	1,004	961	900	879	911	901	781	720	733
Syphilis (1,000)	91	69	76	75	70	68	68	87	103	111
Other (1,000)	2.2	1.0	1.6	1.2	1.0	2.3	4.2	5.3	5.2	4.9

- Represents zero. NA Not available. <sup>1</sup> Acquired immunodeficiency syndrome was not a notifiable disease until 1984. Figures are shown for years in which cases were reported to the CDC. <sup>2</sup> Beginning in 1980, includes foodborne, infant, wound, and unspecified cases. <sup>3</sup> Disease was not notifiable. <sup>4</sup> Beginning 1980, reported data reflect new diagnostic categories. <sup>5</sup> Whooping cough. <sup>6</sup> Based on reports from States: 38 in 1970, 37 in 1980, 36 in 1982-84, 31 in 1985, 29 in 1986 and 1988, 25 in 1987 and 28 in 1989. <sup>7</sup> German measles. <sup>8</sup> Excludes typhoid fever. <sup>9</sup> Bacillary dysentery. <sup>10</sup> Newly reported active cases. New diagnostic standards introduced in 1980.

Source: U.S. Centers for Disease Control, Atlanta, GA, *Summary of Notifiable Diseases, United States, Morbidity and Mortality Weekly Report*, vol. 38, No. 54, October 1990.

### No. 191. Selected Measures of Hospital Utilization for Patients Discharged With the Diagnosis of AIDS: 1984 to 1988

[Based on National Hospital Discharge Survey; see source for details]

MEASURE OF UTILIZATION	Unit	1984	1985	1986	1987	1988 <sup>1</sup>
Number of patients discharged	1,000	10	23	37	50	71
Rate of patient discharges	Rate	0.4	1.0	1.6	2.1	2.9
Number of days of care	1,000	123	387	606	783	983
Rate of days of care <sup>2</sup>	Rate	5.2	16.3	25.3	32.4	40.3
Average length of stay <sup>3</sup>	Days	12.1	17.1	16.2	15.7	13.8

<sup>1</sup> Comparisons of 1988 data with data for earlier years should be made with caution as estimates of change may reflect improvements in the 1988 design rather than true changes in hospital use. <sup>2</sup> Per 10,000 population. Based on Bureau of the Census estimated civilian population as of July 1. <sup>3</sup> For similar data on all patients, see table 173.

Source: National Center for Health Statistics, *Health, United States, 1989*.

**No. 192. AIDS Cases Reported, by Patient Characteristic: 1981 to 1990**

[Provisional. For cases reported in the year shown. For data on AIDS deaths, see table 120. Data are subject to retrospective changes and may differ from those data in table 190]

CHARACTERISTIC	NUMBER OF CASES										PERCENT DISTRIBUTION	
	Total	1981-1982	1983	1984	1985	1986	1987	1988	1989	1990 <sup>1</sup>	1981-1982	1990 <sup>1</sup>
<b>Total</b> .....	<b>142,424</b>	<b>838</b>	<b>2,059</b>	<b>4,435</b>	<b>8,122</b>	<b>13,124</b>	<b>21,117</b>	<b>30,858</b>	<b>33,714</b>	<b>28,097</b>	<b>100.0</b>	<b>100.0</b>
<b>Age:</b>												
Under 5 years old .....	1,937	12	31	47	110	156	265	443	503	370	1.4	1.3
5 to 12 years old .....	442	1	1	3	18	28	56	126	102	107	0.1	0.4
13 to 29 years old .....	29,144	196	457	960	1,685	2,815	4,385	6,383	6,780	5,483	23.4	19.5
30 to 39 years old .....	65,581	396	929	2,108	3,838	6,093	9,634	14,199	15,553	12,831	47.3	45.7
40 to 49 years old .....	30,726	169	446	923	1,707	2,685	4,516	6,529	7,340	6,411	20.2	22.8
50 to 59 years old .....	10,330	58	166	312	626	968	1,553	2,163	2,431	2,053	6.9	7.3
60 years old and over .....	4,264	6	29	82	198	379	708	1,015	1,005	842	0.7	3.0
<b>Sex:</b>												
Male .....	128,243	780	1,902	4,142	7,597	12,068	19,290	27,562	30,053	24,849	93.1	88.4
Female .....	14,173	58	157	293	585	1,056	1,826	3,294	3,658	3,246	6.9	11.6
Not reported .....	8	-	-	-	-	-	1	2	3	2	-	(Z)
<b>Race/ethnic group:</b>												
White, non-Hispanic .....	81,081	467	1,174	2,689	4,957	7,822	12,969	17,177	18,632	15,194	55.8	54.1
Black, non-Hispanic .....	41,119	251	565	1,119	2,080	3,392	5,382	9,107	10,321	8,902	30.0	31.7
Hispanic .....	18,785	117	311	605	1,085	1,785	2,554	4,274	4,352	3,702	14.0	13.2
Other/unknown .....	1,439	3	9	22	60	125	212	300	409	299	0.2	1.1
<b>Leading States:</b>												
New York .....	32,178	456	885	1,584	2,483	3,781	3,966	6,975	6,022	6,046	54.4	21.5
California .....	27,653	120	440	1,002	1,936	2,615	4,853	5,743	6,435	4,509	14.3	16.1
Florida .....	12,684	69	153	314	554	1,024	1,662	2,696	3,492	2,720	8.2	9.7
Texas .....	10,424	20	89	250	483	940	1,670	2,231	2,399	2,342	7.4	8.3
New Jersey .....	9,638	63	136	281	468	767	1,509	2,455	2,231	1,728	7.5	6.2
Illinois .....	4,298	18	39	100	188	347	629	993	1,139	845	2.2	3.0
Pennsylvania .....	4,086	19	37	91	202	310	657	852	1,075	843	2.3	3.0
Georgia .....	3,816	13	25	56	191	304	517	839	1,102	769	1.6	2.7
Massachusetts .....	3,062	13	34	87	165	281	452	711	756	563	1.6	2.0
Maryland .....	2,785	5	27	54	148	188	457	545	719	642	0.6	2.3
District of Columbia .....	2,493	3	19	90	178	226	486	501	498	512	0.4	1.8
Ohio .....	2,121	8	7	30	53	212	335	507	485	484	1.0	1.7
Louisiana .....	2,089	-	18	55	104	165	337	401	513	476	-	1.7
Washington .....	1,958	1	6	59	112	170	328	349	497	436	0.1	1.6
Virginia .....	1,859	-	27	40	108	160	242	348	392	542	-	1.9
Michigan .....	1,795	4	9	32	61	150	211	456	505	367	0.5	1.3
Connecticut .....	1,733	10	18	57	86	176	251	415	432	288	1.2	1.0
Missouri .....	1,624	1	7	27	50	74	238	411	441	375	0.1	1.3
North Carolina .....	1,512	-	9	15	66	81	120	278	447	406	-	1.4
Colorado .....	1,451	5	21	38	62	166	226	325	389	219	0.6	0.8
Percent of total .....	90.7	98.8	96.5	96.1	94.1	92.5	91.0	90.8	88.9	89.4	(X)	(X)

- Represents zero. X Not applicable. Z Rounds to zero. <sup>1</sup> January 1 through August. <sup>2</sup> States with at least 1,400 total cases reported through August 1990.

Source: U.S. Centers for Disease Control, Atlanta, GA, unpublished data.

**No. 193. AIDS Cases, Expenditures, and Appropriations for AIDS, by Category and Leading States: 1984 to 1989**

[For fiscal years, except as indicated. Based on survey of State budget analysts, commissioners of health and AIDS coordinators, and other State agencies with AIDS programs, (e.g. Departments of Education)]

ITEM	Unit	1984-1989, total	1984	1985	1986	1987	1988	1989	Percent change, 1988-1989
Total diagnosed AIDS cases <sup>1</sup> .....	Number	77,994	4,085	9,717	19,503	33,285	47,022	77,994	66
U.S.P.H.S. expenditures .....	\$1,000	3,147,880	61,480	108,618	233,812	494,000	961,000	1,289,000	34
State government appropriations <sup>2</sup> .....	\$1,000	516,422	9,285	9,594	27,531	66,738	156,274	247,000	58
Number of States .....	Number	(X)	5	9	21	28	37	47	(X)
Appropriations for—									
Education/information .....	Percent.	(X)	(NA)	(NA)	25	19	21	26	(X)
Support services .....	Percent.	(X)	(NA)	(NA)	12	11	19	13	(X)
Research .....	Percent.	(X)	(NA)	(NA)	41	27	17	8	(X)
Patient care .....	Percent.	(X)	(NA)	(NA)	4	15	16	25	(X)
Testing/counseling .....	Percent.	(X)	(NA)	(NA)	3	11	12	18	(X)
<b>Leading areas by appropriations:</b>									
California .....	\$1,000	189,939	3,400	4,094	16,020	31,515	58,033	76,877	32
New York .....	\$1,000	114,654	5,250	2,800	4,500	9,500	39,920	52,884	32
Florida .....	\$1,000	36,494	25	32	576	5,557	12,539	17,765	42
Massachusetts .....	\$1,000	29,522	(X)	1,500	1,604	4,073	7,591	14,754	94
New Jersey .....	\$1,000	29,301	530	920	1,969	4,963	7,907	13,012	65
Percent of total .....	Percent.	77.4	99.1	97.4	89.6	83.3	80.6	71.0	(X)

NA Not available. X Not applicable. <sup>1</sup> Total cumulative number, as of beginning of fiscal year. <sup>2</sup> U.S. Public Health Service. <sup>3</sup> Includes DC. Includes appropriations from State governments direct general revenue funds only; excludes Medicaid expenditures. Includes appropriations for other activities, not shown separately. <sup>4</sup> Beginning 1989, hospice care included in patient care, rather than support services. <sup>5</sup> Areas with over \$7 million appropriations for 1989.

Source: AIDS Policy Center, Intergovernmental Health Policy Project, The George Washington University, Washington, DC, *Intergovernmental AIDS Reports*, vol. 2, No. 3A.

**No. 194. Acute Conditions, by Type, 1970 to 1988, and by Selected Characteristics, 1988**

[Covers civilian noninstitutional population. Estimates include only acute conditions which were medically attended or caused at least one day of restricted activity. Based on National Health Interview Survey; see Appendix III. See headnote, table 188. For composition of regions, see fig. 1, inside front cover]

YEAR AND CHARACTERISTIC	NUMBER OF CONDITIONS (mil.)					RATE PER 100 POPULATION				
	Infective and parasitic	Respiratory		Digestive system	Injuries	Infective and parasitic	Respiratory		Digestive system	Injuries
		Upper	Other				Upper	Other		
1970.....	48.2	127.3	92.5	23.0	59.2	24.1	63.7	46.3	11.5	29.6
1975.....	47.6	124.0	109.0	21.6	76.2	22.8	59.3	52.1	10.3	36.4
1980.....	53.6	124.2	129.0	24.9	72.7	24.6	57.0	59.2	11.4	33.4
1984.....	46.5	88.0	117.4	17.5	62.8	20.1	38.0	50.7	7.6	27.1
1985.....	47.8	95.1	108.4	16.3	64.0	20.5	40.7	48.4	7.0	27.4
1986.....	54.4	85.2	143.6	15.0	64.3	23.0	36.1	60.8	6.3	27.2
1987.....	55.3	84.7	106.4	15.0	64.5	23.2	35.5	44.6	6.3	27.0
<b>1988, total <sup>1</sup></b> .....	<b>53.8</b>	<b>90.7</b>	<b>118.7</b>	<b>15.1</b>	<b>59.2</b>	<b>22.3</b>	<b>37.6</b>	<b>49.3</b>	<b>6.3</b>	<b>24.6</b>
Under 5 years old.....	9.4	16.7	13.7	2.0	4.9	51.2	90.9	74.4	11.1	26.8
5 to 17 years old.....	21.1	27.1	32.3	3.7	13.5	46.7	60.0	71.5	8.1	29.9
18 to 24 years old.....	4.9	8.7	11.3	1.7	8.4	19.0	34.0	43.9	6.5	32.7
25 to 44 years old.....	13.2	24.2	37.4	4.0	19.5	17.1	31.3	48.4	5.1	25.2
45 to 64 years old.....	3.6	8.8	16.5	1.9	6.9	7.9	19.3	36.2	4.2	15.2
65 years old and over.....	1.6	5.1	7.5	1.8	5.9	5.6	17.9	26.0	6.4	20.6
Male.....	23.7	40.6	53.7	6.9	32.4	20.3	34.8	46.0	5.9	27.7
Female.....	30.1	50.1	65.0	8.2	26.8	24.2	40.3	52.3	6.6	21.6
White.....	48.6	76.5	106.4	11.8	51.6	23.9	37.6	52.4	5.8	25.4
Black.....	4.6	10.7	9.0	2.7	5.9	15.6	36.5	30.6	9.3	19.9
Northeast.....	9.3	21.8	18.5	2.6	10.5	18.9	44.3	37.5	5.3	21.3
Midwest.....	12.3	21.3	31.6	3.4	14.9	20.6	35.7	53.1	5.8	25.0
South.....	24.7	27.4	30.8	6.0	19.8	30.0	33.3	37.5	7.3	24.0
West.....	7.5	20.2	37.8	3.0	14.0	15.1	40.5	75.8	6.1	28.2
Family income:										
Under \$10,000.....	5.6	11.9	15.4	2.7	8.7	19.8	42.0	54.1	9.6	30.5
\$10,000 to \$19,999.....	9.2	13.8	17.9	3.2	10.6	21.9	32.7	42.4	7.7	25.1
\$20,000 to \$34,999.....	13.6	21.6	30.5	3.3	15.1	22.9	36.3	51.1	5.5	25.4
\$35,000 or more.....	19.8	30.2	40.0	3.6	18.1	25.5	40.4	53.4	4.8	24.2

<sup>1</sup> Includes other races and unknown income, not shown separately.

Source: U.S. National Center for Health Statistics, *Vital and Health Statistics*, series 10, and unpublished data.

**No. 195. Prevalence of Selected Reported Chronic Conditions, by Age and Sex: 1980 and 1988**

[See headnote, table 196]

CHRONIC CONDITION	1980		1988								
	Number of conditions (1,000)	Rate <sup>1</sup>	Number of conditions (1,000)	Rate <sup>1</sup>							
				Total	Under 18 yrs.	18-44 yrs.	45-64 yrs.	65-74 yrs.	75 yrs. and over	Male	Female
Heart conditions.....	16,434	75.4	20,258	84.1	23.3	39.8	135.9	271.8	333.6	81.1	86.9
High blood pressure (Hypertension).....	24,919	114.3	29,257	121.5	2.3	64.7	257.8	372.6	373.6	110.7	131.5
Varicose veins of lower extremities.....	5,930	27.2	7,632	31.7	<sup>2</sup>	26.6	56.8	75.8	87.2	13.3	48.9
Hemorrhoids.....	8,616	39.5	11,041	45.8	<sup>2</sup> 1.3	53.8	78.2	63.8	65.6	41.7	49.7
Chronic bronchitis.....	7,869	36.1	11,894	49.4	54.3	39.0	56.1	65.6	63.5	40.8	57.4
Asthma.....	6,803	31.2	9,934	41.2	49.9	38.7	34.8	43.6	38.0	39.9	42.5
Chronic sinusitis.....	31,956	145.0	33,658	139.7	61.4	157.5	188.0	176.2	167.8	116.1	161.9
Hay fever, allergic rhinitis without asthma.....	17,433	80.0	22,413	93.0	63.4	114.6	99.4	79.0	59.4	88.0	97.8
Dermatitis, including eczema.....	9,139	41.9	9,025	37.5	34.9	42.5	36.1	30.2	22.7	28.2	46.2
Diseases of sebaceous glands <sup>4</sup> .....	5,046	23.2	6,013	25.0	28.6	34.8	9.3	6.4	6.7	25.3	24.6
Arthritis.....	27,773	127.4	31,292	129.9	2.3	53.3	257.1	444.7	550.4	92.5	165.0
Trouble with—											
Ingrown nails.....	<sup>4</sup> 4,503	<sup>4</sup> 19.8	6,177	25.6	8.1	28.2	32.1	37.1	57.7	20.9	30.1
Corns and calluses.....	<sup>4</sup> 4,811	<sup>4</sup> 21.2	4,534	18.8	<sup>2</sup> 0.9	16.6	34.0	46.8	35.9	14.2	23.1
Dry (itching) skin.....	<sup>4</sup> 3,888	<sup>4</sup> 16.3	4,788	19.9	9.6	20.3	23.3	31.3	42.8	18.0	21.7
Diabetes.....	5,665	26.0	6,221	25.8	2.2	9.2	54.6	95.2	67.8	25.0	26.6
Migraine.....	5,630	25.8	9,222	38.3	14.2	55.5	45.4	24.3	<sup>2</sup> 9.2	21.8	53.7
Diseases of urinary system <sup>5</sup> .....	5,444	25.0	6,387	26.5	7.2	25.8	35.2	48.6	72.8	15.6	36.8
Visual impairments.....	7,984	36.6	8,365	34.7	<sup>2</sup> 1.0	29.2	47.7	67.4	127.6	44.2	25.8
Cataracts.....	<sup>5</sup> 1,124	<sup>5</sup> 22.6	6,105	25.3	<sup>2</sup> 1.0	2.4	21.6	118.1	246.0	17.7	32.5
Hearing impairments.....	17,370	79.7	21,864	90.8	17.0	48.7	147.6	273.7	380.7	106.3	76.2
Tinnitus.....	<sup>5</sup> 130	<sup>5</sup> 22.6	6,361	26.4	<sup>2</sup> 1.1	16.0	49.2	89.4	75.1	26.6	26.2
Deformities or orthopedic impairments.....	18,504	84.9	26,878	111.6	28.8	131.4	150.9	151.4	176.6	109.8	113.3
Hernia of abdominal cavity.....	<sup>4</sup> 4,970	<sup>4</sup> 21.9	4,744	19.7	5.8	9.2	38.9	53.5	64.0	21.6	18.0
Frequent indigestion.....	<sup>4</sup> 5,360	<sup>4</sup> 23.6	5,817	24.1	3.5	27.4	35.2	40.1	42.2	23.3	25.0
Frequent constipation.....	<sup>4</sup> 4,431	<sup>4</sup> 19.5	4,580	19.0	9.1	12.9	21.9	33.6	97.2	11.0	28.6

- Represents or rounds to zero. NA Not available. <sup>1</sup> Conditions per 1,000 persons. <sup>2</sup> Figure does not meet standards of reliability or precision. <sup>3</sup> Acne and sebaceous skin cyst. <sup>4</sup> 1982 data. <sup>5</sup> Includes kidney trouble and bladder disorders.

Source: U.S. National Center for Health Statistics, *Vital and Health Statistics*, series 10 and unpublished data.

**No. 196. Persons With Activity Limitation, by Selected Chronic Conditions: 1985**

[Covers civilian noninstitutional population. Conditions classified according to ninth revision of International Classification of Diseases. Based on National Health Interview Survey; see Appendix III. See headnote, table 188]

CONDITION	Total <sup>1</sup>	AGE			SEX		RACE		FAMILY INCOME		
		Under 45 years	45-64 years	65 years and over	Male	Female	White	Black	Under \$20,000	\$20,000 to \$34,999	\$35,000 and over
<b>Persons with limitation (mil.)</b> . . . . .	<b>32.7</b>	<b>11.6</b>	<b>10.4</b>	<b>10.7</b>	<b>15.3</b>	<b>17.4</b>	<b>28.0</b>	<b>4.1</b>	<b>16.6</b>	<b>7.1</b>	<b>4.7</b>
<b>Percent limited by—</b>											
Heart conditions . . . . .	17.4	4.7	21.5	27.1	18.2	16.7	17.5	16.9	21.5	14.4	14.8
Arthritis and rheumatism . . . . .	18.9	5.4	22.8	29.7	12.4	24.6	18.9	20.3	25.0	14.3	13.5
Hypertension <sup>2</sup> . . . . .	10.5	2.9	15.2	14.2	7.9	12.8	9.0	21.3	15.1	7.0	5.3
Impairment of back/spine . . . . .	9.2	12.5	10.4	4.4	8.9	9.4	9.4	7.0	9.1	11.0	10.6
Impairment of lower extremities and hips . . . . .	8.9	10.7	8.2	7.8	9.4	8.5	9.0	8.1	10.1	8.5	9.6
<b>Percent of all persons with—</b>											
No activity limitation . . . . .	86.0	92.8	76.6	60.4	86.4	85.6	85.9	85.5	79.7	89.2	91.9
Activity limitation . . . . .	14.0	7.2	23.4	39.6	13.6	14.4	14.1	14.5	20.3	10.8	8.1
In major activity . . . . .	9.5	4.9	17.5	24.1	9.7	9.4	9.4	11.1	14.2	7.3	5.1

<sup>1</sup> Includes persons with unknown family income and other races, not shown separately. <sup>2</sup> Covers all cases of hypertension, regardless of other conditions.

Source: U.S. National Center for Health Statistics, *Vital and Health Statistics*, series 10, and unpublished data.

**No. 197. Persons Needing Assistance With Activities, by Type of Activity, Age and Sex: 1986**

[Based on Survey of Income and Program Participation and subject to sampling error; see source for details]

AGE AND SEX	Total (1,000)	NEEDING IN ASSISTANCE WITH—						No assistance needed
		One or more activities <sup>1</sup>	Type of activity—					
			Personal care	Getting around outside	Preparing meals	Doing house- work	Finan- ces <sup>2</sup>	
<b>Total</b> . . . . .	<b>186,022</b>	<b>8,206</b>	<b>3,211</b>	<b>5,213</b>	<b>4,830</b>	<b>5,927</b>	<b>3,039</b>	<b>177,816</b>
Age: Under 65 years old . . . . .	158,359	3,794	1,383	2,077	2,315	2,821	1,050	154,564
65 to 69 years old . . . . .	9,615	890	285	546	484	635	274	8,724
70 to 74 years old . . . . .	7,391	806	336	525	472	566	299	6,586
75 to 79 years old . . . . .	5,434	1,026	408	678	554	710	408	4,408
80 to 84 years old . . . . .	3,126	738	311	595	365	473	334	2,388
85 years old and over . . . . .	2,097	952	487	791	639	722	674	1,145
<b>Male, total</b> . . . . .	<b>88,958</b>	<b>2,551</b>	<b>1,258</b>	<b>1,606</b>	<b>1,413</b>	<b>1,418</b>	<b>1,123</b>	<b>86,407</b>
Under 65 years old . . . . .	77,547	1,300	642	753	739	759	555	76,247
65 to 69 years old . . . . .	4,316	301	143	205	166	159	123	4,015
70 to 74 years old . . . . .	3,208	281	115	167	157	132	117	2,927
75 years old and over . . . . .	3,886	669	359	482	350	369	329	3,217
<b>Female, total</b> . . . . .	<b>97,064</b>	<b>5,655</b>	<b>1,953</b>	<b>3,607</b>	<b>3,417</b>	<b>4,508</b>	<b>1,916</b>	<b>91,409</b>
Under 65 years old . . . . .	80,812	2,495	741	1,324	1,576	2,062	495	78,317
65 to 69 years old . . . . .	5,298	589	142	341	318	476	151	4,709
70 to 74 years old . . . . .	4,183	525	220	358	315	435	182	3,659
75 years old and over . . . . .	6,771	2,046	849	1,583	1,208	1,536	1,087	4,725

<sup>1</sup> Excludes duplication. <sup>2</sup> Keeping track of bills or money.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-70, No. 19.

**No. 198. Drug Use, by Type of Drug and Age Group: 1974 and 1988**

[Current users are those who used drugs at least once within month prior to this study. For 1988, based on national samples of 8,810 respondents residing in households. Subject to sampling variability; see source]

TYPE OF DRUG	PERCENT OF PERSONS 12-17 YEARS OLD				PERCENT OF PERSONS 18-25 YEARS OLD				PERCENT OF PERSONS 26 YEARS OLD AND OVER			
	Ever used		Current user		Ever used		Current user		Ever used		Current user	
	1974	1988	1974	1988	1974	1988	1974	1988	1974	1988	1974	1988
Marihuana . . . . .	23.0	17.4	12.0	6.4	52.7	56.4	25.2	15.5	9.9	30.7	2.0	3.9
Inhalants . . . . .	8.5	8.8	0.7	2.0	9.2	12.5	(NA)	1.7	1.2	3.9	(NA)	0.2
Hallucinogens . . . . .	6.0	3.5	1.3	0.8	16.6	13.8	2.5	1.9	1.3	6.6	(NA)	(NA)
Cocaine . . . . .	3.6	3.4	1.0	1.1	12.7	19.7	3.1	4.5	0.9	9.9	(NA)	0.9
Heroin . . . . .	1.0	0.6	(NA)	(NA)	4.5	0.4	(NA)	(NA)	0.5	1.1	(NA)	(NA)
Analgesics <sup>1</sup> . . . . .	(NA)	4.2	(NA)	0.9	(NA)	9.4	(NA)	1.5	(NA)	4.5	(NA)	0.4
Stimulants <sup>1</sup> . . . . .	5.0	4.2	1.0	1.2	17.0	11.3	3.7	2.4	3.0	6.6	(NA)	0.5
Sedatives <sup>1</sup> . . . . .	5.0	2.4	1.0	0.6	15.0	5.5	1.6	0.9	2.0	3.3	(NA)	0.3
Tranquilizers . . . . .	3.0	0.2	1.0	0.2	10.0	7.8	1.2	1.0	2.0	4.6	(NA)	0.6
Alcohol . . . . .	54.0	50.2	34.0	25.2	81.6	90.3	69.3	65.3	73.2	88.6	54.5	54.8
Cigarettes . . . . .	52.0	42.3	25.0	11.8	68.8	75.0	48.8	35.2	65.4	79.6	39.1	29.8

NA Not available. <sup>1</sup> Nonmedical use.

Source: U.S. National Institute on Drug Abuse, *National Household Survey on Drug Abuse: 1988*.

**No. 199. Current Users of Cigarettes, Alcohol, Marihuana, and/or Cocaine: 1988**

[In percent. See headnote, table 198. For composition of regions, see fig. 1, inside front cover]

SUBSTANCE AND AGE GROUP	Total <sup>1</sup>	SEX		RACE/ETHNICITY			REGION			
		Male	Female	White <sup>2</sup>	Black <sup>2</sup>	Hispanic	North-east	Mid-west	South	West
Cigarettes: Total	28.8	32.2	25.6	28.7	30.3	26.3	29.3	29.6	31.1	22.9
12 to 17 years old	11.8	12.4	11.2	13.9	5.1	7.5	11.4	12.9	12.4	9.1
18 to 25 years old	35.2	35.6	34.8	36.9	29.5	28.2	33.8	45.0	34.0	27.8
26 to 34 years old	37.1	40.7	33.6	37.2	36.1	33.6	35.7	45.8	34.0	33.8
35 years old and over	27.3	32.2	23.0	26.3	35.5	27.6	29.1	23.3	33.0	19.5
Alcohol: Total	53.4	60.6	46.7	55.1	44.3	49.2	59.2	55.7	45.1	60.3
12 to 17 years old	25.2	26.8	23.5	27.4	15.9	25.4	30.2	27.9	21.2	24.7
18 to 25 years old	65.3	74.5	56.6	68.8	50.0	61.4	70.8	73.0	53.2	74.7
26 to 34 years old	64.2	73.9	54.8	66.2	57.0	58.8	68.8	72.8	55.9	65.4
35 years old and over	51.5	58.6	45.4	52.7	44.9	46.0	58.1	50.9	43.7	59.7
Marijuana: Total	5.9	7.9	4.0	5.6	6.3	6.0	5.5	6.7	4.8	7.3
12 to 17 years old	6.4	6.1	6.7	6.8	4.4	5.2	6.5	6.7	5.9	7.0
18 to 25 years old	15.5	20.0	11.2	15.7	15.0	13.8	18.4	17.9	12.2	16.3
26 to 34 years old	10.8	14.8	7.0	11.2	9.3	9.1	9.6	14.2	8.8	11.9
35 years old and over	1.4	2.2	0.7	1.1	2.2	(B)	1.1	1.1	0.9	3.1
Cocaine: Total	1.5	2.0	1.0	1.3	2.0	2.6	2.1	1.5	1.0	1.7
12 to 17 years old	1.1	0.9	1.4	1.3	(B)	1.3	0.9	1.7	(B)	2.5
18 to 25 years old	4.5	6.0	3.0	4.2	4.3	6.7	7.0	4.8	2.9	4.7
26 to 34 years old	2.6	3.6	1.6	2.3	3.0	3.9	2.6	3.3	1.8	3.1
35 years old and over	0.4	0.5	(B)	0.3	1.1	(B)	1.0	(B)	(B)	(B)

B Base too small to meet statistical standard of a reliable figure. <sup>1</sup> Includes other races, not shown separately.<sup>2</sup> Non-Hispanic.Source: U.S. National Institute on Drug Abuse, *National Household Survey on Drug Abuse, 1988*.**No. 200. Alcoholism and Drug Abuse Treatment Facilities and Clients, by Facility Location and Ownership: 1989**

[As of September 30. Based on the National Drug and Alcoholism Treatment Unit Survey (NDATUS), a census of all known drug abuse and alcoholism treatment facilities in the U.S. Data collected in cooperation with State agencies which defined what constitutes a facility for reporting purposes]

FACILITY LOCATION AND OWNERSHIP	TOTAL			ALCOHOLISM TREATMENT			DRUG ABUSE TREATMENT		
	Units reporting <sup>1,2</sup>	Clients in treatment <sup>2</sup>	Budgeted capacity	Units reporting <sup>2</sup>	Clients in treatment <sup>2</sup>	Budgeted capacity	Units reporting <sup>2</sup>	Clients in treatment <sup>2</sup>	Budgeted capacity
<b>Total</b>	<b>7,642</b>	<b>718,966</b>	<b>903,250</b>	<b>6,374</b>	<b>374,437</b>	<b>469,603</b>	<b>6,170</b>	<b>344,529</b>	<b>433,647</b>
Community mental health center	956	107,613	123,145	883	68,627	75,665	848	38,986	47,480
Hospital	1,353	86,921	127,397	1,244	45,637	64,291	1,150	43,284	63,106
Correctional facility	113	13,753	21,480	82	3,657	6,020	104	10,096	15,460
Halfway house	745	18,293	23,455	705	11,933	14,851	451	6,360	8,604
Other residential facility	1,049	50,089	66,245	789	20,506	28,959	863	29,583	37,286
Outpatient facility	2,977	366,834	459,983	2,347	197,153	249,603	2,389	169,681	210,380
Other location	449	73,463	81,545	324	26,924	30,214	365	46,539	51,331
Private for-profit	1,258	91,632	145,110	1,129	53,167	81,013	1,047	38,465	64,097
Private nonprofit	4,958	431,576	529,576	4,132	221,242	272,044	4,025	210,334	257,532
State and local government	1,236	171,907	199,105	942	84,691	97,657	967	87,216	101,448
Federal government	190	23,851	29,459	171	15,337	18,889	131	8,514	10,570

<sup>1</sup> Unduplicated count. <sup>2</sup> Excludes units reporting no clients in treatment or no budgeted capacity. With these data included, total number of clients in treatment is 718,966. <sup>3</sup> Includes general hospitals, alcoholism hospitals.Source: U.S. National Institute on Drug Abuse and U.S. National Institute on Alcohol Abuse and Alcoholism, *1989 National Drug and Alcoholism Treatment Unit Survey: Final Report*.

### No. 201. Cigarette Smoking, by Age, Sex, Race, and Educational Attainment: 1965 to 1987

[In percent, except total population in millions. For persons 20 years old and over. Based on the National Health Interview Survey; see Appendix III]

CHARACTERISTIC	1965	1970	1974	1976	1977	1978	1979	1980	1983	1985	1987
<b>Total 20 years old and over</b> <sup>1</sup>	<b>109.0</b>	<b>120.4</b>	<b>123.8</b>	<b>125.1</b>	<b>123.7</b>	<b>137.8</b>	<b>139.5</b>	<b>143.7</b>	<b>158.7</b>	<b>160.3</b>	<b>162.2</b>
<b>PRESENT SMOKERS</b>											
Age:											
20 to 24 years old	47.8	41.5	39.6	39.6	38.8	35.3	35.9	36.1	36.9	31.8	29.5
25 to 44 years old	49.5	44.5	44.6	42.5	41.9	39.5	39.3	38.0	36.3	34.8	33.2
45 to 64 years old	39.9	38.5	37.7	37.8	37.3	37.1	35.3	36.3	33.3	31.6	30.9
65 years old and over	17.1	16.2	17.2	17.0	17.4	16.4	16.5	17.3	16.7	16.0	15.2
Sex:											
Male	50.2	44.3	43.4	42.1	40.9	39.0	38.4	38.5	35.5	33.2	31.5
Female	31.9	30.8	31.4	31.3	31.4	29.6	29.2	29.0	28.7	28.0	26.2
Race:											
White	40.0	36.5	36.1	35.6	34.9	33.6	33.2	32.9	31.4	29.9	28.3
Black	43.0	41.4	44.0	41.2	41.8	38.2	36.8	37.2	36.6	36.0	33.5
Educational attainment:											
Less than high school	(NA)	34.8	36.5	35.8	35.8	35.3	34.9	35.5	34.7	35.7	33.9
High school graduate	(NA)	38.3	37.6	37.8	38.4	36.5	35.4	35.7	35.6	34.2	32.9
Some college	(NA)	36.7	36.9	36.4	35.2	32.7	33.3	31.2	30.0	28.1	25.8
College graduate	(NA)	28.1	28.3	27.4	25.6	23.8	23.4	24.6	19.9	18.4	16.1
<b>QUIT RATIO</b> <sup>2</sup>											
Age:											
20 to 24 years old	17.8	20.8	20.9	22.0	22.9	22.8	22.6	22.2	21.4	26.0	23.8
25 to 44 years old	23.6	29.8	29.3	29.4	29.6	31.9	31.8	33.0	34.3	38.2	37.2
45 to 64 years old	30.9	36.1	39.7	40.4	39.5	40.1	42.4	40.9	46.4	49.7	49.2
65 years old and over	48.7	56.9	57.8	59.6	58.7	62.4	61.7	61.0	64.7	68.0	69.2
Sex:											
Male	31.4	37.9	39.3	39.9	40.3	41.3	41.5	41.5	44.1	49.0	46.4
Female	24.6	29.2	30.8	32.1	31.3	33.8	34.0	34.0	37.6	40.0	41.4
Race:											
White	30.5	36.7	38.0	38.4	38.2	39.9	40.3	40.4	43.3	46.7	46.6
Black	22.8	23.2	21.8	26.3	24.8	27.5	28.0	27.7	29.3	31.8	32.0
Educational attainment:											
Less than high school	(NA)	38.1	38.0	39.5	38.3	38.7	40.8	39.4	42.1	41.3	44.3
High school graduate	(NA)	33.6	35.2	35.0	34.0	36.3	36.7	36.5	38.7	40.5	41.1
Some college	(NA)	34.9	36.6	37.2	36.8	41.0	37.5	40.6	41.2	46.0	45.5
College graduate	(NA)	48.2	47.9	46.1	48.6	49.7	50.6	48.7	54.9	61.1	59.1

NA Not available. <sup>1</sup> Includes other races, not shown separately. <sup>2</sup> Percent of persons who have ever smoked who are former smokers.

Source: U.S. Centers for Disease Control, Office of Smoking and Health, *Reducing the Health Consequences of Smoking, 1989*.

### No. 202. Cancer—Estimated New Cases, 1990, and Survival Rates, 1974-76 to 1981-86

[Five-year survival rates represent the number of persons who live at least 5 years after a disease is diagnosed per 100 persons diagnosed with the disease in a given time period. Survival data shown are based on those patients diagnosed while residents of an area listed below during the time periods shown. Data are based on information collected as part of the National Cancer Institute's Surveillance, Epidemiology and End Results (SEER) program, a collection of population-based registries in Connecticut, New Mexico, Utah, Iowa, Hawaii, Atlanta, Detroit, Seattle-Puget Sound, and San Francisco-Oakland]

SITE	ESTIMATED NEW CASES, <sup>1</sup> 1990 (1,000)			5-YEAR RELATIVE SURVIVAL RATES (percent)								
	Total	Male	Female	All races <sup>2</sup>			White			Black		
				1974-1976	1977-1980	1981-1986	1974-1976	1977-1980	1981-1986	1974-1976	1977-1980	1981-1986
<b>All sites</b> <sup>3</sup>	<b>1,040</b>	<b>520</b>	<b>520</b>	<b>49.0</b>	<b>49.4</b>	<b>50.7</b>	<b>50.0</b>	<b>50.4</b>	<b>52.0</b>	<b>38.6</b>	<b>38.7</b>	<b>38.2</b>
Lung	157	102	55	12.2	13.1	13.1	12.3	13.2	13.4	11.2	11.6	10.9
Breast	151	1	150	74.0	74.3	76.6	74.6	75.0	77.5	62.6	62.9	64.3
Colon	110	52	58	49.9	52.4	56.4	50.1	52.7	57.0	45.5	47.8	47.5
Prostate	106	106	(X)	66.5	70.6	73.3	67.4	71.7	74.7	57.7	62.2	62.1
Bladder	49	36	13	72.2	74.6	78.2	73.4	75.5	79.0	47.3	54.4	58.7
Rectum	45	24	21	48.1	49.6	53.4	48.5	50.6	54.3	41.3	36.8	41.3
Corpus uteri	33	(X)	33	88.2	84.3	82.6	89.0	85.8	84.0	62.2	56.0	55.0
Non-Hodgkin's lymphoma	36	19	17	46.9	48.2	50.8	47.3	48.5	51.4	47.8	48.9	45.1
Oral cavity and pharynx	31	20	10	52.9	52.0	50.9	54.6	54.0	53.4	35.4	34.1	31.2
Leukemia	28	16	12	33.4	35.2	34.9	34.1	36.0	35.9	30.4	29.4	28.7
Melanoma of skin	28	15	13	79.2	81.1	81.1	79.5	81.4	81.3	68.6	49.2	65.1
Pancreas	28	14	15	2.7	2.6	3.1	2.8	2.3	2.9	2.2	5.1	3.5
Kidney	24	15	9	51.4	51.7	52.6	51.5	51.2	52.8	49.3	56.3	51.3
Stomach	23	14	9	14.9	16.4	17.0	14.2	15.6	15.8	16.1	16.3	18.2
Ovary	21	(X)	21	36.5	38.0	38.9	36.2	37.4	38.7	40.8	39.4	37.6
Cervix uteri	21	(X)	14	68.3	67.3	65.8	69.1	68.2	67.3	62.9	61.9	57.1

X Not applicable. <sup>1</sup> Estimates provided by American Cancer Society are based on rates from the National Cancer Institute's SEER program 1984-1986. <sup>2</sup> Includes other races, not shown separately. <sup>3</sup> Includes other sites, not shown separately.

<sup>4</sup> Survival rates for female only. <sup>5</sup> All types combined. <sup>6</sup> Invasive cancer only.

Source: U.S. National Institutes of Health, National Cancer Institute, *Cancer Statistics Review: 1973-1987, 1990*.

### No. 203. Women Who Have Had a Mammogram, Breast Physical Exam or Who Perform Breast Self Exams (BSE): 1987

[For women 40 years old and over. Based on the National Health Interview Survey and subject to sampling error; for details see source and Appendix III]

AGE AND RACE	Total women (1,000)	PERCENT HAVING A—						PERCENT PERFORMING BSE—		
		Mammogram			Breast physical exam			At least once a week	Once a month to less than once a week	Less than once a month
		Ever	In the past—		Ever	In the past—				
			11 months	12-36 months		11 months	12-36 months			
<b>Total</b> <sup>1</sup>	<b>47,676</b>	<b>38.1</b>	<b>14.8</b>	<b>14.3</b>	<b>81.3</b>	<b>33.2</b>	<b>30.4</b>	<b>14.5</b>	<b>32.8</b>	<b>20.0</b>
40 to 54 years old	19,597	42.2	16.8	16.1	86.7	39.0	32.3	13.4	37.4	24.5
40 to 44 years old	7,664	38.8	14.7	15.3	87.3	39.4	32.5	9.7	42.0	27.4
45 to 49 years old	6,344	43.5	18.1	16.7	86.6	39.1	30.4	15.8	35.2	22.8
50 to 54 years old	5,588	45.5	18.3	16.6	86.1	38.5	34.3	16.1	33.2	22.3
55 to 64 years old	11,749	41.1	16.9	13.6	83.1	31.9	32.4	14.8	35.0	18.6
55 to 59 years old	5,814	43.2	17.6	14.9	85.9	34.5	33.6	14.3	35.5	19.4
60 to 64 years old	5,935	38.7	16.1	12.1	80.0	28.9	31.1	15.4	34.4	17.7
65 to 74 years old	9,665	35.2	12.9	14.3	76.8	30.7	26.3	15.7	30.4	17.2
65 to 69 years old	5,436	37.5	14.7	14.0	79.8	33.3	26.0	15.9	33.6	16.4
70 to 74 years old	4,229	32.1	10.5	14.7	72.7	27.1	26.9	15.6	26.1	18.3
75 years old and over	6,665	24.8	8.0	9.9	68.2	21.8	26.7	15.3	18.8	13.1
75 to 79 years old	3,418	30.0	9.6	12.4	73.1	23.6	27.7	13.7	23.0	14.6
80 to 85 years old	2,008	20.4	<sup>25.1</sup> 9.4	9.4	65.5	20.1	29.6	18.6	17.7	10.7
85 years old and over	1,239	17.5	<sup>27.9</sup> 7.9	<sup>3.6</sup> 9.4	58.8	19.7	19.4	14.5	9.2	12.9
<b>White</b>	<b>41,877</b>	<b>39.2</b>	<b>15.3</b>	<b>14.8</b>	<b>82.8</b>	<b>33.6</b>	<b>30.9</b>	<b>13.5</b>	<b>33.5</b>	<b>20.9</b>
40 to 54 years old	16,757	43.9	17.6	16.8	88.6	39.5	32.9	11.9	38.2	26.1
55 to 64 years old	10,311	42.2	17.1	14.1	84.8	32.5	33.2	13.7	36.0	19.0
65 to 74 years old	8,715	36.5	13.4	14.9	78.3	31.0	26.9	15.1	31.3	17.8
75 years old and over	6,094	25.5	8.3	10.3	70.2	22.7	27.3	14.9	19.2	13.8
<b>Black</b>	<b>4,830</b>	<b>31.2</b>	<b>12.9</b>	<b>10.4</b>	<b>73.7</b>	<b>33.4</b>	<b>25.8</b>	<b>21.9</b>	<b>30.1</b>	<b>14.5</b>
40 to 54 years old	2,272	33.7	13.7	11.5	79.6	39.8	27.4	20.5	35.1	16.3
55 to 64 years old	1,205	36.4	17.9	10.7	78.0	31.2	28.0	23.5	32.3	16.5
65 to 74 years old	824	24.7	<sup>28.4</sup> 10.0	<sup>210.0</sup> 65.7	30.4	21.7	29.7	21.4	<sup>212.1</sup> 21.4	<sup>212.1</sup> 12.1
75 years old and over	529	17.1	<sup>23.4</sup> 7.9	<sup>25.2</sup> 9.4	47.6	<sup>212.7</sup> 12.7	<sup>219.7</sup> 19.7	<sup>222.1</sup> 22.1	<sup>214.5</sup> 14.5	<sup>24.4</sup> 4.4

<sup>1</sup> Includes other races, not shown separately. <sup>2</sup> Relative standard error exceeds 30 percent of the estimate.

Source: U.S. National Center for Health Statistics, *Vital and Health Statistics*, series 10, No. 172.

### No. 204. Personal Health Practices, by Selected Characteristic: 1985

[In percent. For persons 18 years of age and over. Based on National Health Interview Survey; see Appendix III]

CHARACTERISTIC	Sleeps 6 hours or less	Never eats breakfast	Snacks every day	Less physically active <sup>1</sup>	Had five or more drinks on any day <sup>2</sup>	Current smoker	30 percent or more above weight <sup>3</sup>
<b>All persons</b> <sup>4</sup>	<b>22.0</b>	<b>24.3</b>	<b>39.0</b>	<b>16.4</b>	<b>37.5</b>	<b>30.1</b>	<b>13.0</b>
Age: 18 to 29 years old	19.8	30.4	42.2	17.1	54.4	31.9	7.5
30 to 44 years old	24.3	30.1	41.4	18.3	39.0	34.5	13.6
54 to 64 years old	22.7	21.4	37.9	15.3	24.6	31.6	18.1
65 years old and over	20.4	7.5	30.7	13.5	12.2	16.0	13.2
65 to 74 years old	19.7	9.0	32.4	15.8	(NA)	19.7	14.9
75 years old and over	21.5	5.1	27.8	9.8	(NA)	10.0	10.3
Sex: Male	22.7	25.2	40.7	16.5	49.3	32.6	12.1
Female	21.4	23.6	37.5	16.3	23.3	27.8	13.7
Race: White	21.3	24.5	39.4	16.7	38.3	29.6	12.4
All other	26.6	23.2	36.3	14.3	29.9	33.1	16.4
Black	27.8	23.6	37.2	13.9	29.3	34.9	18.7
Other	21.4	21.5	32.6	16.5	33.3	24.8	6.7
Education level: Less than 12 years	23.3	22.6	37.8	12.3	35.9	35.4	17.5
12 years	21.9	26.5	39.6	16.5	38.9	33.4	13.4
More than 12 years	21.2	23.3	39.2	19.1	36.8	23.1	9.4

NA Not available. <sup>1</sup> Less than contemporaries. <sup>2</sup> Percent of drinkers who had 5 or more drinks on any one day in the past year. <sup>3</sup> Above desirable weight. Based on 1960 Metropolitan Life Insurance Company standards. Data are self-reported. <sup>4</sup> Excludes persons whose health practices are unknown.

Source: U.S. National Center for Health Statistics *Health Promotion and Disease Prevention, United States 1985*, *Vital and Health Statistics*, series 10, No. 163, and unpublished data.



**No. 205. Medical Device Implants, by Age, Sex, and Race: 1988**

[In thousands, except percent. Based in the National Health Interview Survey; for details, see Appendix III]

DEVICE	Total <sup>1</sup>	PERCENT DISTRIBUTION							
		Age				Sex		Race	
		Under 18 years old	18 to 44 years old	45 to 64 years old	65 years old and over	Male	Female	White	Black
Artificial joints <sup>2</sup>	1,625	<sup>3</sup> 0.6	13.0	24.6	61.7	39.9	60.1	92.3	6.2
Hip joints	816	<sup>3</sup> 0.5	6.5	26.3	66.7	37.5	62.4	93.5	5.5
Knee joints	521	-	10.9	20.5	68.5	41.8	58.2	88.1	10.0
Fixation devices <sup>4</sup>	4,890	<sup>3</sup> 3.9	44.3	28.4	23.4	57.2	42.8	91.7	6.6
Head	351	<sup>3</sup> 4.3	67.8	22.8	<sup>5</sup> 5.4	57.3	42.7	93.2	<sup>3</sup> 4.8
Torso	563	<sup>3</sup> 5.3	49.6	31.8	13.3	62.7	37.5	92.2	<sup>3</sup> 6.9
Upper extremities	646	<sup>3</sup> 3.7	55.9	25.4	15.0	70.4	29.7	91.6	<sup>3</sup> 5.6
Lower extremities	2,690	<sup>3</sup> 3.0	39.6	27.9	29.4	52.8	47.2	91.1	7.7
Other	622	<sup>3</sup> 6.4	34.4	34.1	25.1	57.9	42.1	93.6	<sup>3</sup> 3.7
Other devices:									
Ear vent tubes	1,494	<sup>5</sup> 25.8	<sup>6</sup> 27.0	<sup>7</sup> 34.6	<sup>8</sup> 12.6	39.9	61.1	92.3	6.2
Silicone implants	620	<sup>3</sup> 0.5	73.1	23.7	<sup>3</sup> 2.9	8.2	91.8	97.6	<sup>3</sup> 0.8
Breast implants	544	<sup>3</sup> 0.6	73.0	24.1	<sup>3</sup> 2.6	32.0	98.0	98.5	-
Shunt or catheter	321	24.3	24.3	22.1	29.3	50.5	49.2	85.7	<sup>3</sup> 12.5
Dental implants	275	<sup>3</sup> 2.2	57.8	27.3	<sup>3</sup> 12.7	56.4	43.6	93.8	<sup>3</sup> 4.0
Heart valve	279	(NA)	<sup>9</sup> 14.7	35.5	49.8	52.3	47.8	89.2	10.0
Pacemaker	460	(NA)	(NA)	<sup>10</sup> 13.5	86.7	50.4	49.6	93.7	<sup>3</sup> 5.2
Eye lens	3,765	(NA)	(NA)	<sup>10</sup> 18.7	81.3	37.8	62.4	95.6	3.5

- Represents or rounds to zero. NA Not available. <sup>1</sup> Includes other races, not shown separately. <sup>2</sup> Includes other devices, not shown separately. <sup>3</sup> Figure does not meet standards of reliability or precision. <sup>4</sup> Includes sites unknown. Each device represents a single body part regardless of the number of pins, screws, nails, wires, rods or plates. <sup>5</sup> Under 3 years old. <sup>6</sup> 3 to 5 years old. <sup>7</sup> 6 to 17 years old. <sup>8</sup> 18 years old and over. <sup>9</sup> Under 45 years old. <sup>10</sup> Under 65 years old.

Source: U.S. National Center for Health Statistics, *National Health Interview Survey*, 1988, unpublished data.**No. 206. Cumulative Percent Distribution of Population, by Height and Sex: 1976-80**

[For persons 18 to 74 years old. Height was measured without shoes. Based on sample and subject to sampling variability; see source]

HEIGHT	MALES						FEMALES					
	18 to 24 years	25 to 34 years	35 to 44 years	45 to 54 years	55 to 64 years	65 to 74 years	18 to 24 years	25 to 34 years	35 to 44 years	45 to 54 years	55 to 64 years	65 to 74 years
Percent under—												
4'8"	-	-	-	-	-	-	0.05	-	0.10	0.28	0.46	1.04
4'9"	-	-	-	-	-	-	0.43	0.23	0.34	0.35	1.07	2.27
4'10"	-	-	-	-	-	-	0.94	0.64	0.95	1.22	3.02	4.23
4'11"	-	-	-	-	-	-	2.22	1.65	1.94	4.20	6.43	9.33
5'	0.18	0.05	0.27	-	0.27	0.24	4.22	3.65	4.56	8.88	11.40	17.20
5'1"	0.18	0.31	0.34	0.19	0.72	1.22	9.13	8.60	7.75	16.16	19.70	29.00
5'2"	0.34	0.42	0.87	0.70	0.92	2.66	17.75	19.11	18.24	27.68	31.71	44.34
5'3"	0.61	0.54	2.07	1.50	2.78	5.97	29.06	32.96	33.11	39.83	45.87	59.15
5'4"	2.37	1.55	3.68	2.55	5.28	10.53	41.81	47.43	49.90	57.21	63.89	76.44
5'5"	3.85	4.36	6.36	5.72	9.29	18.31	58.09	61.36	63.88	70.47	77.44	86.97
5'6"	8.24	9.51	12.39	11.39	17.54	29.42	74.76	74.92	78.07	84.64	88.91	94.63
5'7"	16.18	15.25	17.63	21.24	29.10	41.63	85.37	85.65	87.95	91.21	94.56	97.86
5'8"	26.68	26.69	26.40	33.56	43.53	57.75	92.30	93.28	93.43	96.28	97.70	99.20
5'9"	38.89	39.68	42.52	50.39	58.21	69.96	96.23	97.19	97.18	98.17	99.36	99.81
5'10"	53.66	55.35	57.01	63.38	71.51	81.95	98.34	99.49	99.19	99.58	99.78	99.92
5'11"	68.25	69.67	70.70	76.94	83.09	89.59	99.38	99.68	99.39	99.84	99.81	100.00
6'	80.14	81.58	81.15	85.83	90.99	94.52	-	-	-	-	-	-
6'1"	88.54	89.95	90.04	93.43	96.28	97.82	-	-	-	-	-	-
6'2"	92.74	95.57	95.05	98.01	97.66	99.17	-	-	-	-	-	-
6'3"	96.17	97.98	97.82	99.35	98.90	99.86	-	-	-	-	-	-
6'4"	98.40	99.23	99.19	99.70	99.79	100.00	-	-	-	-	-	-

- Represents or rounds to zero.

Source: U.S. National Center for Health Statistics, *Vital and Health Statistics*, series 11, No. 238.

## No. 207. Per Capita Consumption of Major Food Commodities: 1970 to 1989

[In pounds, retail weight except as indicated. Consumption represents the residual after exports, nonfood use and ending stocks are subtracted from the sum of beginning stocks, domestic production, and imports. Based on Bureau of the Census population estimates. For similar but unrevised data, see *Historical Statistics, Colonial Times to 1970*, series G 881-915]

COMMODITY	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
Red meat, total (boneless, trim, med. weight)	132.4	124.2	123.4	120.3	119.9	120.9	118.3	113.3	115.1	111.3
Beef	79.6	83.0	72.1	73.8	73.6	74.3	74.1	69.2	68.2	65.0
Veal	2.0	2.8	1.3	1.4	1.5	1.5	1.6	1.3	1.1	1.0
Lamb and mutton	2.1	1.3	1.0	1.1	1.1	1.1	1.0	1.0	1.0	1.1
Pork (excluding lard)	48.6	37.1	49.1	44.0	43.7	44.1	41.6	41.8	44.7	44.3
Fish and shellfish (edible weight)	11.8	12.2	12.8	13.1	13.7	14.4	14.5	15.5	15.0	15.7
Fresh and frozen	6.9	7.5	8.0	8.0	8.3	9.0	8.9	10.2	10.2	10.4
Canned	4.5	4.3	4.5	4.8	4.9	5.1	5.2	5.0	4.6	5.0
Tuna	2.5	2.9	2.9	3.1	3.2	3.3	3.6	3.5	3.5	3.9
Cured	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Poultry products:										
Chicken (boneless, trim, med. weight)	27.7	27.5	34.3	36.9	38.1	39.7	40.5	43.2	44.5	47.0
Turkey (boneless, trim, med. weight)	6.4	6.7	8.3	8.9	9.0	9.5	10.5	12.0	12.6	13.5
Eggs (farm weight) (number)	309	276	271	260	259	254	252	253	244	234
Dairy products:										
Total (milk equivalent) <sup>2</sup>	563.9	539.4	543.4	572.1	580.9	592.1	589.6	586.5	580.5	565.0
Fluid milk and cream <sup>3</sup>	275.1	261.2	245.5	235.4	237.0	240.1	238.6	237.4	233.4	230.5
Plain and flavored whole milk	219.1	181.2	146.4	130.0	126.5	122.9	116.0	111.4	105.2	95.3
Lowfat milk, total	38.4	61.3	79.4	85.4	88.6	93.4	98.3	100.1	100.0	103.6
Plain	29.8	53.2	70.0	75.3	78.3	83.0	87.7	89.2	89.4	93.7
Buttermilk	5.5	4.7	4.1	4.3	4.3	4.4	4.2	4.3	4.0	3.5
Flavored drink	3.0	3.3	5.3	5.9	6.0	6.0	6.3	6.6	6.6	6.3
Skim milk	11.6	11.5	11.6	10.6	11.5	12.6	13.4	14	16.0	19.7
Cream	3.8	3.3	3.4	3.7	4.0	4.4	4.7	4.6	4.6	4.7
Yogurt	0.8	2.1	2.6	3.2	3.7	4.1	4.4	4.4	4.6	4.3
Sour cream and dip	1.1	1.6	1.8	2.1	2.2	2.3	2.3	2.4	2.4	2.5
Condensed and evaporated milk:										
Whole milk	7.0	5.2	3.9	3.8	3.7	3.6	3.6	3.7	3.5	3.1
Skim milk	5.0	3.5	3.3	3.2	3.7	3.8	4.3	4.2	4.2	4.7
Cheese	11.4	14.3	17.5	20.5	21.4	22.5	23.0	24.0	23.6	23.7
American	7.0	8.2	9.6	11.6	11.8	12.1	12.1	12.4	11.4	11.0
Cheddar	5.9	6.0	6.9	9.1	9.5	9.7	9.7	10.6	9.4	9.2
Italian	2.1	3.2	4.4	5.3	5.8	6.4	7.0	7.6	8.1	8.5
Mozzarella	1.2	2.1	3.4	3.7	4.0	4.6	5.2	5.6	6.0	6.4
Other	2.3	2.9	3.4	3.7	3.8	3.9	4.0	4.0	4.1	4.3
Swiss	0.9	1.1	1.3	1.3	1.2	1.3	1.3	1.2	1.3	1.2
Cream and Neufchâtel	0.6	0.7	1.0	1.2	1.2	1.2	1.3	1.4	1.5	1.6
Cottage cheese	5.2	4.7	4.5	4.1	4.1	4.1	4.1	3.9	3.9	3.5
Ice cream	17.8	18.6	17.5	18.0	18.1	18.1	18.4	18.3	17.2	16.0
Ice milk	7.7	7.6	7.1	6.9	7	6.9	7.2	7.4	7.8	8.3
Fats and oils:										
Total, fat content only <sup>7</sup>	52.6	52.3	57.2	60.0	58.6	64.0	64.1	62.7	62.7	60.7
Butter (product weight)	5.4	4.7	4.5	4.9	4.9	4.9	4.6	4.6	4.5	4.3
Margarine (product weight)	10.8	11.0	11.3	10.4	10.4	10.8	11.4	10.5	10.2	10.1
Lard (direct use)	4.6	2.9	2.6	2.1	2.1	1.8	1.7	1.8	1.7	1.8
Edible tallow (direct use)	(NA)	(NA)	1.1	2.1	1.7	1.9	1.8	1.0	0.8	0.9
Shortening	17.3	17.0	18.2	18.5	21.2	22.8	22.0	21.3	21.2	21.2
Salad and cooking oils	15.4	17.9	21.2	23.5	19.8	23.5	24.4	24.7	24.8	23.6
Other edible fats and oils	2.3	2.0	1.5	1.6	1.7	1.6	1.7	1.3	1.3	1.3
Grains:										
Wheat flour <sup>8</sup>	110.8	114.5	116.8	117.4	118.9	124.3	125.2	129.3	129.3	122.7
Rice, milled <sup>9</sup>	6.7	7.6	9.4	9.7	8.6	9.1	11.6	13.5	14.3	15.7
Pasta	7.7	9.7	10.0	10.6	11.0	11.3	11.5	11.9	12.2	12.8
Breakfast cereals	10.3	11.6	12.0	12.2	12.5	12.8	13.1	13.4	14.1	14.6
Ready to eat	8.6	9.0	9.7	10.1	10.3	10.5	10.1	10.8	11.1	11.4
Ready to cook	1.7	2.6	2.3	2.1	2.2	2.3	2.4	2.6	3.0	3.2
Sweeteners, total <sup>10</sup>	128.3	124.1	131.7	137.8	143.6	148.5	148.1	151.4	153.0	(NA)
Sugar, refined cane and beet (dry weight) <sup>11</sup>	101.8	89.2	83.6	71.0	67.6	63.4	60.8	62.4	62.0	62.2
Corn sweeteners (dry weight)	19.2	27.5	40.2	52.6	58.8	65.6	67.4	68.6	69.6	69.7
Low-calorie sweeteners (sugar sweetness equivalent) <sup>12</sup>	5.8	6.1	7.7	12.9	15.8	18.1	18.5	19.0	20.0	(NA)
Saccharin	5.8	6.1	7.7	9.5	10.0	8.0	5.5	5.5	6.0	(NA)
Aspartame	-	-	-	3.5	5.8	12.0	13.0	13.0	14.0	(NA)
Other:										
Cocoa beans	3.9	3.2	3.4	4.0	4.3	4.6	4.8	4.9	4.9	5.0
Coffee (green beans)	13.6	12.2	10.3	10.0	10.2	10.4	10.5	10.1	9.3	(NA)
Peanuts (shelled)	5.5	6.0	4.8	5.9	6.0	6.3	6.4	6.4	6.8	7.1
Tree nuts (shelled)	1.8	2.0	1.8	2.2	2.3	2.3	2.2	2.2	2.3	2.4

- Represents or rounds to zero. NA Not available. <sup>1</sup> Excludes consumption from recreational fishing, approximately 3 to 4 pounds per capita. <sup>2</sup> Fat content basis. Includes other products, not shown separately. <sup>3</sup> Fluid milk figures are aggregates of commercial sales and milk produced and consumed on farms. <sup>4</sup> Heavy cream, light cream, and half and half. <sup>5</sup> Excludes cottage, pot, and baker's cheese. <sup>6</sup> Includes other cheeses, not shown separately. <sup>7</sup> The fat content of butter and margarine is 80 percent of product weight. <sup>8</sup> White, whole wheat, semolina, and durum flour. <sup>9</sup> For crop year beginning in previous year. <sup>10</sup> Includes edible syrups (maple, molasses, etc.) and honey, not shown separately. <sup>11</sup> Beginning 1983, includes small amount of refined sugar contained in imported blends and mixtures, including sucrose-dextrose blends, sugar-sweetened tea mixes, and flavored syrups in consumer size containers. <sup>12</sup> Assumes saccharin is 300 times as sweet as sugar and aspartame 200 times as sweet as sugar.

Source: U.S. Department of Agriculture, Economic Research Service, *Food Consumption, Prices, and Expenditures*, annual.

### No. 208. Per Capita Utilization of Selected Commercially Produced Fresh Fruits and Vegetables: 1970 to 1989

[In pounds, farm weight. Domestic food use of fresh fruits and vegetables reflects the fresh-market share of commodity production plus imports and minus exports. All data are on a calendar year basis except for citrus fruits, October or November; apples, August; grapes and pears, July; prior to years indicated]

COMMODITY	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Fresh fruits, total	79.4	85.0	90.0	86.7	87.5	93.0	91.4	89.0	95.5	100.7	99.0	96.6
Noncitrus	50.6	55.6	61.1	61.8	62.7	63.6	67.5	66.5	69.5	75.1	71.9	72.2
Bananas	17.4	17.6	20.8	21.5	22.5	21.2	22.1	23.4	25.7	24.9	24.2	24.6
Apples	17.0	19.2	19.2	17.2	17.7	18.4	18.6	17.5	18.1	21.2	19.9	21.6
Grapes	2.5	3.2	3.8	4.0	6.2	6.0	6.5	7.5	7.3	7.6	8.0	6.9
Peaches	5.8	5.0	5.7	5.5	4.0	4.1	5.4	4.0	4.6	4.7	5.1	4.2
Pears	1.9	2.8	2.6	2.9	2.9	3.0	2.6	2.8	3.1	3.6	3.3	3.4
Strawberries	1.7	1.8	2.0	2.2	2.4	2.4	3.1	3.1	3.0	3.2	3.1	3.3
Pineapples	0.7	1.0	1.5	1.6	1.7	1.7	1.5	1.5	1.8	1.7	1.8	2.0
Plums	1.5	1.3	1.6	1.8	1.1	1.5	2.0	1.5	1.4	2.1	1.8	1.5
Nectarines	0.6	0.9	1.6	1.5	1.4	1.5	1.5	1.7	1.4	1.5	1.5	1.5
Other	1.5	2.5	2.3	3.6	2.9	3.8	4.2	3.5	3.3	4.4	3.2	3.4
Citrus	28.8	29.4	28.9	25.0	24.7	29.4	24.0	22.6	26.0	25.7	27.1	24.4
Oranges	16.2	15.9	15.8	13.6	12.7	16.1	12.8	12.3	14.5	14.0	15.4	12.6
Grapefruit	8.2	8.3	8.0	6.9	7.5	8.2	6.4	5.8	6.6	6.7	6.7	6.9
Other	4.4	5.2	5.0	4.5	4.5	5.2	4.8	4.5	4.9	5.0	5.0	4.9
Selected melons:												
Watermelons	13.1	11.0	10.1	11.1	12.1	11.0	14.0	13.1	12.1	12.1	13.1	(NA)
Cantaloups	7.1	5.1	6.0	6.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Honeydews	1.0	1.1	1.5	1.6	2.0	1.9	1.9	2.2	2.6	2.4	2.5	2.6
Selected fresh vegetables	70.7	73.9	80.9	79.3	83.0	80.6	87.7	88.3	88.3	93.0	96.2	99.3
Asparagus	0.4	0.4	0.3	0.3	(NA)	(NA)	0.4	0.5	0.7	0.6	0.6	0.6
Broccoli	0.5	1.0	1.6	1.8	2.2	2.3	2.7	2.9	3.5	3.6	4.2	4.5
Carrots	6.0	6.4	7.0	7.1	7.7	7.5	8.0	7.6	7.8	8.7	8.4	8.7
Cauliflower	0.7	1.0	1.3	1.6	1.6	1.7	2.2	2.3	2.7	2.7	2.9	2.8
Celery	7.3	6.9	7.8	7.7	7.8	7.4	7.5	7.4	7.0	7.1	7.7	7.9
Corn	7.8	7.8	7.2	7.1	7.1	7.3	7.6	7.6	7.2	7.4	6.7	7.5
Iceberg lettuce	22.4	23.5	26.8	25.7	25.6	23.2	25.9	24.7	23.1	26.8	27.5	29.2
Onions	12.4	13.4	13.7	13.0	15.7	15.4	16.2	16.9	17.2	16.8	18.1	17.9
Tomatoes	12.1	12.0	13.4	13.2	13.4	13.7	15.3	16.1	17.2	17.0	17.9	17.9
Other fresh <sup>3</sup>	1.1	1.5	1.8	1.8	1.9	2.1	1.9	2.3	1.9	2.3	2.2	2.3
Potatoes	62.3	52.6	51.1	45.7	46.8	49.7	48.8	46.7	49.4	48.9	51.4	49.8
Sweet potatoes <sup>4</sup>	5.4	5.4	4.5	4.9	5.5	4.6	5.0	5.4	4.4	4.5	4.1	4.1
Mushrooms	0.3	0.7	1.2	1.4	1.4	1.6	1.8	1.8	1.9	1.9	2.0	2.1

NA Not available. <sup>1</sup> Includes apricots, avocados, cherries, cranberries, figs, kiwifruit, mangos, olives, papayas, persimmons, and pomegranates. <sup>2</sup> Includes tangerines, tangelos, lemons, and limes. <sup>3</sup> Includes artichokes, garlic, and eggplant. <sup>4</sup> Fresh and processed.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Food Consumption, Prices and Expenditures*, annual; and unpublished data.

### No. 209. Per Capita Consumption of Selected Beverages, by Type: 1970 to 1989

[In gallons. See headnote, table 207]

COMMODITY	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989
Nonalcoholic <sup>1</sup>	95.8	95.8	93.8	91.1	92.4	93.3	96.6	98.4	95.2	93.9	93.6
Milk (plain and flavored)	31.2	29.5	27.6	26.3	26.2	26.3	26.6	26.4	28.2	25.7	25.4
Whole	25.4	21.0	17.0	15.5	15.1	14.7	14.3	13.5	12.9	12.2	11.1
Lowfat	4.5	7.1	9.2	9.6	9.9	10.3	10.8	11.4	11.6	11.6	12.0
Skim	1.3	1.3	1.3	1.2	1.2	1.3	1.5	1.6	1.6	1.9	2.3
Tea	6.8	7.5	7.3	6.9	6.9	7.1	7.1	7.1	6.9	6.9	6.9
Coffee	33.4	31.4	26.7	25.9	26.3	26.7	27.3	27.4	26.3	24.3	24.3
Soft drinks	20.8	22.2	27.1	26.9	27.4	28.4	30.4	31.9	30.5	31.7	32.0
Citrus juice	3.6	5.2	5.1	5.1	5.6	4.8	5.2	5.6	5.3	5.3	5.0
Alcoholic (adult population)	35.7	39.7	42.8	42.3	41.7	41.1	40.5	40.6	40.0	39.5	38.9
Beer	30.6	33.9	36.6	36.2	35.6	35.0	34.5	34.7	34.4	34.1	33.7
Wine	2.2	2.7	3.2	3.3	3.3	3.4	3.5	3.5	3.3	3.2	3.0
Distilled spirits	3.0	3.1	3.0	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.2

<sup>1</sup> Excludes vegetable juices, noncitrus fruit juices and drinks, canned concentrated citrus juices, and chilled-fresh citrus juices produced for local sale. Includes chilled citrus juices produced commercially from fresh fruit in Florida.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Food Consumption, Prices, and Expenditures*, annual; and unpublished data.

### No. 210. Nutrition—Nutrients in Foods Available for Civilian Consumption per Capita per Day and Indexes: 1960 to 1985

[Computed by Human Nutrition Information Service (HNIS), USDA. Based on estimates of per capita food consumption (retail weight) by the Economic Research Service (ERS), on imputed consumption data for foods no longer reported by ERS, and on HNIS estimates of quantities of produce from home gardens. No deduction is made in food supply estimates for loss of food or nutrients in further processing, in marketing, or in the home. Data include iron, thiamin, riboflavin, niacin, vitamin A, vitamin B<sub>6</sub>, vitamin B<sub>12</sub>, and ascorbic acid aided by enrichment and fortification. Minus sign (-) indicated decrease. See *Historical Statistics, Colonial Times to 1970*, series G 851-856 for related details]

NUTRIENT	Unit	1960	1970	1980	1982	1983	1984	1985	PERCENT CHANGE		
									1960-1970	1970-1980	1980-1985
Food energy	Calories	3,100	3,300	3,400	3,400	3,400	3,400	3,500	6.4	3.0	2.9
Protein	Grams	96	99	99	100	101	102	104	3.1	-	5.0
Total fat	Grams	143	155	158	159	162	162	169	8.4	1.9	7.0
Saturated	Grams	60	59	58	58	59	60	61	1.7	-1.7	5.2
Monounsaturated	Grams	58	64	63	63	65	65	68	10.3	-1.6	7.9
Polyunsaturated	Grams	20	27	31	31	32	30	33	35.0	14.8	6.5
Cholesterol	Milligrams	560	540	500	490	500	500	500	-3.8	-7.4	-
Carbohydrate	Grams	377	380	392	398	397	401	413	0.8	3.2	5.4
Vitamin A	Int'l. units	7,100	8,000	9,100	9,100	9,300	9,600	9,700	12.7	13.8	6.6
Vitamin A	Retinol equivalents	1,290	1,450	1,540	1,540	1,560	1,590	1,610	12.4	6.2	4.5
Carotenes	Retinol equivalents	420	470	590	600	610	640	660	11.9	25.5	11.9
Vitamin E	Milligram $\alpha$ -TE <sup>2</sup>	11.6	13.5	14.5	15.0	15.3	14.9	16.1	16.4	7.4	11.0
Ascorbic acid	Milligrams	100	103	110	110	115	111	115	3.0	6.8	4.5
Thiamin	Milligrams	1.9	2.0	2.2	2.2	2.2	2.2	2.2	5.3	10.0	-
Riboflavin	Milligrams	2.2	2.2	2.3	2.3	2.3	2.4	2.4	-	4.5	4.3
Niacin	Milligrams	21	23	24	25	25	25	26	9.5	4.3	8.3
Vitamin B <sub>6</sub>	Milligrams	1.9	2.0	2.0	2.1	2.1	2.1	2.1	5.3	-	5.0
Folic acid	Micrograms	288	280	280	293	296	296	299	-2.8	-	6.8
Vitamin B <sub>12</sub>	Micrograms	9.8	10.8	10.0	9.8	10.0	10.2	10.1	10.2	-7.4	1.0
Calcium	Grams	0.92	0.87	0.87	0.89	0.90	0.92	0.91	-5.4	-	4.8
Phosphorus	Grams	1.49	1.49	1.47	1.49	1.51	1.53	1.54	-	-1.3	4.8
Magnesium	Milligrams	320	310	310	320	320	320	330	-	-	14.1
Iron	Milligrams	14.2	14.9	14.9	15.2	16.6	16.8	17.0	4.9	-	4.8
Zinc	Milligrams	12.1	12.7	12.4	12.6	12.7	12.8	13.0	5.0	-2.4	6.2
Copper	Milligrams	1.6	1.6	1.6	1.6	1.6	1.6	1.7	-	-	6.2
Potassium	Milligrams	3,540	3,410	3,300	3,350	3,400	3,420	3,460	-3.7	-3.2	4.8
INDEXES (1967 = 100)											
Food energy	Percent	97	103	106	106	106	106	109	6.2	2.9	2.8
Protein	Percent	98	101	101	102	103	104	106	3.1	-	5.0
Fat	Percent	95	103	105	105	107	107	112	8.4	1.9	6.7
Carbohydrate	Percent	100	101	104	106	106	107	110	1.0	3.0	5.5

- Represents zero. <sup>1</sup> Includes other types of fat, not shown separately. <sup>2</sup> Alpha-Tocopherol equivalents.

Source: U.S. Dept. of Agriculture, Human Nutrition Information Service. Data published by Economic Research Service in *Food Consumption, Prices, and Expenditures*, annual; and *National Food Review*, quarterly.

### No. 211. Persons Using Vitamin-Mineral Products, by Selected Characteristic: 1986

[Based on the National Health Interview Survey and subject to sampling error; for details, see Appendix III and source]

CHARACTERISTIC	PERSONS (1,000)					PERCENT USING VITAMIN-MINERAL PRODUCTS				
	Adults 18 years old and over				Children 2-6 yrs. old	Adults 18 years old and over				Children 2-6 yrs. old
	Total	18-44	45-64	65 and over		Total	18-44	45-64	65 and over	
Total <sup>1</sup>	169,587	97,541	44,660	27,386	18,162	36.4	34.4	39.8	38.2	43.3
Sex: Male	81,804	49,225	21,289	11,290	9,252	31.2	30.2	32.7	32.2	44.4
Female	87,783	48,316	23,371	16,096	8,910	41.3	38.6	46.2	42.4	42.2
Race/ethnicity:										
White	145,842	82,172	39,064	24,607	14,805	38.5	36.2	42.2	40.1	46.3
Black	18,583	11,821	4,477	2,286	2,711	21.5	22.7	22.2	14.2	30.3
Other	5,162	3,549	1,120	493	646	32.0	31.1	26.3	52.3	30.7
Hispanic origin <sup>2</sup>	10,495	7,456	2,282	758	2,014	28.7	26.7	31.5	40.6	37.6
Mexican	5,309	3,969	1,029	312	1,207	23.5	22.8	24.8	(B)	36.9
Puerto Rican	1,140	729	343	(B)	(B)	28.0	(B)	(B)	(B)	(B)
Cuban	927	516	292	(B)	(B)	21.9	(B)	(B)	(B)	(B)
Years of school completed: <sup>3</sup>										
Less than 12 years	41,599	15,785	12,356	13,459	2,680	25.5	20.3	26.3	30.7	26.9
12 years	64,954	38,599	18,388	7,967	6,572	36.0	31.2	42.1	45.3	40.1
13 years or more	62,013	42,764	13,690	5,558	8,865	44.3	42.6	49.3	47.3	51.0
Family income:										
Less than \$7,000	14,889	8,135	2,676	4,077	1,928	27.3	26.6	27.8	30.2	22.8
\$7,000 to \$14,999	24,752	12,257	5,176	7,318	2,674	32.5	30.6	30.4	37.0	38.6
\$15,000 to \$24,999	33,138	19,272	8,250	5,615	3,691	34.8	32.2	35.1	43.1	44.2
\$25,000 to \$39,999	41,161	26,819	10,874	3,467	4,847	38.8	36.6	43.2	42.6	51.2
\$40,000 or more	33,806	20,737	11,151	1,918	3,200	44.8	41.7	50.6	44.3	50.3

B Base figure too small to meet statistical standards of a reliable figure. <sup>1</sup> Includes persons with education and income unknown. <sup>2</sup> Includes persons of other Hispanic origin. Persons of Hispanic origin may be of any race. <sup>3</sup> For children, education of responsible adult.

Source: U.S. National Center for Health Statistics, *Advance Data from Vital and Health Statistics*, No. 174.

### No. 212. Nutrient Intakes of Persons as Percent of the 1980 Recommended Dietary Allowances (RDA): 1987-88

[Except as indicated, for all persons living in households. Data based on one day food intake. For composition of regions, see fig. 1, inside front cover. Based on sample and subject to sampling error; for details, see source]

INTAKES	All persons <sup>1</sup>	SEX <sup>2</sup>		RACE		REGION OF RESIDENCE				HOUSEHOLD INCOME		
		Male	Female	White	Black	North-east	Mid-west	South	West	Under 131% of poverty	131% to 300% of poverty	Over 300% of poverty
Percent of sample . . .	100.0	33.3	37.1	82.8	12.2	20.8	24.8	34.2	20.2	15.4	28.0	39.9
Intake as percent of RDA:												
Food energy . . . . .	78	80	71	78	77	77	77	80	80	78	80	78
Protein . . . . .	155	141	124	152	165	149	151	160	157	162	157	151
Vitamin A (IU) <sup>3</sup> . . . . .	143	133	141	145	129	147	153	130	152	140	147	142
Vitamin A (RE) <sup>4</sup> . . . . .	122	107	114	123	114	125	126	117	122	128	125	119
Vitamin E . . . . .	94	98	86	95	83	91	97	94	92	91	91	99
Vitamin C . . . . .	165	165	139	159	195	178	150	165	170	161	159	167
Thiamin . . . . .	120	114	106	119	127	120	120	123	117	128	120	116
Riboflavin . . . . .	134	124	114	135	128	133	132	134	136	140	136	131
Niacin . . . . .	127	133	116	127	131	126	125	132	125	128	126	128
Vitamin B <sub>6</sub> . . . . .	94	91	81	94	92	91	93	86	95	95	92	95
Folacin . . . . .	152	129	109	149	163	146	143	162	150	172	151	145
Vitamin B <sub>12</sub> . . . . .	305	297	250	306	309	306	277	338	283	341	306	295
Calcium . . . . .	87	88	71	90	71	88	87	81	96	81	88	90
Phosphorus . . . . .	132	159	114	134	119	130	129	130	139	123	131	137
Magnesium . . . . .	92	80	74	93	87	89	89	92	99	96	95	91
Iron . . . . .	116	149	85	117	112	112	121	117	117	112	118	116
Zinc . . . . .	81	85	72	81	78	76	80	85	80	78	80	82

<sup>1</sup> Includes persons of all ages, other races, and of unknown income or race. <sup>2</sup> Includes adults 20 years old and over only.  
<sup>3</sup> International units. <sup>4</sup> Retinol equivalents.

Source: U.S. Department of Agriculture, Human Nutrition Information Service, *Nationwide Food Consumption Survey 1987-1988: Food and Nutrition Intakes, 1 Day*. NFCS Report No. I-1 (forthcoming).

### No. 213. Food Energy for Individuals by, Source and Selected Characteristic: 1987-88

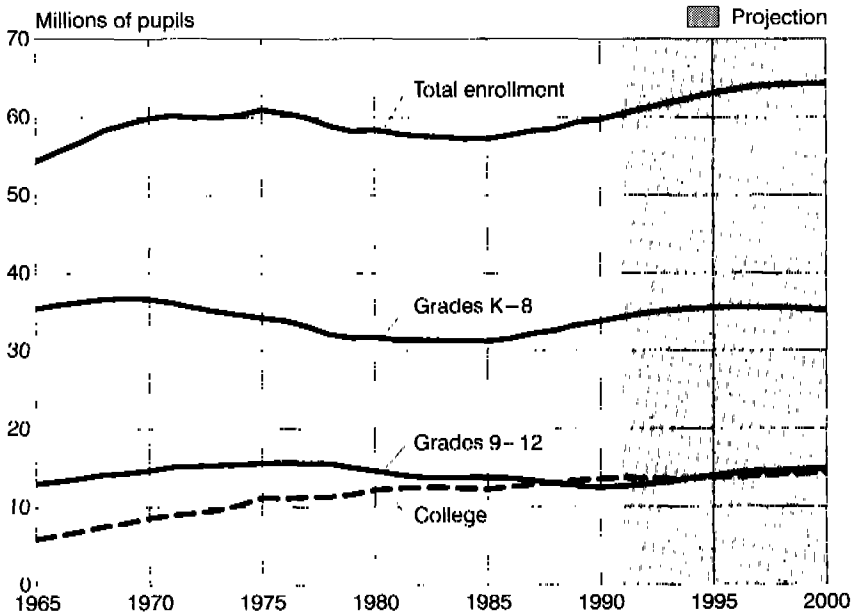
[In percent. Except as indicated, for all persons living in households. Data based on one day food intake. Distribution of protein, carbohydrates and fat does not equal 100% because energy provided was calculated using general factors 4, 4, 9 kilograms per gram, respectively rather than food-specific factors. Based on sample and subject to sampling error; for details, see source. For composition of regions, see fig. 1, inside front cover]

CHARACTERISTIC	Total	Protein	Carbohydrates	FAT			
				Total <sup>1</sup>	Saturated	Monosaturated	Polyunsaturated
Total persons <sup>2</sup> . . . . .	100.0	16.5	47.2	36.3	13.3	13.4	6.8
Sex: <sup>3</sup>							
Male . . . . .	100.0	16.8	44.7	37.3	13.2	14.1	7.1
Female . . . . .	100.0	17.0	47.3	35.9	12.8	13.2	7.1
Race: White . . . . .	100.0	16.4	47.2	36.5	13.4	13.4	6.8
Black . . . . .	100.0	16.9	47.6	35.3	12.5	13.3	6.5
Region: Northeast . . . . .	100.0	16.5	46.9	36.4	13.7	13.3	6.7
Midwest . . . . .	100.0	16.5	46.6	37.3	13.7	13.9	6.9
South . . . . .	100.0	16.6	47.5	35.9	12.8	13.4	6.8
West . . . . .	100.0	16.3	48.1	35.6	13.1	13.0	6.6
Household income level:							
Under 131% of poverty . . . . .	100.0	16.4	48.0	36.2	13.2	13.5	6.6
131 to 300% of poverty . . . . .	100.0	16.0	48.3	36.0	13.3	13.3	6.6
Over 300% of poverty . . . . .	100.0	16.6	46.1	36.8	13.4	13.5	7.0

<sup>1</sup> Includes other types of fat, not shown separately. <sup>2</sup> Includes persons of all ages, other races, and of unknown income or race. <sup>3</sup> Includes adults 20 years old and over only.

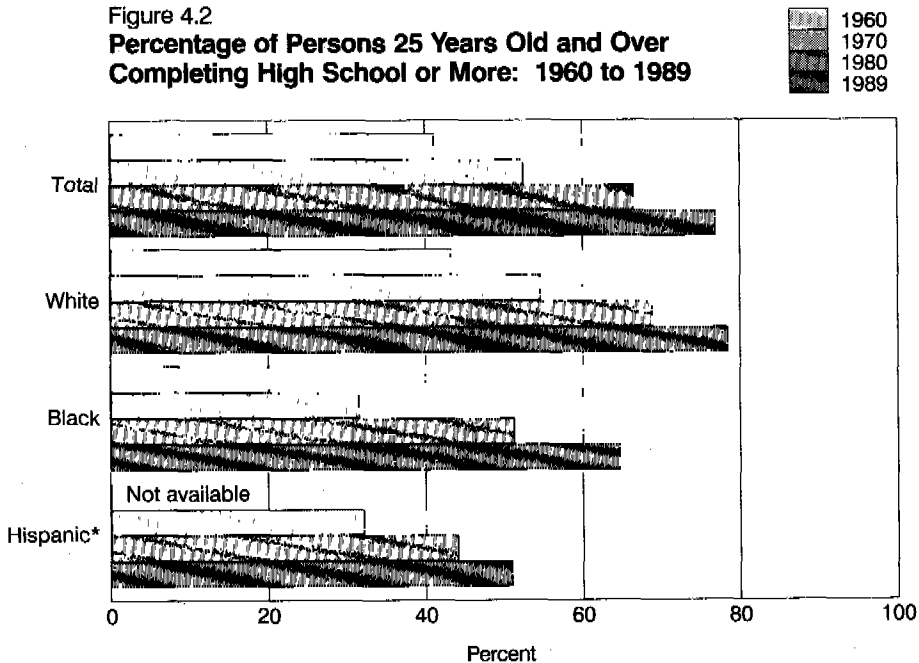
Source: U.S. Department of Agriculture, Human Nutrition Information Service, *Nationwide Food Consumption Survey 1987-1988: Food and Nutrition Intakes, 1 Day*. NFCS Report No. I-1 (forthcoming).

Figure 4.1  
**School Enrollment: 1965 to 2001**



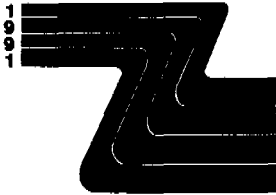
Source: Chart prepared by U.S. Bureau of the Census. For data, see table 219.

Figure 4.2  
**Percentage of Persons 25 Years Old and Over  
 Completing High School or More: 1960 to 1989**



\*Persons of Hispanic origin may be of any race.

Source: Chart prepared by U.S. Bureau of the Census. For data, see table 224.



## Section 4 Education

This section presents data primarily concerning formal education as a whole, at various levels, and for public and private schools. Data shown relate to the school-age population and school enrollment, educational attainment, education personnel, and financial aspects of education. In addition, data are shown for libraries, and computer usage in schools. The chief sources are the decennial census of population and the Current Population Survey (CPS), both conducted by the Bureau of the Census (see text, section 1); annual, biennial, and other periodic surveys conducted by the National Center for Education Statistics, a part of the U.S. Department of Education; and surveys conducted by the National Education Association.

The censuses of population have included data on school enrollment since 1840 and on educational attainment since 1940. The CPS has reported on school enrollment annually since 1945 and on educational attainment periodically since 1947.

The National Center for Education Statistics is continuing the pattern of statistical studies and surveys conducted by the U.S. Office of Education since 1870. The annual *Digest of Education Statistics* provides summary data on pupils, staff, finances, including government expenditures, and organization at the elementary, secondary, and higher education levels. It is also a primary source for detailed information on Federal funds for education, projections of enrollment, graduates, and teachers. *The Condition of Education*, issued annually, presents a summary of information on education of particular interest to policymakers.

Other sources of data include special studies by the National Center for Education Statistics, and annual or biennial reports of education agencies in individual States. The census of governments, conducted by the Bureau of the Census every 5 years (for the years ending in "2" and "7"), provides data on school district finances and State and local government expenditures for education. Reports published by the Bureau of Labor Statistics contain data relating civilian labor force experience to educational attainment (see also tables 634, 639, 655, 656, and 661 in section 13).

**Types and sources of data.**—The statistics in this section are of two general types. One type, exemplified by data from the Bureau of the Census, is based on direct interviews with individuals to obtain information about their own and their family members' education. Data of this type relate to school enrollment and level of education attained, classified by age, sex, and other characteristics of the population. The school enrollment statistics reflect attendance or enrollment in any regular school within a given period; educational attainment statistics reflect the highest grade completed by an individual.

For enrollment data starting in October 1981, the CPS used 1980 census population controls; for years 1971 through 1980, 1970 census population controls had been used. This change had little impact on summary measures (e.g., medians) and proportional measures (e.g., enrollment rates); however, use of the controls may have significant impact on absolute numbers. Where appropriate for comparability purposes, 1981 data have been provided in two ways—once based on 1970 controls, and once based on 1980 controls; see table 221.

Beginning with data for 1986, a new edit and tabulation package for school enrollment has been introduced. The data produced increased the estimates of high school enrollment for 1986 by 200,000 and college enrollment by 300,000. See table 221 which presents both earlier and revised estimates. In other enrollment tables, revised estimates are shown. In 1988 a new edit and tabulation package has been introduced for educational attainment data. See table 223 which presents earlier and revised estimates.

The second type, generally exemplified by data from the National Center for Education Statistics and the National Education Association, is based on reports from administrators of educational institutions and of State and local agencies having jurisdiction over education. Data of this type relate to enrollment, attendance, staff, and finances for the Nation, individual States, and local areas.

Unlike the National Center for Education Statistics, the Census Bureau does not regularly include specialized vocational, trade, business, or correspondence schools in its surveys. The National Center for Education Statistics includes nursery schools and kindergartens that are part of regular grade schools in their enrollment figures. The Census Bureau includes all nursery schools and kindergartens. At the higher education level, the statistics of both agencies are concerned with institutions granting degrees or offering work acceptable for degree-credit, such as junior colleges.

**School attendance.**—All States require that children attend school. While State laws vary as to the ages and circumstances of compulsory attendance, generally they require that formal schooling begin by age 6 and continue to age 16.

**Schools.**—The National Center for Education Statistics defines a *school* as "a division of the school system consisting of students composing one or more grade groups or other identifiable groups, organized as one unit with one or more teachers to give instruction of a defined type, and housed in a school plant of one or more buildings. More than one school may be housed in one school plant, as is the case when the elementary and secondary programs are housed in the same school plant."

*Regular* schools are those which advance a person toward a diploma or degree. They include public and private nursery schools, kindergartens, graded schools, colleges, universities, and professional schools. *Public* schools are schools controlled and supported by local, State, or Federal governmental agencies; *private* schools are those controlled and supported mainly by religious organizations or by private persons or organizations.

The Bureau of the Census defines *elementary* schools as including grades 1 through 8; *high* schools as including grades 9 through 12; and *colleges* as including junior or community colleges, regular 4-year colleges, and universities and graduate or professional schools. Statistics reported by the National Center for Education Statistics and the National Education Association by type of organization, such as elementary level and secondary level, may not be strictly comparable with those from the Bureau of the Census because the grades included at the two levels vary, depending on the level assigned to the middle or junior high school by the local school systems.

**School year.**—Except as otherwise indicated in the tables, data refer to the school year which, for elementary and secondary schools, generally begins in September of the preceding year and ends in June of the year stated. For the most part, statistics concerning school finances are for a 12-month period, usually July 1 to June 30. Enrollment data generally refer to a specific point in time, such as fall, as indicated in the tables.

**Statistical reliability.**—For a discussion of statistical collection, estimation, and sampling procedures and measures of statistical reliability applicable to Census Bureau and the National Center for Education Statistics data, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

#### No. 214. School Enrollment, 1955 to 1989, With Projections to 2001, and Number of Schools, 1955 to 1988

[In thousands. Enrollment and number of schools as of fall. See also *Historical Statistics, Colonial Times to 1970*, series H421-429]

ITEM AND YEAR	TOTAL		ELEMENTARY <sup>1</sup>		SECONDARY		COLLEGE	
	Public	Private	Public	Private	Public	Private	Public	Private
<b>Enrollment: <sup>2</sup></b>								
1955	32,164	5,777	22,159	3,800	8,521	800	<sup>3</sup> 1,484	1,177
1965	46,144	8,251	26,670	4,900	15,504	1,400	3,970	1,951
1970	52,337	7,516	27,501	4,052	18,408	1,311	6,428	2,153
1975	53,826	5,000	25,640	3,700	19,151	1,300	8,835	2,350
1976	52,970	7,526	25,430	3,825	18,887	1,342	8,653	2,359
1977	52,424	7,579	24,954	3,797	18,623	1,343	8,847	2,439
1978	51,337	7,559	25,017	3,732	17,534	1,353	8,786	2,474
1979	50,683	7,533	24,544	3,700	17,102	1,300	9,037	2,533
1980	50,375	7,971	24,220	3,992	16,698	1,339	9,457	2,640
1981	49,669	8,225	24,074	4,100	15,948	1,400	9,647	2,725
1982	49,261	8,330	23,823	4,200	15,742	1,400	9,696	2,730
1983	48,935	8,497	23,949	4,315	15,303	1,400	9,683	2,782
1984	48,685	8,465	24,095	4,300	15,113	1,400	9,477	2,765
1985	48,901	8,325	24,229	4,195	15,193	1,362	9,479	2,768
1986	49,468	8,242	24,150	4,116	15,603	1,336	9,715	2,790
1987	49,981	8,140	24,305	4,118	15,703	1,229	9,973	2,793
1988	50,348	8,129	24,417	4,036	15,775	1,206	10,156	2,887
1989	51,038	8,344	24,998	4,162	15,610	1,193	10,430	2,989
1990, proj.	51,340	8,410	25,303	4,219	15,498	1,172	10,539	3,019
2000, proj.	55,357	8,944	25,876	4,391	18,310	1,398	11,171	3,155
2001, proj.	55,286	8,947	25,636	4,359	18,386	1,405	11,264	3,183
<b>Schools: <sup>4</sup></b>								
1955	(X)	(X)	104.4	12.4	26.0	3.9	0.7	1.2
1965	(X)	(X)	73.2	15.3	26.6	4.6	0.8	1.4
1970	(X)	(X)	65.8	14.4	25.4	3.8	(NA)	(NA)
1976	(X)	(X)	62.6	16.4	25.4	5.9	1.5	1.6
1978	(X)	(X)	62.0	16.1	24.5	5.8	1.5	1.7
1980	(X)	(X)	61.1	16.8	24.4	5.7	1.5	1.7
1984	(X)	(X)	58.8	(NA)	23.9	(NA)	1.5	1.8
1986	(X)	(X)	60.8	(NA)	23.4	(NA)	1.5	1.9
1988	(X)	(X)	61.5	(NA)	22.8	(NA)	1.6	2.0

NA Not available. X Not applicable. <sup>1</sup> Enrollment includes kindergarten. <sup>2</sup> For regular schools. <sup>3</sup> Degree-credit enrollment only. <sup>4</sup> Excludes schools not reported by level, such as special education. Schools with both elementary and secondary programs are included under elementary and also secondary. <sup>5</sup> Beginning 1976, branch campuses of college institutions counted separately.

Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, annual and *Projections of Education Statistics*, annual.



## No. 215. School Enrollment, Faculty, Graduates and Finances, 1985 to 1989, and Projections to 2000

(As of fall, except as indicated)

ITEM	Unit	1985	1988	1989	1990	1992	1993	1994	1995	2000
<b>ELEMENTARY AND SECONDARY SCHOOLS</b>										
School-age population <sup>1</sup> : Total	1,000	44,975	45,389	45,331	45,630	46,781	47,323	47,925	48,374	48,815
5 to 13 years old	1,000	30,110	31,406	31,835	32,393	33,243	33,549	33,738	33,864	33,483
14 to 17 years old	1,000	14,865	13,983	13,496	13,237	13,538	13,774	14,187	14,510	15,332
School enrollment: Total	1,000	44,979	45,435	45,963	46,192	47,546	48,226	48,909	49,431	49,975
Public	1,000	39,422	40,192	40,608	40,801	41,997	42,602	43,214	43,682	44,186
Private	1,000	5,557	5,241	5,355	5,391	5,549	5,624	5,696	5,749	5,789
Elementary	1,000	28,424	28,453	29,160	29,522	30,237	30,465	30,618	30,720	30,267
Public	1,000	24,229	24,417	24,998	25,303	25,893	26,077	26,201	26,285	25,876
Private	1,000	4,195	4,036	4,162	4,219	4,344	4,388	4,417	4,435	4,391
Secondary	1,000	16,555	16,981	16,803	16,670	17,309	17,761	18,292	18,711	19,708
Public	1,000	15,193	15,775	15,610	15,498	16,104	16,525	17,013	17,397	18,310
Private	1,000	1,362	1,206	1,193	1,172	1,205	1,236	1,279	1,314	1,398
Classroom teachers: Total	1,000	2,550	2,661	2,737	2,785	2,877	2,930	2,975	3,016	3,212
Public	1,000	2,207	2,316	2,360	2,401	2,480	2,527	2,566	2,602	2,772
Private	1,000	343	345	377	384	396	403	409	414	439
Elementary	1,000	1,483	1,588	1,607	1,642	1,691	1,716	1,733	1,751	1,848
Public	1,000	1,237	1,337	1,332	1,361	1,402	1,422	1,437	1,451	1,532
Private	1,000	246	251	275	281	289	294	297	300	316
Secondary	1,000	1,067	1,073	1,130	1,142	1,185	1,214	1,242	1,266	1,364
Public	1,000	970	979	1,028	1,039	1,078	1,105	1,130	1,151	1,241
Private	1,000	97	94	102	103	107	110	112	114	123
Projected demand for new teachers	1,000	(NA)	(NA)	237	216	218	242	239	240	261
High school graduates, total <sup>2</sup>	1,000	2,643	2,820	2,628	2,522	2,518	2,512	2,631	2,670	3,237
Public	1,000	2,383	2,496	2,399	2,232	2,229	2,223	2,329	2,363	2,865
Public schools <sup>2</sup>										
Average daily attendance (ADA)	1,000	36,523	37,241	37,583	37,761	38,868	39,428	39,994	40,428	40,894
Constant (1988-89) dollars:										
Teachers' average salary	Dol.	28,061	29,567	30,145	30,629	31,821	32,513	33,076	33,654	35,541
Current school expenditures	Bil. dol.	152.8	168.6	174.4	178.3	190.1	195.9	202.4	209.0	237.7
<b>HIGHER EDUCATION</b>										
Enrollment, total	1,000	12,247	13,043	13,419	13,558	13,613	13,597	13,579	13,657	14,326
Male	1,000	5,818	5,998	6,260	6,292	6,276	6,254	6,228	6,247	6,468
Female	1,000	6,429	7,045	7,159	7,266	7,337	7,343	7,351	7,410	7,858
Full-time	1,000	7,075	7,430	7,596	7,640	7,569	7,508	7,456	7,490	7,970
Part-time	1,000	5,172	5,612	5,823	5,918	6,044	6,089	6,123	6,167	6,356
Public	1,000	9,479	10,156	10,430	10,539	10,587	10,579	10,571	10,637	11,171
Private	1,000	2,768	2,887	2,989	3,019	3,026	3,018	3,008	3,020	3,155
Two-year institutions	1,000	4,531	4,868	4,953	5,010	5,041	5,057	5,072	5,115	5,381
Four-year institutions	1,000	7,716	8,175	8,466	8,548	8,572	8,540	8,507	8,542	8,945
Full-time equivalent	1,000	8,943	9,453	9,700	9,778	9,753	9,708	9,668	9,718	10,265
Public	1,000	6,668	7,094	7,265	7,324	7,304	7,272	7,246	7,288	7,712
Private	1,000	2,276	2,359	2,435	2,455	2,449	2,436	2,422	2,431	2,553
Faculty, total	1,000	715	741	755	762	755	749	744	743	771
Full-time	1,000	459	467	475	479	469	463	459	458	489
Part-time	1,000	256	275	279	283	286	286	285	285	283
Public	1,000	503	524	534	539	534	530	527	526	547
Private	1,000	212	217	221	223	221	219	218	217	225
Two-year institutions	1,000	211	221	225	227	226	225	224	224	231
Four-year institutions	1,000	504	521	530	534	529	524	520	519	540
Degrees conferred, total <sup>2</sup>	1,000	1,829.9	1,865.1	1,903.5	1,919.5	1,959.7	1,965.1	1,942.0	1,927.8	1,960.3
Associate's	1,000	446.0	436.5	457.8	463.2	461.2	459.0	458.0	459.1	489.2
Bachelor's	1,000	987.8	1,016.7	1,017.3	1,024.1	1,062.5	1,058.5	1,046.7	1,031.4	1,036.4
Master's	1,000	288.6	307.7	318.7	321.6	323.2	323.4	323.7	323.7	327.1
Doctorates	1,000	33.7	35.4	35.6	35.9	36.1	36.2	36.3	36.4	36.3
First-professional	1,000	73.8	68.8	74.2	74.7	76.8	77.9	77.3	77.3	71.3
Current fund expenditures in constant (1987-88) dollars <sup>2</sup> :										
Total	Bil. dol.	103.9	115.5	116.0	118.1	125.1	127.6	130.1	133.4	<sup>3</sup> 144.4
Public	Bil. dol.	67.3	75.4	75.6	76.9	80.8	81.9	83.3	85.2	<sup>3</sup> 92.4

NA Not available. <sup>1</sup> As of July. <sup>2</sup> For school year ending June the following year. <sup>3</sup> Data for school year 1999-2000.Source: U.S. National Center for Education Statistics, *Projections of Educational Statistics*, biennial.

### No. 216. School Expenditures, by Type of Control and Level of Instruction in Constant (1989-90) Dollars: 1960 to 1990

[In millions of dollars. For school years ending in year shown. Total expenditures for public elementary and secondary schools include current expenditures, interest on school debt and capital outlay. See also Appendix III. See *Historical Statistics, Colonial Times to 1970*, series H 494, 499, and 500 for related but not comparable data, and H 513-519 for private schools]

YEAR	Total	ELEMENTARY AND SECONDARY SCHOOLS			COLLEGES AND UNIVERSITIES		
		Total	Public	Private <sup>1</sup>	Total	Public	Private <sup>1</sup>
1960	103,100	72,224	67,471	4,754	30,886	16,889	14,016
1970	230,115	145,155	136,751	8,403	84,960	54,569	30,391
1975	266,404	168,785	158,978	9,807	97,619	66,112	31,507
1977	273,492	171,329	160,511	10,817	102,163	69,222	32,941
1978	277,824	175,450	163,895	11,556	102,373	68,991	33,383
1979	274,911	172,411	160,733	11,678	102,500	68,789	33,712
1980	270,896	168,729	156,953	11,776	102,167	67,768	34,398
1981	268,021	164,646	152,627	12,020	103,375	68,247	35,128
1982	266,882	162,565	150,017	12,548	104,317	68,559	35,758
1983	274,366	166,529	153,204	13,325	107,837	70,296	37,541
1984	285,177	173,403	159,057	14,346	111,773	72,510	39,263
1985	297,316	179,357	164,471	14,886	117,959	76,478	41,481
1986	314,453	188,799	173,396	15,403	125,654	81,781	43,893
1987	333,123	199,995	183,671	16,324	133,128	85,626	47,502
1988, prel	343,739	205,958	189,407	16,551	137,780	88,675	49,106
1989	353,081	210,696	194,142	16,554	142,385	91,675	50,710
1990 <sup>1</sup>	358,700	215,500	198,600	16,900	143,200	92,200	51,000

<sup>1</sup> Estimated.

Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, annual.

### No. 217. School Expenditures, by Source of Funds in Constant (1989-90) Dollars: 1970 to 1987

[For school years ending in year shown. Includes nursery, kindergarten, and special programs when provided by school system. All nonpublic school data and all data beginning 1980 are estimates. Due to revised methodology, data for 1970 are not comparable to later years or to table 216]

SOURCE OF FUNDS AND TYPE OF SCHOOL	TOTAL (bil. dol.)								PERCENT			
	1970	1980	1982	1983	1984	1985	1986	1987	1970	1980	1985	1987
<b>Total</b>	<b>236.6</b>	<b>270.9</b>	<b>266.9</b>	<b>274.4</b>	<b>285.2</b>	<b>297.3</b>	<b>314.5</b>	<b>333.1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Federal	25.2	30.9	25.0	24.2	24.6	25.6	27.5	28.7	10.7	11.4	8.6	8.6
State	74.6	105.2	102.9	105.2	108.5	115.4	123.0	129.5	31.5	38.8	38.8	38.9
Local	76.0	70.7	70.0	71.7	75.0	76.0	79.1	83.8	32.1	26.1	25.6	25.2
All other	60.8	64.0	68.9	73.2	77.1	80.3	84.9	91.9	25.7	23.6	27.0	27.6
<b>Public</b>	<b>190.9</b>	<b>224.7</b>	<b>218.6</b>	<b>223.6</b>	<b>231.6</b>	<b>240.9</b>	<b>255.2</b>	<b>269.3</b>	<b>80.7</b>	<b>82.9</b>	<b>81.0</b>	<b>80.8</b>
Federal	19.5	24.3	18.9	18.4	18.4	19.0	20.2	20.6	8.2	9.0	6.4	6.2
State	74.3	104.5	102.3	104.5	107.8	114.6	122.2	128.4	31.4	38.6	38.5	38.5
Local	75.6	70.5	69.8	71.4	74.7	75.7	78.8	83.5	32.0	26.0	25.5	25.1
All other	21.5	25.5	27.7	29.2	30.6	31.6	34.0	36.7	9.1	9.4	10.6	11.0
<b>Private</b>	<b>45.7</b>	<b>46.2</b>	<b>48.3</b>	<b>50.8</b>	<b>53.6</b>	<b>56.4</b>	<b>59.3</b>	<b>63.8</b>	<b>19.3</b>	<b>17.1</b>	<b>19.0</b>	<b>19.2</b>
Federal	5.7	6.7	6.1	6.0	6.2	6.6	7.2	8.1	2.4	2.5	2.2	2.4
State and local	0.7	1.0	0.9	0.9	1.0	1.1	1.2	1.4	0.2	0.4	0.4	0.4
All other	39.3	38.5	41.4	44.0	46.5	48.7	50.9	54.4	16.6	14.2	16.4	16.3
<b>Elementary and secondary</b>	<b>153.6</b>	<b>168.7</b>	<b>162.6</b>	<b>166.5</b>	<b>173.4</b>	<b>179.4</b>	<b>188.8</b>	<b>200.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Federal	11.4	15.4	11.1	10.9	10.8	10.9	11.6	11.8	7.4	9.1	6.1	5.9
State	53.1	73.1	71.2	73.1	75.7	80.1	85.4	91.0	34.6	43.3	44.6	45.5
Local	72.9	68.0	67.2	68.8	72.1	72.9	75.9	80.4	47.5	40.3	40.6	40.2
All other	16.1	12.2	13.0	13.8	14.8	15.4	15.9	16.9	10.5	7.2	8.6	8.5
<b>Public</b>	<b>137.8</b>	<b>157.0</b>	<b>150.0</b>	<b>153.2</b>	<b>159.1</b>	<b>164.5</b>	<b>173.4</b>	<b>183.7</b>	<b>89.7</b>	<b>93.1</b>	<b>91.7</b>	<b>91.9</b>
Federal	11.4	15.4	11.1	10.9	10.8	10.9	11.6	11.8	7.4	9.1	6.1	5.9
State	53.1	73.1	71.2	73.1	75.7	80.1	85.4	91.0	34.6	43.3	44.6	45.5
Local	72.9	68.0	67.2	68.8	72.1	72.9	75.9	80.4	47.5	40.3	40.6	40.2
All other	0.3	0.5	0.4	0.5	0.5	0.5	0.5	0.6	0.2	0.3	0.3	0.3
<b>Private</b>	<b>15.8</b>	<b>11.8</b>	<b>12.5</b>	<b>13.3</b>	<b>14.3</b>	<b>14.9</b>	<b>15.4</b>	<b>16.3</b>	<b>10.3</b>	<b>7.0</b>	<b>8.3</b>	<b>8.2</b>
<b>Higher education</b>	<b>83.0</b>	<b>102.2</b>	<b>104.3</b>	<b>107.9</b>	<b>111.8</b>	<b>118.0</b>	<b>125.7</b>	<b>133.1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Federal	13.8	15.6	13.9	13.3	13.8	14.7	15.9	17.0	16.6	15.3	12.5	12.8
State	21.5	32.1	31.7	32.2	32.8	35.3	37.6	38.5	25.9	31.4	29.9	28.9
Local	3.0	2.8	2.8	2.8	2.9	3.1	3.2	3.4	3.6	2.7	2.6	2.6
All other	44.7	51.7	56.0	59.5	62.3	65.0	69.0	74.2	53.9	50.6	55.1	55.7
<b>Public</b>	<b>53.1</b>	<b>67.8</b>	<b>68.5</b>	<b>70.2</b>	<b>72.5</b>	<b>76.5</b>	<b>81.8</b>	<b>85.6</b>	<b>64.0</b>	<b>66.3</b>	<b>64.8</b>	<b>64.3</b>
Federal	8.1	8.9	7.8	7.5	7.6	8.1	8.6	8.9	9.8	8.7	6.9	6.7
State	21.2	31.4	31.0	31.4	32.1	34.5	36.8	37.4	25.5	30.7	29.2	28.1
Local	2.7	2.5	2.6	2.6	2.6	2.8	2.9	3.1	3.3	2.4	2.4	2.3
All other	21.2	25.0	27.3	28.8	30.2	31.1	33.5	36.2	25.5	24.5	26.4	27.2
<b>Private</b>	<b>29.9</b>	<b>34.4</b>	<b>35.8</b>	<b>37.5</b>	<b>39.3</b>	<b>41.5</b>	<b>43.9</b>	<b>47.5</b>	<b>36.0</b>	<b>33.7</b>	<b>35.2</b>	<b>35.7</b>
Federal	5.7	6.7	6.1	6.0	6.2	6.6	7.2	8.1	6.9	6.6	5.6	6.1
State and local	0.7	1.0	0.9	0.9	1.0	1.1	1.2	1.4	0.8	1.0	0.9	1.1
All other	23.5	26.7	28.9	30.7	32.1	33.8	35.5	38.0	28.3	26.1	28.6	28.5

Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, annual.

**No. 218. Federal Funds for Education and Related Programs, by Level of Education or Activity, Agency, and Program: 1980 to 1990**  
(In millions of dollars, except percent. For fiscal years ending in June. To the extent possible, amounts represent outlays)

LEVEL, AGENCY, AND PROGRAM	1980	1985	1988	1989	1990 <sup>1</sup>	1980	1985	1988	1989	1990 <sup>1</sup>
<b>Total, all programs</b>	34,317.1	38,809.9	43,216.0	47,912.1	50,451.1	2,235.7	298.2	277.7	287.2	296.6
Percent of Federal budget outlays	5.8	4.1	4.1	4.2	4.2	212.2	21.6	21.6	223.8	236.3
<b>Elementary/secondary education programs</b>	16,027.7	16,901.3	18,564.9	19,751.2	21,120.9	460.7	23.3	4.1	6.5	8.9
Department of Education	6,629.1	7,296.7	8,096.4	8,869.3	9,479.3	70.7	2.3	4.1	6.5	8.9
Grants for the disadvantaged	3,204.7	4,206.8	4,027.6	4,185.4	4,558.2	122.1	43.6	40.7	40.3	33.4
School improvement programs	788.9	526.4	443.5	975.2	1,260.9					
Indian education	93.4	82.3	18.3	65.7	67.8					
Education for the handicapped	821.8	1,018.0	1,466.0	1,880.8	1,716.4	1,559.0	25.0	113.7	123.5	133.5
Vocational and adult education	860.7	658.3	1,275.8	842.0	908.1	80.2				
Department of Agriculture	4,064.5	4,134.9	4,806.2	5,104.5	5,552.9					
Child nutrition programs	3,377.1	3,664.6	4,286.8	4,555.6	5,001.6					
Agricultural Marketing Service—commodities <sup>3</sup>	388.0	336.5	349.7	342.1	350.9					
Special milk program <sup>2</sup>	159.3	16.0	18.3	18.5	18.9					
Department of Defense	370.8	831.6	988.3	1,059.3	1,116.4	35.4	72.0	52.1	64.7	71.1
Overseas dependents schools	338.8	613.4	773.8	821.4	866.6	44.8	53.3	61.5	58.9	62.4
Section VI schools <sup>4</sup>		162.6	169.2	184.0	194.9	12.5	55.6	45.0	63.6	48.8
Department of Energy	77.6	23.0	12.9	12.9	12.8	1,803.8	944.1	768.1	725.3	691.7
Energy conservation for school buildings	77.2	22.7	12.6	12.4	12.4	1,580.0	694.2	345.2	264.7	55.6
Department of Health and Human Services	1,077.0	1,531.1	1,651.3	1,703.5	1,883.9	0.9	82.6	203.3	195.1	184.9
Head Start	735.0	1,075.1	1,206.3	1,234.9	1,386.3	511.8	252.0	343.8	389.0	418.3
Social security student benefits	342.0	456.0	445.0	468.6	487.6	56.5	49.1	47.6	51.4	52.8
Department of the Interior	318.2	389.8	379.6	379.4	459.9	64.6	60.1	97.5	130.2	156.5
Mineral Leasing Act and other funds	111.6	186.4	127.1	169.2	224.5	51.1	124.0	160.4	164.8	176.1
Indian Education	206.2	202.9	251.9	209.6	224.8	1,548.7	2,107.6	2,881.5	3,180.7	3,498.9
Department of Justice	23.9	36.1	50.7	58.5	67.8	187.3	284.9	295.6	301.3	340.3
Immigration programs	18.9	27.8	42.0	51.6	64.7	128.1	85.7	101.2	140.4	145.3
Department of Labor	1,849.8	1,945.3	2,266.7	2,272.0	2,289.1	425.9	798.3	1,536.9	1,823.3	1,825.9
Job Corps	469.8	604.7	712.2	772.0	789.1	271.1	336.4	342.5	347.0	352.4
Department of Veterans Affairs	545.8	344.8	196.2	168.9	144.8	37.8	47.2	62.1	71.9	77.0
Vocational rehab for disabled veterans	88.0	107.5	112.1	118.7	129.3	25.0	23.8	33.3	23.9	27.1
Other agencies and programs	1,071.0	368.1	114.0	118.7	114.2	10.2	3.8	3.2	4.4	4.2
<b>Higher education programs</b>	10,939.5	10,956.5	10,419.1	12,870.4	12,851.4	14.6	16.2	32.6	38.1	66.3
Department of Education	5,682.2	8,202.5	8,247.1	10,640.0	10,507.3	414.7	481.7	542.4	582.7	608.8
Student financial assistance	3,682.8	4,162.7	5,219.9	5,598.9	5,794.9	95.7	141.8	183.1	182.8	181.1
Guaranteed student loans	1,408.0	3,534.8	2,779.3	3,899.4	3,846.1	151.9	169.3	160.5	178.0	206.7
Department of Agriculture	10.5	17.7	27.8	27.8	31.3	0.2	1.1	1.2	1.2	0.9
Tuition assistance for military personnel	545.0	1,041.7	573.4	698.9	708.8	85.8	76.3	76.8	84.9	87.1
Service academies <sup>5</sup>	(NA)	77.1	134.5	236.1	249.8					
Senior ROTC	106.1	196.4	109.1	115.2	123.8	5,801.2	8,844.6	11,250.5	12,009.8	12,990.0
Professional development education	(6)	354.0	179.2	198.3	206.9	293.3	293.3	309.7	314.3	292.1
Department of Energy	57.7	19.5	15.1	15.1	15.1	644.5	1,245.9	1,940.3	1,940.3	2,185.5
University laboratory cooperative program	2.8	6.5	13.6	5.9	5.9	2,205.3	2,205.3	2,350.4	2,567.8	2,607.8
Energy conservation for buildings—higher education	53.5	12.7	7.7	6.5	6.5	2,087.1	3,228.0	4,282.1	4,548.3	4,978.0
National Science Foundation						254.6	897.5	897.5	976.5	1,085.7
						743.8	1,087.0	1,232.1	1,342.6	1,507.6

<sup>1</sup> Represents or rounds to zero. <sup>2</sup> NA Not available. <sup>3</sup> Includes other programs and agencies, not shown separately. <sup>4</sup> Purchased under Section 32 of the Act of August 1935 for use in child nutrition programs. <sup>5</sup> Includes stateside schools on military installations for free education of dependents. <sup>6</sup> Instructional costs only including academics, audiovisual, academic computing center facility training, military training, physical education, and libraries. <sup>7</sup> Included in total above.

Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, 1990.

### No. 219. Enrollment in Public and Private Schools, by Control and Level, 1970 to 1989, and Projections, 1990 to 2000

(In thousands. As of fall. Data are for regular day schools and exclude independent nursery schools and kindergartens, residential schools for exceptional children, subcollegiate departments of colleges, Federal schools for Indians, and federally operated schools on Federal installations. College data include degree-credit and nondegree-credit enrollment)

CONTROL OF SCHOOL AND LEVEL	1970	1980	1983	1984	1985	1986	1987	1988	1989, est.	1990, proj.	1995, proj.	2000, proj.
<b>Total</b> .....	<b>59,853</b>	<b>58,347</b>	<b>57,433</b>	<b>57,151</b>	<b>57,226</b>	<b>57,710</b>	<b>58,122</b>	<b>58,478</b>	<b>59,382</b>	<b>59,750</b>	<b>63,088</b>	<b>64,301</b>
Public .....	52,337	50,376	48,936	48,686	48,901	49,468	49,981	50,349	51,038	51,340	54,319	55,357
Private .....	7,516	7,971	8,497	8,465	8,325	8,242	8,140	8,129	8,344	8,410	8,769	8,944
Kindergarten through 8 .....	36,629	31,669	31,294	31,201	31,225	31,535	32,048	32,537	33,309	33,765	35,496	35,145
Public .....	32,577	27,677	26,979	26,901	27,030	27,419	27,930	28,501	29,147	29,546	31,061	30,754
Private .....	4,052	3,992	4,315	4,300	4,195	4,116	4,118	4,036	4,162	4,219	4,435	4,391
Grades 9 through 12 .....	14,643	14,581	13,674	13,708	13,754	13,670	13,307	12,898	12,654	12,427	13,935	14,830
Public .....	13,332	13,242	12,274	12,308	12,392	12,334	12,078	11,692	11,461	11,255	12,621	13,432
Private .....	1,311	1,339	1,400	1,400	1,362	1,336	1,229	1,206	1,193	1,172	1,314	1,398
College .....	8,581	12,097	12,465	12,242	12,247	12,505	12,767	13,043	13,419	13,558	13,657	14,326
Public .....	6,428	9,457	9,683	9,477	9,479	9,715	9,973	10,156	10,430	10,539	10,637	11,171
Private .....	2,153	2,640	2,782	2,765	2,768	2,790	2,793	2,887	2,989	3,019	3,020	3,155

Source: U.S. National Center for Education Statistics, *Projections of Education Statistics*, annual; *Digest of Education Statistics*, annual; and unpublished data.

### No. 220. Enrollment in Public and Private Schools: 1960 to 1989

(In millions, except percent. As of October. For civilian noninstitutional population. For 1960, 5 to 34 years old; for 1970 to 1985, 3 to 34 years old; beginning 1986, for 3 years old and over)

YEAR	PUBLIC						PRIVATE					
	Total	Nur- sery	Kindergarten	Elementary	High School	College	Total	Nur- sery	Kindergarten	Elementary	High School	College
1960 .....	39.0	(NA)	27.5	9.2	2.3	7.2	(NA)	4.9	1.0	1.3		
1970 .....	52.2	0.3	2.6	30.0	13.5	5.7	8.1	0.8	0.5	3.9	1.2	1.7
1980 .....	(NA)	0.6	2.7	24.4	(NA)	(NA)	1.4	0.5	3.1	(NA)	(NA)	(NA)
1985 .....	49.0	0.9	3.2	23.8	12.8	8.4	9.0	1.6	0.6	3.1	1.2	2.5
1986 .....	51.2	0.8	3.4	24.2	13.0	9.8	9.4	1.7	0.6	3.0	1.2	2.9
1987 .....	51.7	0.8	3.4	24.8	12.7	10.0	8.9	1.7	0.6	2.8	1.1	2.8
1988 .....	52.2	0.9	3.4	25.5	12.2	10.3	8.9	1.8	0.5	2.8	1.0	2.8
1989 .....	52.5	0.9	3.3	25.9	12.1	10.3	8.9	1.9	0.6	2.7	0.8	2.9
Percent White:												
1960 .....	85.7	(NA)	84.3	88.2	92.2	95.7	(NA)	95.3	96.7	96.3		
1970 .....	84.5	59.5	84.4	83.1	85.6	90.7	93.4	91.1	88.2	94.1	96.1	92.8
1980 .....	(NA)	68.2	80.7	80.9	(NA)	(NA)	(NA)	89.0	87.0	90.7	(NA)	(NA)
1985 .....	80.3	72.2	79.0	79.1	80.4	85.1	89.9	89.8	86.7	90.6	92.2	88.7
1986 .....	80.0	71.9	77.8	79.0	80.1	83.9	88.9	89.6	90.6	90.2	88.3	87.2
1987 .....	79.7	74.3	75.7	78.9	79.6	83.7	89.0	90.5	88.9	90.3	88.5	86.9
1988 .....	80.1	75.0	79.6	78.9	79.1	84.8	87.7	89.4	87.5	88.4	89.2	85.6
1989 .....	80.1	73.3	79.3	79.0	78.8	85.0	87.5	88.2	88.0	87.6	90.0	86.4

NA Not available. <sup>1</sup> See table 263 for college enrollment 35 years old and over. See also footnote 2, table 221.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 443, and earlier reports; and unpublished data.

### No. 221. School Enrollment, by Sex and Level: 1960 to 1989

(In millions. As of Oct. For the civilian noninstitutional population. For 1960, persons 5 to 34 years old; 1970, 3 to 34 years old; thereafter, 3 years old and over. Elementary includes kindergarten and grades 1-8; high school, grades 9-12; and college, 2-year and 4-year colleges, universities, and graduate and professional schools. Data for college represent degree-credit enrollment)

YEAR	ALL LEVELS <sup>1</sup>			ELEMENTARY			HIGH SCHOOL			COLLEGE		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1960 .....	46.3	24.2	22.0	32.4	16.7	15.7	10.2	5.2	5.1	3.6	2.3	1.2
1970 .....	60.4	31.4	28.9	37.1	19.0	18.1	14.7	7.4	7.3	7.4	4.4	3.0
1980 .....	58.6	29.6	29.1	30.6	15.8	14.9	14.6	7.3	7.3	11.4	5.4	6.0
1982 .....	59.4	30.0	29.4	30.7	15.8	14.9	14.2	7.2	7.0	12.3	5.9	6.4
1983 .....	59.3	30.1	29.2	30.6	15.7	14.8	14.1	7.1	7.0	12.4	6.0	6.3
1984 .....	58.9	29.9	29.0	30.3	15.6	14.7	13.9	7.1	6.8	12.3	6.0	6.3
1985 .....	59.8	30.0	29.7	30.7	15.7	15.0	14.1	7.2	6.9	12.5	5.9	6.6
1986 .....	60.1	30.4	29.7	31.1	16.1	15.0	14.0	7.1	6.9	12.4	5.8	6.6
1986 <sup>2</sup> .....	60.5	30.6	30.0	31.1	16.1	15.0	14.2	7.2	7.0	12.7	6.0	6.7
1987 .....	60.6	30.7	29.9	31.6	16.3	15.3	13.8	7.0	6.8	12.7	6.0	6.7
1988 .....	61.1	30.7	30.5	32.2	16.6	15.6	13.2	6.7	6.4	13.1	5.9	7.2
1989 .....	61.5	30.8	30.7	32.5	16.7	15.8	12.9	6.6	6.3	13.2	6.0	7.2

<sup>1</sup> Beginning 1970, includes nursery schools, not shown separately. <sup>2</sup> Revised. Data beginning 1986, based on a revised edit and tabulation package.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 443, and earlier reports; and unpublished data.

## No. 222. School Enrollment, by Age, Race, and Hispanic Origin: 1970 to 1989

[As of October. Covers civilian noninstitutional population enrolled in nursery school and above. Based on Current Population Survey, see text, section 1. See *Historical Statistics, Colonial Times to 1970*, series H 442-476 for enrollment 5-34 years old]

AGE, RACE, AND HISPANIC ORIGIN	ENROLLMENT (1,000)						RATE					
	1970	1980	1985	1987	1988	1989	1970	1980	1985	1987	1988	1989
<b>Total 3 to 34 years old<sup>1</sup></b>	<b>60,357</b>	<b>57,348</b>	<b>58,013</b>	<b>58,692</b>	<b>58,846</b>	<b>59,235</b>	<b>56.4</b>	<b>49.7</b>	<b>48.3</b>	<b>48.6</b>	<b>48.7</b>	<b>49.1</b>
3 and 4 years old	1,461	2,280	2,801	2,744	2,797	2,898	20.5	36.7	38.9	38.3	38.2	39.1
5 and 6 years old	7,000	5,853	6,697	6,956	7,044	6,990	89.5	95.7	96.1	95.1	96.0	95.2
7 to 13 years old	28,943	23,751	22,849	23,525	24,044	24,431	99.2	89.3	89.2	99.2	99.7	99.3
14 and 15 years old	7,869	7,282	7,362	6,651	6,481	6,493	98.1	98.2	98.1	98.6	98.9	98.8
16 and 17 years old	6,927	7,129	6,654	6,881	6,561	6,254	90.0	89.0	91.7	91.7	91.6	92.7
18 and 19 years old	3,322	3,788	3,716	3,982	4,059	4,125	47.7	46.4	51.6	56.6	55.7	56.0
20 and 21 years old	1,949	2,515	2,708	2,740	2,724	2,630	31.9	31.0	35.3	38.7	39.1	38.5
22 to 24 years old	1,410	1,931	2,068	2,052	2,092	2,207	14.9	16.3	16.9	17.5	18.3	19.9
25 to 29 years old	1,011	1,714	1,942	1,931	1,773	1,960	7.5	9.3	9.2	9.0	8.3	9.3
30 to 34 years old	466	1,105	1,218	1,229	1,271	1,248	4.2	6.4	6.1	5.9	3.9	5.7
35 years old and over	(NA)	1,290	1,766	1,931	2,270	2,230	(NA)	1.4	1.7	1.8	2.1	2.0
<b>White: Total 3 to 34 years old</b>	<b>51,719</b>	<b>47,673</b>	<b>47,452</b>	<b>47,471</b>	<b>47,672</b>	<b>47,923</b>	<b>56.2</b>	<b>48.9</b>	<b>47.8</b>	<b>47.7</b>	<b>48.0</b>	<b>48.4</b>
3 and 4 years old	1,181	1,844	2,250	2,227	2,288	2,370	19.9	36.3	38.6	38.2	38.9	39.4
5 and 6 years old	5,899	4,781	5,437	5,564	5,655	5,598	90.3	95.8	96.4	94.8	96.1	95.2
7 to 13 years old	24,564	19,585	18,464	18,922	19,320	19,638	99.2	99.2	99.3	99.5	99.7	99.3
14 and 15 years old	6,761	6,038	6,007	5,336	5,186	5,197	98.2	98.3	98.1	98.5	98.8	98.8
16 and 17 years old	6,008	5,937	5,449	5,596	5,284	4,993	90.6	88.6	91.6	91.8	91.4	92.3
18 and 19 years old	2,924	3,199	3,105	3,232	3,338	3,392	48.7	46.3	52.4	55.3	55.8	56.4
20 and 21 years old	1,750	2,206	2,318	2,324	2,309	2,208	33.1	31.9	36.1	39.6	40.2	39.5
22 to 24 years old	1,305	1,669	1,744	1,691	1,771	1,841	15.7	16.4	17.0	17.3	18.6	20.0
25 to 29 years old	910	1,473	1,635	1,560	1,458	1,659	7.7	9.2	9.2	8.7	8.2	9.4
30 to 34 years old	416	942	1,043	1,020	1,062	1,028	4.2	6.3	6.2	5.7	5.9	5.6
35 years old and over	(NA)	1,104	1,533	1,675	1,962	1,956	(NA)	1.3	1.7	1.8	2.1	2.0
<b>Black: Total 3 to 34 years old</b>	<b>7,829</b>	<b>8,251</b>	<b>8,444</b>	<b>8,713</b>	<b>8,608</b>	<b>8,707</b>	<b>57.4</b>	<b>53.9</b>	<b>50.9</b>	<b>51.7</b>	<b>50.6</b>	<b>51.3</b>
3 and 4 years old	250	371	469	392	375	407	22.7	38.2	42.7	36.8	33.4	38.9
5 and 6 years old	999	904	1,030	1,076	1,072	1,084	84.9	95.4	95.7	95.8	95.5	94.9
7 to 13 years old	3,998	3,598	3,549	3,686	3,761	3,761	99.3	99.4	99.1	99.8	99.7	99.2
14 and 15 years old	1,025	1,088	1,106	1,050	1,025	1,023	97.6	97.9	97.9	98.3	98.9	99.4
16 and 17 years old	837	1,047	994	1,034	1,029	1,033	85.7	90.6	91.7	91.5	91.5	93.7
18 and 19 years old	352	494	472	555	532	541	40.1	45.7	44.1	53.2	50.3	50.2
20 and 21 years old	174	242	298	289	276	309	22.8	23.4	27.7	28.7	28.1	30.7
22 to 24 years old	84	196	215	233	201	253	8.0	13.6	13.7	15.0	13.2	17.2
25 to 29 years old	68	187	192	248	192	168	4.8	8.8	7.4	9.3	7.2	6.4
30 to 34 years old	41	124	119	150	145	130	3.4	6.8	5.1	6.0	5.6	4.9
35 years old and over	(NA)	2186	2233	183	221	167	(NA)	21.8	21.9	1.7	2.0	1.5
<b>Hispanic:<sup>3</sup> Total 3 to 34 years old</b>	<b>(NA)</b>	<b>4,263</b>	<b>5,070</b>	<b>5,619</b>	<b>5,589</b>	<b>5,722</b>	<b>(NA)</b>	<b>49.8</b>	<b>47.7</b>	<b>47.2</b>	<b>46.0</b>	<b>45.8</b>
3 and 4 years old	(NA)	172	213	273	205	202	(NA)	28.5	27.0	30.7	24.5	23.8
5 and 6 years old	(NA)	491	662	763	788	785	(NA)	94.5	94.5	93.0	95.7	92.8
7 to 13 years old	(NA)	2,009	2,322	2,517	2,598	2,637	(NA)	99.2	99.0	99.3	99.7	98.7
14 and 15 years old	(NA)	568	606	666	693	706	(NA)	94.3	96.1	97.6	98.8	96.5
16 and 17 years old	(NA)	454	562	559	492	554	(NA)	81.8	84.5	87.1	78.8	86.4
18 and 19 years old	(NA)	226	238	273	324	327	(NA)	37.8	41.8	39.1	44.1	44.6
20 and 21 years old	(NA)	111	137	178	125	152	(NA)	19.5	24.0	26.5	16.7	18.8
22 to 24 years old	(NA)	93	125	150	140	153	(NA)	11.7	11.6	12.3	12.1	12.0
25 to 29 years old	(NA)	84	120	156	123	129	(NA)	6.9	6.8	7.5	5.8	6.6
30 to 34 years old	(NA)	54	83	83	101	76	(NA)	5.1	5.7	5.0	5.6	3.8
35 years old and over	(NA)	(NA)	(NA)	88	113	136	(NA)	(NA)	(NA)	1.5	1.8	2.1
<b>Mexican:<sup>3</sup> Total 3 to 34 years old</b>	<b>(NA)</b>	<b>2,698</b>	<b>3,180</b>	<b>3,720</b>	<b>3,764</b>	<b>3,743</b>	<b>(NA)</b>	<b>49.0</b>	<b>47.5</b>	<b>47.3</b>	<b>46.0</b>	<b>44.7</b>
3 and 4 years old	(NA)	104	137	180	136	148	(NA)	27.0	26.0	30.7	22.7	22.7
5 and 6 years old	(NA)	327	458	522	581	553	(NA)	93.2	95.3	92.9	95.5	91.8
7 to 13 years old	(NA)	1,378	1,526	1,799	1,800	1,768	(NA)	99.5	99.2	99.6	99.8	98.9
14 and 15 years old	(NA)	361	367	447	508	481	(NA)	92.1	97.7	96.5	98.5	95.7
16 and 17 years old	(NA)	257	358	342	332	358	(NA)	76.1	83.8	84.7	79.7	85.3
18 and 19 years old	(NA)	113	127	145	173	176	(NA)	32.0	35.2	32.8	36.0	36.9
20 and 21 years old	(NA)	55	61	95	69	79	(NA)	15.6	16.4	21.6	13.5	14.6
22 to 24 years old	(NA)	40	55	66	52	77	(NA)	7.5	7.8	8.2	6.7	8.9
25 to 29 years old	(NA)	41	58	77	54	64	(NA)	5.4	5.0	6.0	4.0	5.0
30 to 34 years old	(NA)	22	36	48	58	41	(NA)	3.3	4.5	4.5	5.2	3.3
35 years old and over	(NA)	(NA)	(NA)	52	62	73	(NA)	(NA)	(NA)	1.6	1.8	2.0

NA Not available. <sup>1</sup> Includes other races, not shown separately. <sup>2</sup> Black and other races. <sup>3</sup> Persons of Hispanic origin may be of any race.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 443, and earlier reports; and unpublished data.

**No. 223. Years of School Completed, by Age and Race: 1940 to 1989**

[Through 1980, as of April 1; beginning 1985 as of March. Excludes Armed Forces, except members living off post or with families on post. Beginning 1980, excludes inmates of institutions. 1940 based on complete count; 1950 based on 20-percent sample; 1960 on 25-percent sample; 1970 on 20-percent sample; and 1980 on 17-percent sample; beginning 1985 based on Current Population Survey; see text, section 1. For definition of median, see Guide to Tabular Presentation]

AGE AND YEAR	ALL PERSONS					BLACK PERSONS				
	Percent not high school graduates		Percent with 4 years of high school or more		Median school years completed	Percent not high school graduates		Percent with 4 years of high school or more		Median school years completed
	Total	With less than 5 yr. of school	Total	College, 4 yr. or more		Total	With less than 5 yr. of school	Total	College, 4 yr. or more	
<b>25 years and over:</b>										
1940	75.5	13.7	24.5	4.6	8.6	92.7	42.0	7.3	1.3	5.7
1950	65.7	11.1	34.3	6.2	9.3	87.1	32.9	12.9	2.1	6.8
1960	58.9	8.3	41.1	7.7	10.6	79.9	23.8	20.1	3.1	8.0
1970	47.7	5.5	52.3	10.7	12.1	68.6	14.6	31.4	4.4	9.8
1980	33.5	3.6	66.5	16.2	12.5	48.8	8.2	51.2	8.4	12.0
1985	26.1	2.7	73.9	19.4	12.6	40.2	6.2	59.8	11.1	12.3
1987	24.4	2.4	75.6	19.9	12.7	36.6	5.0	63.4	10.7	12.4
1988	23.8	2.4	76.2	20.3	12.7	36.7	4.8	63.3	11.3	12.4
1988 <sup>1</sup>	23.8	2.4	76.2	20.3	12.7	36.5	4.9	63.5	11.2	12.4
1989	23.1	2.5	76.9	21.1	12.7	35.4	5.3	64.6	11.8	12.4
<b>25 to 29 years:</b>										
1940	61.9	5.9	38.1	5.9	10.3	88.4	27.7	11.6	1.6	7.0
1950	47.2	4.7	52.8	7.7	12.0	77.8	16.8	22.2	2.7	8.6
1960	39.3	2.8	60.7	11.1	12.3	62.3	7.0	37.7	4.8	9.9
1970	26.2	1.7	73.8	16.3	12.6	44.6	3.2	55.4	6.0	12.1
1980	15.5	1.1	84.5	22.1	12.9	24.8	1.1	75.2	11.4	12.6
1985	13.9	0.7	86.1	22.2	12.9	19.4	0.4	80.6	11.5	12.7
1987	14.0	0.9	86.0	22.0	12.8	16.7	0.4	83.3	11.4	12.7
1988	14.1	1.0	85.9	22.7	12.8	19.2	0.3	80.9	12.3	12.7
1988 <sup>1</sup>	14.3	1.0	85.7	22.5	12.8	19.4	0.3	80.6	12.2	12.7
1989	14.5	1.0	85.5	23.4	12.9	17.8	0.5	82.2	12.7	12.7

<sup>1</sup> Revised. Data beginning 1988, based on a revised edit and tabulation package.

Source: U.S. Bureau of the Census, *U.S. Census of Population, 1940, 1950, 1960, 1970, and 1980*, vol. I; and *Current Population Reports*, series P-20, Nos. 415, 428 and forthcoming reports.

**No. 224. Years of School Completed, by Race, Hispanic Origin, and Sex: 1970 to 1989**

[Persons 25 years old and over. Persons of Hispanic origin may be of any race. For definition of median, see Guide to Tabular Presentation. See headnote, table 223. See also *Historical Statistics, Colonial Times to 1970*, series H 602-617]

YEAR, RACE, HISPANIC ORIGIN, AND SEX	Popula- tion (1,000)	PERCENT OF POPULATION COMPLETING—							Median school years com- pleted
		Elementary school			High school		College		
		1 to 4 years	5 to 7 years	8 years	1 to 3 years	4 years	1 to 3 years	4 years or more	
<b>1970, total persons <sup>1</sup> . . . . .</b>	<b>109,899</b>	<b>5.5</b>	<b>10.0</b>	<b>12.8</b>	<b>19.4</b>	<b>31.1</b>	<b>10.6</b>	<b>10.7</b>	<b>12.1</b>
White . . . . .	98,246	4.5	9.1	13.0	18.8	32.2	11.1	11.3	12.1
Male . . . . .	46,527	4.8	9.7	13.3	18.2	28.5	11.1	14.4	12.1
Female . . . . .	51,718	4.1	8.6	12.8	19.4	35.5	11.1	8.4	12.1
Black . . . . .	10,375	14.6	18.7	10.5	24.8	21.2	5.9	4.4	9.8
Male . . . . .	4,714	17.7	19.1	10.2	22.9	20.0	6.0	4.2	9.4
Female . . . . .	5,661	12.0	18.3	10.8	26.4	22.2	5.8	4.6	10.0
Hispanic . . . . .	3,946	19.5	18.6	11.5	18.2	21.1	6.5	4.5	9.1
Male . . . . .	1,897	19.1	18.0	11.3	18.1	19.9	7.6	5.9	9.3
Female . . . . .	2,050	19.9	19.2	11.6	18.3	22.3	5.4	3.2	8.9
<b>1980, total persons <sup>1</sup> . . . . .</b>	<b>132,836</b>	<b>3.6</b>	<b>6.7</b>	<b>8.0</b>	<b>15.3</b>	<b>34.6</b>	<b>15.7</b>	<b>16.2</b>	<b>12.5</b>
White . . . . .	114,290	2.6	5.8	8.2	14.6	35.7	16.0	17.1	12.5
Male . . . . .	53,941	2.8	6.0	8.0	13.6	31.8	16.4	21.3	12.5
Female . . . . .	60,349	2.5	5.6	8.4	15.5	39.1	15.6	13.3	12.6
Black . . . . .	13,195	8.2	11.7	7.1	21.8	29.3	13.5	8.4	12.0
Male . . . . .	5,895	10.0	12.0	6.7	20.5	28.3	14.0	8.4	12.0
Female . . . . .	7,300	6.7	11.6	7.3	22.9	30.0	13.2	8.3	12.0
Hispanic . . . . .	6,739	15.5	16.6	8.1	15.8	24.4	12.0	7.6	10.8
Male . . . . .	3,247	15.2	16.2	7.7	15.5	22.6	13.4	9.4	11.1
Female . . . . .	3,493	15.8	17.1	8.4	16.1	26.0	10.6	6.0	10.6
<b>1989, total persons <sup>1</sup> . . . . .</b>	<b>154,155</b>	<b>2.5</b>	<b>4.1</b>	<b>5.0</b>	<b>11.5</b>	<b>38.5</b>	<b>17.3</b>	<b>21.1</b>	<b>12.7</b>
White . . . . .	132,903	2.0	3.7	5.0	10.8	39.1	17.5	21.8	12.7
Male . . . . .	63,578	2.2	3.9	4.8	10.4	35.7	17.6	25.4	12.8
Female . . . . .	69,325	1.8	3.5	5.2	11.2	42.3	17.4	18.5	12.7
Black . . . . .	16,395	5.3	7.1	4.9	18.1	36.5	16.3	11.8	12.4
Male . . . . .	7,315	6.1	7.3	5.2	17.2	36.3	16.2	11.6	12.4
Female . . . . .	9,080	4.6	7.0	4.7	18.7	36.7	16.5	11.9	12.4
Hispanic . . . . .	10,438	12.2	15.1	7.1	14.7	27.9	13.2	9.9	12.0
Male . . . . .	5,128	12.3	15.2	6.8	14.6	26.1	13.9	11.0	12.0
Female . . . . .	5,310	12.0	14.9	7.5	14.9	29.6	12.4	8.8	12.0

<sup>1</sup> Includes other races, not shown separately.

Source: U.S. Bureau of the Census, *U.S. Census of Population: 1970*, vols. I and II; *1980*, vol. I, chapter C, and *Current Population Reports*, series P-20, No. 428.

**No. 225. Years of School Completed, by Age, Race, and Hispanic Origin: 1989**

[Persons 25 years old and over. As of March 1989. See headnote, table 223. For definition of median, see Guide to Tabular Presentation]

SEX, AGE, RACE, AND HISPANIC ORIGIN	Popula- tion (1,000)	PERCENT OF POPULATION COMPLETING—								Median years of school com- pleted
		Elementary school			High school		College			
		1 to 4 years	5 to 7 years	8 years	1 to 3 years	4 years	1 to 3 years	4 years or more		
<b>Total persons</b> . . . . .	<b>154,155</b>	<b>2.5</b>	<b>4.1</b>	<b>5.0</b>	<b>11.5</b>	<b>38.5</b>	<b>17.3</b>	<b>21.1</b>	<b>12.7</b>	
Male . . . . .	73,225	2.8	4.3	4.8	11.0	35.4	17.4	24.5	12.8	
Female . . . . .	80,930	2.4	4.0	5.2	11.9	41.3	17.2	18.1	12.6	
25 to 29 years old . . . . .	21,478	1.0	1.5	1.6	10.4	41.7	20.4	23.4	12.9	
30 to 34 years old . . . . .	21,762	1.1	1.8	1.4	8.1	41.1	21.5	25.0	12.9	
35 to 44 years old . . . . .	35,873	1.4	2.1	1.9	7.9	37.3	21.5	27.9	13.0	
45 to 54 years old . . . . .	24,622	2.0	3.7	3.9	12.0	40.5	15.9	22.0	12.7	
55 to 64 years old . . . . .	21,399	3.5	5.5	6.6	15.3	39.6	13.3	16.2	12.5	
65 years old and over . . . . .	29,022	5.8	9.6	13.8	15.9	33.2	10.6	11.1	12.1	
<b>White</b> . . . . .	<b>132,903</b>	<b>2.0</b>	<b>3.7</b>	<b>5.0</b>	<b>10.8</b>	<b>39.1</b>	<b>17.5</b>	<b>21.8</b>	<b>12.7</b>	
25 to 29 years old . . . . .	17,973	0.9	1.7	1.5	9.9	41.2	20.4	24.4	12.9	
30 to 34 years old . . . . .	18,298	1.0	1.8	1.3	7.5	41.3	21.2	25.8	12.9	
35 to 44 years old . . . . .	30,687	1.4	1.9	1.8	7.0	37.3	21.9	28.8	13.1	
45 to 54 years old . . . . .	21,127	1.7	3.1	3.7	10.8	41.7	16.5	22.5	12.7	
55 to 64 years old . . . . .	18,818	2.7	4.7	6.6	14.2	41.1	13.7	17.1	12.5	
65 years old and over . . . . .	26,001	4.0	8.4	13.9	15.9	34.9	11.3	11.7	12.2	
<b>Black</b> . . . . .	<b>16,395</b>	<b>5.3</b>	<b>7.1</b>	<b>4.9</b>	<b>18.1</b>	<b>36.5</b>	<b>16.3</b>	<b>11.8</b>	<b>12.4</b>	
25 to 29 years old . . . . .	2,726	0.5	0.5	1.8	14.9	47.6	21.9	12.7	12.7	
30 to 34 years old . . . . .	2,662	0.8	0.9	1.4	13.8	44.1	25.0	13.9	12.7	
35 to 44 years old . . . . .	3,900	0.6	3.1	2.4	15.7	41.3	20.3	16.7	12.7	
45 to 54 years old . . . . .	2,565	2.9	8.1	6.0	22.9	35.9	12.4	11.8	12.3	
55 to 64 years old . . . . .	2,105	9.4	12.8	6.8	25.8	28.5	9.8	6.9	11.4	
65 years old and over . . . . .	2,436	21.8	22.0	13.5	18.1	15.8	4.1	4.6	8.5	
<b>Hispanic origin</b> <sup>1</sup> . . . . .	<b>10,438</b>	<b>12.2</b>	<b>15.1</b>	<b>7.1</b>	<b>14.7</b>	<b>27.9</b>	<b>13.2</b>	<b>9.9</b>	<b>12.0</b>	
25 to 29 years old . . . . .	2,152	5.4	10.9	4.4	18.4	34.0	17.0	10.1	12.3	
30 to 34 years old . . . . .	1,816	6.9	14.0	5.7	14.8	29.2	17.6	11.8	12.3	
35 to 44 years old . . . . .	2,669	10.8	14.1	6.1	12.9	30.2	14.9	10.9	12.2	
45 to 54 years old . . . . .	1,645	14.4	17.2	7.3	16.5	25.0	9.7	10.0	11.0	
55 to 64 years old . . . . .	1,151	20.0	17.2	10.7	15.4	22.2	7.4	7.2	9.4	
65 years old and over . . . . .	1,005	27.4	22.2	14.3	8.4	17.4	4.5	5.9	8.0	

<sup>1</sup> Persons of Hispanic origin may be of any race.

Source: U.S. Bureau of the Census, unpublished data.

**No. 226. Percent of Population With Less Than 12 Years of School and With 4 Years of College or More, by Age, Race, and Hispanic Origin: 1970 to 1989**

[Persons 25 years old and over. As of April 1970 and 1980, and March 1985 and 1989]

RACE AND HIS- PANIC ORIGIN	LESS THAN 12 YEARS OF SCHOOL								4 YEARS OF COLLEGE OR MORE							
				1989								1989				
	1970	1980	1985	Total	25-34 yr.	35-44 yr.	45-64 yr.	65 yr. and over	1970	1980	1985	Total	25-34 yr.	35-44 yr.	45-64 yr.	65 yr. and over
<b>All races</b> <sup>1</sup> . . . . .	<b>47.7</b>	<b>33.5</b>	<b>26.1</b>	<b>23.1</b>	<b>13.4</b>	<b>13.4</b>	<b>26.0</b>	<b>45.1</b>	<b>10.7</b>	<b>16.2</b>	<b>19.4</b>	<b>21.1</b>	<b>24.2</b>	<b>27.9</b>	<b>19.3</b>	<b>11.1</b>
White . . . . .	45.5	31.2	24.5	21.6	12.8	12.1	23.5	42.1	11.3	17.1	20.0	21.8	25.1	28.8	20.0	11.7
Black . . . . .	68.6	48.8	40.2	35.4	17.4	21.7	46.6	75.4	4.4	8.4	11.1	11.8	13.3	16.7	9.6	4.6
Hispanic origin <sup>2</sup> . . . . .	67.9	56.0	52.1	49.1	40.1	43.9	58.6	72.3	4.5	7.6	8.5	9.9	10.9	10.9	8.8	5.9
Mexican . . . . .	75.8	62.4	58.7	57.3	50.2	51.2	66.3	85.1	2.5	4.9	5.5	6.1	6.1	8.4	5.4	1.2
Puerto Rican . . . . .	76.6	59.9	53.7	46.0	24.2	39.0	70.7	72.5	2.2	5.6	7.0	9.8	12.8	14.7	3.4	4.8
Cuban . . . . .	56.1	44.7	48.9	37.0	16.2	27.8	43.7	52.5	11.1	16.2	16.7	18.8	21.0	19.9	19.6	19.0
Other <sup>3</sup> . . . . .	55.1	42.6	35.8	34.9	27.4	31.1	40.3	74.3	7.0	12.4	16.4	15.7	19.5	13.5	15.2	5.7

<sup>1</sup> Includes races not shown separately. <sup>2</sup> Persons of Hispanic origin may be of any race. <sup>3</sup> Includes Central and South American and other Hispanic origin.

Source: U.S. Bureau of the Census, *Census of Population: 1970*, vols. I and II; *1980 Census of Population*, vol. I, chapter C, *Current Population Reports*, series P-20, No. 444 and earlier reports; and unpublished data.

**No. 227. Years of School Completed, by Race and Hispanic Origin—States: 1989**

[For persons 25 years old and over. As of March. Persons of Hispanic origin may be of any race. Data are not shown by race or Hispanic origin for those states where the base figure for educational attainment is too small to meet statistical standards of reliability for a derived figure. Based on Current Population Survey and subject to sampling error. See text, section 1 and Appendix III]

ITEM	Total persons (1,000)	PERCENT COM- PLETING—		ITEM	Total persons (1,000)	PERCENT COM- PLETING—		ITEM	Total persons (1,000)	PERCENT COM- PLETING—	
		High school	College			High school	College			High school	College
<b>AL:</b> Total	2,524	63.2	11.6	<b>KS:</b> Total	1,525	82.2	22.3	<b>NC:</b> Total	4,124	71.3	18.3
White	1,953	65.9	12.5	White	1,414	82.9	23.2	White	3,270	74.6	20.5
Black	571	54.2	8.3	Black	83	70.7	9.6	Black	798	58.8	9.5
<b>AK:</b> Total	282	86.9	23.4	<b>KY:</b> Total	2,253	64.7	14.9	<b>ND:</b> Total	402	81.1	22.2
White	215	91.8	28.2	White	2,134	65.1	15.3	White	383	81.4	22.5
<b>AZ:</b> Total	2,214	80.6	22.2	Black	115	56.1	4.9	<b>OH:</b> Total	6,681	77.6	17.6
White	2,101	80.9	22.4	<b>LA:</b> Total	2,565	70.9	16.6	White	5,994	78.6	18.1
Hispanic	341	43.6	4.4	White	1,916	77.3	19.3	Black	650	68.7	11.7
<b>AR:</b> Total	1,477	67.6	14.8	Black	633	52.0	8.3	<b>OK:</b> Total	2,004	75.4	17.1
White	1,248	70.1	15.6	<b>ME:</b> Total	789	76.9	18.5	White	1,767	77.3	17.3
Black	209	53.9	9.6	White	784	77.0	18.6	Black	105	44.0	9.7
<b>CA:</b> Total	17,546	78.6	26.4	<b>MD:</b> Total	3,034	80.7	27.4	<b>OR:</b> Total	1,721	83.9	20.2
White	14,752	78.2	25.6	White	2,313	83.8	31.4	White	1,678	83.9	20.1
Black	1,155	84.3	19.0	Black	660	68.9	12.8	<b>PA:</b> Total	8,057	76.8	18.6
Hispanic	3,391	45.6	7.9	<b>MA:</b> Total	3,839	80.7	28.1	White	7,309	77.5	19.0
<b>CO:</b> Total	2,091	83.2	27.0	White	3,613	81.3	28.5	Black	644	68.6	12.3
White	1,923	84.9	28.2	Black	120	73.6	14.9	Hispanic	83	70.3	18.8
Black	95	72.2	13.5	Hispanic	107	57.8	12.2	<b>RI:</b> Total	643	72.7	20.2
Hispanic	232	53.7	4.9	<b>MI:</b> Total	5,748	77.0	17.3	White	610	72.2	19.6
<b>CT:</b> Total	2,145	80.6	27.5	White	4,917	79.5	17.8	<b>SC:</b> Total	2,212	69.8	16.6
White	1,994	80.5	27.8	Black	726	59.2	9.7	White	1,657	72.9	19.8
Black	131	83.5	20.3	<b>MN:</b> Total	2,688	85.5	21.5	Black	532	59.0	6.8
Hispanic	87	65.6	9.8	White	2,573	85.9	21.6	<b>SD:</b> Total	433	78.3	18.4
<b>DE:</b> Total	418	80.7	19.4	<b>MS:</b> Total	1,515	67.7	15.6	White	407	79.0	19.1
White	351	82.5	20.5	White	1,049	75.7	18.5	<b>TN:</b> Total	3,123	65.4	15.7
<b>DC:</b> Total	382	72.9	35.2	Black	454	49.6	9.1	White	2,642	64.7	15.7
White	135	91.7	39.2	<b>MO:</b> Total	3,297	75.9	21.6	Black	463	68.6	14.0
Black	248	62.5	14.5	White	2,963	76.7	22.6	<b>TX:</b> Total	9,630	74.3	21.7
<b>FL:</b> Total	8,361	77.9	19.8	Black	290	68.3	8.9	White	8,336	74.9	22.9
White	7,172	80.8	20.9	<b>MT:</b> Total	497	83.6	21.1	Black	1,121	69.6	10.9
Black	1,066	58.0	10.9	White	475	83.6	21.6	Hispanic	2,036	45.2	8.3
Hispanic	1,021	62.0	16.7	<b>NE:</b> Total	1,016	82.2	19.7	<b>UT:</b> Total	881	88.2	24.2
<b>GA:</b> Total	3,998	71.1	18.2	White	825	82.6	19.9	White	863	88.3	24.5
White	2,670	77.7	21.9	<b>NV:</b> Total	723	84.0	17.2	<b>VT:</b> Total	342	81.8	26.7
Black	1,198	56.7	9.9	White	653	84.5	16.7	White	340	81.7	26.8
<b>HI:</b> Total	687	82.3	23.9	<b>NH:</b> Total	705	82.2	23.5	<b>VA:</b> Total	3,840	74.3	27.3
White	203	90.9	31.0	White	699	82.1	23.4	White	3,069	79.1	30.2
<b>ID:</b> Total	582	77.3	17.1	<b>NJ:</b> Total	5,044	79.4	25.7	Black	673	53.2	11.9
White	568	78.0	17.0	White	4,365	80.7	26.1	<b>WA:</b> Total	2,932	88.2	24.1
<b>IL:</b> Total	7,063	77.2	21.1	Black	518	66.6	13.7	White	2,756	89.3	24.3
White	6,031	77.9	21.1	Hispanic	375	63.3	16.3	<b>WY:</b> Total	1,192	68.0	11.1
Black	847	70.5	13.9	<b>NM:</b> Total	886	74.6	20.6	White	1,122	68.1	11.0
Hispanic	408	47.8	11.0	White	810	75.2	20.9	<b>WI:</b> Total	3,025	81.1	18.9
<b>IN:</b> Total	3,554	78.0	13.8	Hispanic	303	56.9	8.8	White	2,911	81.5	19.2
White	3,270	77.9	13.9	<b>NY:</b> Total	11,501	76.7	22.8	<b>WY:</b> Total	275	85.6	21.9
Black	257	78.3	9.6	White	9,542	78.5	23.6	White	271	85.7	22.1
<b>IA:</b> Total	1,786	83.4	17.1	Black	1,519	66.1	12.7				
White	1,737	83.1	16.3	Hispanic	1,140	50.1	7.8				

Source: U.S. Bureau of the Census, unpublished data.

**No. 228. School Days Lost Associated With Acute Conditions: 1962 to 1988**

[Days lost per year per 100 children, ages 6-16, beginning 1985, ages 5-17. Based on data collected during the periods July of the previous year to June of the year shown through 1980; beginning 1985 is based on calendar year data. Based on a sample of the civilian noninstitutionalized population; see Appendix III]

CONDITION	1962	1965	1970	1975	1980	1985	1988				
							Total <sup>1</sup>	Male	Female	White	Black
All acute conditions	521	456	452	451	487	387	406	380	433	427	322
Infective and parasitic diseases	108	139	90	81	99	94	107	98	116	113	97
Respiratory conditions	342	238	264	261	282	216	217	204	231	231	148
Upper respiratory	174	147	147	121	118	91	84	75	93	86	76
Influenza and other	168	91	117	140	164	124	133	129	138	145	72
Digestive system conditions	14	13	24	21	22	213	14	12	17	14	17
Injuries	27	29	36	52	37	24	27	36	17	28	21
All other acute conditions	29	38	38	36	47	41	41	30	53	41	40

<sup>1</sup> Includes other races not shown separately. <sup>2</sup> Figure does not meet standards of reliability or precision.

Source: U.S. National Center for Health Statistics, series 10, and unpublished data.



**No. 229. Preprimary School Enrollment—Summary: 1970 to 1989**

[As of October. Civilian noninstitutional population. Includes public and nonpublic nursery school and kindergarten programs. Excludes 5 year olds enrolled in elementary school. Based on Current Population Survey; see text, section 1]

ITEM	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989
NUMBER OF CHILDREN (1,000)										
Population, 3 to 5 years old	10,183	9,284	9,873	10,252	10,612	10,733	10,866	10,872	10,994	11,038
Total enrolled <sup>1</sup>	4,954	4,878	5,105	5,385	5,480	5,865	5,971	5,932	5,977	6,026
Nursery	1,745	1,981	2,151	2,347	2,335	2,477	2,545	2,555	2,621	2,825
Public	570	628	729	809	742	846	829	819	852	930
Private	1,174	1,353	1,423	1,538	1,593	1,631	1,715	1,736	1,770	1,894
Kindergarten	3,211	2,897	2,954	3,038	3,145	3,388	3,426	3,377	3,356	3,201
Public	2,682	2,438	2,459	2,416	2,668	2,847	2,859	2,842	2,875	2,704
Private	528	459	494	623	476	541	567	535	481	496
White	4,105	3,994	4,165	4,430	4,411	4,757	4,851	4,748	4,891	4,911
Black	731	725	769	758	845	919	892	893	814	872
Hispanic <sup>2</sup>	(NA)	370	368	406	380	496	593	587	544	520
3 years old	683	857	928	1,005	1,004	1,035	1,041	1,022	1,028	1,005
4 years old	1,418	1,423	1,496	1,619	1,603	1,765	1,772	1,717	1,768	1,882
5 years old	2,852	2,598	2,681	2,762	2,872	3,065	3,157	3,192	3,183	3,139
ENROLLMENT RATE										
Total enrolled <sup>1</sup>	48.6	52.5	51.7	52.5	51.6	54.6	55.0	54.6	54.4	54.6
White	48.6	52.7	51.6	53.1	51.7	54.7	55.2	54.1	55.4	55.0
Black	48.1	51.8	52.0	48.8	51.3	55.8	54.1	54.2	48.2	54.2
Hispanic <sup>2</sup>	(NA)	43.3	41.2	42.7	41.6	43.3	47.8	45.5	44.2	41.6
3 years old	21.5	27.3	27.4	28.1	27.8	28.8	28.9	28.6	27.6	27.1
4 years old	40.5	46.3	45.7	47.4	44.8	49.1	49.0	47.7	49.1	51.0
5 years old	81.3	84.7	83.4	84.6	83.9	86.5	86.7	86.1	86.6	86.4

NA Not available. <sup>1</sup> Includes races not shown separately. <sup>2</sup> Persons of Hispanic origin may be of any race. The method of identifying Hispanic children was changed in 1980 from allocation based on status of mother to status reported for each child. The number of Hispanic children using the new method is larger.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 318; and unpublished data.

**No. 230. Preprimary School Enrollment, by Level of Enrollment and Labor Force Status of Mother: 1978 and 1989**

[See headnote table 229]

RACE AND LABOR FORCE STATUS	ALL CHILDREN (1,000)		PERCENT ENROLLED IN—								PERCENT NOT ENROLLED	
			Nursery school				Kindergarten					
			Total		Full-day		Total		Full-day, 1989			
	1978	1989	1978	1989	1978	1989	1978	1989	1978	1989		
TOTAL <sup>1</sup>												
Children 3 to 5 years old	9,110	11,038	20.0	25.6	6.9	8.5	30.3	29.0	11.7	49.7	45.4	
Living with mother	8,883	10,368	19.8	25.8	6.8	8.4	30.4	29.1	11.8	49.8	45.1	
Mother in labor force	4,097	6,114	22.1	27.7	11.4	12.0	31.0	29.3	12.1	47.0	43.0	
Employed	3,737	5,639	22.5	28.6	11.7	12.4	31.0	28.8	12.0	46.5	42.6	
Full-time	2,446	3,894	22.3	27.6	15.2	14.8	31.2	27.7	12.6	46.5	44.7	
Part-time	1,291	1,745	23.0	30.9	5.2	7.2	30.5	31.2	10.7	46.4	37.9	
Unemployed	360	475	17.4	16.8	7.8	6.7	30.6	36.2	13.3	52.0	47.0	
Mother not in labor force	4,786	4,254	17.9	23.0	2.9	3.3	29.9	28.7	11.3	52.2	48.3	
WHITE												
Children 3 to 5 years old	7,460	8,929	19.5	26.3	5.2	7.4	30.1	28.7	10.2	50.5	45.0	
Living with mother	7,301	8,487	19.4	26.6	5.1	7.3	30.1	28.7	10.3	50.5	44.7	
Mother in labor force	3,235	4,996	21.1	28.3	9.2	10.7	30.4	28.8	10.4	48.5	42.9	
Employed	3,014	4,683	21.3	29.1	9.4	11.2	30.7	28.4	10.4	48.0	42.5	
Full-time	1,877	3,070	20.1	27.9	12.6	13.6	31.0	26.9	10.7	48.9	45.2	
Part-time	1,137	1,612	23.3	31.5	4.1	6.5	30.2	31.3	9.8	46.5	37.2	
Unemployed	220	313	17.9	15.7	6.4	3.5	27.1	33.9	11.2	55.0	50.4	
Mother not in labor force	4,067	3,491	18.0	24.2	1.9	2.4	29.8	28.5	10.1	52.2	47.3	
BLACK												
Children 3 to 5 years old	1,410	1,610	22.1	22.3	15.3	14.7	31.0	31.9	19.9	46.9	45.8	
Living with mother	1,347	1,442	21.7	21.8	15.5	14.8	31.3	32.5	20.2	47.1	45.7	
Mother in labor force	731	898	25.9	23.9	20.6	19.2	32.5	34.2	21.5	41.6	41.9	
Employed	598	746	28.0	24.9	22.8	20.4	31.7	32.7	22.4	40.3	42.4	
Full-time	469	649	29.6	25.9	24.8	21.0	32.0	31.9	21.0	38.4	42.2	
Part-time	128	99	22.3	18.2	15.8	16.2	30.7	36.4	29.3	47.0	45.4	
Unemployed	133	151	16.7	19.2	10.6	13.2	35.7	41.7	17.9	47.6	39.1	
Mother not in labor force	616	544	16.6	18.2	9.4	7.5	29.8	29.6	18.0	53.5	52.2	
HISPANIC <sup>2</sup>												
Children 3 to 5 years old	720	1,250	11.8	14.4	5.0	6.9	29.1	27.2	9.8	59.1	58.4	
Living with mother	713	1,173	11.7	14.5	5.0	6.6	28.9	26.9	9.7	59.4	58.6	
Mother in labor force	296	547	16.3	17.0	7.1	9.9	27.5	23.8	7.7	56.2	59.2	
Employed	263	488	17.1	18.6	6.7	11.1	26.0	23.2	8.4	56.9	58.2	
Full-time	196	407	16.9	19.2	7.5	11.3	25.9	22.4	7.9	57.2	58.4	
Part-time	67	82	(B)	15.9	(B)	8.5	(B)	26.8	11.0	(B)	57.3	
Unemployed	33	59	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	
Mother not in labor force	417	626	8.4	12.1	3.5	3.7	29.9	29.7	11.5	61.7	58.2	

B Base figure too small to meet statistical standards for reliability of derived figure. <sup>1</sup> Includes races not shown separately. <sup>2</sup> Persons of Hispanic origin may be of any race.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 318; and unpublished data.

**No. 231. Public Elementary and Secondary Schools—Summary: 1980 to 1990***[For school year ending in year shown, except as indicated. Data are estimates]*

ITEM	Unit	1980	1984	1985	1986	1987	1988	1989	1990
School districts, total . . . . .	Number . . . . .	16,044	15,857	15,812	15,739	15,684	15,571	15,530	15,449
<b>ENROLLMENT</b>									
Population 5-17 years old <sup>1</sup> . . . . .	1,000 . . . . .	48,041	45,130	44,942	44,975	45,148	45,291	45,388	45,330
Percent of resident population . . . . .	Percent . . . . .	21.4	19.3	19.0	18.8	18.7	18.6	18.5	18.3
Fall enrollment <sup>2</sup> . . . . .	1,000 . . . . .	41,778	39,405	39,354	39,595	39,807	40,061	40,262	40,570
Percent of population 5-17 years old . . . . .	Percent . . . . .	87.0	87.3	87.6	87.9	88.3	88.6	88.8	89.4
Elementary <sup>3</sup> . . . . .	1,000 . . . . .	24,397	23,727	23,830	24,241	24,606	25,314	25,790	26,419
Secondary <sup>4</sup> . . . . .	1,000 . . . . .	17,381	15,678	15,524	15,354	15,200	14,748	14,472	14,151
Average daily:									
Membership (ADM) . . . . .	1,000 . . . . .	40,812	38,588	38,751	38,724	38,988	(NA)	(NA)	(NA)
Attendance (ADA) . . . . .	1,000 . . . . .	38,411	36,508	36,530	36,681	36,904	37,066	37,181	37,501
High school graduates . . . . .	1,000 . . . . .	2,762	2,503	2,424	2,388	2,430	2,497	2,466	2,362
<b>INSTRUCTIONAL STAFF</b>									
Total <sup>5</sup> . . . . .	1,000 . . . . .	2,521	2,440	2,473	2,519	2,564	2,604	2,650	2,697
Classroom teachers . . . . .	1,000 . . . . .	2,211	2,144	2,175	2,215	2,251	2,284	2,324	2,364
Average salaries:									
Instructional staff . . . . .	Dollar . . . . .	16,715	23,005	24,666	26,362	27,707	29,235	30,969	32,589
Classroom teachers . . . . .	Dollar . . . . .	15,970	21,935	23,800	25,199	26,565	28,023	29,570	31,166
<b>REVENUES</b>									
Revenue receipts . . . . .	Mil. dol. . . . .	97,635	128,875	141,013	153,807	163,782	175,933	189,616	199,754
Federal . . . . .	Mil. dol. . . . .	9,020	9,005	9,533	10,351	10,521	11,284	11,999	12,540
State . . . . .	Mil. dol. . . . .	47,929	61,611	69,107	75,935	81,571	86,932	93,795	97,352
Local . . . . .	Mil. dol. . . . .	40,686	58,259	62,373	67,521	71,690	77,717	83,822	89,862
Percent of revenue receipts:									
Federal . . . . .	Percent . . . . .	9.2	6.9	6.8	6.7	6.4	6.4	6.3	6.3
State . . . . .	Percent . . . . .	49.1	47.8	49.0	49.4	49.8	50.0	50.2	48.7
Local . . . . .	Percent . . . . .	41.7	45.3	44.2	43.9	43.7	43.6	43.5	45.0
<b>EXPENDITURES</b>									
Total . . . . .	Mil. dol. . . . .	96,105	127,014	139,382	152,187	163,004	175,462	190,377	204,155
Current expenditures (day schools) . . . . .	Mil. dol. . . . .	85,661	116,295	127,230	138,067	147,380	158,519	171,302	183,389
Other current expenditures <sup>6</sup> . . . . .	Mil. dol. . . . .	1,859	2,018	2,109	2,385	2,618	2,487	2,817	2,995
Capital outlay . . . . .	Mil. dol. . . . .	6,504	6,373	7,529	9,066	10,186	11,508	13,068	14,357
Interest on school debt . . . . .	Mil. dol. . . . .	2,081	2,328	2,514	2,670	2,821	2,949	3,190	3,414
Percent of total:									
Current expenditures (day schools) . . . . .	Percent . . . . .	89.1	91.6	91.3	90.8	90.5	90.6	90.3	89.8
Other current expenditures <sup>6</sup> . . . . .	Percent . . . . .	1.9	1.6	1.5	1.6	1.6	1.6	1.5	1.5
Capital outlay . . . . .	Percent . . . . .	6.8	5.0	5.4	5.9	6.2	6.1	6.5	7.0
Interest on school debt . . . . .	Percent . . . . .	2.2	1.8	1.8	1.8	1.7	1.7	1.7	1.7
<b>In current dollars:</b>									
Revenue receipts per pupil in—									
ADA . . . . .	Dollar . . . . .	2,542	3,530	3,860	4,193	4,438	4,746	5,100	5,327
ADM . . . . .	Dollar . . . . .	2,392	3,340	3,639	3,972	4,201	(NA)	(NA)	(NA)
Current expenditures per pupil in—									
ADA . . . . .	Dollar . . . . .	2,230	3,185	3,483	3,764	3,994	4,277	4,607	4,890
ADM . . . . .	Dollar . . . . .	2,089	3,014	3,283	3,565	3,780	(NA)	(NA)	(NA)
<b>In constant (1990) dollars: <sup>7</sup></b>									
Revenue receipts per pupil in—									
ADA . . . . .	Dollar . . . . .	4,156	4,404	4,634	4,893	5,066	5,203	5,343	5,327
ADM . . . . .	Dollar . . . . .	3,911	4,166	4,369	4,635	4,795	(NA)	(NA)	(NA)
Current expenditures per pupil in—									
ADA . . . . .	Dollar . . . . .	3,646	3,974	4,181	4,392	4,559	4,688	4,827	4,890
ADM . . . . .	Dollar . . . . .	3,432	3,760	3,942	4,160	4,315	(NA)	(NA)	(NA)

NA Not available. <sup>1</sup> Estimated resident population as of July 1 of the previous year. <sup>2</sup> Fall enrollment of the previous year. <sup>3</sup> Kindergarten through grade 6. <sup>4</sup> Grades 7 through 12. <sup>5</sup> Full-time equivalent. <sup>6</sup> Current expenses for summer schools, adult education, post-high school vocational education, personnel retraining, etc., when operated by local school districts and not part of regular public elementary and secondary day-school program. <sup>7</sup> Compiled by U.S. Bureau of the Census. Deflated by the Consumer Price Index, all wage earners (for school year) supplied by U.S. National Center for Education Statistics.

Source: Except as noted, National Education Association, Washington, DC, *Estimates of School Statistics*, annual (copyright) and *Rankings of the States*, annual (copyright); and unpublished data.

### No. 232. Public and Private Elementary and Secondary Schools—Enrollment and Teachers, 1960 to 1989, and Projections, 1990 to 2000

[In thousands, except percent. As of fall. Schools are classified by type of organization, rather than by grade group; elementary includes kindergarten and secondary includes junior high. Minus sign (-) indicates decrease]

ITEM	TOTAL				PUBLIC <sup>2</sup>			PRIVATE		
	Total	Percent change <sup>1</sup>	Elementary	Secondary	Total	Elementary	Secondary	Total	Elementary	Secondary
<b>Enrollment: 1960</b> . . . . .	42,181	3.6	29,150	13,031	36,281	24,350	11,931	5,900	4,800	1,100
1965 . . . . .	48,473	2.8	31,570	16,904	42,173	26,670	15,504	6,300	4,900	1,400
1970 . . . . .	51,272	1.1	31,553	19,719	45,909	27,501	18,408	5,363	4,052	1,311
1975 . . . . .	49,791	0.6	29,340	20,451	44,791	25,840	19,151	5,000	3,700	1,300
1980 . . . . .	46,250	-1.5	28,212	18,037	40,918	24,220	16,698	5,331	3,992	1,339
1985 . . . . .	44,979	0.6	28,424	16,555	39,422	24,229	15,193	5,557	4,195	1,362
1986 . . . . .	45,205	0.5	28,266	16,939	39,753	24,150	15,603	5,452	4,116	1,336
1987 . . . . .	45,355	0.3	28,423	16,932	40,008	24,305	15,703	5,347	4,118	1,229
1988 . . . . .	45,435	0.2	28,453	16,981	40,132	24,417	15,775	5,241	4,036	1,206
1988, est. . . . .	45,963	1.2	29,160	16,803	40,608	24,998	15,610	5,355	4,162	1,193
1990, proj. . . . .	46,192	0.5	29,522	16,870	40,801	25,303	15,498	5,391	4,219	1,172
1995, proj. . . . .	49,431	1.4	30,720	18,711	43,682	26,285	17,397	5,749	4,435	1,314
2000, proj. . . . .	49,975	0.2	30,267	19,708	44,186	25,876	18,310	5,789	4,391	1,398
<b>Teachers: 1960</b> . . . . .	1,600	4.5	991	609	1,408	858	550	192	133	59
1965 . . . . .	1,933	3.9	1,112	822	1,710	965	746	223	147	76
1970 . . . . .	2,288	3.4	1,281	1,007	2,055	1,128	927	233	153	80
1975 . . . . .	2,451	1.4	1,352	1,099	2,196	1,180	1,016	255	172	83
1980 . . . . .	2,485	0.3	1,401	1,084	2,184	1,189	995	301	212	89
1985 . . . . .	2,550	0.5	1,483	1,067	2,207	1,237	970	343	246	97
1986 . . . . .	2,592	1.6	1,517	1,075	2,244	1,267	977	348	250	98
1987 . . . . .	2,627	1.4	1,551	1,076	2,279	1,297	982	348	254	94
1988 . . . . .	2,661	1.3	1,588	1,073	2,316	1,337	979	345	251	94
1988, est. . . . .	2,737	2.9	1,607	1,130	2,360	1,332	1,028	377	275	102
1990, proj. . . . .	2,785	1.8	1,642	1,142	2,401	1,361	1,039	384	281	103
1995, proj. . . . .	3,016	1.6	1,751	1,266	2,602	1,451	1,151	414	300	114
2000, proj. . . . .	3,212	1.3	1,848	1,364	2,772	1,532	1,241	439	316	123

<sup>1</sup> Average from prior year shown; for 1960, change from 1955. For explanation of average annual change, see Guide to Tabular Presentation. <sup>2</sup> Data beginning 1970 are estimated.

Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, annual, and *Projections of Education Statistics*, annual.

### No. 233. Public Elementary and Secondary Schools, by Type and Size of School: 1988-89

[Data reported by schools, rather than school districts]

ENROLLMENT SIZE OF SCHOOL	NUMBER OF SCHOOLS					ENROLLMENT (1,000)				
	Total	Elementary	Secondary	Combined	Other <sup>4</sup>	Total	Elementary	Secondary	Combined	Other <sup>4</sup>
<b>Total</b> . . . . .	83,165	59,296	20,550	2,235	1,084	40,403	25,109	14,004	921	369
<b>PERCENT DISTRIBUTION</b> <sup>5</sup>										
<b>Total</b> . . . . .	100.00	100.0	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Under 100 students . . . . .	8.82	6.72	10.45	25.15	56.64	0.91	0.78	0.87	2.84	7.18
100 to 199 students . . . . .	11.19	10.97	11.06	14.77	17.71	3.41	3.86	2.38	5.14	7.49
200 to 299 students . . . . .	12.55	13.89	9.27	9.98	8.30	6.39	8.09	3.38	5.95	5.99
300 to 399 students . . . . .	14.68	17.38	8.32	8.32	4.06	10.39	14.02	4.27	7.11	4.10
400 to 499 students . . . . .	13.77	16.14	8.26	8.41	2.21	12.50	16.70	5.46	9.08	2.86
500 to 599 students . . . . .	11.39	13.00	7.72	8.10	1.48	12.62	16.41	6.22	10.63	2.35
600 to 699 students . . . . .	7.98	8.61	6.79	6.00	0.74	10.43	12.82	6.45	9.40	1.42
700 to 799 students . . . . .	5.56	5.54	6.01	4.21	1.01	8.40	9.52	6.59	7.62	2.27
800 to 999 students . . . . .	6.03	4.98	9.10	7.20	1.57	10.81	10.12	11.91	15.52	4.10
1,000 to 1,499 students . . . . .	5.34	2.54	13.35	5.95	2.21	12.91	6.70	23.91	17.19	7.78
1,500 to 1,999 students . . . . .	1.66	0.20	5.85	1.39	1.11	5.77	0.77	14.73	5.78	5.54
2,000 to 2,999 students . . . . .	0.90	0.03	3.42	0.36	0.65	4.26	0.16	11.75	2.04	4.44
3,000 or more students . . . . .	0.14	0.01	0.40	0.18	2.31	1.19	0.04	2.08	1.70	44.49
Average enrollment <sup>5</sup> . . . . .	(X)	(X)	(X)	(X)	(X)	494	433	681	412	341

X Not applicable. <sup>1</sup> Includes schools beginning with grade 6 or below and with no grade higher than 8. <sup>2</sup> Includes schools with no grade lower than 7. <sup>3</sup> Includes schools with both elementary and secondary grades. <sup>4</sup> Includes special education, alternative, and other schools not classified by grade span. <sup>5</sup> Data for those schools reporting enrollment.

Source: U.S. National Center for Education Statistics, unpublished data from "Common Core of Data" survey.

**No. 234. Public Elementary and Secondary School Enrollment, by State: 1980 and 1988**

[As of fall. Includes unclassified students]

STATE	ENROLLMENT (1,000)				ENROLLMENT RATE <sup>1</sup>		STATE	ENROLLMENT (1,000)				ENROLLMENT RATE <sup>1</sup>	
	K through Grade 8		Grades 9 through 12					K through Grade 8		Grades 9 through 12			
	1980	1988	1980	1988	1980	1988		1980	1988	1980	1988	1980	1988
U.S. . . . .	27,674	28,501	13,313	11,892	86.5	88.6	MO . . . . .	567	568	277	239	83.8	85.7
AL . . . . .	528	522	231	203	87.6	88.5	MT . . . . .	106	110	50	43	92.9	95.6
AK . . . . .	60	79	26	28	94.0	96.4	NE . . . . .	189	191	91	78	86.6	88.8
AZ . . . . .	357	418	157	157	88.9	88.1	NV . . . . .	101	127	49	49	93.4	95.7
AR . . . . .	310	309	138	127	90.3	91.6	NH . . . . .	112	120	55	50	85.3	87.1
CA . . . . .	2,761	3,317	1,357	1,301	88.0	90.3	NJ . . . . .	820	755	426	326	81.5	83.0
CO . . . . .	374	400	172	160	92.2	92.6	NM . . . . .	186	200	85	92	89.5	92.7
CT . . . . .	364	331	168	132	83.3	86.1	NY . . . . .	1,838	1,761	1,033	813	80.8	83.5
DE . . . . .	62	69	37	28	79.5	82.2	NC . . . . .	786	761	343	322	90.0	91.2
DC . . . . .	71	62	29	22	91.8	93.4	ND . . . . .	77	85	40	34	85.9	90.8
FL . . . . .	1,042	1,232	468	489	84.4	88.4	OH . . . . .	1,312	1,229	645	549	84.8	86.8
GA . . . . .	742	808	327	300	86.9	86.6	OK . . . . .	399	414	179	167	92.9	91.3
HI . . . . .	110	119	55	49	83.4	84.3	OR . . . . .	319	328	145	134	88.5	93.1
ID . . . . .	144	156	59	59	95.4	96.4	PA . . . . .	1,231	1,133	678	527	80.4	80.7
IL . . . . .	1,335	1,259	649	536	82.6	83.7	RI . . . . .	95	95	53	39	79.7	81.7
IN . . . . .	708	668	347	293	88.0	89.6	SC . . . . .	426	438	193	178	88.1	89.3
IA . . . . .	351	334	183	144	88.4	91.4	SD . . . . .	86	93	42	34	87.4	90.7
KS . . . . .	283	307	133	120	88.7	92.4	TN . . . . .	602	586	252	236	87.8	89.3
KY . . . . .	464	452	206	186	83.7	87.6	TX . . . . .	2,049	2,392	851	892	92.4	93.9
LA . . . . .	544	581	234	206	80.3	85.2	UT . . . . .	250	319	93	112	98.2	95.4
ME . . . . .	153	149	70	64	91.5	96.8	VT . . . . .	66	67	29	27	87.9	92.1
MD . . . . .	493	489	258	200	83.9	86.0	VA . . . . .	703	699	307	283	90.7	94.4
MA . . . . .	676	578	346	246	88.6	88.3	WA . . . . .	515	563	242	228	91.0	93.9
MI . . . . .	1,227	1,114	638	469	90.1	89.1	WV . . . . .	270	232	113	104	92.6	92.3
MN . . . . .	482	511	272	216	87.2	91.4	WI . . . . .	528	535	303	240	82.1	84.6
MS . . . . .	330	368	147	136	79.6	87.6	WY . . . . .	70	70	28	27	97.3	96.1

<sup>1</sup> Percent of persons 5-17 years old. Based on estimated resident population as of July 1, 1988, and enumerated population as of April 1, 1980.

Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, annual.

**No. 235. Public Elementary and Secondary School Enrollment, 1989, and Projections, 1990 and 1991**

[in thousands. As of fall. Includes unclassified students]

STATE	K THROUGH GRADE 8			GRADES 9 THROUGH 12			STATE	K THROUGH GRADE 8			GRADES 9 THROUGH 12		
	1989	1990	1991	1989	1990	1991		1989	1990	1991	1989	1990	1991
<b>U.S.</b> . . . .	<b>29,147</b>	<b>29,546</b>	<b>30,006</b>	<b>11,461</b>	<b>11,255</b>	<b>11,381</b>	<b>MO.</b> . . . .	576	586	592	232	230	233
AL . . . . .	529	528	531	199	194	195	MT . . . . .	110	110	110	41	41	42
AK . . . . .	82	84	88	27	28	28	NE . . . . .	193	195	195	77	76	76
AZ . . . . .	442	460	480	155	155	161	NV . . . . .	137	138	142	50	50	52
AR . . . . .	321	312	313	128	122	122	NH . . . . .	121	131	137	46	47	47
CA . . . . .	3,684	3,569	3,684	1,395	1,321	1,358	NJ . . . . .	768	793	815	308	303	302
CO . . . . .	382	419	428	145	154	157	NM . . . . .	197	216	223	87	92	93
CT . . . . .	338	352	360	126	124	125	NY . . . . .	1,780	1,799	1,819	792	772	775
DE . . . . .	71	72	73	27	27	28	NC . . . . .	767	782	794	311	302	302
DC . . . . .	66	63	62	22	21	21	ND . . . . .	84	85	85	33	33	33
FL . . . . .	1,286	1,339	1,394	487	478	484	OH . . . . .	1,237	1,248	1,255	528	517	516
GA . . . . .	829	849	871	297	297	302	OK . . . . .	421	420	421	159	155	157
HI . . . . .	121	126	129	48	49	50	OR . . . . .	338	332	334	134	132	135
ID . . . . .	154	155	153	59	60	62	PA . . . . .	1,148	1,162	1,172	506	492	491
IL . . . . .	1,240	1,287	1,295	506	513	516	RI . . . . .	98	100	102	37	36	37
IN . . . . .	671	674	674	287	281	283	SC . . . . .	444	452	456	172	168	171
IA . . . . .	337	330	327	142	137	139	SD . . . . .	94	95	96	33	34	35
KS . . . . .	313	314	317	118	118	120	TN . . . . .	605	594	596	235	224	226
KY . . . . .	452	448	443	179	175	178	TX . . . . .	2,426	2,449	2,482	883	866	872
LA . . . . .	580	591	592	200	200	204	UT . . . . .	322	321	320	114	120	125
ME . . . . .	151	154	156	62	60	60	VT . . . . .	68	69	70	26	25	25
MD . . . . .	508	531	549	191	186	191	VA . . . . .	714	738	758	272	267	268
MA . . . . .	586	604	618	232	225	224	WA . . . . .	584	590	599	226	222	228
MI . . . . .	1,070	1,135	1,147	430	437	435	WV . . . . .	227	221	214	101	97	96
MN . . . . .	494	535	544	198	207	211	WI . . . . .	544	552	557	233	230	235
MS . . . . .	368	368	365	134	130	133	WY . . . . .	70	70	69	27	26	27

Source: U.S. National Center for Education Statistics, *State Projections to 2000*.

**No. 236. Public Elementary and Secondary School Enrollment, by Grade: 1960 to 1988**

[1960, for school year; thereafter, as of fall of year. Beginning 1975, kindergarten includes nursery schools. For 1960, enrollment figures are prorated and 12th grade includes postgraduates. See also *Historical Statistics, Colonial Times to 1970*, series H 420-424]

GRADE	ENROLLMENT (1,000)										PERCENT DISTRIBUTION		
	1960	1970	1975	1980	1983	1984	1985	1986	1987	1988	1960	1980	1988
<b>Pupils enrolled</b>	<b>36,087</b>	<b>45,909</b>	<b>44,791</b>	<b>40,918</b>	<b>39,252</b>	<b>39,208</b>	<b>39,422</b>	<b>39,753</b>	<b>40,008</b>	<b>40,192</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Kindergarten and grades 1-8</b>	<b>27,602</b>	<b>32,577</b>	<b>30,487</b>	<b>27,677</b>	<b>26,979</b>	<b>26,901</b>	<b>27,030</b>	<b>27,419</b>	<b>27,930</b>	<b>28,501</b>	<b>76.5</b>	<b>67.6</b>	<b>70.9</b>
Kindergarten	1,923	2,559	2,945	2,689	2,859	3,010	3,192	3,310	3,387	3,433	5.3	6.6	8.5
First	3,733	3,814	3,236	2,894	3,080	3,113	3,239	3,358	3,407	3,460	10.3	7.1	8.6
Second	3,436	3,654	3,027	2,800	2,781	2,904	2,941	3,054	3,173	3,223	9.5	6.8	8.0
Third	3,302	3,862	3,038	2,908	2,772	2,765	2,895	2,933	3,046	3,167	9.2	7.1	7.9
Fourth	3,146	3,676	3,112	3,115	2,758	2,772	2,771	2,896	2,938	3,051	8.7	7.6	7.6
Fifth	3,118	3,634	3,261	3,130	2,798	2,761	2,776	2,775	2,901	2,945	8.6	7.6	7.3
Sixth	3,070	3,599	3,476	3,038	2,928	2,831	2,789	2,806	2,811	2,837	8.5	7.4	7.3
Seventh	3,173	3,662	3,619	3,087	3,247	3,036	2,938	2,899	2,910	2,905	8.8	7.5	7.2
Eighth	2,701	3,601	3,636	3,091	3,222	3,186	2,982	2,870	2,839	2,853	7.5	7.6	7.1
Unclassified <sup>1</sup>	(X)	716	1,115	924	533	524	507	518	519	525	(X)	2.3	1.3
<b>Grades 9-12</b>	<b>8,485</b>	<b>13,332</b>	<b>14,304</b>	<b>13,242</b>	<b>12,274</b>	<b>12,308</b>	<b>12,392</b>	<b>12,334</b>	<b>12,078</b>	<b>11,692</b>	<b>23.5</b>	<b>32.4</b>	<b>29.1</b>
Ninth	2,412	3,652	3,879	3,380	3,330	3,440	3,439	3,256	3,143	3,107	6.7	8.3	7.7
Tenth	2,258	3,457	3,723	3,375	3,103	3,145	3,230	3,215	3,020	2,896	6.3	8.2	7.2
Eleventh	2,063	3,127	3,354	3,195	2,861	2,819	2,866	2,954	2,935	2,750	5.7	7.8	6.8
Twelfth	1,752	2,774	2,986	2,925	2,678	2,599	2,550	2,601	2,681	2,651	4.8	7.1	6.6
Unclassified <sup>1</sup>	(X)	322	362	366	302	304	307	309	298	288	(X)	0.9	0.7

X Not applicable. <sup>1</sup> Includes ungraded and special education.

Source: U.S. Dept. of Education, National Center for Education Statistics, *Digest of Education Statistics*, annual.

**No. 237. Public Elementary and Secondary School Teachers—Selected Characteristics: 1988**

[For school year ending in year shown. Based on survey and subject to sampling error; for details, see source. See table 251 for similar data on private school teachers]

CHARACTERISTIC	Unit	AGE				SEX		RACE/ETHNICITY			LEVEL OF CONTROL	
		Under 30 years old	30 to 39 years old	40 to 49 years old	Over 50 years old	Male	Female	White	Black	Hispanic	Elementary	Secondary
Total <sup>2</sup>	1,000	311	813	752	417	681	1,631	2,050	190	67	1,182	1,142
Highest degree held:												
Bachelor's	Percent	82.9	53.3	44.2	42.3	44.2	55.5	52.4	50.1	60.9	56.8	47.3
Master's	Percent	15.4	40.6	46.0	45.5	44.9	37.9	39.9	41.9	29.6	36.9	43.2
Education specialist	Percent	1.1	5.2	7.8	9.3	7.5	5.7	6.2	5.9	6.7	5.6	7.0
Doctorate	Percent	(B)	0.5	1.3	1.6	1.6	0.6	0.8	1.4	(B)	0.6	1.3
Full-time teaching experience:												
Less than 3 years	Percent	36.5	6.0	2.3	1.2	6.2	8.7	8.1	6.4	11.9	8.4	7.6
3 to 9 years	Percent	63.2	33.6	14.0	5.7	19.5	28.8	26.7	19.6	33.2	27.4	24.6
10 to 20 years	Percent	(B)	60.2	55.0	27.9	44.3	44.6	44.3	46.0	40.9	44.3	44.7
20 years or more	Percent	(B)	(B)	28.6	65.0	29.9	17.8	20.8	27.9	13.9	19.8	23.0
Salary:												
Total	Dollar	21,228	26,359	30,635	32,550	32,436	26,345	28,199	27,821	27,235	26,660	29,717
Base	Dollar	19,257	24,447	28,556	30,826	28,244	25,350	26,236	25,965	25,103	25,578	26,879
School year supplement:												
Teachers receiving	Percent	37.9	32.0	30.8	21.8	52.2	22.6	31.3	21.0	28.7	17.5	43.7
Salary	Dollar	1,881	2,127	2,142	2,387	2,691	1,620	2,031	3,271	2,877	1,818	2,264
Summer school supplement:												
Teachers receiving	Percent	17.4	16.3	16.3	11.9	19.8	13.8	15.3	18.5	19.9	13.1	18.1
Salary	Dollar	1,880	1,761	1,779	1,955	2,152	1,608	1,738	2,234	2,581	1,646	1,934
Teachers with other employment:												
School year only	Percent	5.2	5.0	5.8	5.0	8.8	3.8	5.3	4.6	3.9	3.7	6.8
Summer only	Percent	16.9	6.7	5.1	3.8	10.5	5.5	7.0	6.7	6.8	5.7	8.4
All year	Percent	11.3	8.8	9.5	6.6	18.6	4.9	9.2	7.3	6.6	5.8	12.2

B Base too small to meet statistical reliability of a derived figure. <sup>1</sup> Persons of Hispanic origin may be of any race. <sup>2</sup> Includes teachers with no degrees, not shown separately.

Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, 1990.

### No. 238. Public Elementary and Secondary Schools—Number and Average Salary of Classroom Teachers, 1960 to 1990, and by State, 1990

[Estimates for school year ending in June of year shown. Schools classified by type of organization rather than by grade-group; elementary includes kindergarten]

YEAR AND STATE	TEACHERS <sup>1</sup> (1,000)			AVG. SALARY (\$1,000)			YEAR AND STATE	TEACHERS <sup>1</sup> (1,000)			AVG. SALARY (\$1,000)		
	Total	Elementary	Secondary	All teachers	Elementary	Secondary		Total	Elementary	Secondary	All teachers	Elementary	Secondary
1960.....	1,355	834	521	5.0	4.8	5.3	KY.....	35.8	24.3	11.6	26.3	25.6	27.7
1970.....	2,008	1,109	899	8.6	8.4	8.9	LA.....	44.0	29.6	14.3	24.3	23.9	25.1
1975.....	2,171	1,169	1,001	11.7	11.3	12.0	ME.....	14.2	9.4	4.8	26.9	26.3	28.1
1978.....	2,189	1,173	1,017	14.2	13.9	14.6	MD.....	40.7	21.5	19.2	36.6	35.0	37.4
1979.....	2,189	1,189	1,010	15.0	14.7	15.4	MA.....	59.0	25.4	33.7	34.2	34.2	34.2
1980.....	2,211	1,206	1,005	16.0	15.6	16.5	MI.....	78.1	52.5	25.5	36.0	35.9	36.0
1981.....	2,192	1,196	996	17.6	17.2	18.1	MN.....	43.1	23.0	20.1	32.2	31.4	33.1
1982.....	2,158	1,200	959	19.3	18.9	19.8	MS.....	27.5	16.5	11.0	24.4	23.9	25.0
1983.....	2,134	1,182	952	20.7	20.2	21.3	MO.....	51.2	26.5	24.8	27.2	26.4	28.1
1984.....	2,144	1,189	955	21.9	21.5	22.6	MT.....	9.6	6.6	2.9	25.1	24.5	26.5
1985.....	2,175	1,212	963	23.6	23.2	24.2	NE.....	18.2	10.3	8.0	25.5	25.5	25.5
1986.....	2,215	1,242	973	25.2	24.7	25.8	NV.....	9.2	5.2	4.0	30.6	29.8	31.6
1987.....	2,251	1,276	974	26.6	26.1	27.2	NH.....	10.6	7.1	3.5	29.0	29.0	29.0
1988.....	2,284	1,309	974	28.0	27.5	28.8	NJ.....	79.6	48.9	30.7	35.7	35.0	36.8
1989.....	2,324	1,354	970	29.6	29.0	30.3	NM.....	16.3	11.4	4.9	25.1	24.8	25.8
1990, U.S.	2,364	1,393	971	31.2	30.6	31.9	NY.....	183.3	88.7	94.6	38.9	37.6	40.1
AL.....	39.7	20.3	19.4	25.5	25.5	25.5	NC.....	62.9	38.1	24.9	27.8	27.7	28.0
AK.....	6.5	3.8	2.7	43.2	42.6	43.4	ND.....	7.8	5.0	2.7	23.0	22.9	23.2
AZ.....	33.6	25.9	7.7	29.4	29.4	30.0	OH.....	101.6	58.3	45.3	31.2	30.3	32.3
AR.....	25.5	12.5	12.9	22.0	21.4	22.6	OK.....	35.6	18.6	17.0	23.1	22.4	23.8
CA.....	207.3	151.3	56.0	36.4	35.6	38.1	OR.....	25.6	15.5	10.2	30.8	30.2	31.7
CO.....	32.0	16.2	15.8	30.8	30.0	31.6	PA.....	105.4	52.9	52.5	33.3	32.9	33.8
CT.....	34.8	23.0	11.8	40.5	40.0	41.4	RI.....	9.4	5.4	4.0	36.1	36.0	36.1
DE.....	6.0	3.0	3.0	33.4	32.3	34.5	SC.....	35.6	23.6	12.0	27.2	26.6	28.4
DC.....	6.5	4.0	2.4	38.0	38.0	38.0	SD.....	8.2	5.6	2.5	21.3	21.1	21.8
FL.....	104.1	58.0	46.1	28.8	28.8	28.5	TN.....	43.6	30.7	12.9	27.1	27.0	27.2
GA.....	66.5	44.7	21.8	27.9	27.9	27.9	TX.....	202.4	108.8	93.5	25.7	25.6	28.1
HI.....	9.3	5.2	4.1	32.0	32.0	32.0	UT.....	18.3	11.6	6.6	23.7	23.6	24.2
ID.....	11.1	5.9	5.2	23.9	23.4	24.3	VT.....	7.0	3.7	3.3	28.8	28.1	29.4
IL.....	105.9	71.7	34.2	32.8	31.3	35.9	VA.....	62.6	37.0	25.6	30.9	30.0	32.2
IN.....	54.7	29.3	25.3	30.5	30.0	31.1	WA.....	40.3	24.0	16.3	30.5	29.8	31.3
IA.....	30.9	14.6	16.3	26.7	25.7	27.7	WV.....	21.7	12.5	9.2	22.8	22.5	23.4
KS.....	28.7	16.9	11.8	28.7	28.7	28.7	WI.....	46.4	27.5	18.9	31.9	30.7	33.1
							WY.....	6.5	2.8	3.6	28.2	28.0	28.4

<sup>1</sup> Full-time equivalent.

Source: National Education Association, Washington, DC, *Estimates of School Statistics, 1989-90* and earlier issues. (Copyright by the National Education Association. All rights reserved.)

### No. 239. Average Starting Salaries of Public School Teachers Compared With Salaries in Private Industry, by Selected Position: 1975 to 1990

[Except as noted, salaries represent what corporations plan to offer graduates graduating in the year shown with bachelors' degrees. Based on a survey of approximately 200 companies]

ITEM AND POSITION	1975	1980	1983	1984	1985	1986	1987	1988	1989	1990
<b>SALARIES (dollars)</b>										
Teachers <sup>1</sup>	8,233	10,764	13,366	14,500	15,460	16,500	17,500	19,400	(NA)	(NA)
College graduates:										
Engineering	12,744	20,136	25,800	26,844	26,880	28,512	29,932	29,856	30,852	32,304
Accounting	11,880	15,720	19,476	20,172	20,628	21,216	22,512	25,140	25,908	27,408
Sales—marketing	10,344	15,936	18,648	19,620	20,616	20,688	20,232	23,484	27,768	27,828
Business administration	9,768	14,100	18,564	19,416	19,896	21,324	21,972	23,880	25,344	26,496
Liberal arts	9,212	13,296	18,264	19,344	18,828	21,060	20,508	23,508	25,608	26,364
Chemistry	11,904	17,124	22,344	24,192	24,216	24,264	27,048	27,108	27,552	29,088
Mathematics—statistics	10,980	17,604	21,696	22,416	22,704	23,976	25,548	25,548	28,416	28,944
Economics—finance	10,212	14,472	19,740	20,484	20,964	22,284	21,984	23,928	25,812	26,712
Computer science	(NA)	17,712	23,208	24,864	24,156	26,172	26,280	26,904	28,608	29,100
<b>INDEX (1975 = 100)</b>										
Teachers <sup>1</sup>	100	131	162	176	187	200	213	236	(NA)	(NA)
College graduates:										
Engineering	100	158	202	211	211	224	227	234	242	253
Accounting	100	132	164	170	174	179	189	212	218	230
Sales—marketing	100	154	180	190	199	200	196	227	268	269
Business administration	100	144	190	199	204	218	225	244	259	271
Liberal arts <sup>2</sup>	100	143	196	208	202	226	220	252	275	283
Chemistry	100	144	188	203	203	204	227	228	231	244
Mathematics—statistics	100	160	198	204	207	218	233	233	258	263
Economics—finance	100	142	193	201	205	218	215	234	252	261
Computer science <sup>3</sup>	(NA)	125	164	176	171	185	186	190	202	205

NA Not available.

<sup>1</sup> Estimate. Minimum mean salary. Source: National Education Association, Washington, DC, unpublished data.

<sup>2</sup> Excludes Chemistry, Mathematics, Economics and Computer Science. <sup>3</sup> Computer science index (1978 = 100).

Source: Except as noted, Northwestern University Placement Center, Evanston, IL, *The Northwestern Lindquist-Endicott Report*. (Copyright.)

### No. 240. Average Salary and Wages Paid in Public School Systems, by Selected Positions: 1975 to 1990

[In dollars. For school year ending in year shown. Data reported by a stratified sample of school systems enrolling 300 or more pupils. Data represent unweighted means of average salaries paid school personnel reported by each school system]

POSITION	1975	1980	1984	1985	1986	1987	1988	1989	1990
<b>ANNUAL SALARY</b>									
Central office administrators:									
Superintendent (contract salary) . . . . .	30,338	39,344	52,483	56,954	60,707	64,580	68,147	71,190	75,425
Deputy/assoc. superintendent . . . . .	30,074	37,440	48,507	52,877	57,190	60,222	63,872	66,214	69,623
Assistant superintendent . . . . .	26,460	33,452	43,983	48,003	51,209	53,656	56,894	59,655	62,698
Administrators for—									
Finance and business . . . . .	21,850	27,147	36,909	40,344	43,200	45,259	47,330	49,933	52,354
Instructional services . . . . .	22,608	29,790	39,580	43,452	46,110	48,810	50,838	53,716	56,359
Public relations/information . . . . .	21,470	24,021	32,203	35,287	37,329	38,925	41,305	43,402	44,926
Staff personnel services . . . . .	21,470	29,623	39,857	44,182	46,269	48,627	51,421	53,972	56,344
Subject area supervisors . . . . .	18,601	23,974	31,537	34,422	36,797	38,763	41,066	43,555	45,929
School building administrators:									
Principals:									
Elementary . . . . .	19,061	25,165	34,033	36,452	39,024	41,536	43,664	45,909	48,431
Junior high/middle . . . . .	21,136	27,625	36,779	39,650	42,365	44,861	47,078	49,427	52,163
Senior high . . . . .	22,894	29,207	39,334	42,094	44,986	47,896	50,512	52,987	55,722
Assistant principals:									
Elementary . . . . .	15,968	20,708	28,087	30,496	32,895	34,347	36,364	38,360	40,916
Junior high/middle . . . . .	17,868	23,507	31,257	33,793	36,094	37,958	40,093	42,292	44,570
Senior high . . . . .	18,939	24,816	32,655	35,491	37,616	39,758	41,839	44,002	46,486
Classroom teachers . . . . .	11,507	15,913	22,039	23,587	25,276	26,731	28,230	29,608	31,278
Auxiliary professional personnel:									
Counselors . . . . .	14,479	18,847	25,759	27,593	29,388	31,132	32,896	34,244	35,979
Librarians . . . . .	12,546	16,764	23,173	24,981	26,668	28,390	30,046	31,645	33,469
School nurses . . . . .	10,673	13,788	18,310	19,944	21,339	22,219	23,692	24,804	26,090
Secretarial/clerical personnel:									
Central office:									
Secretaries/stenographers . . . . .	7,318	10,331	14,366	15,343	16,383	17,182	18,220	19,045	20,238
Accounting/payroll clerks . . . . .	7,588	10,479	14,522	15,421	16,604	17,273	18,229	19,143	20,088
Clerk-typists . . . . .	6,089	8,359	11,561	12,481	13,208	13,729	14,651	15,192	16,125
School building level:									
Secretaries/stenographers . . . . .	6,046	8,348	11,613	12,504	13,233	13,947	14,749	15,364	16,184
Library clerks . . . . .	5,052	6,778	8,989	9,911	10,412	10,641	11,234	11,751	12,151
<b>HOURLY WAGE RATE</b>									
Other support personnel:									
Teacher aides:									
Instructional . . . . .	2.91	4.06	5.48	5.89	6.20	6.43	6.72	7.05	7.43
Noninstructional . . . . .	2.81	3.89	5.22	5.60	5.91	6.14	6.45	6.69	7.08
Custodians . . . . .	3.54	4.88	6.49	6.90	7.28	7.51	7.82	8.19	8.54
Cafeteria workers . . . . .	2.61	3.78	5.09	5.42	5.76	5.92	6.23	6.56	6.77
Bus drivers . . . . .	3.75	5.21	6.89	7.27	7.72	8.06	8.31	8.78	9.21

Source: Educational Research Service, Arlington, VA, *National Survey of Salaries and Wages in Public Schools*, annual, vols. 2 and 3. (All rights reserved. Copyright.)

### No. 241. Public School Employment, by Occupation, Sex, and Race: 1982 and 1986

[In thousands. Covers full-time employment. 1982 excludes Hawaii, District of Columbia, and New Jersey. Based on sample survey of school districts with 250 or more students. 1986 based on sample survey of school districts with 100 or more employees; see source for sampling variability]

OCCUPATION	1982					1986				
	Total	Male	Female	White <sup>1</sup>	Black <sup>1</sup>	Total	Male	Female	White <sup>1</sup>	Black <sup>1</sup>
<b>All occupations . . . . .</b>	<b>3,082</b>	<b>1,083</b>	<b>2,019</b>	<b>2,498</b>	<b>432</b>	<b>2,773</b>	<b>875</b>	<b>1,898</b>	<b>2,257</b>	<b>367</b>
Officials, administrators	41	31	10	36	3	39	28	11	34	3
Principals and assistant principals . . . . .	90	72	19	76	11	79	58	21	66	10
Classroom teachers <sup>2</sup> . . . . .	1,680	534	1,146	1,435	186	1,546	464	1,081	1,329	159
Elementary schools . . . . .	798	129	669	667	98	748	112	635	628	86
Secondary schools . . . . .	706	363	343	619	67	632	313	320	560	54
Other professional staff . . . . .	235	91	144	193	35	192	55	136	162	22
Teachers aides <sup>3</sup> . . . . .	215	14	200	146	45	244	38	206	161	50
Clerical, secretarial staff . . . . .	210	4	206	177	19	191	6	185	160	18
Service workers <sup>4</sup> . . . . .	611	316	295	434	132	482	227	255	344	105

<sup>1</sup> Excludes individuals of Hispanic origin. <sup>2</sup> Includes other classroom teachers, not shown separately. <sup>3</sup> Includes technicians. <sup>4</sup> Includes craftworkers and laborers.

Source: U.S. Equal Employment Opportunity Commission, *Elementary-Secondary Staff Information (EEO-5)*, biennial.

**No. 242. Public Elementary and Secondary School Price Indexes: 1975 to 1989**

[1983=100. For years ending June 30. Reflects prices paid by public elementary-secondary schools. For explanation of average annual percent change, see Guide to Tabular Presentation]

YEAR	Index, total	Average annual percent change	PERSONAL COMPENSATION				CONTRACTED SERVICES, SUPPLIES AND EQUIPMENT						
			Total	Professional salaries	Non-professional salaries	Fringe benefits	Total	Services	Supplies and materials	Equipment replacement	Library materials and textbooks	Utilities	Fixed costs
1975 ..	51.6	(X)	52.0	56.0	55.6	32.6	50.3	55.7	58.0	53.7	53.8	35.9	43.3
1976 ..	56.1	8.6	56.4	60.2	59.7	38.3	54.9	59.5	62.5	58.9	60.6	39.9	48.8
1977 ..	59.9	6.8	60.2	63.4	63.2	44.6	59.0	63.4	65.4	62.3	64.7	44.3	55.2
1978 ..	64.0	6.9	64.1	67.2	67.6	48.5	63.6	67.6	69.2	66.7	72.1	48.4	61.6
1979 ..	69.9	9.2	69.9	71.9	72.3	59.9	69.8	71.5	75.8	72.2	76.7	56.2	69.2
1980 ..	76.3	9.1	75.4	76.7	77.8	68.2	79.5	77.4	85.9	79.6	82.1	73.2	77.3
1981 ..	85.5	12.2	84.3	85.1	85.9	79.3	90.4	85.7	95.7	88.0	86.9	92.8	86.7
1982 ..	93.8	9.7	92.8	92.8	94.4	91.2	97.8	94.6	101.1	95.5	91.6	102.2	94.3
1983 ..	100.0	6.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1984 ..	105.9	5.9	106.5	105.7	104.5	111.3	103.6	106.2	102.2	103.0	107.3	98.2	107.3
1985 ..	113.4	7.1	115.2	113.4	111.3	126.1	106.6	112.3	103.5	105.6	113.0	96.5	113.1
1986 ..	120.0	5.8	123.2	121.4	117.6	135.8	107.8	118.8	102.5	108.7	119.0	88.3	118.5
1987 ..	125.7	4.8	129.9	128.3	121.9	143.6	109.8	122.8	103.9	111.3	126.8	83.2	124.6
1988 ..	132.3	5.3	137.3	135.5	127.5	153.1	113.6	125.3	110.3	111.3	144.9	78.6	130.7
1989 ..	139.5	5.4	144.8	142.2	133.3	165.7	119.4	132.3	119.3	116.3	153.9	77.1	136.8

X Not applicable. <sup>1</sup> Change from immediate prior year shown.

Source: Research Associates of Washington, Washington, DC, *School Price Index*, annual.

**No. 243. Finances of Public Elementary and Secondary School Systems, by Enrollment-Size Group: 1987**

[In millions of dollars, except as indicated. Based on the 1987 Census of Governments. For details, see source. See also Appendix III]

ITEM	All school systems	ENROLLMENT SIZE						
		50,000 or more	25,000 to 49,999	15,000 to 24,999	7,500 to 14,999	5,000 to 7,499	3,000 to 4,999	Under 3,000
Enrollment, fall 1986 .....	39,837	7,408	4,129	4,002	6,700	4,076	5,228	8,294
General revenue <sup>1</sup> .....	165,857	31,260	14,663	12,935	23,571	14,545	19,447	49,436
Intergovernmental .....	93,224	17,941	8,445	7,800	13,360	7,613	9,785	28,280
From Federal government .....	1,139	281	83	56	149	82	87	401
From States .....	89,726	17,461	8,097	7,578	12,907	7,364	9,440	26,880
Federal aid distributed by .....								
State governments .....	8,684	2,164	814	703	1,136	673	888	2,306
From local governments .....	2,360	199	266	166	304	167	258	1,000
From own sources .....	72,632	13,319	6,218	5,134	10,211	6,932	9,662	21,155
Taxes .....	50,072	6,530	4,296	3,540	7,178	5,136	7,069	16,323
Property .....	48,751	6,223	4,180	3,477	6,984	5,003	6,867	16,016
Contribution from parent government .....	13,351	5,459	1,005	822	1,599	920	1,453	2,092
Charges and miscellaneous .....	9,209	1,329	917	772	1,434	877	1,139	2,740
Current charges .....	4,522	630	423	391	693	443	582	1,358
School lunch sales .....	3,004	403	283	256	470	309	405	877
Interest earnings .....	2,277	314	212	199	354	215	269	714
Other .....	2,410	385	282	182	387	218	288	668
Employee-retirement revenue .....	728	467	248	-	13	-	-	-
General expenditure <sup>1</sup> .....	165,873	31,536	14,637	12,958	23,864	14,575	19,184	49,319
Intergovernmental .....	416	32	7	14	63	30	72	198
Direct .....	165,457	31,504	14,630	12,944	23,801	14,545	19,112	49,121
Current operation .....	151,477	29,151	13,231	11,739	21,231	13,281	17,553	45,294
Salaries and wages .....	97,776	19,277	9,223	8,133	14,561	8,962	11,790	25,830
Capital outlay .....	11,116	1,956	1,086	943	1,912	985	1,190	3,044
Construction .....	7,239	1,290	739	602	1,313	660	766	1,869
Interest on debt .....	2,864	398	313	262	458	280	370	783
Employee-retirement expenditure .....	231	149	78	-	4	-	-	1
Debt outstanding <sup>2</sup> .....	40,080	5,312	4,523	3,765	6,360	3,951	5,266	10,903
Long-term .....	38,327	5,195	4,373	3,701	6,151	3,755	4,951	10,202
Short-term .....	1,752	118	150	65	209	196	315	701
Long-term debt issued .....	6,570	696	907	747	1,017	632	961	1,611
Long-term debt retired .....	4,832	690	642	442	737	415	694	1,212
Cash and security holdings .....	35,427	7,112	4,412	2,848	4,473	2,847	3,699	10,036
Employee-retirement holdings .....	4,094	2,796	1,231	-	67	-	-	2

- Represents or rounds to zero. <sup>1</sup> Excludes interschool system transactions. <sup>2</sup> As of end of fiscal year.

Source: U.S. Bureau of the Census, 1987 Census of Governments, *Finances of Public School Systems*, vol. 4, No. 1.



# No. 244. Public Elementary and Secondary Estimated Finances, 1970 to 1990, and by State, 1990

[In millions of dollars, except as noted. For school years ending in June of year shown]

YEAR AND STATE	RECEIPTS					Non-revenue receipts <sup>1</sup>	Total <sup>2</sup>	Per capita <sup>3</sup> (dol.)	EXPENDITURES			Capital outlay
	Total	Revenue receipts			Current expenditures							
		Total	Source		Elementary and secondary day schools				Average per pupil in ADA <sup>4</sup>			
			Federal	State					Local	Amount (dol.)	Rank	
1970.	41,621	38,192	2,767	15,628	19,797	3,429	39,091	194	32,683	773	(X)	4,158
1975.	66,319	63,047	5,089	27,472	30,486	3,273	62,340	292	53,333	1,286	(X)	5,409
1980.	101,724	97,635	9,020	47,929	40,686	4,089	96,105	428	85,661	2,230	(X)	6,504
1982.	117,776	120,989	8,419	54,573	51,007	3,777	113,005	492	102,048	2,753	(X)	6,404
1983.	125,179	120,486	8,691	57,449	54,346	4,498	119,159	514	108,773	2,960	(X)	6,131
1984.	133,373	128,875	9,005	61,611	58,259	4,498	127,014	542	116,295	3,185	(X)	6,373
1985.	146,976	141,013	9,533	69,107	62,373	5,563	139,382	589	127,230	3,483	(X)	7,529
1986.	161,118	153,807	10,351	75,935	67,521	7,311	152,187	637	138,067	3,764	(X)	9,066
1987.	170,676	163,782	10,521	81,571	71,690	6,895	163,004	676	147,360	3,994	(X)	10,186
1988.	183,816	175,933	11,284	86,932	77,717	7,883	175,462	721	158,519	4,277	(X)	11,508
1989.	197,611	189,616	11,999	93,795	83,822	7,994	190,377	775	171,302	4,607	(X)	13,068
1990, total.	207,764	199,754	12,540	97,352	89,862	8,011	204,155	822	183,389	4,890	(X)	14,357
Alabama	2,390	2,282	308	1,532	442	108	2,570	624	2,266	3,314	46	253
Alaska	770	681	67	412	202	89	825	1,586	695	7,252	5	49
Arizona	3,106	2,666	125	1,202	1,340	440	3,084	867	2,243	3,853	39	692
Arkansas	1,477	1,444	140	859	445	33	1,493	621	1,341	3,272	48	114
California	23,567	23,365	1,880	15,617	5,868	202	23,564	811	21,789	4,596	24	1,042
Colorado	2,534	2,474	133	977	1,363	60	2,610	787	2,376	4,580	26	150
Connecticut	3,656	3,655	134	1,637	1,884	1	3,656	1,129	3,455	7,934	3	128
Delaware	584	588	45	379	144	17	562	835	526	5,848	9	18
District of Columbia	553	553	56	-	497	-	571	945	534	7,407	4	11
Florida	10,202	9,560	572	5,120	3,868	641	9,969	787	8,288	5,051	19	1,518
Georgia	4,954	4,944	322	3,011	1,612	10	5,121	796	4,692	4,456	28	365
Hawaii	792	792	63	728	1	-	790	710	711	4,504	27	49
Idaho	691	683	49	409	225	8	677	668	615	3,037	50	51
Illinois	9,663	9,188	704	3,484	5,000	475	8,488	728	7,600	4,853	21	500
Indiana	4,118	4,020	182	2,381	1,456	99	4,071	728	3,573	4,126	36	400
Iowa	2,137	2,094	110	1,068	916	43	2,205	777	2,067	4,590	25	121
Kansas	2,049	2,008	104	870	1,035	41	2,058	819	1,823	4,706	22	144
Kentucky	2,511	2,276	209	1,588	480	235	2,344	629	2,171	3,824	40	118
Louisiana	3,103	3,004	303	1,464	1,237	98	2,718	620	2,460	3,457	45	125
Maine	1,190	1,130	76	601	453	60	1,190	974	1,078	5,577	12	81
Maryland	4,230	4,180	207	1,618	2,354	50	4,184	891	3,769	5,887	8	330
Massachusetts	5,048	5,034	270	1,802	2,962	13	4,882	826	4,617	6,170	7	169
Michigan	8,179	7,848	370	2,849	4,629	330	8,234	888	7,309	5,073	18	491
Minnesota	4,231	4,011	173	2,071	1,767	220	4,062	933	3,538	5,114	16	345
Mississippi	1,635	1,575	245	880	450	60	1,640	626	1,500	3,151	49	115
Missouri	3,730	3,528	197	1,340	1,991	202	3,489	676	3,066	4,226	32	318
Montana	692	659	59	306	294	33	645	801	590	4,147	34	42
Nebraska	1,088	1,062	51	259	752	27	1,050	652	986	3,874	38	42
Nevada	873	841	36	334	472	32	975	878	718	4,387	30	221
New Hampshire	1,026	968	28	82	858	58	916	827	810	5,149	15	90
New Jersey	8,840	8,738	331	3,628	4,779	102	8,619	1,114	8,377	8,439	1	86
New Mexico	1,183	1,164	139	889	135	19	1,309	857	1,050	4,180	33	203
New York	19,405	18,900	920	7,900	10,080	505	19,583	1,091	18,300	8,094	2	850
North Carolina	5,020	4,917	318	3,254	1,346	103	4,845	737	4,395	4,386	31	425
North Dakota	457	442	31	219	191	16	444	672	403	3,581	42	34
Ohio	8,220	7,744	415	3,650	3,679	476	7,853	720	7,100	4,394	29	467
Oklahoma	2,180	2,050	179	1,211	660	130	2,202	683	1,881	3,484	44	260
Oregon	2,433	2,318	147	621	1,551	116	2,462	873	2,202	5,085	17	210
Pennsylvania	9,770	8,652	310	3,447	4,895	1,118	9,498	789	8,629	5,670	11	306
Rhode Island	828	828	36	363	429	-	826	827	805	6,523	6	8
South Carolina	2,644	2,541	211	1,327	1,003	103	2,381	678	2,123	3,731	41	145
South Dakota	482	465	43	127	295	17	442	618	398	3,312	47	33
Tennessee	2,888	2,768	260	1,336	1,173	120	2,840	575	2,677	3,503	43	63
Texas	15,229	14,193	1,105	6,095	6,992	1,037	14,428	849	12,468	4,056	37	1,423
Utah	1,280	1,272	80	721	471	8	1,260	738	1,112	2,733	51	90
Vermont	599	584	31	213	340	15	522	921	476	5,418	13	21
Virginia	5,054	4,964	236	1,718	3,010	90	5,195	852	4,587	5,000	20	427
Washington	4,237	4,058	235	2,979	844	179	4,599	966	3,512	4,638	23	891
West Virginia	1,333	1,323	109	850	364	10	1,345	725	1,258	4,146	35	44
Wisconsin	4,370	4,217	166	1,648	2,403	153	4,315	887	3,947	5,703	10	230
Wyoming	535	525	23	275	227	10	546	1,149	480	5,281	14	50

- Represents or rounds to zero. X Not applicable. <sup>1</sup> Amount received by local education agencies from the sales of bonds and real property and equipment, loans and proceeds from insurance adjustments. <sup>2</sup> Includes interest on school debt and other current expenditures not shown separately. <sup>3</sup> Based on Bureau of the Census estimated resident population, as of July 1, the previous year. <sup>4</sup> Average daily attendance.

Source: National Education Association, Washington, DC, *Estimates of School Statistics*, annual (copyright), and unpublished data.

### No. 245. Microcomputers for Student Instruction in Elementary and Secondary Schools: 1981 to 1989

[As of fall for public schools; as of mid-winter of the previous year for private schools. Public school data based on surveys of every school district and all public schools. Private school data based on surveys of all Catholic and private schools. For details, see source]

YEAR	PUBLIC SCHOOLS									PRIVATE SCHOOLS				
	Number of schools (1,000)				Percent with micros				Number of mi- cro <sup>s</sup> <sup>2</sup> (1,000)	Stu- dents per micro <sup>3</sup>	Number of schools (1,000)	Per- cent with micros	Number of mi- cro <sup>s</sup> <sup>2</sup> (1,000)	Stu- dents per micro <sup>3</sup>
	Total <sup>1</sup>	Ele- men- tary	Junior	Senior	Total	Ele- men- tary	Junior	Senior						
1981	84.2	53.3	10.1	15.6	18.2	11.1	25.6	42.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1982	82.4	51.9	9.9	15.3	30.0	20.2	39.8	57.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1983	81.5	51.3	9.8	15.2	68.4	62.4	80.5	86.1	324.4	888.0	22.8	23.8	(NA)	(NA)
1984	81.1	51.0	9.8	15.2	85.1	82.2	93.1	94.6	569.8	63.5	24.4	53.0	62.2	56.2
1985	80.8	50.8	9.7	15.1	92.2	91.0	97.3	97.4	842.6	45.5	23.4	70.3	101.2	41.6
1986	80.5	50.7	9.7	15.1	95.6	94.9	98.5	98.7	1,081.9	36.5	22.7	77.1	129.2	33.7
1987	80.6	50.9	9.7	15.0	96.4	96.0	98.6	99.0	1,354.0	30.8	22.7	78.7	151.1	28.8
1988	80.8	51.0	9.8	15.0	97.1	96.8	98.8	99.1	1,522.9	26.9	22.3	82.8	185.5	23.5
Number of micros <sup>2</sup>	1,522.9	651.9	252.4	498.8	(X)	(X)	(X)	(X)	(X)	(X)	185.5	(X)	(X)	(X)
Students per micro <sup>3</sup>	26.9	32.4	23.8	22.8	(X)	(X)	(X)	(X)	(X)	(X)	23.5	(X)	(X)	(X)
1989	81.7	49.5	11.5	13.7	97	96.8	98.5	99.1	1,706.4	24.1	23.4	81.8	222.8	(NA)

NA Not available. X Not applicable. <sup>1</sup> Includes other schools, not shown separately. <sup>2</sup> Includes estimates for schools not reporting number of micros. <sup>3</sup> For schools reporting number of micros.

Source: Market Data Retrieval, Shelton, CT, *Microcomputers in Schools, 1986-87*, (copyright), and unpublished data.

### No. 246. Instructional Use of Computers in Elementary and Secondary Schools, 1985 and 1989, and by Level, 1989

[Includes microcomputers and terminals used by students or teachers. Based on stratified, probability sample of 1,416 public, private, and parochial schools surveyed in spring 1989]

ITEM	Unit	Total, 1985	1989, BY SCHOOL LEVEL <sup>1</sup>			
			Total <sup>2</sup>	Elementary	Middle grades	High school
ALL SCHOOLS						
Computers used for instruction	1,000	1,034	2,355	897	583	895
Schools using computers	Percent	86	96	96	95	98
Schools with 15 or more computers	Percent	24	57	49	60	68
SCHOOLS USING COMPUTERS FOR INSTRUCTION						
Mean number of computers	Number	10	26	19	26	45
Median	Number	8	19	16	20	31
Students per computer, median	Number	42	20	23	18	14
Percent of all instructional computers in—						
Classrooms	Percent	37	36	43	28	32
Computer labs	Percent	49	50	42	58	55
Other locations	Percent	14	14	15	14	13
Percent of all instructional computers used—						
Usually every day	Percent	(NA)	71	67	68	77
Less than every week for instruction or not used at all	Percent	(NA)	10	10	11	9
Hours of use per week (in rooms with greatest number of computers) median <sup>3</sup>	Number	17	20	20	20	22
Percent of all student computer use: <sup>4</sup>						
Learning math	Percent	(NA)	14	19	12	8
Word processing (how to use)	Percent	(NA)	14	12	14	15
Keyboarding (how to)	Percent	(NA)	13	13	15	12
Learning English	Percent	(NA)	13	18	11	8
Programming	Percent	(NA)	8	4	9	12
Recreational use	Percent	(NA)	8	10	9	5
Tools, e.g., spreadsheets	Percent	(NA)	7	4	8	11
Learning science	Percent	(NA)	6	7	7	6
Learning social studies	Percent	(NA)	5	8	5	3
Business education	Percent	(NA)	5	2	4	10
Industrial arts	Percent	(NA)	3	1	3	5
Fine arts	Percent	(NA)	2	2	2	2
Learning foreign languages	Percent	(NA)	1	1	2	2
Other	Percent	(NA)	1	1	1	1

NA Not available. <sup>1</sup> Schools encompassing more than one level are apportioned among the appropriate levels rather than included more than once. <sup>2</sup> 1989 data do not include schools that have only students below grade 4. <sup>3</sup> For definition of median, see Guide to Tabular Presentation. <sup>4</sup> Estimates supplied by each school's most informed computer-using teacher. <sup>5</sup> Other than keyboarding or word processing instruction.

Source: Center for Social Organization of Schools, Johns Hopkins University, Baltimore, MD, International Computers-in-Education Survey, International Association for the Evaluation of Educational Achievement (I.E.A.), unpublished data.

### 247. Student Use of Computers, by Level of Instruction and Selected Characteristics: 1989

[In percent, except as indicated. As of October. Based on Current Population Survey and subject to sampling error; for details see Appendix III]

CHARACTERISTIC	Total	Prekindergarten and kindergarten	Grades 1 thru 8	Grades 9 thru 12	1 thru 4 years of college	5 years of college or more
Total students (1,000)	61,465	6,745	28,662	12,878	10,661	2,520
PERCENT USING COMPUTERS AT SCHOOL						
Sex: Male	43.5	13.9	52.9	38.7	42.1	47.0
Female	41.9	15.6	51.7	39.8	36.8	34.9
Race: White <sup>1</sup>	45.7	17.0	58.4	40.6	40.0	39.5
Black	32.5	7.5	35.7	36.0	35.1	34.4
Hispanic	42.5	8.5	46.9	41.0	43.5	58.0
Other	35.0	9.8	40.3	33.5	33.1	42.1
Household income: Under \$5,000	36.7	8.5	40.4	35.6	40.1	53.5
\$5,000 to \$9,999	36.1	9.2	40.3	32.7	40.5	60.2
\$10,000 to \$14,999	38.4	14.6	44.4	39.1	30.8	55.2
\$15,000 to \$19,999	41.5	11.9	50.9	34.8	39.6	44.0
\$20,000 to \$24,999	42.4	14.6	51.8	40.1	32.5	44.4
\$25,000 to \$29,999	46.1	16.1	56.4	43.8	40.4	42.1
\$30,000 to \$34,999	44.2	17.4	56.8	37.8	37.1	33.3
\$35,000 to \$39,999	45.2	16.1	58.3	41.5	34.5	45.3
\$40,000 to \$49,999	44.7	15.4	59.7	36.7	38.1	35.4
\$50,000 to \$59,999	48.4	17.0	61.2	46.1	43.6	35.3
\$60,000 to \$74,999	45.3	15.1	58.9	42.9	43.2	28.3
\$74,999 or more	51.2	21.2	67.0	45.8	49.6	31.0
Control of school: Public	43.3	16.4	51.9	39.0	37.5	41.3
Private	38.9	11.8	56.6	42.6	46.3	39.7
PERCENT USING COMPUTERS AT HOME						
Sex: Male	20.7	11.0	18.7	23.9	25.4	36.0
Female	17.0	9.3	16.9	17.4	18.1	31.1
Race: White <sup>1</sup>	22.6	12.3	22.3	25.3	23.6	35.4
Black	7.3	3.7	6.8	8.5	9.1	18.2
Hispanic	19.0	9.9	16.6	22.5	23.5	24.7
Other	7.4	2.9	6.6	7.8	11.7	30.2
Household income: Under \$5,000	8.4	4.5	4.1	5.6	17.7	29.4
\$5,000 to \$9,999	5.4	1.0	2.7	4.4	14.2	28.4
\$10,000 to \$14,999	7.2	1.9	6.2	6.5	11.8	26.5
\$15,000 to \$19,999	11.3	3.2	9.2	13.6	15.8	33.6
\$20,000 to \$24,999	12.9	6.8	11.6	13.6	16.9	32.2
\$25,000 to \$29,999	17.0	11.9	16.5	17.1	19.2	29.6
\$30,000 to \$34,999	17.7	8.0	17.6	20.2	19.4	30.7
\$35,000 to \$39,999	21.4	8.7	22.2	25.1	22.1	26.5
\$40,000 to \$49,999	25.7	14.8	27.5	27.7	21.7	40.7
\$50,000 to \$59,999	31.1	20.0	31.2	34.7	29.9	43.2
\$60,000 to \$74,999	32.2	21.4	37.4	33.9	25.0	38.9
\$74,999 or more	43.8	25.2	50.9	53.4	33.9	41.4
Control of school: Public	17.9	8.3	16.8	19.7	20.7	32.2
Private	24.4	13.4	27.7	35.9	23.8	35.9
PERCENT USING COMPUTERS AT HOME FOR SCHOOL WORK						
Sex: Male	9.5	0.6	6.3	13.6	16.0	25.9
Female	8.3	0.6	6.2	10.8	11.7	22.0
Race: White <sup>1</sup>	10.7	0.6	7.7	15.2	15.1	25.4
Black	3.4	0.9	2.7	4.0	6.2	12.3
Hispanic	9.1	-	5.8	13.2	15.4	14.8
Other	3.6	-	2.8	4.4	6.6	27.6
Household income: Under \$5,000	5.0	-	1.5	4.1	12.6	23.8
\$5,000 to \$9,999	3.2	-	0.6	2.6	10.3	26.5
\$10,000 to \$14,999	3.5	0.7	1.8	3.6	8.1	19.3
\$15,000 to \$19,999	4.5	-	2.1	5.2	9.3	30.2
\$20,000 to \$24,999	5.7	0.3	3.8	7.6	10.5	23.8
\$25,000 to \$29,999	6.4	0.3	4.1	8.2	12.3	19.7
\$30,000 to \$34,999	8.0	0.1	5.7	12.0	12.8	19.8
\$35,000 to \$39,999	10.5	1.2	7.9	15.0	15.9	18.7
\$40,000 to \$49,999	11.9	0.7	9.7	17.1	14.3	29.4
\$50,000 to \$59,999	15.7	0.7	12.6	21.9	20.0	31.5
\$60,000 to \$74,999	14.6	0.9	13.0	20.4	14.7	25.6
\$74,999 or more	22.0	2.4	21.9	34.2	21.2	22.2
Control of school: Public	8.5	0.6	5.9	11.5	13.1	22.2
Private	11.4	0.5	9.4	23.6	15.8	27.2

- Represents or rounds to zero. <sup>1</sup> Non-Hispanic.

Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, 1990.

### No. 248. Handicapped Children and Youth in Educational Programs for the Handicapped, by Type of Handicap: 1979 to 1989

[For school year ending in year shown. For persons under 22 years old, except as noted. Represents children under 20 served under Chapter 1 of the Elementary and Secondary Education Act (ESEA), State Operated Programs (SOP), and children 3 to 21 served under Education for the Handicapped, Part B (EHA-B). Excludes outlying areas]

ITEM	1979	1980	1982	1983	1984	1985	1986	1987	1988 <sup>1</sup>	1989 <sup>1</sup>
All conditions (1,000) . . . . .	3,889	4,005	4,198	4,255	4,298	4,315	4,317	4,374	4,128	4,190
PERCENT DISTRIBUTION										
Learning disabled . . . . .	29.1	31.9	38.6	40.9	42.0	42.4	43.1	43.6	47.0	47.7
Speech impaired . . . . .	31.2	29.6	27.0	26.6	26.2	26.1	26.1	25.8	23.2	23.1
Mentally retarded . . . . .	23.2	21.7	18.7	17.8	16.9	16.1	15.3	15.0	14.6	13.9
Emotionally disturbed . . . . .	7.7	8.2	8.1	8.3	8.4	8.6	8.7	8.7	9.1	9.0
Hard of hearing and deaf . . . . .	2.2	2.0	1.8	1.7	1.7	1.6	1.5	1.5	1.4	1.4
Orthopedically handicapped . . . . .	1.8	1.6	1.4	1.3	1.3	1.3	1.3	1.3	1.1	1.1
Other health impaired . . . . .	2.7	2.6	1.9	1.2	1.2	1.6	1.3	1.2	1.1	1.2
Visually handicapped . . . . .	0.8	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.5
Multi-handicapped . . . . .	1.3	1.5	1.7	1.5	1.5	1.6	2.0	2.2	1.9	2.0
Deaf-blind . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	(Z)	(Z)	(Z)	(Z)

Z Less than .05 percent. <sup>1</sup> For children 6 to 21 years old; total number of children served under 22 years old is 4,494,280 in school year 1987-88 and 4,587,370 in school year 1988-89.

Source: U.S. Dept. of Education, Office of Special Education Programs, *Annual Report to Congress*.

### No. 249. Handicapped Children and Youth 3 to 21 Years Old, by Age and Educational Environment: 1987

[For school year ending in year shown. Covers children 3 to 21 served under Chapter 1 of ESEA (SOP) and EHA-B; see headnote, table 248. Includes 42,517 children in Puerto Rico, American Samoa, and Guam and 5,667 served through the Bureau of Indian Affairs]

ENVIRONMENT	NUMBER (1,000)					PERCENT DISTRIBUTION			
	Total	3 to 5 years old	6 to 11 years old	12 to 17 years old	18 to 21 years old	3 to 5 years old	6 to 11 years old	12 to 17 years old	18 to 21 years old
Total . . . . .	4,306.7	292.9	2,023.7	1,756.9	233.2	100.0	100.0	100.0	100.0
Regular class . . . . .	1,127.4	111.7	716.6	269.2	29.9	38.1	35.4	15.3	12.8
Resource room <sup>2</sup> . . . . .	1,783.9	55.4	794.1	849.1	85.3	18.9	39.2	48.3	36.6
Separate class <sup>3</sup> . . . . .	1,081.9	77.9	425.6	505.1	73.3	26.6	21.0	28.7	31.4
Separate school facility:									
Public . . . . .	150.2	21.4	45.4	61.8	21.6	7.3	2.2	3.5	9.2
Private . . . . .	74.5	19.2	22.8	24.6	7.9	6.5	1.1	1.4	3.4
Separate residential facility:									
Public . . . . .	24.3	1.2	5.6	11.9	5.6	0.4	0.3	0.7	2.4
Private . . . . .	15.5	0.4	3.0	9.7	2.4	0.1	0.2	0.6	1.0
Correctional facility . . . . .	12.5	0.1	0.2	8.7	3.5	(Z)	(Z)	0.5	1.5
Home/hospital . . . . .	36.5	5.6	10.4	16.8	3.7	1.9	0.5	1.0	1.6

Z Less than .05 percent. <sup>1</sup> Receives special education and related services less than 21 percent of the school day. <sup>2</sup> Receives services between 21 and 60 percent of the school day. <sup>3</sup> Receives services for more than 60 percent of the school day.

Source: U.S. Dept. of Education, Office of Special Education Programs, Data Analysis Systems (DANS), unpublished data.

### No. 250. Catholic Elementary and Secondary Schools: 1960 to 1989

[As of October 1. Regular sessions only. See also *Historical Statistics, Colonial Times to 1970*, series H 535-544]

ITEM	Unit	1960	1970	1975	1980	1984	1985	1986	1987	1988	1989
Elementary schools . . . . .	Number	10,501	9,362	8,340	8,043	7,891	7,806	7,693	7,601	7,501	7,395
Pupils enrolled . . . . .	1,000 . .	4,373	3,359	2,525	2,269	2,120	2,057	1,998	1,942	1,912	1,893
Teachers, total . . . . .	1,000 . .	108	112	99	97	100	97	94	93	94	94
Religious . . . . .	1,000 . .	79	52	35	25	20	18	17	15	14	12
Lay . . . . .	1,000 . .	29	60	64	72	80	79	77	78	80	82
Secondary schools . . . . .	Number	2,392	1,981	1,653	1,516	1,449	1,430	1,409	1,391	1,362	1,324
Pupils enrolled . . . . .	1,000 . .	880	1,008	890	837	782	762	728	681	639	606
Teachers, total . . . . .	1,000 . .	44	54	50	49	50	50	48	47	44	43
Religious . . . . .	1,000 . .	33	28	20	14	12	11	10	10	8	8
Lay . . . . .	1,000 . .	11	26	30	35	38	39	38	37	36	35

Source: National Catholic Educational Association, Washington, DC, *A Statistical Report on Catholic Elementary and Secondary Schools for the Years 1967-68 to 1989-90*, and *U.S. Catholic Schools, 1973-74*, and National Catholic Educational Association/Ganley's, *Catholic Schools in America*, annual. (Copyright.)

### No. 251. Private Elementary and Secondary School Teachers—Selected Characteristics: 1988

(For school year ending in year shown. Based on survey and subject to sampling error; for details, see source. See table 237 for similar data on public school teachers)

CHARACTERISTIC	Unit	AGE				SEX		RACE/ETHNICITY			LEVEL OF CONTROL	
		Under 30 years old	30 to 39 years old	40 to 49 years old	Over 50 years old	Male	Female	White	Black	Hispanic	Elementary	Secondary
Total <sup>2</sup>	1,000	66	104	83	49	67	240	288	7	9	160	147
Highest degree held:												
Bachelor's	Percent	83.4	59.3	51.9	52.4	50.9	64.2	61.3	70.5	60.8	70.9	50.9
Master's	Percent	11.4	31.4	39.1	34.7	38.2	27.4	29.9	15.3	19.7	21.0	39.2
Education specialist	Percent	(B)	3.1	3.1	5.1	3.6	2.7	2.9	(B)	(B)	2.1	3.7
Doctorate	Percent	(B)	(B)	2.6	(B)	5.0	0.8	1.6	(B)	(B)	(B)	3.1
Full-time teaching experience:												
Less than 3 years	Percent	47.3	15.6	8.0	4.0	18.5	18.4	18.3	27.1	21.3	18.4	18.5
3 to 9 years	Percent	51.4	45.4	31.6	11.1	28.9	39.8	37.4	40.9	40.2	40.5	34.0
10 to 20 years	Percent	(B)	38.2	44.0	27.5	33.7	28.8	29.9	21.2	25.0	28.7	31.0
20 years or more	Percent	(B)	15.4	15.4	56.8	18.6	12.1	13.6	(B)	(B)	11.8	15.4
Salary:												
Total	Dollar	15,708	18,340	20,044	19,215	23,273	16,924	18,249	16,837	18,360	16,122	21,017
Base	Dollar	13,755	16,719	18,271	17,630	19,606	15,693	16,519	15,267	16,385	14,957	18,540
School year supplement:												
Teachers receiving	Percent	20.2	16.8	15.5	8.9	30.6	11.7	16.0	(B)	(B)	8.2	24.0
Salary	Dollar	1,289	1,862	2,507	3,549	2,530	1,662	2,010	(B)	(B)	1,828	2,100
Summer school supplement:												
Teachers receiving	Percent	16.8	13.5	11.4	8.5	17.1	11.6	12.2	21.9	(B)	10.3	15.4
Salary	Dollar	1,922	2,328	2,369	1,845	2,368	2,079	2,146	2,228	(B)	2,234	2,111
Teachers with other employment:												
School year only	Percent	5.0	5.6	6.2	7.4	9.3	4.9	5.9	(B)	(B)	5.0	6.8
Summer only	Percent	22.2	9.3	4.0	3.7	13.5	8.6	9.7	(B)	(B)	10.5	8.8
All year	Percent	17.5	9.7	7.4	4.4	18.6	7.3	10.0	(B)	(B)	7.7	12.0

B Base too small to meet statistical standards of reliability for a derived figure. <sup>1</sup> Persons of Hispanic origin may be of any race. <sup>2</sup> Includes teachers with no degrees, not shown separately.

Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, 1990.

### No. 252. Private Elementary and Secondary Enrollment Schools and Tuition Paid, by Orientation and Tuition Levels: 1988

(For school year ending in year shown. Based on survey and subject to sampling error; for details see source)

ORIENTATION AND TUITION LEVEL	ENROLLMENT (1,000)				SCHOOLS				AVERAGE ANNUAL TUITION (dol.)			
	Total	Elementary	Secondary	Combined	Total	Elementary	Secondary	Combined	Total	Elementary	Secondary	Combined
Total	5,226	2,979	895	1,352	26,836	17,115	2,425	7,296	1,927	1,338	2,551	2,806
Catholic schools	2,823	2,021	731	70	9,527	7,759	1,420	348	1,329	1,002	2,042	3,484
Less than \$1,000	1,174	1,132	(B)	(B)	4,860	4,619	(B)	(B)	(X)	(X)	(X)	(X)
\$1,000 to \$2,499	1,435	862	556	(B)	4,113	3,017	1,037	(B)	(X)	(X)	(X)	(X)
\$2,500 or more	213	(B)	(B)	(B)	554	(B)	(B)	(B)	(X)	(X)	(X)	(X)
Other religious schools	1,591	690	93	808	12,132	6,859	501	4,772	1,948	1,589	3,454	2,086
Less than \$1,000	251	151	(B)	97	4,407	2,794	(B)	1,601	(X)	(X)	(X)	(X)
\$1,000 to \$2,499	961	431	(B)	514	6,377	3,497	(B)	2,751	(X)	(X)	(X)	(X)
\$2,500 or more	379	107	74	198	1,348	568	360	419	(X)	(X)	(X)	(X)
Non-sectarian schools	813	269	71	473	5,177	2,497	504	2,177	3,915	3,144	6,394	3,968
Less than \$1,000	96	(B)	(B)	75	805	(B)	(B)	619	(X)	(X)	(X)	(X)
\$1,000 to \$2,499	202	65	(B)	137	1,388	865	(B)	520	(X)	(X)	(X)	(X)
\$2,500 or more	515	188	66	261	2,984	1,518	428	1,038	(X)	(X)	(X)	(X)

B Base figure too small to meet statistical standards of reliability for a derived figure. X Not applicable.

Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, 1990.

### No. 253. Scholastic Aptitude Test (SAT) Scores and Characteristics of College-Bound Seniors: 1967 to 1989

[For school year ending in year shown]

TYPE OF TEST AND CHARACTERISTIC	Unit	1967	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
<b>TEST SCORES <sup>1</sup></b>												
Verbal, total <sup>2</sup>	Point	466	460	434	424	425	426	431	431	430	428	427
Male	Point	463	459	437	428	430	433	437	437	435	435	434
Female	Point	468	461	431	420	420	420	425	426	425	422	421
Math, total <sup>2</sup>	Point	492	488	472	466	468	471	475	475	476	476	476
Male	Point	514	509	495	491	493	495	499	501	500	498	500
Female	Point	467	465	449	443	445	449	452	451	453	455	454
<b>PARTICIPANTS</b>												
Total	1,000	(NA)	(NA)	996	992	963	965	977	1,001	1,080	1,134	1,088
Male	Percent	(NA)	(NA)	49.9	48.2	48.2	48.2	48.3	48.1	48.2	47.0	47.9
White	Percent	(NA)	(NA)	86.0	82.1	81.1	80.3	81.0	(NA)	78.2	77.0	74.7
Black	Percent	(NA)	(NA)	7.9	9.1	8.8	9.1	7.5	(NA)	8.7	9.2	9.6
Obtaining scores <sup>1</sup> of—												
600 or above:												
Verbal	Percent	(NA)	(NA)	7.9	7.2	6.9	7.3	7.9	7.9	8.1	7.3	7.8
Math	Percent	(NA)	(NA)	15.6	15.1	15.9	16.7	17.1	17.9	18.3	17.6	18.0
Below 400:												
Verbal	Percent	(NA)	(NA)	37.8	41.8	41.1	40.2	39.4	38.2	39.8	39.4	40.4
Math	Percent	(NA)	(NA)	28.5	30.2	30.1	29.1	28.2	28.0	28.3	27.8	28.0
Selected intended area of study:												
Business and commerce	Percent	(NA)	(NA)	11.5	18.6	18.5	19.1	21.0	(NA)	23.1	23.0	22.3
Engineering	Percent	(NA)	(NA)	6.7	11.1	12.5	12.0	11.7	(NA)	11.1	10.1	10.1
Social science	Percent	(NA)	(NA)	7.7	7.8	7.2	7.3	7.5	(NA)	10.9	11.7	12.6
Education	Percent	(NA)	(NA)	9.1	6.1	4.5	4.6	4.7	(NA)	6.0	6.6	7.1
SAT average <sup>1</sup> by high school rank:												
Top tenth	Point	(NA)	(NA)	(NA)	539	539	543	547	547	552	550	550
Second tenth	Point	(NA)	(NA)	(NA)	470	473	477	482	481	484	483	483
Second fifth	Point	(NA)	(NA)	(NA)	431	435	438	442	440	440	440	440
Third fifth	Point	(NA)	(NA)	(NA)	386	389	392	396	396	395	395	394

NA Not available. <sup>1</sup> Minimum score 200; maximum score, 800. <sup>2</sup> 1967 and 1970 are estimates based on total number of persons taking SAT.

Source: College Entrance Examination Board, New York, NY, *National College-Bound Senior*, annual. (Copyright.)

### No. 254. American College Testing (ACT) Program Scores and Characteristics of College-Bound Students: 1970 to 1989

[For academic year ending in year shown. Except as indicated, test scores and characteristics of college-bound students. Through 1985, data based on 10 percent sample; thereafter, based on all ACT tested seniors]

TYPE OF TEST AND CHARACTERISTIC	Unit	1967	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
<b>TEST SCORES <sup>1</sup></b>												
Composite	Point	19.9	18.6	18.5	18.5	18.3	18.5	18.6	18.8	18.7	18.8	18.6
Male	Point	20.3	19.5	19.3	19.3	19.1	19.3	19.4	19.6	19.5	19.6	19.3
Female	Point	19.4	17.8	17.9	17.8	17.6	17.9	17.9	18.1	18.1	18.1	18.0
English	Point	18.5	17.7	17.9	17.8	17.8	18.1	18.1	18.5	18.4	18.5	18.4
Male	Point	17.6	17.1	17.3	17.3	17.3	17.5	17.6	17.9	17.9	18.0	17.8
Female	Point	19.4	18.3	18.3	18.2	18.2	18.6	18.6	18.9	18.9	19.0	18.9
Math	Point	20.0	17.6	17.4	17.3	16.9	17.3	17.2	17.3	17.2	17.2	17.1
Male	Point	21.1	19.3	18.9	18.9	18.4	18.6	18.6	18.8	18.6	18.4	18.3
Female	Point	18.8	16.2	16.2	16.0	15.7	16.1	16.0	16.0	16.1	16.1	16.1
Social studies	Point	18.7	17.4	17.2	17.2	17.1	17.3	17.4	17.6	17.5	17.4	17.2
Male	Point	20.3	18.7	18.2	18.3	18.0	18.1	18.3	18.6	18.4	18.4	18.1
Female	Point	19.0	16.4	16.4	16.4	16.4	16.5	16.6	16.9	16.7	16.6	16.4
Natural science	Point	20.8	21.1	21.1	21.0	20.9	21.0	21.2	21.4	21.4	21.4	21.2
Male	Point	21.6	22.4	22.4	22.3	22.4	22.4	22.6	22.7	22.8	22.8	22.6
Female	Point	20.0	20.0	20.0	20.0	19.6	19.9	20.0	20.2	20.1	20.2	20.0
<b>PARTICIPANTS <sup>2</sup></b>												
Total	1,000	788	714	822	836	835	849	739	730	777	842	855
Male	Percent	52	46	45	45	46	46	46	46	46	46	46
White	Percent	(NA)	77	83	83	82	82	82	82	81	81	80
Black	Percent	4	7	8	8	9	9	8	8	8	9	9
Obtaining composite scores of—												
25 or above	Percent	14	14	13	13	13	13	14	14	14	14	14
15 or below	Percent	21	33	33	33	35	33	32	31	31	31	32
Planned educational major:												
Business	Percent	18	21	20	19	18	19	21	22	23	23	22
Engineering	Percent	8	6	8	10	10	9	9	9	8	9	9
Social science	Percent	10	9	6	6	6	7	7	8	9	10	11
Education	Percent	16	12	9	7	6	6	6	7	8	8	8

NA Not available. <sup>1</sup> Minimum score, 1; maximum score, 36. <sup>2</sup> Beginning 1985, data are for seniors who graduated in year shown and had taken the ACT in their junior or senior years. Includes political and persuasive (e.g. sales) fields through 1975; thereafter, business and commerce. <sup>3</sup> Includes religion through 1975.

Source: The American College Testing Program, Iowa City, IA, *High School Profile Report*, annual.

**No. 255. Proficiency Test Scores for Selected Subjects, by Characteristic: 1977 to 1988**

[Based on The National Assessment of Educational Progress Tests which are administered to a representative sample of students in public and private schools. Test scores can range from 0 to 500. For details, see source]

TEST AND YEAR	Total	SEX		RACE			PARENTAL EDUCATION				
		Male	Female	White <sup>1</sup>	Black <sup>1</sup>	His-panic	Less than high school	High school	More than high school		
									Total	Some college	College graduate
READING											
9 year olds:											
1979-1980	215	210	220	221	189	190	194	213	226	(NA)	(NA)
1983-1984	211	208	214	218	186	187	195	209	223	(NA)	(NA)
1987-1988	212	208	216	218	189	194	193	211	220	(NA)	(NA)
13 year olds:											
1979-1980	259	254	263	264	232	237	239	254	271	(NA)	(NA)
1983-1984	257	253	262	263	236	240	240	253	268	(NA)	(NA)
1987-1988	258	252	263	261	243	240	247	253	265	(NA)	(NA)
17 year olds:											
1979-1980	286	282	290	293	243	261	262	277	299	(NA)	(NA)
1983-1984	289	284	294	296	264	268	269	281	301	(NA)	(NA)
1987-1988	290	286	294	295	274	273	267	282	300	(NA)	(NA)
MATHEMATICS											
9 year olds:											
1977-1978	219	217	220	224	192	203	200	219	(NA)	230	231
1981-1982	219	217	221	224	195	204	199	218	(NA)	225	229
1985-1986	222	222	222	227	202	205	201	218	(NA)	229	231
13 year olds:											
1977-1978	264	264	265	272	230	238	245	263	(NA)	273	284
1981-1982	269	269	268	274	240	252	251	263	(NA)	275	282
1985-1986	269	270	268	274	249	254	252	263	(NA)	274	280
17 year olds:											
1977-1978	300	304	297	306	268	276	280	294	(NA)	305	317
1981-1982	299	302	296	304	272	277	279	293	(NA)	304	312
1985-1986	302	305	299	308	279	283	279	293	(NA)	305	314
SCIENCE											
9 year olds:											
1976-1977	220	222	218	230	192	175	199	223	(NA)	237	232
1981-1982	221	221	221	229	189	187	198	218	(NA)	229	231
1985-1986	224	227	221	232	199	196	204	220	(NA)	236	235
13 year olds:											
1976-1977	247	251	244	256	208	213	224	245	(NA)	260	267
1981-1982	250	256	245	257	217	226	225	243	(NA)	259	264
1985-1986	251	256	247	259	222	226	229	245	(NA)	258	264
17 year olds:											
1976-1977	290	297	282	298	262	240	265	284	(NA)	296	309
1981-1982	283	292	275	293	249	235	259	275	(NA)	290	300
1985-1986	289	295	282	298	259	253	258	277	(NA)	295	304

NA Not available. <sup>1</sup> Non-Hispanic.

Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, 1990.

**No. 256. Public High School Graduates, by State, 1980 to 1990, and Projections, 1991 and 1992**

[In thousands. For school year ending in year shown]

STATE	1980	1985	1990, est.	1991, proj.	1992, proj.	STATE	1980	1985	1990, est.	1991, proj.	1992, proj.
<b>U.S.</b>	<b>2,747.7</b>	<b>2,414.0</b>	<b>2,396.7</b>	<b>2,232.5</b>	<b>2,226.0</b>	<b>MO.</b>	62.3	51.3	49.2	47.5	47.1
AL	45.2	40.0	41.4	39.7	39.5	MT	12.1	10.0	9.0	9.0	8.9
AK	5.2	5.2	5.7	5.3	5.2	NE	22.4	18.0	18.8	16.5	16.9
AZ	28.6	27.9	32.1	28.3	28.5	NV	8.5	8.6	9.7	9.4	9.6
AR	29.1	26.3	27.3	26.2	25.9	NH	11.7	11.1	12.0	9.7	9.8
CA	249.2	225.4	267.9	230.6	241.1	NJ	94.6	81.5	68.5	64.7	62.9
CO	36.8	32.3	32.0	30.6	30.6	NM	18.4	15.6	14.8	15.5	15.7
CT	37.7	32.1	31.8	26.4	26.5	NY	204.1	166.8	143.9	136.6	134.8
DE	7.6	5.9	5.6	5.2	5.3	NC	70.9	67.2	64.9	62.5	61.2
DC	5.0	3.9	3.7	3.6	3.3	ND	9.9	8.1	7.7	7.7	7.5
FL	87.3	81.1	95.6	86.9	89.4	OH	144.2	122.3	127.8	110.9	109.9
GA	61.6	58.7	53.4	57.0	56.4	OK	39.3	34.6	36.2	32.6	32.0
HI	11.5	10.1	10.0	9.4	9.5	OR	29.9	26.9	25.2	24.7	24.8
ID	13.2	12.1	14.0	12.1	12.6	PA	146.5	127.2	109.9	104.0	101.0
IL	135.6	117.0	108.6	103.4	101.3	RI	10.9	9.2	7.8	7.4	7.3
IN	73.1	63.3	60.8	57.3	55.9	SC	38.7	34.5	34.0	34.7	34.7
IA	43.4	36.1	36.2	29.1	29.2	SD	10.7	8.2	7.7	7.4	7.5
KS	30.9	26.0	25.7	24.9	25.0	TN	49.8	43.3	46.3	44.4	44.4
KY	41.2	38.0	38.5	35.6	33.7	TX	171.4	159.2	170.0	170.2	172.3
LA	46.3	39.7	37.8	36.2	36.2	UT	20.0	19.9	22.2	23.1	23.8
ME	15.4	13.9	14.2	12.6	12.3	VT	6.7	5.8	6.1	5.2	5.2
MD	54.3	48.3	42.0	38.7	38.6	VA	66.6	61.0	61.3	58.6	57.5
MA	73.8	63.4	49.7	48.1	46.8	WA	50.4	45.4	46.6	45.4	45.9
MI	124.3	105.9	106.0	90.4	89.5	WV	23.4	22.3	22.1	21.0	20.1
MN	64.9	53.4	48.2	46.6	46.5	WI	69.3	58.9	55.8	49.9	49.4
MS	27.6	25.3	27.8	24.5	24.0	WY	6.1	5.7	5.8	5.6	5.5

Source: U.S. National Center for Education Statistics, *State Projections to 1993*, 1989.

### No. 257. High School Dropouts 14 to 24 Years Old, by Age, Race, and Hispanic Origin: 1970 to 1989

[As of October. See headnote, table 259 for definition of dropouts]

AGE AND RACE	NUMBER OF DROPOUTS (1,000)									PERCENT OF POPULATION			
	1970	1980	1984	1985	1986	1987	1988	1989		1970	1980	1985	1989
<b>Total dropouts</b> <sup>1 2</sup>	<b>4,670</b>	<b>5,212</b>	<b>4,784</b>	<b>4,456</b>	<b>4,318</b>	<b>4,349</b>	<b>4,300</b>	<b>4,109</b>		<b>12.2</b>	<b>12.0</b>	<b>10.8</b>	<b>10.7</b>
16-17 years	617	709	485	505	455	500	482	395		8.0	8.8	7.0	5.9
18-21 years	2,138	2,578	2,297	2,095	1,961	1,966	2,081	2,128		16.4	15.8	14.1	15.0
22-24 years	1,770	1,798	1,845	1,724	1,726	1,785	1,668	1,516		18.7	15.2	14.1	13.7
<b>White</b> <sup>2</sup>	<b>3,577</b>	<b>4,169</b>	<b>3,831</b>	<b>3,583</b>	<b>3,497</b>	<b>3,522</b>	<b>3,480</b>	<b>3,314</b>		<b>10.8</b>	<b>11.3</b>	<b>10.3</b>	<b>10.5</b>
16-17 years	485	619	421	424	394	401	411	328		7.3	9.2	7.1	6.1
18-21 years	1,618	2,032	1,852	1,678	1,566	1,577	1,670	1,690		14.3	14.7	13.6	14.6
22-24 years	1,356	1,416	1,429	1,372	1,408	1,465	1,342	1,236		16.3	14.0	13.3	13.4
<b>Black</b> <sup>2</sup>	<b>1,047</b>	<b>934</b>	<b>789</b>	<b>748</b>	<b>707</b>	<b>706</b>	<b>709</b>	<b>648</b>		<b>22.2</b>	<b>16.0</b>	<b>12.6</b>	<b>11.4</b>
16-17 years	125	80	55	70	52	77	67	61		12.8	6.9	6.5	5.6
18-21 years	500	486	373	376	345	338	368	363		30.5	23.0	17.5	17.4
22-24 years	397	346	339	279	272	273	263	220		37.8	24.0	17.8	14.9
<b>Hispanic</b> <sup>2 3</sup>	<b>(NA)</b>	<b>919</b>	<b>789</b>	<b>820</b>	<b>991</b>	<b>941</b>	<b>1,177</b>	<b>1,168</b>		<b>(NA)</b>	<b>29.5</b>	<b>23.3</b>	<b>27.9</b>
16-17 years	(NA)	92	71	97	101	76	123	80		(NA)	16.6	14.6	12.5
18-21 years	(NA)	470	333	335	429	410	552	538		(NA)	40.3	29.3	34.9
22-24 years	(NA)	323	358	365	436	439	494	524		(NA)	40.6	33.9	41.1

<sup>1</sup> NA Not available. <sup>2</sup> Includes other groups not shown separately. <sup>3</sup> Includes persons 14-15 years, not shown separately.

<sup>3</sup> Persons of Hispanic origin may be of any race.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 443 and earlier reports; and unpublished data.

### No. 258. Enrollment Status, by Race, Hispanic Origin, and Sex: 1975 and 1989

[As of October. For persons 18 to 21 years old. For the civilian noninstitutional population. Based on the Current Population Survey; see text, section 1 and Appendix III]

CHARACTERISTIC	TOTAL PER- SONS 18 TO 21 YEARS OLD (1,000)		PERCENT DISTRIBUTION									
			Enrolled in high school		High school graduates						Not high school graduates	
					Total		In college		Not in college			
1975	1989	1975	1989	1975	1989	1975	1989	1975	1989	1975	1989	
Total <sup>1</sup>	15,693	14,189	5.7	7.9	76.0	77.1	33.5	39.7	44.5	37.4	16.3	15.0
White	13,448	11,601	4.7	6.7	80.6	78.7	34.6	41.5	46.0	37.2	14.7	14.6
Black	1,997	2,084	12.5	12.3	60.4	70.2	24.9	28.4	35.6	41.8	27.0	17.4
Hispanic	899	1,542	12.0	10.9	57.2	54.2	24.4	20.2	32.8	34.0	30.8	34.9
Male <sup>1</sup>	7,584	6,995	7.4	9.4	76.6	74.3	35.4	37.9	41.3	36.4	15.9	16.3
White	6,545	5,763	6.2	8.3	79.7	76.0	36.9	40.3	42.8	35.7	14.1	15.7
Black	911	986	15.9	14.5	55.0	65.3	23.9	23.3	31.1	42.0	29.0	20.3
Hispanic	416	804	17.3	12.1	54.6	51.4	25.2	17.5	29.3	33.8	27.9	36.7
Female <sup>1</sup>	8,109	7,194	4.2	6.4	79.2	79.9	31.8	41.5	47.4	38.4	16.6	13.8
White	6,903	5,838	3.2	5.2	81.4	81.4	32.4	42.8	49.0	38.6	15.3	13.4
Black	1,085	1,098	9.7	10.6	65.0	74.5	25.8	33.0	39.2	41.5	25.4	14.9
Hispanic	484	737	7.6	9.4	59.3	57.8	23.6	23.3	35.7	34.5	33.1	33.0

<sup>1</sup> Includes other races not shown separately. <sup>2</sup> Persons of Hispanic origin may be of any race.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 443 and forthcoming report.

### No. 259. Employment Status of High School Graduates Not Enrolled in College and School Dropouts, by Sex and Race: 1980 to 1989

[In thousands, except percent. As of October. For civilian noninstitutional population 16 to 24 years old. High school graduates: Persons not enrolled in college who have completed 4 years of high school only. Dropouts: Persons not in regular school and who have not completed the 12th grade nor received a general equivalency degree. Based on Current Population Survey; see text, section 1, and Appendix III]

EMPLOYMENT STATUS, SEX, AND RACE	GRADUATES					DROPOUTS				
	1980	1985	1987	1988	1989	1980	1985	1987	1988	1989
<b>Civilian population</b>	<b>11,622</b>	<b>10,381</b>	<b>9,339</b>	<b>8,999</b>	<b>8,645</b>	<b>5,254</b>	<b>4,323</b>	<b>4,252</b>	<b>4,231</b>	<b>4,042</b>
In labor force	9,795	8,825	7,976	7,638	7,266	3,549	2,920	2,804	2,763	2,703
Percent of population	84.3	85.0	85.4	84.9	84.1	67.5	67.5	66.0	65.3	66.9
Employed	8,567	7,707	7,163	6,932	6,552	2,651	2,165	2,165	2,235	2,147
Percent of labor force	87.5	87.3	89.8	90.8	90.2	74.7	74.1	79.5	80.9	79.4
Male	4,462	4,001	3,796	3,648	3,534	1,780	1,475	1,450	1,482	1,491
Female	4,105	3,706	3,367	3,284	3,018	871	690	780	753	656
White	7,638	6,732	6,153	5,899	5,543	2,310	1,888	1,929	1,924	1,861
Black	817	865	866	894	853	305	226	243	238	223
Unemployed	1,228	1,118	813	706	714	898	755	574	528	555
Percent of labor force	12.5	12.7	10.2	9.2	9.8	25.3	25.9	20.5	19.1	20.6
Male	695	569	399	376	364	548	462	326	331	343
Female	532	549	414	330	350	350	293	248	197	213
White	924	729	549	488	478	636	582	416	394	397
Black	289	360	245	205	224	239	160	138	127	148
Not in labor force	1,827	1,556	1,363	1,361	1,379	1,705	1,403	1,448	1,468	1,339
Percent of population	15.7	15.0	14.6	15.1	16.0	32.5	32.5	34.1	34.7	33.1

<sup>1</sup> Includes other races not shown separately.

Source: U.S. Bureau of Labor Statistics, Bulletin 2307, and unpublished data.



### No. 260. High School Graduates by Sex and Control and General Educational Development (GED) Certificates Issued, by Age: 1960 to 1989

[In thousands, except percent. See also *Historical Statistics, Colonial Times to 1970*, series H 598-601]

YEAR OF GRADUATION	HIGH SCHOOL GRADUATES <sup>1</sup>						GED'S ISSUED				
	Total		Sex		Control		Total	Percent by age			
	Number	Percent of persons 17 years old <sup>2</sup>	Male	Female	Public	Private, est.		17 years old or less	20-24 years old	25-29 years old	30 years old and over
1960.....	1,858	69.5	895	963	1,627	231	(NA)	(NA)	(NA)	(NA)	(NA)
1970.....	2,889	76.9	1,430	1,459	2,589	300	(NA)	(NA)	(NA)	(NA)	(NA)
1980.....	3,043	71.4	1,491	1,552	2,748	295	479	37	27	13	23
1985.....	2,677	73.2	(NA)	(NA)	2,414	263	413	32	26	15	26
1988.....	2,800	74.1	(NA)	(NA)	2,500	300	(NA)	(NA)	(NA)	(NA)	(NA)
1989, est.....	2,787	74.1	(NA)	(NA)	2,496	291	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. <sup>1</sup> Data for 1960-1970 include about 7,000 graduates of subcollegiate departments of institutions of higher education, Federal schools for Indians and on Federal installations, and residential schools for exceptional children.

<sup>2</sup> Based on estimated resident population as of July 1.

Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, annual.

### No. 261. College Enrollment and Percent of High School Graduates Enrolled In, or Completed One or More Years of College, by Sex, Race, and Hispanic Origin: 1960 to 1989

[As of October, except as noted. Covers civilian noninstitutional population 14 to 24 years old, except as noted]

ITEM AND YEAR	ALL PERSONS				MALE			FEMALE		
	Total <sup>1</sup>	White	Black	Hispanic origin <sup>2</sup>	White	Black	Hispanic origin <sup>2</sup>	White	Black	Hispanic origin <sup>2</sup>
College enrollment (1,000): 1960 <sup>3</sup>	2,279	2,138	<sup>4</sup> 141	(NA)	1,297	<sup>4</sup> 68	(NA)	841	<sup>4</sup> 73	(NA)
1970.....	6,065	5,535	437	(NA)	3,213	202	(NA)	2,322	236	(NA)
1980.....	7,475	6,546	718	325	3,303	292	156	3,243	426	168
1985.....	7,799	6,729	755	391	3,374	355	178	3,357	400	211
1988.....	7,973	6,796	785	463	3,310	303	237	3,486	482	228
1989.....	7,987	6,778	867	470	3,286	332	216	3,493	535	255
Percent of high school graduates enrolled: 1960 <sup>3</sup>	23.8	24.3	<sup>4</sup> 18.7	(NA)	31.1	<sup>4</sup> 21.1	(NA)	18.1	<sup>4</sup> 16.9	(NA)
1970.....	33.3	33.9	26.7	(NA)	42.9	29.5	(NA)	26.3	24.7	(NA)
1980.....	32.3	32.5	28.3	30.3	34.3	27.0	31.2	30.9	29.2	29.4
1985.....	34.3	35.0	26.5	27.5	36.6	28.2	26.4	33.6	25.1	28.4
1988.....	37.6	38.4	28.6	31.3	39.6	25.1	32.2	37.3	31.3	30.5
1989.....	38.5	39.1	31.5	29.4	39.7	27.5	28.2	38.6	34.7	30.5
Percent of high school graduates enrolled in college or completed 1 or more years of college: 1960 <sup>3</sup>	40.4	41.0	<sup>4</sup> 32.5	(NA)	47.1	<sup>4</sup> 33.5	(NA)	35.6	<sup>4</sup> 31.8	(NA)
1970.....	52.3	53.4	40.0	(NA)	60.8	41.2	(NA)	47.1	39.0	(NA)
1980.....	51.1	51.4	46.2	47.3	51.8	44.4	49.6	51.0	47.5	45.6
1985.....	54.3	55.3	43.8	46.7	55.5	43.5	44.9	55.2	43.9	48.0
1988.....	57.5	58.6	46.6	47.1	57.9	42.8	48.4	59.2	49.6	46.0
1989.....	57.9	58.9	49.2	43.6	58.5	45.8	42.7	59.3	51.8	44.5

NA Not available. <sup>1</sup> Includes other races, not shown separately. <sup>2</sup> Persons of Hispanic origin may be of any race. <sup>3</sup> As of April. <sup>4</sup> Black and other races. <sup>5</sup> Population 15 to 24 years old.

Source: U.S. Bureau of the Census, *U.S. Census of Population: 1960*, vol. 1, *Characteristics of the Population*, part 1; *Current Population Reports*, series P-20, No. 443 and earlier reports; and unpublished data.

### No. 262. Enrollment in Institutions of Higher Education, by Sex, Age, and Attendance Status, 1970 to 1989, and Projections, 1996 and 2001

[As of fall]

SEX AND RACE	NUMBER (1,000)						PERCENT PART-TIME					
	1970	1980	1985	1989, est.	1996, proj.	2001, proj.	1970	1980	1985	1989, est.	1996, proj.	2001, proj.
Total.....	8,581	12,097	12,247	13,419	13,747	14,447	32.2	41.3	42.2	43.4	45.1	44.2
Male.....	5,044	5,874	5,818	6,260	6,271	6,522	30.5	37.2	38.0	39.6	40.4	39.0
14 to 17 years old.....	130	99	121	78	83	89	3.9	15.2	15.7	21.8	25.3	28.1
18 and 19 years old.....	1,349	1,375	1,230	1,382	1,370	1,549	6.2	10.6	9.9	11.0	11.2	11.6
20 and 21 years old.....	1,095	1,259	1,216	1,248	1,254	1,446	9.6	12.2	15.5	17.5	19.1	18.7
22 to 24 years old.....	964	1,064	1,048	1,058	1,008	1,067	32.6	35.4	30.3	33.7	33.9	33.8
25 to 29 years old.....	783	993	991	993	863	781	58.2	61.9	60.1	55.8	55.7	55.8
30 to 34 years old.....	308	576	574	624	602	449	76.6	77.6	73.9	73.2	73.1	89.1
35 years old and over.....	415	507	639	878	1,091	1,140	81.9	84.8	84.8	82.5	78.7	76.3
Female.....	3,537	6,223	6,429	7,159	7,476	7,925	34.6	45.2	46.1	46.7	49.1	48.4
14 to 17 years old.....	129	148	113	115	128	142	9.3	11.5	10.6	22.6	28.1	32.4
18 and 19 years old.....	1,250	1,526	1,370	1,583	1,541	1,699	8.8	11.4	11.4	12.8	13.4	13.4
20 and 21 years old.....	786	1,165	1,166	1,273	1,243	1,415	16.3	17.9	18.7	18.2	19.9	20.8
22 to 24 years old.....	493	925	885	934	896	952	53.1	47.4	43.8	42.4	42.5	43.4
25 to 29 years old.....	291	878	962	943	836	764	72.6	73.6	68.8	67.3	66.1	65.4
30 to 34 years old.....	179	667	687	747	743	692	84.4	79.6	76.7	74.7	72.3	70.7
35 years old and over.....	409	914	1,246	1,565	2,090	2,260	85.6	87.5	80.0	82.8	81.8	82.7

Source: U.S. National Center for Education Statistics, *Projections of Education Statistics*, annual.

**No. 263. College Enrollment, by Sex, Age, Race, and Hispanic Origin: 1972 to 1989**

[In thousands. As of October for civilian noninstitutional population, 14 years old and over. Based on Current Population Survey; see text, section 1 and Appendix III]

SEX, AGE, AND RACE	1972	1975	1980	1981	1982	1983	1984	1985	1986 <sup>1</sup>	1987	1988	1989
<b>Total<sup>2</sup></b>	<b>9,095</b>	<b>10,880</b>	<b>11,387</b>	<b>12,127</b>	<b>12,348</b>	<b>12,367</b>	<b>12,305</b>	<b>12,524</b>	<b>12,651</b>	<b>12,719</b>	<b>13,118</b>	<b>13,180</b>
Male <sup>3</sup>	5,218	5,911	5,430	5,825	5,919	6,038	5,989	5,906	5,957	6,030	5,950	5,950
18-24 years	3,534	3,693	3,604	3,833	3,837	3,820	3,929	3,749	3,702	3,867	3,770	3,717
25-34 years	1,178	1,521	1,325	1,442	1,460	1,576	1,492	1,464	1,545	1,421	1,395	1,443
35-years and over	365	569	405	453	510	535	476	561	628	625	727	716
Female	3,877	4,969	5,957	6,303	6,427	6,329	6,316	6,618	6,694	6,689	7,166	7,231
18-24 years	2,724	3,243	3,625	3,741	3,841	3,657	3,662	3,788	3,775	3,826	4,021	4,085
25-34 years	581	947	1,378	1,485	1,528	1,510	1,522	1,599	1,559	1,584	1,568	1,637
35-years and over	418	614	802	940	917	1,009	969	1,100	1,240	1,176	1,452	1,396
White	8,147	9,547	9,926	10,352	10,587	10,607	10,522	10,782	10,707	10,731	11,140	11,243
Male	4,723	5,263	4,804	5,011	5,098	5,187	5,111	5,101	5,074	5,104	5,078	5,136
Female	3,427	4,285	5,123	5,342	5,488	5,420	5,410	5,681	5,632	5,627	6,063	6,107
Black	(NA)	(NA)	(NA)	(NA)	1,243	1,227	1,274	1,208	1,359	1,351	1,321	1,287
Male	(NA)	(NA)	(NA)	(NA)	513	537	590	518	580	587	494	480
Female	(NA)	(NA)	(NA)	(NA)	730	690	684	689	779	764	827	807
Hispanic origin <sup>4</sup>	(NA)	(NA)	(NA)	(NA)	539	579	563	665	794	739	747	754
Male	(NA)	(NA)	(NA)	(NA)	233	273	248	301	377	390	355	353
Female	(NA)	(NA)	(NA)	(NA)	306	306	315	363	417	349	391	401

NA Not available. <sup>1</sup> Revised. <sup>2</sup> Includes other races not shown separately. <sup>3</sup> Includes persons 14 to 17 years old, not shown separately. <sup>4</sup> Persons of Hispanic origin may be of any race.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 443 and earlier reports; and unpublished data.

**No. 264. College Enrollment, by Selected Characteristics: 1980 to 1988**

[In thousands. As of fall. Totals may differ from other tables because of adjustments to underreported and nonreported racial/ethnic data. Non-resident alien students are not distributed among racial/ethnic groups. Minus sign (-) indicates decrease]

CHARACTERISTIC	1980	1984	1988	Per- cent change 1980- 1988	CHARACTERISTIC	1980	1984	1988	Per- cent change 1980- 1988
<b>Total</b>	<b>12,086.8</b>	<b>12,233.1</b>	<b>13,043.1</b>	<b>7.9</b>	Two-year	255.1	288.8	383.9	50.5
Male	5,868.1	5,858.3	5,998.2	2.2	Four-year	216.6	246.1	296.0	36.7
Female	6,218.7	6,374.7	7,044.9	13.3	Undergraduate	433.1	495.2	631.2	45.7
Public	9,456.4	9,456.4	10,156.4	7.4	Graduate	32.1	31.7	39.5	23.1
Private	2,630.4	2,776.6	2,886.7	9.7	Professional	6.5	8.0	9.3	43.1
Two-year	4,521.4	4,526.9	4,868.1	7.7	American Indian <sup>1</sup>	83.9	83.6	92.5	10.3
Four-year	7,565.4	7,706.1	8,175.0	8.1	Male	37.8	37.4	39.1	3.4
Undergraduate	10,469.0	10,610.8	11,304.2	8.0	Female	46.1	46.1	53.4	15.8
Graduate	1,340.9	1,343.7	1,471.9	9.8	Public	74.2	72.1	91.1	22.8
Professional	276.8	276.5	267.1	-3.5	Private	9.7	11.4	11.5	18.6
White <sup>1</sup>	9,833.0	9,814.7	10,283.2	4.6	Two-year	47.0	45.5	50.4	7.2
Male	4,772.9	4,689.9	4,711.6	-1.3	Four-year	36.9	38.1	42.1	14.1
Female	5,060.1	5,124.7	5,571.6	10.1	Undergraduate	77.9	77.8	85.9	10.3
Public	7,856.1	7,542.4	7,963.8	4.0	Graduate	5.2	4.8	5.6	7.7
Private	2,176.9	2,272.3	2,319.4	6.5	Professional	0.8	1.0	1.1	37.5
Two-year	3,558.5	3,514.3	3,701.5	4.0	Asian <sup>1</sup>	286.4	389.5	496.7	73.4
Four-year	6,274.5	6,300.4	6,581.6	4.9	Male	151.3	210.0	259.2	71.3
Undergraduate	8,480.7	8,484.0	8,906.7	5.0	Female	135.2	179.5	237.5	75.7
Graduate	1,104.7	1,087.3	1,153.2	4.4	Public	239.7	322.7	405.7	69.3
Professional	247.7	243.4	223.2	-9.9	Private	46.7	66.8	91.0	94.9
Black <sup>1</sup>	1,106.8	1,075.8	1,129.6	2.1	Two-year	124.3	167.1	199.3	60.3
Male	463.7	436.8	442.7	-4.5	Four-year	162.1	222.4	297.4	83.5
Female	643.0	639.0	686.9	6.8	Undergraduate	248.7	343.0	436.6	75.6
Public	876.1	844.0	881.1	0.6	Graduate	31.6	37.1	45.7	44.6
Private	230.7	231.8	248.5	7.7	Professional	6.1	9.3	14.4	136.1
Two-year	472.5	458.7	473.3	0.2	Nonresident alien	305.0	334.6	361.2	18.4
Four-year	634.3	617.0	656.3	3.5	Male	210.8	230.4	235.3	11.6
Undergraduate	1,018.8	994.9	1,038.8	2.0	Female	94.2	104.1	125.9	33.7
Graduate	75.1	67.4	76.5	1.9	Public	204.1	219.0	237.8	16.5
Professional	12.8	13.4	14.3	11.7	Private	100.8	115.5	123.3	22.3
Hispanic	471.7	534.9	680.0	44.2	Two-year	64.1	52.5	59.6	-7.0
Male	231.6	253.8	310.3	34.0	Four-year	240.9	282.1	301.5	25.2
Female	240.1	281.2	369.6	53.9	Undergraduate	209.9	215.8	205.0	-2.3
Public	406.2	456.1	586.9	44.5	Graduate	92.2	115.3	151.4	64.2
Private	65.5	78.9	93.1	42.1	Professional	2.9	3.4	4.7	62.1

<sup>1</sup> Non-Hispanic.

Source: U.S. Dept. of Education, National Center for Education Statistics, *Digest of Education Statistics*, 1990.

## No. 265. Higher Education—Summary: 1970 to 1988

[Institutions, staff, and enrollment as of fall. Finances for fiscal year ending in the following year. Covers universities, colleges, professional schools, junior and teachers colleges, both publicly and privately controlled, regular session. Includes estimates for institutions not reporting. See also Appendix III, and *Historical Statistics, Colonial Times to 1970*, series H 680, H 699-705, and H 710]

ITEM	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988
<b>Institutions</b> <sup>1</sup>	<b>Number</b>	<b>2,556</b>	<b>3,231</b>	<b>3,280</b>	<b>3,284</b>	<b>3,331</b>	<b>3,340</b>	<b>3,406</b>	<b>3,587</b>	<b>3,658</b>
4-year	Number	1,665	1,957	1,984	2,013	2,025	2,029	2,070	2,135	2,222
2-year	Number	891	1,274	1,296	1,271	1,306	1,311	1,336	1,452	1,436
<b>Instructional staff</b>	<b>1,000</b>	<b>573</b>	<b>846</b>	<b>865</b>	<b>(NA)</b>	<b>(NA)</b>	<b>(NA)</b>	<b>(NA)</b>	<b>(NA)</b>	<b>(NA)</b>
Lecturer or above	1,000	474	688	710	724	717	715	722	793	(NA)
Percent full-time	Percent	77.8	65.6	65.1	65.1	64.4	64.2	63.6	66.0	(NA)
<b>Total enrollment</b> <sup>4</sup>	<b>1,000</b>	<b>8,581</b>	<b>12,097</b>	<b>12,426</b>	<b>12,465</b>	<b>12,242</b>	<b>12,247</b>	<b>12,504</b>	<b>12,767</b>	<b>13,043</b>
Male	1,000	5,044	5,874	6,031	6,024	5,864	5,818	5,885	5,932	5,998
Female	1,000	3,537	6,223	6,394	6,441	6,378	6,429	6,619	6,835	7,045
4-year institutions	1,000	6,358	7,571	7,654	7,741	7,711	7,716	7,824	7,990	8,175
2-year institutions	1,000	2,223	4,526	4,772	4,723	4,531	4,531	4,680	4,776	4,868
Full-time	1,000	5,815	7,098	7,221	7,261	7,098	7,075	7,120	7,231	7,430
Part-time	1,000	2,766	4,999	5,205	5,204	5,144	5,172	5,384	5,536	5,613
Public	1,000	6,428	9,457	9,896	9,683	9,478	9,479	9,714	9,973	10,156
Private	1,000	2,153	2,640	2,730	2,782	2,765	2,768	2,790	2,793	2,887
<b>Undergraduate</b> <sup>5</sup>	<b>1,000</b>	<b>7,376</b>	<b>10,475</b>	<b>10,825</b>	<b>10,846</b>	<b>10,618</b>	<b>10,597</b>	<b>10,799</b>	<b>11,046</b>	<b>11,304</b>
Men	1,000	4,254	5,000	5,170	5,158	5,007	4,962	5,018	5,068	5,134
Women	1,000	3,122	5,475	5,654	5,688	5,612	5,634	5,781	5,978	6,170
First-time freshmen	1,000	2,063	2,588	2,505	2,444	2,357	2,292	2,219	2,246	2,376
First-professional	1,000	173	278	278	279	279	274	270	268	267
Men	1,000	159	199	191	188	185	180	174	170	167
Women	1,000	15	78	87	90	94	94	97	98	100
<b>Graduate</b> <sup>5</sup>	<b>1,000</b>	<b>1,031</b>	<b>1,343</b>	<b>1,322</b>	<b>1,340</b>	<b>1,345</b>	<b>1,376</b>	<b>1,435</b>	<b>1,452</b>	<b>1,472</b>
Men	1,000	630	675	670	677	672	677	693	693	698
Women	1,000	400	670	652	663	674	699	742	759	774
<b>Current funds revenues</b> <sup>6</sup>	<b>Mill. dol.</b>	<b>23,879</b>	<b>65,585</b>	<b>77,596</b>	<b>84,417</b>	<b>92,473</b>	<b>100,438</b>	<b>109,145</b>	<b>(NA)</b>	<b>(NA)</b>
Tuition and fees	Mill. dol.	5,021	13,773	17,776	19,715	21,283	23,117	25,706	(NA)	(NA)
Federal Government	Mill. dol.	2,739	8,479	8,181	8,783	9,615	10,466	14,239	(NA)	(NA)
State government	Mill. dol.	6,589	20,106	23,066	24,707	27,583	29,912	31,309	(NA)	(NA)
Auxiliary enterprises	Mill. dol.	3,125	7,287	8,770	9,456	10,100	10,674	11,364	(NA)	(NA)
Plant funds	Mill. dol.	(NA)	4,774	4,997	6,238	6,737	7,713	(NA)	(NA)	(NA)
Increase in fund balance <sup>8</sup>	Mill. dol.	498	2,793	5,322	2,410	4,653	7,239	(NA)	(NA)	(NA)
<b>Current funds expenditures</b> <sup>9</sup>	<b>Mill. dol.</b>	<b>23,375</b>	<b>64,053</b>	<b>75,936</b>	<b>81,993</b>	<b>89,951</b>	<b>97,536</b>	<b>106,100</b>	<b>(NA)</b>	<b>(NA)</b>
Educational and general	Mill. dol.	17,616	50,074	58,929	63,741	70,061	76,128	82,956	(NA)	(NA)
Auxiliary enterprises <sup>10</sup>	Mill. dol.	2,988	7,288	8,614	9,250	10,012	10,528	11,037	(NA)	(NA)
Gross addition to plant value	Mill. dol.	4,165	6,471	7,421	7,604	8,306	10,149	(NA)	(NA)	(NA)
Value of plant	Mill. dol.	46,054	88,761	100,993	107,640	114,764	122,261	(NA)	(NA)	(NA)
Endowment (book value)	Mill. dol.	11,341	20,941	26,352	29,502	33,399	38,698	(NA)	(NA)	(NA)

NA Not available. <sup>1</sup> Beginning 1980, number of institutions includes count of branch campuses. Due to revised survey procedures, data beginning 1987 are not comparable with previous years. <sup>2</sup> Estimated. <sup>3</sup> Due to revised survey methods, data not comparable with previous years. <sup>4</sup> Beginning 1980, branch campuses counted according to actual status, e.g., 2-year branch in 2-year category; previously a 2-year branch included in university category. 1988 preliminary. <sup>5</sup> Includes unclassified students. (Students taking courses for credit, but are not candidates for degrees.) <sup>6</sup> Includes items not shown separately. <sup>7</sup> Annual net increase in plant funds. <sup>8</sup> Includes endowment, and beginning 1980, annuity and student loans. See table 273. <sup>9</sup> 1970 not strictly comparable with later years. <sup>10</sup> Includes activities.

Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, annual; and unpublished data.

## No. 266. Junior (2-Year) Colleges—Summary: 1970 to 1988

[Institutions and their enrollment as of fall; financial data for fiscal year ending the following year. Prior to 1975, excludes two-year branches of universities and other four-year institutions. Beginning 1980, includes schools accredited by the National Association of Trade and Technical Schools. See *Historical Statistics, Colonial Times to 1970*, series H 690-692 and H 705, for related but not comparable data. See also Appendix III]

ITEM	Unit	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988
<b>Institutions</b> <sup>1</sup>	<b>Number</b>	<b>892</b>	<b>1,128</b>	<b>1,274</b>	<b>1,296</b>	<b>1,271</b>	<b>1,306</b>	<b>1,311</b>	<b>1,336</b>	<b>1,452</b>	<b>1,436</b>
Public	Number	654	897	945	933	916	935	932	960	992	984
Private	Number	237	231	329	363	355	371	379	376	460	452
<b>Enrollment</b>	<b>1,000</b>	<b>2,223</b>	<b>3,970</b>	<b>4,526</b>	<b>4,772</b>	<b>4,723</b>	<b>4,531</b>	<b>4,531</b>	<b>4,680</b>	<b>4,776</b>	<b>4,868</b>
Public	1,000	2,102	3,836	4,329	4,520	4,459	4,279	4,270	4,414	4,541	4,612
Private	1,000	121	134	198	252	264	252	261	266	235	256
Male	1,000	1,317	2,165	2,047	2,170	2,131	2,017	2,002	2,061	2,073	2,086
Female	1,000	906	1,805	2,479	2,602	2,592	2,514	2,529	2,618	2,703	2,782
<b>Current funds revenue</b> <sup>3</sup>	<b>Mill. dol.</b>	<b>2,504</b>	<b>5,304</b>	<b>8,505</b>	<b>9,879</b>	<b>10,590</b>	<b>11,449</b>	<b>12,293</b>	<b>13,136</b>	<b>(NA)</b>	<b>(NA)</b>
Tuition and fees	Mill. dol.	413	896	1,618	2,106	2,316	2,469	2,618	2,344	(NA)	(NA)
State government	Mill. dol.	916	2,248	3,961	4,487	4,773	5,189	5,659	5,976	(NA)	(NA)
Local government	Mill. dol.	700	1,187	1,623	1,585	1,706	1,860	2,027	2,894	(NA)	(NA)
<b>Current funds expenditures</b>	<b>Mill. dol.</b>	<b>2,327</b>	<b>5,092</b>	<b>8,212</b>	<b>9,697</b>	<b>10,314</b>	<b>11,207</b>	<b>11,976</b>	<b>12,779</b>	<b>(NA)</b>	<b>(NA)</b>
Education and general <sup>4</sup>	Mill. dol.	2,073	4,736	7,608	8,969	9,530	10,374	11,118	11,875	(NA)	(NA)
Instruction	Mill. dol.	1,205	2,401	3,764	4,447	4,715	5,075	5,398	5,729	(NA)	(NA)

NA Not available. <sup>1</sup> See footnote 1, table 265. <sup>2</sup> Preliminary. <sup>3</sup> Includes items not shown separately. <sup>4</sup> Includes mandatory transfers.

Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, annual; and *Financial Statistics of Institutions of Higher Education*, annual.

# **No. 267. Institutions of Higher Education—Number, 1988, and Enrollment 1980 and 1988, and by Selected Characteristics, 1988—States and Other Areas**

[Number of institutions for academic year beginning 1988. Opening fall enrollment of resident and extension students attending full-time or part-time. Excludes students taking courses for credit by mail, radio, or TV, and students in branches of U.S. institutions operated in foreign countries. See Appendix III]

STATE OR OTHER AREA	Total enrollment, 1980 (1,000)	Number of institutions <sup>1</sup>	1988											Foreign
			Enrollment (1,000)											
			Total	Male	Female	Public	Private	Full-time	White <sup>2</sup>	Minority enrollment				
										Total <sup>3</sup>	Black <sup>2</sup>	Hispanic		
U.S. ....	12,097	3,690	13,043	5,998	7,045	10,156	2,887	7,430	10,283	2,398.8	1,130.0	680.0	361.2	
Northeast. ....	2,587	900	2,689	1,209	1,483	1,572	1,116	1,640	2,187	415.2	208.6	113.2	87.1	
N.E. ....	766	272	805	359	447	420	385	489	707	70.9	30.1	18.5	27.0	
ME. ....	43	32	48	21	27	36	12	30	47	0.9	0.3	0.1	0.3	
NH. ....	47	30	55	26	30	30	25	36	52	2.0	0.6	0.6	0.9	
VT. ....	31	23	34	15	20	20	15	24	33	1.0	0.3	0.2	0.5	
MA. ....	418	125	427	191	236	189	238	268	363	44.3	17.8	11.6	19.5	
RI. ....	67	12	75	34	41	39	36	47	68	5.0	2.2	1.2	1.7	
CT. ....	160	50	166	72	93	106	59	84	144	17.7	8.9	4.8	4.1	
M.A. ....	1,822	628	1,884	848	1,035	1,152	733	1,151	1,480	344.3	178.2	94.7	60.1	
NY. ....	992	340	1,007	448	559	584	424	631	743	229.4	111.0	70.7	35.4	
NJ. ....	322	65	303	136	166	244	59	151	232	58.8	28.8	17.9	11.8	
PA. ....	508	223	574	264	310	324	250	369	505	56.1	38.4	6.1	12.9	
Midwest. ....	3,044	954	3,322	1,548	1,774	2,609	713	1,926	2,861	383.5	232.6	70.1	76.9	
E.N.C. ....	2,169	581	2,327	1,086	1,242	1,839	487	1,311	1,958	315.4	196.5	60.3	52.7	
OH. ....	489	161	542	264	278	402	140	326	478	50.1	38.1	4.6	13.4	
IN. ....	247	83	268	128	140	209	59	173	239	22.3	14.7	3.7	6.5	
IL. ....	644	173	689	316	373	522	167	347	522	153.6	83.1	40.8	13.8	
MI. ....	520	101	543	246	297	464	78	277	458	70.9	51.5	7.7	13.4	
WI. ....	269	63	285	132	154	242	43	188	261	18.5	9.1	3.5	5.6	
W.N.C. ....	875	373	995	462	533	770	226	615	903	68.1	36.1	9.8	24.2	
MN. ....	207	82	245	111	134	191	54	148	229	10.4	3.3	1.5	4.8	
IA. ....	140	61	161	78	84	113	48	116	148	7.4	3.5	1.4	5.8	
MO. ....	234	92	262	121	141	179	83	151	229	27.5	20.1	2.6	5.5	
ND. ....	33	22	38	20	18	36	3	31	35	2.1	0.2	0.1	1.0	
SD. ....	33	21	31	14	17	24	8	23	29	2.3	0.2	0.1	0.6	
NE. ....	90	38	105	48	56	88	17	58	98	5.3	2.5	1.2	1.7	
KS. ....	137	57	153	70	83	139	14	88	135	13.1	6.3	2.9	4.8	
South. ....	3,437	1,189	3,958	1,796	2,160	3,267	690	2,351	3,019	842.1	540.8	206.1	94.5	
S.A. ....	1,724	593	1,958	892	1,102	1,581	413	1,138	1,533	411.9	293.7	70.8	50.0	
DE. ....	33	11	38	16	22	32	7	24	32	5.3	4.3	0.4	0.7	
MD. ....	226	59	249	109	140	212	37	115	189	54.5	39.5	4.3	5.7	
DC. ....	87	22	79	37	42	12	67	49	41	28.7	23.9	2.1	9.1	
VA. ....	281	81	321	141	180	270	51	183	258	57.7	44.2	3.8	5.8	
WV. ....	82	29	80	36	45	70	10	53	75	3.9	2.9	0.3	1.3	
NC. ....	288	130	333	146	186	267	65	208	261	67.5	58.3	2.2	4.5	
SC. ....	133	66	148	65	83	120	28	100	114	31.6	29.2	0.9	2.2	
GA. ....	184	97	231	108	123	178	53	153	176	49.0	43.0	2.3	5.5	
FL. ....	412	98	516	234	281	420	95	253	387	113.7	48.4	54.5	15.2	
E.S.C. ....	614	287	679	306	371	561	118	462	551	117.0	107.2	3.3	11.4	
KY. ....	143	61	160	68	91	129	31	102	147	11.5	9.3	0.7	1.7	
TN. ....	205	88	206	95	111	156	51	138	171	31.8	28.5	1.2	4.1	
AL. ....	164	89	200	94	105	176	23	135	154	42.1	39.0	1.1	3.8	
MS. ....	102	49	113	49	64	100	13	87	79	31.6	30.4	0.3	1.8	
W.S.C. ....	1,099	309	1,284	598	687	1,125	159	751	935	313.2	139.9	132.0	34.4	
AR. ....	78	38	85	37	48	72	13	60	70	12.8	11.4	0.4	1.6	
LA. ....	160	37	176	79	97	149	27	128	123	47.6	41.2	3.3	5.0	
OK. ....	160	50	176	82	95	151	25	101	145	25.1	11.8	2.5	5.7	
TX. ....	701	184	847	400	447	753	94	462	597	227.7	75.5	125.8	22.1	
West. ....	2,978	638	3,032	1,409	1,625	2,664	368	1,471	2,182	750.8	442.5	289.5	100.9	
Mt. ....	658	193	789	376	414	697	90	422	652	116.4	17.8	65.4	20.5	
MT. ....	35	21	36	17	19	31	4	26	32	2.6	0.1	0.3	0.7	
ID. ....	43	12	46	22	24	35	11	31	43	1.8	0.3	0.7	1.2	
WY. ....	21	10	27	12	15	26	1	16	25	1.4	0.3	0.6	0.5	
CO. ....	163	57	186	89	98	163	23	112	158	24.2	5.1	13.5	4.1	
NM. ....	58	28	79	36	43	77	2	44	51	27.4	1.7	20.2	1.4	
AZ. ....	203	39	258	121	137	242	16	109	204	47.0	7.3	26.1	7.1	
UT. ....	94	17	108	57	51	74	33	69	98	5.2	0.6	1.7	4.8	
NV. ....	41	9	49	22	27	49	(Z)	15	41	6.8	2.2	2.3	0.7	
Pac. ....	2,321	445	2,243	1,033	1,211	1,967	277	1,048	1,530	634.4	124.9	224.1	80.4	
WA. ....	304	57	253	113	140	219	34	146	220	28.3	6.5	4.8	5.2	
OR. ....	158	48	156	74	82	137	20	91	138	12.2	2.0	2.6	5.9	
CA. ....	1,791	316	1,754	809	945	1,541	212	771	1,132	556.3	114.4	215.4	65.5	
AK. ....	21	9	28	12	16	27	1	10	24	4.6	1.0	0.5	0.2	
HI. ....	47	15	52	25	28	43	10	30	16	33.0	1.0	0.8	3.6	
U.S. military <sup>4</sup> ....	50	9	44	39	5	44	-	44	36	7.0	5.5	0.8	0.5	
Other:														
American Samoa. ....	1	1	1	(Z)	(Z)	1	-	-	-	0.6	-	-	(Z)	
Guam. ....	3	2	4	2	2	4	-	2	(Z)	3	(Z)	-	(Z)	
No. Marianas. ....	-	1	(Z)	(Z)	(Z)	(Z)	-	(Z)	(Z)	(Z)	-	-	(Z)	
Puerto Rico. ....	131	56	155	59	96	59	96	122	(Z)	154.6	(Z)	154.5	(Z)	
Virgin Islands. ....	2	2	2	1	2	2	-	1	(Z)	2	1.8	(Z)	(Z)	

- Represents zero. Z Less than 500 or 50. <sup>1</sup> Branch campuses counted as separate institutions. <sup>2</sup> Non-Hispanic.

<sup>3</sup> Includes other races not shown separately. <sup>4</sup> Military academies.

Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, annual.

## No. 268. College Freshmen—Summary Characteristics: 1970 to 1989

[In percent. As of fall for first-time full-time freshmen. Based on sample survey and subject to sampling error; see source]

CHARACTERISTIC	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
<b>Sex:</b> Male	55	53	49	49	48	48	48	47	46	46
Female	45	47	51	51	52	52	52	53	54	54
<b>Average grade in high school:</b>										
A- to A+	16	18	21	20	20	21	23	21	24	23
B- to B+	58	60	60	59	58	59	56	59	58	59
C to C+	27	21	19	21	21	20	20	19	19	17
D	1	1	1	1	1	1	1	1	1	1
<b>Political orientation:</b>										
Liberal	34	29	20	19	20	21	22	22	22	22
Middle of the road	45	54	60	60	58	57	56	56	54	54
Conservative	17	15	17	18	19	19	19	18	20	21
<b>Probable field of study:</b>										
Arts and humanities	16	11	9	8	8	8	9	9	10	9
Biological sciences	4	6	4	4	4	4	4	4	4	4
Business	16	19	24	24	26	27	26	27	26	25
Education	11	10	7	8	7	7	8	9	9	9
Engineering	9	8	12	12	11	11	11	10	10	10
Physical science	2	3	3	3	3	2	2	2	2	2
Social science	14	10	7	6	7	8	8	9	9	10
Professional	(NA)	(NA)	15	14	14	13	12	11	12	13
Technical	4	9	6	7	5	5	4	3	2	3
Data processing/computer programming	(NA)	(NA)	2	4	2	2	2	1	1	1
Other	(NA)	(NA)	(NA)	16	16	16	15	16	16	15
Communications	(NA)	(NA)	2	2	2	2	2	3	3	3
Computer science	(NA)	(NA)	1	5	3	2	2	2	2	2
<b>Recipient of financial aid:</b>										
Pell grant	(NA)	27	33	26	20	19	17	17	20	22
Supplemental educational opportunity grant	(NA)	6	8	7	6	5	5	6	6	6
State scholarship or grant	(NA)	19	16	16	14	14	14	16	14	15
College grant	(NA)	29	13	13	17	19	18	13	20	20
Federal guaranteed student loan	(NA)	10	21	15	23	23	25	22	22	23
National direct student loan	(NA)	10	9	5	6	6	7	5	3	2
College loan	(NA)	23	4	4	4	4	4	5	6	8
College work-study grant	(NA)	12	15	14	9	10	10	10	10	10
<b>Attitudes—agree or strongly agree:</b>										
Activities of married women are best confined to home and family	48	28	27	25	23	22	20	26	26	26
Capital punishment should be abolished	56	(NA)	34	29	26	27	26	24	23	21
Legalize marijuana	38	47	39	26	23	22	21	20	19	17
There is too much concern for the rights of criminals	52	53	66	69	(NA)	(NA)	(NA)	68	69	69
Abortion should be legalized	(NA)	(NA)	54	56	54	56	59	59	57	65

- Represents or rounds to zero. NA Not available. <sup>1</sup> Includes other fields of study, not shown separately. <sup>2</sup> 1976 data.Source: The Higher Education Research Institute, University of California, Los Angeles, CA, *The American Freshman: National Norms*, annual.

## No. 269. Foreign (Nonimmigrant) Student Enrollment in Institutions of Higher Education, by Region of Origin, 1976 to 1989, and by Field of Study, 1980 and 1988

[For fall of the previous year]

REGION OF ORIGIN	ENROLLMENT (1,000)										PERCENT ENROLLED IN—					
	1976	1980	1983	1984	1985	1986	1987	1988	1989		Engineering		Science <sup>1</sup>		Business	
											1980	1988	1980	1988	1980	1988
<b>All regions</b>	179	286	337	339	342	344	350	356	366		25	20	8	9	16	18
Africa	25	36	43	42	40	34	32	28	26		20	15	9	7	19	19
Nigeria	11	16	21	20	18	13	12	8	6		19	10	9	6	22	26
Asia	97	165	187	193	200	210	218	224	232		32	25	8	10	16	18
China: Taiwan	11	18	21	22	23	24	26	27	29		17	27	15	11	17	14
Hong Kong	12	10	9	9	10	11	11	11	11		22	20	9	6	26	30
India	10	9	13	14	15	16	18	21	23		31	34	16	12	21	16
Indonesia	1	2	5	6	7	8	9	9	9		27	23	7	4	21	34
Iran	20	51	27	20	17	14	12	10	9		45	31	7	14	11	6
Japan	7	12	14	13	13	13	15	18	24		7	4	5	3	19	18
Malaysia	2	4	14	18	22	23	22	19	16		13	29	14	3	22	31
Saudi Arabia	3	10	9	9	8	7	6	5	5		30	26	4	3	14	16
South Korea	3	5	11	14	16	19	20	21	21		17	19	11	12	15	17
Thailand	7	7	7	7	7	7	6	6	7		17	14	6	5	26	31
Europe	14	23	32	32	33	34	36	39	43		15	12	9	9	14	18
Latin America <sup>3</sup>	30	42	57	52	49	45	43	45	45		20	14	8	6	14	17
Mexico	5	6	7	6	6	5	5	6	6		16	12	7	7	11	17
Venezuela	5	10	15	13	10	7	5	4	3		30	20	8	6	11	18
North America	10	16	15	16	16	16	16	17	8		9	6	7	7	13	16
Canada	10	15	14	15	15	15	16	16	8		9	6	7	7	12	15
Oceania	3	4	4	4	4	4	4	4	4		5	6	7	4	16	20

<sup>1</sup> Physical and life sciences. <sup>2</sup> Includes countries not shown separately. <sup>3</sup> Includes Central America, Caribbean, and South America.Source: Institute of International Education, New York, NY, *Open Doors*, annual. (Copyright.)

## No. 270. Higher Education Registrations in Foreign Languages: 1960 to 1986

[As of fall]

ITEM	1960	1965	1968	1970	1972	1974	1977	1980	1983	1986
<b>Registrations<sup>1</sup> (1,000) . . . . .</b>	<b>2,647.1</b>	<b>1,034.9</b>	<b>1,127.4</b>	<b>1,111.5</b>	<b>1,008.9</b>	<b>946.6</b>	<b>933.5</b>	<b>924.8</b>	<b>966.0</b>	<b>1,003.2</b>
Index (1960=100) . . . . .	100.0	159.9	174.2	171.8	155.9	146.3	144.3	142.9	149.3	155.0
By selected language (1,000):										
Spanish . . . . .	178.7	310.3	364.9	389.2	364.5	362.2	376.7	379.4	386.2	411.3
French . . . . .	228.8	371.6	388.1	359.3	293.1	253.1	246.1	248.4	270.1	275.3
German . . . . .	146.1	213.9	216.3	202.6	177.1	152.1	135.4	126.9	128.2	121.0
Italian . . . . .	11.1	22.9	30.4	34.2	33.3	33.0	33.3	34.8	38.7	40.9
Russian . . . . .	30.6	33.7	40.7	36.1	36.4	32.5	27.8	24.0	30.4	34.0
Latin . . . . .	25.7	39.6	35.0	27.6	24.4	25.2	24.4	25.0	24.2	25.0
Japanese . . . . .	1.7	3.4	4.3	6.6	8.3	9.6	10.7	11.5	16.1	23.5
Ancient Greek . . . . .	212.7	19.5	19.3	16.7	20.6	24.4	25.8	22.1	19.4	17.6
Chinese . . . . .	1.8	3.4	5.1	6.2	10.0	10.6	9.8	11.4	13.2	16.9
Hebrew . . . . .	3.8	8.1	10.2	16.6	21.1	22.4	19.4	19.4	18.2	15.6
Portuguese . . . . .	1.0	3.0	4.0	5.1	4.8	5.1	5.0	4.9	4.4	5.1
Arabic . . . . .	0.5	0.9	1.1	1.3	1.7	2.0	3.1	3.5	3.4	3.4

<sup>1</sup> Includes other foreign languages, not shown separately. <sup>2</sup> Estimated.Source: Association of Departments of Foreign Languages, New York, NY, *ADFL Bulletin*, vol. 19, No. 2, and earlier issues. (Copyright.)

## No. 271. General Education Graduation Requirements in Colleges and Universities: 1984 and 1989

[Refers to requirements in effect for students entering in the academic year ending in year shown. General education is defined as that part of the curriculum that all undergraduates are required to take, regardless of major, in order to graduate. Based on sample data and subject to sampling error. See source for details. Excludes specialized schools such as law and medicine]

ITEM AND ACADEMIC AREA	4-YEAR SCHOOLS						2-YEAR SCHOOLS	
	Total		Control					
			Public		Private			
	1984	1989	1984	1989	1984	1989	1984	1989
Number of schools <sup>1</sup>	1,562		535		1,027		1,245	
With general education requirements . . .	1,504		509		995		1,120	
Credits required for graduation <sup>2</sup> . . . .	125.9	125.8	125.1	125.0	126.3	126.1	64.4	64.3
General education . . . . .	49.4	52.1	42.4	45.5	53.0	55.4	28.8	30.5
Humanities . . . . .	23.5	25.0	17.0	18.3	26.8	28.4	12.0	12.6
SELECTED AREA OF STUDY								
Percent of schools with requirements in—								
Humanities:								
English composition . . . . .	87.2	87.5	94.2	93.3	83.6	84.6	92.2	93.6
English or American Literature . . . . .	51.8	54.8	50.6	52.7	52.3	55.8	26.7	28.0
Foreign languages and literature . . . . .	19.7	23.0	9.0	9.8	25.1	29.8	4.0	4.0
History . . . . .	57.7	62.5	53.1	57.3	60.1	65.2	33.6	34.6
Philosophy . . . . .	34.4	37.7	14.1	18.0	44.8	47.7	6.5	7.4
Classics . . . . .	3.4	4.8	3.8	4.9	3.1	4.7	-	0.6
Other humanities fields . . . . .	49.0	54.1	31.9	33.3	57.7	64.7	28.4	33.6
Unspecified or combination . . . . .	46.8	50.8	49.7	54.2	45.2	49.1	41.9	48.6
Other selected fields:								
Studio and performing arts . . . . .	22.4	25.1	24.4	27.3	21.4	23.9	1.3	5.3
Social sciences . . . . .	73.3	80.2	74.0	76.4	72.9	82.2	63.0	68.5
Mathematics . . . . .	48.3	58.7	52.4	65.0	43.2	55.5	54.5	64.3
Natural and physical sciences . . . . .	59.7	66.6	62.2	70.8	58.5	64.5	49.8	55.5
Mathematics and/or science . . . . .	31.9	32.2	35.1	34.1	30.3	31.3	33.8	36.3
Graduation requirements—minimum credits in— <sup>3</sup>								
Humanities:								
English composition . . . . .	4.5	4.6	5.0	5.1	4.3	4.4	4.5	4.7
English or American literature . . . . .	2.3	2.4	2.3	2.4	2.3	2.4	1.1	1.1
Foreign languages and literature . . . . .	1.8	2.0	0.6	0.6	2.4	2.7	0.2	0.2
History . . . . .	3.2	3.4	2.6	2.9	3.5	3.7	1.8	1.8
Philosophy . . . . .	1.6	1.8	0.4	0.5	2.2	2.4	0.3	0.3
Classics . . . . .	0.1	0.2	0.1	0.2	0.1	0.3	-	-
Other humanities fields . . . . .	5.9	6.2	1.8	2.1	8.0	8.4	1.5	1.8
Unspecified or combination . . . . .	4.1	4.3	4.2	4.6	4.0	4.2	2.5	2.8
Other selected fields:								
Studio and performing arts . . . . .	4.2	4.1	1.9	2.1	5.4	5.1	0.1	0.2
Social sciences . . . . .	5.2	5.6	5.8	6.1	4.9	5.3	4.1	4.3
Mathematics . . . . .	2.0	2.5	2.3	2.7	1.9	2.4	2.5	2.8
Natural and physical sciences . . . . .	4.1	4.5	4.7	5.4	3.7	4.0	3.1	3.3
Mathematics and/or science . . . . .	2.3	2.2	2.4	2.3	2.2	2.2	1.8	2.1

- Represents or rounds to zero. <sup>1</sup> As of spring 1988. <sup>2</sup> Semester hours. <sup>3</sup> Based on all schools with general education requirements, including those with no credit hours required in a particular subject.Source: U.S. National Science Foundation, U.S. National Endowment for the Humanities, and U.S. Department of Education, *Undergraduate General Education and Humanities Requirements*, January 1989.

## No. 272. Higher Education Price Indexes: 1965 to 1989

[1983 = 100. For years ending June 30. Reflects prices paid by colleges and universities]

YEAR	Index, total	Average annual percent change	PERSONAL COMPENSATION				CONTRACTED SERVICES, SUPPLIES AND EQUIPMENT					
			Total	Professional salaries	Nonprofessional salaries	Fringe benefits	Total	Services	Supplies and materials	Equipment	Books, periodicals	Utilities
1965	29.3	4.3	29.8	34.9	31.0	13.7	27.3	35.8	33.8	36.0	19.3	15.7
1970	39.2	6.8	41.4	47.7	38.8	25.7	31.6	42.8	37.6	41.9	25.7	16.3
1975	53.8	8.4	55.5	60.3	54.6	42.4	48.3	56.8	58.0	58.3	46.7	31.8
1977	61.1	6.5	62.8	66.4	63.2	51.9	55.7	63.0	63.8	64.8	57.0	40.5
1978	65.2	6.7	66.8	69.8	68.1	57.0	59.9	66.6	66.6	69.3	61.0	45.9
1979	70.2	7.7	72.0	74.1	73.5	64.6	64.6	70.6	71.7	74.7	67.3	50.3
1980	77.2	9.9	78.0	79.3	80.2	72.0	74.6	76.3	84.6	81.6	77.5	64.1
1981	85.5	10.7	85.4	86.3	87.7	80.9	85.6	85.1	95.6	89.6	85.2	79.7
1982	94.0	10.0	93.7	93.7	94.6	92.9	95.0	94.7	100.4	96.4	94.4	92.4
1983	100.0	6.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1984	105.4	5.4	106.1	104.7	105.1	111.3	102.9	104.7	103.1	102.2	103.6	100.8
1985	111.6	5.9	113.3	111.4	109.1	122.4	106.1	109.3	105.4	104.8	107.5	103.0
1986	116.3	4.2	119.5	118.2	113.0	129.0	106.0	114.4	104.2	106.9	112.6	95.5
1987	120.9	4.0	125.7	125.1	116.2	135.9	106.3	118.1	103.5	108.8	123.6	84.4
1988	126.3	4.4	131.5	131.0	120.3	142.8	109.4	122.4	107.9	110.9	138.1	84.4
1989	134.1	6.2	140.2	139.0	125.6	156.5	114.4	129.2	116.9	115.8	144.1	85.2

<sup>1</sup> Change from immediate prior year.Source: Research Associates of Washington, Washington, DC, *Higher Education Price Indexes*, annual.

## No. 273. Institutions of Higher Education—Finances: 1975 to 1987

[In millions of dollars. For fiscal years ending in year shown. For coverage, see headnote, table 265. See also Appendix III and Historical Statistics, *Colonial Times to 1970*, series H 729-738 and H 747-749]

ITEM	1975	1980	1982	1983	1984	1985	1986	1987		
								Total	Public	Private
<b>Current funds revenues</b>	<b>35,687</b>	<b>58,520</b>	<b>72,191</b>	<b>77,596</b>	<b>84,417</b>	<b>82,473</b>	<b>100,438</b>	<b>109,145</b>	<b>69,613</b>	<b>39,531</b>
Tuition and fees	7,233	11,930	15,774	17,776	19,715	21,283	23,117	25,706	10,199	15,507
Federal Government	4,991	8,903	9,592	9,631	10,406	11,509	12,705	14,239	7,228	7,011
State government	10,857	18,378	21,849	23,066	24,707	27,583	29,912	31,309	30,440	869
Local government	1,424	1,588	1,838	2,031	2,192	2,387	2,545	2,799	2,535	264
Endowment earnings	718	1,177	1,597	1,721	1,874	2,096	2,276	2,378	350	2,028
Private gifts, grants, and contracts	1,745	2,808	3,564	4,053	4,415	4,896	5,411	5,953	2,293	3,660
Educational activities	555	1,239	1,583	1,723	1,971	2,126	2,373	2,642	1,772	870
Auxiliary enterprises	4,080	6,481	8,122	8,770	9,456	10,100	10,674	11,364	7,093	4,271
Other funds revenues	4,083	6,015	8,174	8,826	9,681	10,490	11,426	12,755	7,704	5,050
Plant funds	3,311	4,382	5,185	5,997	6,238	6,737	(NA)	(NA)	(NA)	(NA)
Increase in fund balance	486	2,153	2,224	5,322	2,410	4,653	(NA)	(NA)	(NA)	(NA)
Endowment	229	1,874	2,030	5,875	2,148	4,302	(NA)	(NA)	(NA)	(NA)
Annuity and life income	26	64	49	5,177	69	153	(NA)	(NA)	(NA)	(NA)
Loans	231	215	145	5,269	193	188	(NA)	(NA)	(NA)	(NA)
<b>Current funds expenditures</b>	<b>35,058</b>	<b>56,914</b>	<b>70,339</b>	<b>75,936</b>	<b>81,993</b>	<b>89,951</b>	<b>97,536</b>	<b>106,100</b>	<b>67,654</b>	<b>38,446</b>
Educational and general	27,548	44,543	54,849	58,929	63,741	70,061	76,128	82,956	54,359	28,596
Instruction	11,798	18,497	22,963	24,673	28,436	28,777	31,032	33,711	23,359	10,352
Institutional support	3,057	5,054	6,471	6,951	7,763	8,588	9,351	10,085	6,043	4,042
Research	3,132	5,099	5,930	6,265	6,724	7,552	8,437	9,352	6,259	3,094
Plant operation	2,787	4,700	5,879	6,392	6,730	7,346	7,605	7,819	5,309	2,510
Academic support	2,256	3,876	4,656	5,087	5,531	6,075	6,667	7,575	5,048	2,527
Libraries	1,002	1,624	1,922	2,040	2,231	2,361	2,551	2,441	1,619	822
Student services	1,439	2,567	3,177	3,461	3,798	4,178	4,563	4,976	3,159	1,817
Scholarships and fellowships	1,450	2,200	2,685	2,923	3,302	3,671	4,160	4,776	1,752	3,024
Unrestricted funds	632	905	1,238	1,479	1,738	1,962	2,285	2,645	751	1,894
Restricted funds	818	1,296	1,449	1,444	1,563	1,709	1,875	2,131	1,001	1,131
Public service	1,088	1,817	2,204	2,320	2,499	2,861	3,120	3,448	2,728	721
Mandatory transfers	532	732	784	857	958	1,015	1,192	1,212	704	508
Auxiliary enterprises	4,074	6,486	7,998	8,614	9,250	10,012	10,528	11,037	7,135	3,902
Hospitals	2,351	4,757	6,234	6,988	7,980	8,011	8,692	9,173	5,904	3,269
Independent operations	1,087	1,128	1,259	1,406	1,622	1,868	2,187	2,934	255	2,679
Gross addition to plant value	4,761	5,551	6,975	7,421	7,604	8,306	10,149	(NA)	(NA)	(NA)
Value of plant (grounds, buildings, equipment)	62,183	83,733	94,517	100,993	107,640	114,764	122,261	(NA)	(NA)	(NA)
Endowment (book value)	13,403	18,561	23,085	28,352	29,502	33,399	(NA)	(NA)	(NA)	(NA)

NA Not available. <sup>1</sup> Private grants represent nongovernmental revenue for sponsored research and other sponsored programs; includes private contracts. <sup>2</sup> Sales and service of educational departments only. <sup>3</sup> Includes sales and services of hospitals, federally funded research and development centers, and others sources. <sup>4</sup> Annual net increase in plant funds. <sup>5</sup> 1983 data estimated. <sup>6</sup> Includes mandatory transfers which are primarily current expenditures for plant. <sup>7</sup> Includes maintenance. <sup>8</sup> Includes expenditures from current funds for plant expansion. <sup>9</sup> Includes funds functioning as endowment funds.

Source: U.S. Dept. of Education, National Center for Education Statistics, *Digest of Education Statistics*, annual.

### No. 274. Undergraduate Students Receiving Financial Aid, by Source of Aid, Control, and Level of Institution: 1986-87

[For students enrolled in the fall. Based on survey and subject to sampling error; see source]

ATTENDANCE STATUS, INSTITUTIONAL CONTROL, AND LEVEL	Total enrolled (1,000)	PERCENT RECEIVING AID BY SOURCE					AVERAGE AMOUNT OF AID BY SOURCE (dol.)				
		Any aid <sup>1</sup>	Federal	State	Institutional	Other	Any aid <sup>1</sup>	Federal	State	Institutional	Other
<b>Total full-time, full-year</b>	<b>5,621.3</b>	<b>59.2</b>	<b>47.7</b>	<b>22.1</b>	<b>21.4</b>	<b>7.3</b>	<b>3,813</b>	<b>2,973</b>	<b>1,280</b>	<b>2,098</b>	<b>1,416</b>
Public <sup>2</sup>	3,946.3	52.3	41.9	19.4	13.2	6.3	2,887	2,616	916	1,204	1,137
4-year doctoral	1,744.6	52.7	41.0	17.1	16.6	7.1	3,337	2,970	1,091	1,521	1,336
Other 4-year	1,045.4	55.9	47.2	25.1	11.1	5.9	2,957	2,630	928	996	1,070
2-year	1,104.8	47.4	37.3	17.7	10.3	5.6	2,053	2,008	636	627	819
Private, not for profit <sup>2</sup>	1,392.3	73.4	57.0	31.4	48.2	10.5	5,633	3,525	1,873	2,790	1,777
4-year doctoral	538.0	67.9	52.7	25.0	44.7	9.6	6,509	3,843	2,047	3,691	2,251
Other 4-year	772.2	77.3	59.7	35.7	52.6	11.3	5,265	3,394	1,824	2,319	1,531
2-year	72.9	73.5	58.8	33.3	34.2	8.3	3,957	2,928	1,424	1,776	1,208
Private, for profit	282.7	86.4	82.6	13.3	4.8	4.5	4,025	3,631	1,825	2,182	2,751
<b>Total, all other</b>	<b>5,324.3</b>	<b>30.9</b>	<b>21.4</b>	<b>7.0</b>	<b>6.2</b>	<b>6.4</b>	<b>2,199</b>	<b>2,213</b>	<b>851</b>	<b>1,232</b>	<b>1,009</b>
Public <sup>2</sup>	4,426.8	25.2	16.5	6.3	4.8	5.7	1,718	1,808	623	905	803
4-year doctoral	764.0	34.2	23.6	7.3	9.4	6.3	2,374	2,347	817	1,236	1,308
Other 4-year	617.4	33.1	24.0	9.6	5.7	5.4	1,846	1,903	692	936	606
2-year	2,971.2	21.0	12.9	5.3	3.4	5.6	1,405	1,518	521	680	708
Private, not for profit <sup>2</sup>	597.7	47.6	29.1	11.8	18.2	13.2	3,049	2,559	1,421	1,857	1,457
4-year doctoral	196.5	47.3	27.6	10.2	20.1	15.0	3,750	2,985	1,749	2,587	1,615
Other 4-year	337.6	46.7	28.2	12.3	17.9	13.6	2,769	2,369	1,318	1,465	1,398
2-year	56.4	51.5	35.7	13.0	14.8	5.4	2,241	2,256	1,084	1,117	740
Private, for profit	299.8	81.6	78.6	8.0	3.3	3.1	3,413	3,182	1,755	1,348	2,760

<sup>1</sup> Excludes duplication. Includes students who did not specify source of aid. <sup>2</sup> Includes less than 2-year schools, not shown separately.

Source: U.S. National Center for Education Statistics, *Undergraduate Financing of Postsecondary Education*, May 1988.

### No. 275. Postbaccalaureate Students Receiving Financial Aid by Source of Aid, Level of Study, and Control of Institution: 1986-87

[As of fall. Based on survey and subject to sampling error; see source]

ATTENDANCE STATUS, LEVEL OF STUDY, AND CONTROL OF INSTITUTION	Total students	PERCENT RECEIVING AID BY SOURCE					AMOUNT OF AID BY SOURCE (dol.)				
		Any aid <sup>1</sup>	Federal	State	Institutional	Other	Any aid <sup>1</sup>	Federal	State	Institutional	Other
<b>Total students, full-time</b>	<b>645,571</b>	<b>74.3</b>	<b>44.3</b>	<b>9.9</b>	<b>48.1</b>	<b>3.9</b>	<b>9,602</b>	<b>7,011</b>	<b>3,562</b>	<b>6,354</b>	<b>4,023</b>
Master's level	277,705	68.7	31.9	6.2	47.6	5.9	7,805	4,962	2,735	6,353	3,813
Public institution	171,541	67.5	29.3	6.1	48.0	4.7	6,956	4,314	2,547	6,046	(B)
4-year doctoral	133,975	70.8	28.8	5.3	51.3	4.6	7,452	4,523	(B)	6,596	(B)
Other 4-year	37,566	55.6	31.0	9.1	36.2	5.1	4,706	3,643	(B)	3,112	(B)
Private institution	106,163	70.6	36.1	6.2	47.1	7.9	9,167	5,866	3,031	6,869	4,583
4-year doctoral	85,814	72.1	35.6	6.1	50.6	7.8	9,916	6,183	3,059	7,439	4,934
Other 4-year	20,349	64.2	38.2	6.7	32.1	8.4	5,532	4,559	(B)	3,287	(B)
Doctoral level	96,990	87.9	22.9	5.6	76.3	6.3	10,762	5,795	(B)	9,180	(B)
Public institution	59,207	89.9	22.5	7.0	77.5	6.5	9,219	5,125	(B)	7,731	(B)
Private institution	37,783	84.7	23.7	3.4	74.5	6.0	13,475	6,899	(B)	11,697	(B)
First-professional level	270,876	75.3	64.7	15.2	38.4	1.0	10,717	8,187	3,790	4,322	2,365
Public institution	87,231	75.5	64.6	13.5	32.6	1.2	7,969	6,659	2,871	2,411	(B)
Private institution	183,645	75.2	64.8	16.0	41.2	1.0	12,068	8,934	4,171	5,057	(B)
<b>Total students, part-time</b>	<b>608,577</b>	<b>38.2</b>	<b>10.1</b>	<b>2.0</b>	<b>20.3</b>	<b>11.1</b>	<b>4,989</b>	<b>3,806</b>	<b>2,116</b>	<b>5,774</b>	<b>1,750</b>
Master's level	519,803	35.9	9.2	1.7	17.4	11.9	4,150	3,530	2,011	4,874	1,730
Public institution	330,910	32.7	7.4	2.1	18.7	8.4	3,982	3,271	(B)	4,808	729
4-year doctoral	189,368	35.3	8.3	2.1	19.8	9.7	4,790	3,539	(B)	5,949	733
Other 4-year	141,542	29.1	6.2	2.0	17.2	6.8	2,585	(B)	(B)	2,903	721
Private institution	188,893	41.6	12.4	1.2	15.0	17.9	4,372	3,792	(B)	5,014	2,457
4-year doctoral	109,190	45.1	14.0	1.4	17.6	18.9	4,823	4,108	(B)	5,279	2,892
Other 4-year	79,702	36.9	10.1	0.8	11.5	16.6	3,550	3,152	(B)	4,389	1,748
Doctoral level	69,513	52.4	11.1	2.7	42.3	6.9	8,286	(B)	(B)	8,295	(B)
Public institution	51,418	49.9	11.8	2.8	42.3	5.1	8,084	(B)	(B)	7,881	(B)
Private institution	18,095	59.5	9.1	2.2	42.1	11.7	8,754	(B)	(B)	9,453	(B)
First-professional level	19,261	49.5	30.4	5.3	19.4	7.0	6,462	5,481	(B)	(B)	(B)

B Base too small to meet statistical standards for reliability of a derived figure. <sup>1</sup> Excludes duplication. Includes students who did not specify source of aid.

Source: U.S. National Center for Education Statistics, *Student Financing of Graduate and Professional Education*, March 1989.



### No. 276. Major Federal Student Financial Assistance Programs—Number of Recipients and Funds Utilized, by Type of Program: 1970 to 1991

[For award years July 1 of year shown to the following June 30, except as indicated. Funds utilized exclude operating costs, etc., and represent funds given to students]

PROGRAM	Unit	1970	1980	1985	1986	1987	1988, est.	1989, est.	1990, est.	1991, est.
Pell Grants:										
Number of recipients	1,000	(X)	2,858	2,910	2,709	3,002	3,341	3,302	3,214	3,389
Funds utilized	Mil. dol.	(X)	2,387	3,572	3,496	3,746	4,471	4,863	4,763	4,889
Average grant	Dollars	(X)	835	1,227	1,291	1,248	1,338	1,473	1,482	1,443
Supplemental Educational Opportunity Grants:										
Number of recipients	1,000	253.4	716.5	686.0	631.2	635.3	678.8	633.0	678.0	696.0
Funds utilized	Mil. dol.	134	368	410	399	419	423	442	488	515
Average grant	Dollars	527	513	598	633	659	621	700	720	740
Perkins Loans:										
Number of recipients	1,000	452.0	813.4	700.9	715.8	673.5	692.0	826.5	803.8	694.9
Loan funds utilized	Mil. dol.	241	694	703	763	805	874	884	860	744
Average loan	Dollars	532	853	1,003	1,067	1,195	1,262	1,070	1,070	1,070
Loans in default	Mil. dol.	(NA)	608.1	690.7	771.2	736.0	741.1	(NA)	(NA)	(NA)
Default rate	Percent	(NA)	11.9	7.7	8.0	7.2	6.8	(NA)	(NA)	(NA)
College Work-Study:										
Number of recipients	1,000	425.0	819.1	728.4	689.8	685.5	672.7	835.0	876.0	871.0
Funds utilized	Mil. dol.	200	660	656	629	635	625	780	823	823
Average annual earnings	Dollars	470	806	901	912	926	931	935	940	945
Stafford Loans:										
Number of loans	1,000	1,017	2,904	3,730	3,780	4,381	4,582	4,128	4,134	4,125
Loan funds utilized	Mil. dol.	1,015	6,200	8,839	9,099	11,385	11,965	10,937	10,964	11,019
Average loan	Dollars	998	2,135	2,369	2,407	2,599	2,611	2,649	2,652	2,671
Loans in default	Mil. dol.	(NA)	1,440	4,256	5,614	6,963	8,417	10,458	12,838	15,292
Default rate	Percent	(NA)	10.1	8.9	9.4	9.4	9.2	9.6	10.2	10.6

NA Not available. X Not applicable. <sup>1</sup> For 1970, data represents Educational Opportunity Grants Program. <sup>2</sup> Formerly National Direct Student Loans. <sup>3</sup> Includes institutional matching funds. <sup>4</sup> Loans in default represents all loans in institutions' portfolio. <sup>5</sup> Formerly Guaranteed Student Loans. Beginning with 1985, data include activity under the PLUS (Parent Loans for Undergraduate Students), FISL (Federally Insured Student Loans), and SLS (Supplemental Loans for Students) programs. <sup>6</sup> Represents dollar amount of commitments. <sup>7</sup> As of September 30 of year shown. <sup>8</sup> Cumulative dollar amount of default claims to lenders, minus cumulative collections as a percent of all loans that have ever gone into repayment.

Source: U.S. Dept. of Education, Office of Postsecondary Education, unpublished data.

### No. 277. Finances of Public Institutions of Higher Education, 1986 to 1989, and by State, 1989

[For academic years ending in year shown. Data provided by the State higher education finance officers]

YEAR AND STATE	FTE <sup>1</sup> enrollment (1,000)	APPROPRIATIONS FOR CURRENT OPERATIONS <sup>2</sup>		NET TUITION REVENUES <sup>3</sup>		YEAR AND STATE	FTE <sup>1</sup> enrollment (1,000)	APPROPRIATIONS FOR CURRENT OPERATIONS <sup>2</sup>		NET TUITION REVENUES <sup>3</sup>	
		Total (mil. dol.)	Per FTE <sup>1</sup> student (dol.)	Total (mil. dol.)	Per FTE <sup>1</sup> student (dol.)			Total (mil. dol.)	Per FTE <sup>1</sup> student (dol.)	Total (mil. dol.)	Per FTE <sup>1</sup> student (dol.)
Total, 1986	7,019.7	26,337.2	3,752	7,878.9	1,122	MN	169.4	716.8	4,231	226.8	1,339
Total, 1987	7,128.0	28,020.9	3,931	8,446.5	1,185	MS	84.5	282.5	3,343	123.6	1,463
Total, 1988	7,250.8	29,667.8	4,092	9,212.3	1,271	MO	124.7	501.1	4,017	197.6	1,584
						MT	26.5	92.8	3,502	21.2	800
<b>Total, 1989</b>	<b>7,446.2</b>	<b>31,525.6</b>	<b>4,234</b>	<b>10,056.2</b>	<b>1,351</b>	NE	55.0	199.9	3,632	70.8	1,286
AL	151.8	543.5	3,581	215.7	1,421	NV	25.9	105.9	4,085	28.5	1,099
AK	13.9	137.3	9,879	20.4	1,468	NH	24.6	68.4	2,782	84.4	3,432
AZ	139.3	541.0	3,882	197.8	1,419	NJ	149.7	906.1	6,052	251.2	1,678
AR	59.9	209.5	3,497	81.4	1,359	NM	51.3	234.6	4,574	46.6	909
CA	1,061.1	5,444.0	5,131	557.9	526	NY	430.1	2,713.5	6,309	530.6	1,234
CO	120.2	353.6	2,941	234.9	1,954	NC	245.8	1,042.6	4,242	170.5	694
CT	61.5	390.1	6,343	93.8	1,525	ND	31.1	87.1	2,803	44.9	1,445
DE	21.1	98.0	4,649	82.0	3,890	OH	323.3	1,106.6	3,423	672.2	2,079
DC	9.7	74.3	7,695	6.3	653	OK	103.6	382.9	3,698	115.2	1,113
FL	252.5	1,192.8	4,723	260.6	1,032	OR	98.4	372.8	3,789	129.3	1,314
GA	170.7	722.8	4,235	209.7	1,229	PA	267.7	1,089.2	4,068	738.5	2,758
HI	27.9	208.0	7,458	20.0	717	RI	27.0	126.2	4,671	56.0	2,073
ID	31.5	139.2	4,416	21.2	673	SC	108.2	409.9	3,790	170.0	1,572
IL	354.8	1,275.2	3,595	374.4	1,055	SD	18.2	57.2	3,138	33.3	1,827
IN	161.3	627.8	3,893	297.3	1,844	TN	124.1	545.4	4,396	173.0	1,394
IA	96.6	393.5	4,073	182.3	1,887	TX	577.4	1,705.2	2,953	525.3	910
KS	97.5	363.2	3,725	124.6	1,278	UT	57.3	230.2	4,017	67.3	1,174
KY	103.3	355.0	3,436	137.7	1,333	VT	15.2	35.5	2,337	83.4	5,491
LA	120.4	312.8	2,598	202.1	1,679	VA	198.9	770.9	3,876	347.0	1,745
ME	29.5	153.6	5,207	44.0	1,492	WA	150.8	644.4	4,274	160.9	1,067
MD	153.1	613.9	4,011	253.6	1,657	WV	55.6	162.2	2,918	65.1	1,171
MA	124.9	658.6	5,273	187.5	1,501	WI	188.2	758.0	4,028	333.3	1,771
MI	321.0	1,246.6	3,766	768.1	2,321	WY	20.5	123.4	6,028	16.4	801

<sup>1</sup> Full-time equivalent (FTE). Credit and non-credit program enrollment including summer session. Excludes medical enrollments. <sup>2</sup> State and local appropriations. Includes aid to students attending in-State public institutions. Excludes sums for research, agriculture stations and cooperative extension, and hospitals and medical schools. <sup>3</sup> Excludes appropriated aid to students attending in-State public institutions.

Source: Research Associates of Washington, Washington, DC, *State Profiles: Financing Public Higher Education*, annual.

**No. 278. Institutions of Higher Education—Charges: 1975 to 1990**

[In dollars. Estimated. Data are for the entire academic year ending in year shown. Figures are average charges per full-time equivalent student. Room and board are based on full-time students]

ACADEMIC CONTROL AND YEAR	TUITION AND REQUIRED FEES				BOARD RATES				DORMITORY CHARGES			
	All institutions	2-yr. col-leges	4-yr. col-leges	Other 4-yr. schools	All institutions	2-yr. col-leges	4-yr. col-leges	Other 4-yr. schools	All institutions	2-yr. col-leges	4-yr. col-leges	Other 4-yr. schools
<b>Public:</b>												
1975 . . . . .	432	277	599	448	625	638	634	613	506	424	527	497
1980 . . . . .	583	355	840	662	867	894	898	833	715	572	749	703
1985 . . . . .	971	584	1,386	1,117	1,241	1,302	1,276	1,201	1,196	921	1,237	1,200
1988 . . . . .	1,218	706	1,726	1,407	1,454	1,417	1,482	1,434	1,378	943	1,410	1,409
1989 . . . . .	1,285	730	1,846	1,515	1,533	1,488	1,576	1,504	1,457	965	1,483	1,506
1990, prel. . . . .	1,367	758	2,006	1,631	1,632	1,611	1,715	1,566	1,757	1,128	1,845	1,773
<b>Private:</b>												
1975 . . . . .	2,117	1,367	2,614	1,954	700	660	771	666	586	564	691	536
1980 . . . . .	3,130	2,062	3,811	3,020	955	924	1,078	911	827	769	999	768
1985 . . . . .	5,314	3,485	6,843	5,135	1,462	1,294	1,647	1,405	1,426	1,424	1,753	1,309
1988 . . . . .	6,988	4,161	8,771	6,574	1,775	1,537	2,060	1,687	1,748	1,380	2,244	1,593
1989 . . . . .	7,461	4,817	9,451	7,172	1,880	1,609	2,269	1,762	1,849	1,540	2,353	1,686
1990, prel. . . . .	8,174	5,324	10,400	7,815	1,996	1,656	2,382	1,871	2,159	1,953	2,583	2,028

<sup>1</sup> Beginning 1988, rates reflect 20 meals per week, rather than meals served 7 days a week.

Source: U.S. Department of Education, National Center for Education Statistics, *Digest of Education Statistics*, annual.

**No. 279. Voluntary Financial Support of Higher Education: 1970 to 1989**

[For school years ending in years shown; enrollment as of fall of preceding year. Voluntary support, as defined in Gift Reporting Standards, excludes income from endowment and other invested funds as well as all support received from Federal, State, and local governments and their agencies]

ITEM	Unit	1970	1980	1983	1984	1985	1986	1987	1988	1989
<b>Estimated support, total <sup>1</sup></b>	<b>Mill. dol</b>	<b>1,780</b>	<b>3,800</b>	<b>5,160</b>	<b>5,600</b>	<b>6,320</b>	<b>7,400</b>	<b>8,500</b>	<b>8,200</b>	<b>8,925</b>
Foundations . . . . .	Mill. dol.	484	903	1,018	1,081	1,175	1,363	1,513	1,607	1,742
Individuals . . . . .	Mill. dol.	822	1,757	2,427	2,621	2,876	3,606	4,412	3,969	4,369
Alumni . . . . .	Mill. dol.	381	910	1,237	1,305	1,460	1,825	2,346	2,042	2,292
Business corporations . . . . .	Mill. dol.	269	696	1,112	1,271	1,574	1,702	1,819	1,853	1,947
Religious denominations . . . . .	Mill. dol.	102	155	206	190	208	211	204	119	237
Current operations . . . . .	Mill. dol.	951	2,250	3,125	3,405	3,800	4,022	4,420	4,666	5,045
Capital purposes . . . . .	Mill. dol.	829	1,550	2,035	2,195	2,520	3,378	4,080	3,534	3,880
Enrollment, higher education . . . . .	1,000 .	8,094	11,570	12,426	12,465	12,242	12,247	12,504	12,768	13,043
Support per student . . . . .	Dollars.	220	328	415	449	516	604	680	642	684
In 1982-84 dollars . . . . .	Dollars.	582	423	423	441	488	558	609	544	554
Expenditures, higher education . . . . .	Bil. dol.	24.7	62.5	83.3	89.6	98.3	105.7	115.9	123.7	131.4
Expenditures per student . . . . .	Dollars.	3,052	5,402	6,704	7,188	8,030	8,631	9,268	9,688	10,074
In 1982-84 dollars . . . . .	Dollars.	8,074	6,970	6,834	7,061	7,590	7,948	8,305	8,210	8,157
Institutions reporting support . . . . .	Number	1,045	1,019	1,137	1,118	1,114	1,194	1,174	1,142	1,132
<b>Total support reported</b>	<b>Mill. dol</b>	<b>1,472</b>	<b>3,055</b>	<b>4,368</b>	<b>4,686</b>	<b>5,295</b>	<b>6,332</b>	<b>7,323</b>	<b>7,041</b>	<b>7,546</b>
Private 4-year institutions . . . . .	Mill. dol	1,154	2,178	2,968	3,146	3,522	4,164	4,844	4,466	4,847
Public 4-year institutions . . . . .	Mill. dol.	292	856	1,362	1,504	1,728	2,104	2,413	2,506	2,625
Two-year colleges . . . . .	Mill. dol.	26	20	38	35	45	64	65	69	74

<sup>1</sup> Includes other contributions not shown separately.

Source: Council for Aid to Education, New York, NY, *Voluntary Support of Education*, annual.

**No. 280. Institutions of Higher Education—Average Salaries and Fringe Benefits for Faculty Members, by Type of Control: 1970 to 1990**

[In thousands of dollars. For academic year ending in year shown. Figures are for 9 months teaching for full-time faculty members in 4-year colleges and universities]

TYPE OF CONTROL AND ACADEMIC RANK	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989	1990
<b>AVERAGE SALARIES</b>											
<b>Public:</b> All ranks . . . . .	13.1	16.6	22.1	26.6	29.4	31.2	33.4	35.8	37.2	39.6	41.6
Professor . . . . .	17.3	21.7	28.8	36.0	37.1	39.6	42.3	45.3	47.2	50.1	53.2
Associate professor . . . . .	13.2	16.7	21.9	27.5	28.4	30.2	32.2	34.2	35.6	37.9	40.3
Assistant professor . . . . .	10.9	13.7	18.0	22.6	23.5	25.0	26.7	28.5	29.6	31.7	33.5
Instructor . . . . .	9.1	11.2	14.8	17.7	19.1	19.5	20.9	21.8	22.2	23.9	25.0
<b>Private:</b> All ranks . . . . .	13.1	16.6	22.1	29.2	31.1	33.0	35.4	37.8	39.7	42.4	45.1
Professor . . . . .	17.8	22.4	30.1	38.8	41.5	44.1	47.0	50.3	52.2	55.9	59.6
Associate professor . . . . .	12.6	16.0	21.0	27.5	29.4	30.9	32.9	34.9	36.6	38.8	41.2
Assistant professor . . . . .	10.3	13.0	17.0	22.1	23.7	25.0	26.8	28.3	30.1	31.9	34.0
Instructor . . . . .	8.6	10.9	13.3	17.8	18.4	19.0	19.8	20.4	22.7	24.1	26.0
<b>AVERAGE FRINGE BENEFITS</b>											
All ranks combined:											
Public . . . . .	1.9	2.5	3.9	5.4	6.0	7.0	7.3	7.8	8.2	9.0	9.8
Private . . . . .	2.2	2.8	4.1	5.7	6.4	7.2	8.0	8.6	9.2	10.0	10.9

<sup>1</sup> Excludes church-related colleges and universities.

Source: Marysey Eymonerie Associates, Hilton Head, SC, American Association of University Professors, *AAUP Annual Report on the Economic Status of the Profession*.

### No. 281. Institutions of Higher Education—Tenure Status of Full-Time Faculty, by Type of Institution and Rank of Faculty: 1988

[Data are for those institutions of higher education reporting tenure status. Excludes schools with no tenure]

CONTROL OF INSTITUTION AND STATUS	TYPE OF INSTITUTION				RANK OF FACULTY				
	Total <sup>1</sup>	University	Other 4-yr. colleges	2-yr. colleges	Professor	Associate professor	Assistant professor	Instructor	Lecturer
<b>PUBLIC</b>									
Total faculty	254,959	91,642	117,287	46,030	84,811	66,472	58,763	16,062	6,091
With tenure	171,955	61,867	75,769	34,319	81,621	55,983	15,142	1,417	629
Percent	67.4	67.5	64.6	74.6	96.2	84.2	25.8	8.8	10.3
<b>PRIVATE</b>									
Total faculty	95,348	32,795	61,457	1,096	32,485	27,011	27,163	5,712	1,497
With tenure	55,611	20,606	34,465	540	30,693	20,216	3,914	132	36
Percent	58.3	62.8	56.1	49.3	94.5	74.8	14.4	2.3	2.5

<sup>1</sup> Includes instructional faculty with no academic rank, not shown separately.

Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, annual.

### No. 282. Salary Offers to Candidates for Degrees, by Field of Study: 1980 to 1990

[In dollars. Data are average beginning salaries based on offers made by business, industrial, government, and nonprofit and educational employers to graduating students. Data from representative colleges throughout the United States]

FIELD OF STUDY	BACHELOR'S				MASTER'S <sup>1</sup>				DOCTOR'S			
	Monthly salary		Annual salary		Monthly salary		Annual salary		Monthly salary		Annual salary	
	1980	1988	1989	1990	1980	1988	1989	1990	1980	1988	1989	1990
Accounting	1,293	2,010	25,290	26,496	1,517	2,290	28,874	29,695	(NA)	(NA)	(NA)	(NA)
Business, general <sup>2</sup>	1,218	1,772	22,274	23,318	1,795	2,791	33,903	36,242	(NA)	(NA)	(NA)	(NA)
Marketing <sup>3</sup>	1,145	1,757	22,523	23,447	1,794	2,608	34,462	35,903	(NA)	(NA)	(NA)	(NA)
Engineering:												
Civil	1,554	2,119	26,735	28,040	1,753	2,467	30,723	32,260	2,089	3,144	37,214	43,632
Chemical	1,801	2,584	32,949	35,084	1,947	2,871	36,131	38,055	2,452	3,800	47,853	50,570
Computer engineering	(NA)	(NA)	30,413	31,212	(NA)	(NA)	37,183	34,395	(NA)	(NA)	53,380	(NA)
Electrical <sup>4</sup>	1,690	2,474	30,661	31,817	1,912	3,008	36,435	37,376	2,534	4,116	48,666	52,887
Mechanical	1,703	2,451	30,539	32,166	1,893	2,840	35,260	36,964	2,426	3,853	45,893	48,708
Nuclear <sup>5</sup>	1,668	2,373	31,281	30,865	1,831	2,655	34,024	36,635	(NA)	(NA)	(NA)	(NA)
Petroleum	1,987	2,672	32,987	35,448	(NA)	(NA)	38,475	38,067	(NA)	(NA)	(NA)	(NA)
Engineering technology	1,585	2,290	28,310	28,905	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemistry	1,459	2,192	26,698	28,226	1,686	2,664	32,157	31,907	2,261	3,415	43,215	45,393
Mathematics <sup>6</sup>	1,475	2,237	26,789	26,686	1,685	2,446	31,498	30,345	2,199	3,590	37,500	37,833
Physics	(NA)	2,378	28,296	29,530	(NA)	3,194	29,889	30,560	2,303	3,447	42,632	41,361
Humanities	1,074	1,630	23,010	23,659	1,309	1,674	25,799	(NA)	(NA)	(NA)	(NA)	(NA)
Social sciences <sup>7</sup>	1,072	1,881	20,205	22,179	1,298	1,920	23,814	(NA)	(NA)	(NA)	(NA)	(NA)
Computer science	1,558	2,276	28,557	29,730	1,858	2,866	35,823	36,656	(NA)	3,917	50,049	53,050

NA Not available. <sup>1</sup> Candidates with 1 year or less of full-time nonmilitary employment. <sup>2</sup> For master's degree, offers are after nontechnical undergraduate degree. <sup>3</sup> Includes distribution. <sup>4</sup> Includes computer engineering through 1988. <sup>5</sup> Includes engineering physics. <sup>6</sup> Beginning 1989, excludes actuarial. <sup>7</sup> Excludes economics.

Source: College Placement Council, Inc., Bethlehem, PA, Salary Survey, *A Study of Beginning Offers*, annual. (Copyright.)

### No. 283. Earned Degrees Conferred, by Level of Degree and Sex, 1950 to 1988 and Projections 1990 and 1995

[In thousands, except percent. Beginning 1960, includes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1970*, series H-751-763 for similar data. See also Appendix III]

YEAR ENDING	DEGREES		ASSOCIATE'S		BACHELOR'S		MASTER'S		FIRST PROFESSIONAL		DOCTOR'S	
	Total	Percent male	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
1950 <sup>1</sup>	497	75.7	(NA)	(NA)	329	103	41	17	(NA)	(NA)	6	1
1960 <sup>1</sup>	477	65.8	(NA)	(NA)	254	138	51	24	(NA)	(NA)	9	1
1970	1,271	59.2	117	89	451	341	126	83	33	2	26	4
1975	1,668	56.1	191	169	505	418	162	131	49	7	27	7
1980	1,731	51.1	184	217	474	456	151	147	53	17	23	10
1981	1,752	50.3	189	228	470	465	147	149	53	19	23	10
1982	1,788	49.8	197	238	473	480	146	150	52	20	22	10
1983	1,822	49.6	207	249	479	490	145	145	51	22	22	11
1984	1,819	49.6	203	250	482	492	144	141	51	23	22	11
1985	1,828	49.3	203	252	483	497	143	143	50	25	22	11
1986	1,830	49.0	196	250	486	502	144	145	49	25	22	12
1987	1,825	48.4	192	246	481	510	141	148	47	25	22	12
1988, prel.	1,833	48.0	190	245	477	517	145	154	45	25	23	12
1990, proj.	1,905	47.7	201	257	481	536	156	163	48	27	23	13
1995, proj.	1,942	47.5	198	260	502	545	154	170	48	29	21	15

NA Not available. <sup>1</sup> First-professional degrees are included with bachelor's degrees.

Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, annual.

**No. 284. Earned Degrees Conferred, by Field of Study and Level of Degree:  
1971 to 1988**

LEVEL AND FIELD OF STUDY	1971	1980	1984	1985	1986	1987	1988	PERCENT FEMALE	
								1971	1988
<b>Bachelor's, total</b>	<b>839,730</b>	<b>929,417</b>	<b>974,309</b>	<b>979,477</b>	<b>987,823</b>	<b>991,339</b>	<b>993,362</b>	<b>43.4</b>	<b>52.0</b>
Agriculture and natural resources	12,672	22,802	19,317	18,107	16,823	14,991	14,222	4.2	31.5
Architecture and environmental design	5,570	9,132	9,186	9,325	9,119	8,922	8,606	11.9	38.7
Area and ethnic studies	2,582	2,840	2,879	2,867	3,060	3,340	3,463	52.4	59.8
Business and management	114,865	185,361	230,031	233,351	238,160	241,156	243,344	9.1	46.7
Communications <sup>1</sup>	10,802	26,616	40,165	42,083	43,091	45,408	46,705	35.3	60.2
Computer and information sciences	2,388	11,154	32,172	38,878	41,889	39,664	34,548	13.6	32.4
Education	176,614	118,169	92,382	88,161	87,221	87,115	91,013	74.5	76.9
Engineering <sup>1</sup>	50,046	68,893	94,444	96,105	95,953	93,074	88,791	0.8	13.7
Foreign languages	19,945	11,133	9,479	9,954	10,102	10,184	10,028	74.6	72.8
Health sciences	25,190	63,607	64,338	64,513	64,535	63,206	60,095	77.1	85.4
Home economics	11,167	18,411	16,316	15,555	15,288	14,942	14,825	97.3	91.7
Law	545	683	1,272	1,157	1,197	1,178	1,303	5.0	68.3
Letters	64,933	33,497	33,739	34,091	35,434	37,133	39,503	65.5	66.7
Liberal/general studies	5,461	20,069	18,815	19,191	19,248	21,365	21,796	29.0	56.4
Library and archival sciences	1,013	398	255	202	157	139	123	92.0	86.2
Life sciences	35,743	46,370	38,640	38,445	38,524	38,114	36,761	29.1	50.3
Mathematics	24,801	11,378	13,211	15,146	16,306	16,489	15,888	38.0	46.4
Military sciences	357	251	195	299	256	383	349	0.3	5.2
Multi/interdisciplinary studies	8,306	14,404	16,734	15,727	15,700	16,402	17,366	28.4	52.8
Parks and recreation	1,621	5,753	4,752	4,593	4,433	4,107	4,081	34.7	58.8
Philosophy, religion, and theology	11,890	13,276	12,349	12,439	11,841	11,686	11,543	25.5	30.3
Physical sciences	21,412	23,410	23,871	23,732	21,731	19,974	17,776	13.8	30.4
Psychology	37,880	41,962	39,872	39,811	40,521	42,668	44,961	44.5	70.0
Protective services	2,045	15,015	12,654	12,510	12,704	12,930	13,369	9.2	37.5
Public affairs	6,252	18,422	14,396	13,838	13,878	14,161	14,232	60.2	68.1
Social sciences <sup>2</sup>	155,236	103,519	93,212	91,461	93,703	96,185	100,270	36.8	43.9
Visual and performing arts	30,394	40,892	39,833	37,936	36,949	36,223	36,600	59.7	61.5
Unclassified	-	-	-	-	-	-	1,801	(X)	27.2
<b>Master's, total</b>	<b>230,590</b>	<b>298,081</b>	<b>324,263</b>	<b>286,251</b>	<b>288,587</b>	<b>289,557</b>	<b>296,733</b>	<b>40.1</b>	<b>51.5</b>
Agriculture and natural resources	2,457	3,976	4,178	3,928	3,801	3,523	3,479	5.9	30.2
Architecture and environmental design	1,705	3,139	3,223	3,275	3,260	3,142	3,158	13.8	35.4
Area and ethnic studies	1,032	852	888	879	927	851	905	38.3	45.3
Business and management	26,481	55,006	66,653	67,527	67,137	67,496	69,630	3.9	33.5
Communications <sup>1</sup>	1,856	3,082	3,656	3,669	3,823	3,937	3,932	34.6	60.0
Computer and information sciences	1,588	3,647	6,190	7,101	8,070	8,491	9,166	10.3	26.9
Education	88,952	103,951	77,187	76,137	76,353	75,501	77,704	56.2	75.1
Engineering <sup>1</sup>	16,443	16,243	320,661	21,557	21,661	22,693	23,426	1.1	12.5
Foreign languages	4,755	2,236	1,773	1,724	1,721	1,746	1,847	65.5	68.1
Health sciences	5,445	15,068	17,443	17,383	18,624	18,426	18,523	55.9	78.3
Home economics	1,452	2,690	2,422	2,382	2,298	2,070	2,059	93.9	88.1
Law	955	1,817	1,802	1,796	1,924	1,943	1,880	4.8	26.3
Letters	11,148	6,807	5,818	5,934	6,291	6,123	6,171	60.2	65.8
Liberal/general studies	549	1,373	1,173	1,180	1,154	1,126	1,342	44.3	61.9
Library and archival sciences	7,001	5,374	3,805	3,893	3,626	3,815	3,713	81.3	78.7
Life sciences	5,728	6,510	5,406	5,059	5,013	4,954	4,769	33.6	49.3
Mathematics	5,191	2,860	2,741	2,882	3,159	3,321	3,423	29.2	40.1
Military sciences	2	46	127	119	83	83	49	-	2.0
Multi/interdisciplinary studies	1,157	3,579	3,148	3,184	3,104	3,041	3,097	10.9	41.9
Parks and recreation	218	647	555	544	495	476	461	29.8	55.5
Philosophy, religion, and theology	4,036	5,126	6,259	5,519	5,630	5,989	5,873	27.1	34.7
Physical sciences	6,367	5,219	5,576	5,796	5,902	5,652	5,727	13.3	24.7
Psychology	4,431	7,806	8,002	8,408	8,293	8,204	7,862	37.2	67.1
Protective services	194	1,805	1,219	1,235	1,074	1,019	1,024	10.3	29.0
Public affairs	8,215	18,413	15,373	16,045	16,300	17,032	17,150	49.2	63.1
Social sciences <sup>2</sup>	16,476	12,101	10,465	10,380	10,428	10,397	10,293	28.5	39.4
Visual and performing arts	6,675	8,708	8,520	8,714	8,416	8,506	7,925	47.4	56.6
Unclassified	-	-	-	-	-	-	4,144	(X)	54.8
<b>Doctorate's, total</b>	<b>32,107</b>	<b>32,615</b>	<b>33,209</b>	<b>32,943</b>	<b>33,653</b>	<b>34,120</b>	<b>34,839</b>	<b>14.3</b>	<b>35.2</b>
Agriculture and natural resources	1,086	991	1,172	1,213	1,158	1,049	1,142	2.9	18.9
Architecture and environmental design	36	79	84	89	73	92	98	8.3	32.7
Area and ethnic studies	144	151	139	137	157	132	142	16.7	50.0
Business and management	807	792	977	866	969	1,098	1,109	2.9	23.1
Communications <sup>1</sup>	145	193	219	234	223	275	236	13.1	45.8
Computer and information sciences	128	240	251	248	344	374	428	16.4	11.2
Education	6,403	7,941	7,473	7,151	7,110	6,909	6,544	21.2	55.0
Engineering <sup>1</sup>	3,638	2,507	2,981	3,230	3,410	3,820	4,191	0.6	7.0
Foreign languages	781	549	462	437	448	441	411	38.0	56.2
Health sciences	459	771	1,163	1,199	1,241	1,213	1,247	16.3	56.7
Home economics	123	192	279	276	311	297	309	61.0	73.5
Law	20	40	121	105	54	120	89	-	25.8
Letters	1,857	1,500	1,215	1,239	1,215	1,181	1,180	28.0	54.9
Life sciences	3,645	3,636	3,437	3,432	3,358	3,423	3,598	16.3	35.2
Mathematics	1,199	724	695	699	742	725	752	7.8	16.8
Multi/interdisciplinary studies	80	295	378	285	319	276	261	13.8	36.0
Philosophy, religion, and theology	866	1,693	1,644	1,608	1,660	1,658	1,612	5.8	14.0
Physical sciences	4,390	3,089	3,306	3,403	3,551	3,672	3,804	5.6	18.0
Psychology	1,782	2,768	2,973	2,908	3,088	3,123	2,988	24.0	54.3
Public affairs	185	372	421	431	385	398	470	23.8	49.4
Social sciences <sup>2</sup>	3,659	3,219	2,911	2,851	2,955	2,916	2,783	13.9	33.5
Visual and performing arts	621	655	728	693	722	792	728	22.2	41.3
Other and unclassified	53	218	180	209	160	136	717	28.3	42.0

- Represents zero. X Not applicable. <sup>1</sup> Includes technologies. <sup>2</sup> Includes history. <sup>3</sup> Data revised since originally published.

Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, annual.

## No. 285. Degrees Conferred in Selected Professions: 1960 to 1988

[First professional degrees. See Appendix III]

TYPE OF DEGREE AND SEX OF RECIPIENT	1960	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988 <sup>1</sup>
<b>Medicine (M.D.):</b>											
Institutions conferring degrees.	79	86	104	112	119	118	119	120	120	122	120
Degrees conferred, total.	7,032	8,314	12,447	14,902	15,814	15,484	15,813	16,041	15,938	15,620	15,091
Men.	6,645	7,615	10,818	11,416	11,867	11,350	11,359	11,167	11,022	10,566	10,107
Women	387	699	1,629	3,486	3,947	4,134	4,454	4,874	4,916	5,054	4,984
Percent of total.	5.5	8.4	13.1	23.4	25.0	26.7	28.2	30.4	30.8	32.4	33.0
<b>Dentistry (D.D.S. or D.M.D.):</b>											
Institutions conferring degrees.	45	48	52	58	58	59	60	59	59	58	55
Degrees conferred, total.	3,247	3,718	4,773	5,258	5,282	5,585	5,353	5,339	5,046	4,741	4,351
Men.	3,221	3,684	4,627	4,558	4,467	4,631	4,302	4,233	3,907	3,603	3,216
Women	26	34	146	700	815	954	1,051	1,106	1,139	1,138	1,135
Percent of total.	0.8	0.9	3.1	13.3	15.4	17.1	19.6	20.7	22.6	24.0	26.1
<b>Law (LL.B. or J.D.):</b>											
Institutions conferring degrees.	134	145	154	179	180	177	179	181	181	180	180
Degrees conferred, total.	9,240	14,916	29,296	35,647	35,991	36,853	37,012	37,491	35,844	36,172	35,469
Men.	9,010	14,115	24,881	24,893	23,965	23,550	23,382	23,070	21,874	21,643	21,124
Women	230	801	4,415	10,754	12,026	13,303	13,630	14,421	13,970	14,529	14,345
Percent of total.	2.5	5.4	15.1	30.2	33.4	36.1	36.8	38.5	39.0	40.2	40.4
<b>Theological (B.D., M.Div., M.H.L.):</b>											
Institutions conferring degrees.	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Degrees conferred, total.	(NA)	5,298	5,095	7,115	6,901	6,494	6,878	7,221	7,283	7,181	6,474
Men.	(NA)	5,175	4,748	6,133	5,817	5,395	5,673	5,886	5,865	5,794	5,088
Women	(NA)	123	347	982	1,084	1,099	1,205	1,335	1,418	1,387	1,386
Percent of total.	(NA)	2.3	6.8	13.8	15.7	16.9	17.5	18.5	19.5	19.3	21.4

NA Not available. <sup>1</sup> Preliminary.Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, annual.

## No. 286. Graduate Student Enrollment and Degrees Conferred in Selected Fields, by Race/Ethnicity: 1987

ITEM	NUMBER				PERCENT DISTRIBUTION			
	Total	Minority <sup>1</sup>	White <sup>2</sup>	Non-resident alien <sup>3</sup>	Total	Minority <sup>1</sup>	White <sup>2</sup>	Non-resident alien <sup>3</sup>
Graduate enrollment (1,000).	1,432	166	1,130	136	100.0	11.6	78.9	9.5
Degrees conferred: <sup>4</sup>								
Masters	289,341	30,573	228,870	29,898	100.0	10.6	79.1	10.3
Doctorates	34,033	3,011	24,435	6,587	100.0	8.8	71.8	19.4
SELECTED FIELD								
Agriculture and natural resources:								
Masters	3,521	187	2,536	798	100.0	5.3	72.0	22.7
Doctorates	1,048	67	650	331	100.0	6.4	62.0	31.6
Business and management:								
Masters	67,504	6,721	53,582	7,201	100.0	10.0	79.4	10.7
Doctorates	1,094	91	688	315	100.0	8.3	62.9	28.8
Computer and info. systems:								
Masters	8,481	1,211	5,053	2,217	100.0	14.3	59.6	26.1
Doctorates	374	29	219	126	100.0	7.8	58.6	33.7
Engineering:								
Masters	22,046	2,694	13,343	6,009	100.0	12.2	60.5	27.3
Doctorates	3,807	358	1,672	1,777	100.0	9.4	43.9	46.7
Mathematics:								
Masters	3,319	327	2,113	879	100.0	9.9	63.7	26.5
Doctorates	723	56	349	318	100.0	7.7	48.3	44.0
Physical sciences:								
Masters	5,630	450	4,062	1,118	100.0	8.0	72.1	19.9
Doctorates	3,671	255	2,441	975	100.0	6.9	66.5	26.6
Social sciences:								
Masters	10,395	934	7,441	2,020	100.0	9.0	71.6	19.4
Doctorates	2,915	244	2,051	620	100.0	8.4	70.4	21.3

<sup>1</sup> American Indian/Alaskan native, Non-Hispanic Black, Asian/Pacific Islander and Hispanic. <sup>2</sup> Non-Hispanic. <sup>3</sup> A person who is not a citizen or national of the U.S. who is in the country on a temporary basis and does not have the right to remain indefinitely. <sup>4</sup> Includes degrees conferred in fields not shown separately. Excludes 216 masters degrees and 87 doctorate degrees for which racial/ethnic group was not available.

Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, 1989. (Data are collected biennially.)

**No. 287. Earned Degrees Below Bachelor's, by Curriculum: 1984 to 1988**

[Covers associate degrees and other awards based on post-secondary curriculums of less than 4 years in institutions of higher education]

FIELD OF STUDY	1984	1985	1986	1987	1988	PERCENT FEMALE				
						1984	1985	1986	1987	1988
<b>All degrees . . . . .</b>	<b>610,332</b>	<b>614,749</b>	<b>604,634</b>	<b>590,683</b>	<b>601,713</b>	<b>54.3</b>	<b>61.4</b>	<b>55.7</b>	<b>55.0</b>	<b>55.3</b>
Agriculture and natural resources . . . . .	10,641	10,466	9,263	8,680	8,769	28.9	29.6	29.5	30.2	30.2
Architecture and environmental design . . . . .	1,927	1,939	2,016	2,260	2,520	84.3	82.5	85.6	87.2	87.4
Area and ethnic studies . . . . .	64	69	115	266	172	60.9	71.0	39.1	89.1	86.6
Business and management . . . . .	166,238	170,170	168,168	161,813	158,844	66.5	68.4	70.3	72.3	72.2
Communications . . . . .	4,162	4,580	4,528	4,561	4,414	43.2	39.7	40.9	40.2	42.2
Computer and information sciences . . . . .	16,111	15,896	13,307	11,972	11,936	49.1	49.3	49.5	49.0	49.7
Education . . . . .	8,503	8,551	8,354	8,095	7,958	72.2	70.9	71.0	72.6	70.1
Engineering <sup>1</sup> . . . . .	100,080	100,146	97,609	97,731	104,036	7.9	7.6	8.1	8.2	7.8
Foreign languages . . . . .	372	427	526	484	584	57.5	49.6	50.2	48.1	50.9
Health sciences . . . . .	107,142	107,248	104,051	96,261	96,119	87.0	86.7	86.4	86.2	85.7
Home economics . . . . .	14,344	14,966	14,760	14,333	15,142	75.0	74.5	72.6	72.2	71.6
Law . . . . .	2,551	2,948	3,259	3,728	4,661	83.1	84.3	83.8	87.6	87.9
Letters . . . . .	822	681	812	574	574	64.8	65.9	62.7	67.0	67.1
Liberal/general studies . . . . .	109,451	107,814	109,529	109,764	114,882	54.9	55.5	56.4	57.2	57.5
Library and archival sciences . . . . .	260	253	208	203	165	86.2	89.7	88.0	89.2	89.1
Life sciences . . . . .	1,297	1,205	1,080	1,136	980	52.4	60.8	56.2	48.5	54.0
Mathematics . . . . .	821	813	705	691	695	36.4	37.8	38.3	36.8	36.8
Military sciences . . . . .	87	34	<sup>2</sup> 1,000	<sup>2</sup> 1,009	141	4.6	-	3.3	2.3	14.2
Multi/interdisciplinary studies . . . . .	8,398	8,697	9,873	9,842	11,053	54.5	53.8	54.2	53.4	54.8
Parks and recreation . . . . .	819	893	787	660	717	50.9	51.8	50.4	49.7	51.0
Philosophy, religion, and theology . . . . .	1,740	1,830	1,810	1,371	1,427	44.3	47.8	40.2	44.6	45.8
Physical sciences . . . . .	2,990	2,296	2,230	2,179	1,998	34.7	36.3	39.8	38.7	40.7
Psychology . . . . .	1,147	1,032	1,005	1,068	1,105	67.0	68.4	68.8	71.3	71.5
Protective services . . . . .	15,554	16,057	15,592	17,786	17,832	23.8	23.8	25.2	24.7	23.9
Public affairs . . . . .	5,812	6,230	6,245	6,478	7,007	47.2	40.8	42.9	40.8	37.4
Social sciences . . . . .	2,755	2,613	2,753	2,782	2,915	57.1	57.3	58.3	57.9	56.8
Visual and performing arts . . . . .	26,244	24,358	24,015	24,327	23,107	32.7	31.7	32.9	33.2	34.9
Undistributed . . . . .	-	2,537	1,034	629	1,960	(X)	59.6	59.6	58.8	72.3

- Represents zero. X Not applicable. <sup>1</sup> includes technologies. <sup>2</sup> includes a certificate program.

Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, annual.

**No. 288. High School Graduates Completing College: 1976 to 1986**

[Cumulative percent of 1972, 1980 and 1982 high school graduates completing college. For highest level of degree attained. Based on survey and subject to sampling error, see source]

STUDENT CHARACTERISTIC	1972 HIGH SCHOOL SENIORS						1980 HIGH SCHOOL SENIORS			1982 high school seniors, 1-2 year degrees by Feb. 1986
	1-2 year degrees by June—			Bachelor's degrees by June—			1-2 year degrees by Feb.—	Bachelor's degrees by Feb.—		
	1976	1982	1986	1976	1980	1986	1984	1986	1986	
Total . . . . .	6.4	11.8	16.6	14.3	25.1	27.7	8.8	12.5	18.8	7.9
Sex:										
Male . . . . .	5.6	10.8	15.8	13.3	27.5	30.1	7.7	10.8	18.4	5.9
Female . . . . .	7.2	12.6	17.3	15.3	22.9	25.4	9.9	14.1	19.2	9.6
Race/ethnicity:										
White <sup>1</sup> . . . . .	6.9	12.1	17.0	15.6	27.0	29.4	9.0	12.5	20.8	7.9
Black <sup>1</sup> . . . . .	2.1	9.4	14.6	7.8	14.7	19.2	6.4	10.4	10.1	7.1
Hispanic . . . . .	3.3	9.1	13.7	3.1	9.7	10.9	9.2	14.7	6.8	9.5
Asian . . . . .	8.0	21.0	27.7	5.8	5.8	18.5	11.8	15.7	28.7	5.3
American Indian <sup>1</sup> . . . . .	4.1	20.1	26.2	29.2	53.2	56.1	16.9	20.3	9.2	5.8
High school average:										
A . . . . .	7.9	13.5	19.0	41.9	59.3	60.7	8.2	11.3	49.0	3.9
A to B . . . . .	7.4	13.0	17.0	23.5	39.3	42.4	12.6	15.9	28.5	7.1
B . . . . .	7.1	11.7	17.8	12.3	24.9	28.0	9.7	14.0	18.5	9.5
B to C . . . . .	6.8	12.8	18.2	6.0	14.3	17.5	9.7	12.5	9.0	8.5
C . . . . .	2.6	7.7	12.8	2.4	6.1	7.7	5.4	10.0	2.5	7.2
D . . . . .	3.2	7.0	9.7	1.1	3.6	4.5	3.0	7.6	1.3	6.2
High school program:										
General . . . . .	5.4	10.1	14.7	5.6	12.0	14.2	8.5	12.0	10.0	8.5
Academic . . . . .	8.0	15.0	20.9	27.5	45.6	49.1	10.2	14.0	37.4	6.8
Voc/tech . . . . .	4.7	7.9	10.9	1.3	4.3	5.4	9.1	12.6	3.4	9.2

<sup>1</sup> Non-Hispanic.

Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, 1989.

## No. 289. Libraries—Number, by Type: 1980 to 1989

TYPE	1980	1985	1989		TYPE	1980	1985	1989	
			Total	Per-cent				Total	Per-cent
<b>Total</b> <sup>1</sup>	<b>31,564</b>	<b>32,323</b>	<b>34,548</b>	<b>100.0</b>	Academic:	4,591	5,034	4,607	13.3
United States:	28,638	29,843	30,751	89.0	Junior college:	1,191	1,188	1,231	3.6
Public:	8,717	8,849	9,068	26.2	Colleges, universities:	3,400	3,846	3,376	9.8
Public branches:	5,936	6,330	5,930	17.2	Departmental:	1,489	1,824	1,467	4.2
Special:	7,649	7,530	8,990	26.0	Law, medicine, religious:	269	531	503	1.5
Medicine:	1,674	1,667	1,874	5.4	Government:	1,260	1,574	1,676	4.9
Religious:	913	839	945	2.7	Armed Forces:	485	526	480	1.4
Law:	417	435	603	1.7	Outlying areas:	113	114	115	0.3

<sup>1</sup> Includes public libraries with annual incomes of less than \$2,000 or book funds of less than \$500, law libraries with less than 10,000 volumes each, Canadian libraries, and libraries in regions administered by the U.S., not shown separately. <sup>2</sup> Includes other types of special libraries, not shown separately. Increase between 1985 and 1989 is due mainly to revised criteria for identifying special libraries and improved methods of counting.

Source: R.R. Bowker Co., New York, NY, *The Bowker Annual: Library and Book Trade Almanac and American Library Directory*, annual. (Copyright by Reed Publishing.)

## No. 290. College and University Libraries—Summary: 1985

[For school year ending in year shown. Based on survey of academic libraries and joint library systems in the 50 States and DC. Data from Survey of College and University Libraries, Fall 1985]

TYPE OF CONTROL AND ENROLLMENT SIZE	VOLUMES HELD		TITLES HELD		OPERATING EXPENSES (\$1,000)				STAFF <sup>1</sup>	
	Total (1,000)	Per FTE <sup>1</sup> student	Total (1,000)	Per FTE <sup>1</sup> student	Total <sup>2</sup>	Wages and salaries <sup>3</sup>	Books	Serial subscriptions <sup>4</sup>	Total	Librarians
<b>All types, public</b>	<b>373,446</b>	<b>36</b>	<b>180,388</b>	<b>17</b>	<b>1,608,809</b>	<b>792,574</b>	<b>194,626</b>	<b>222,348</b>	<b>55,593</b>	<b>13,514</b>
10,000 or more	253,441	43	105,086	18	1,080,621	525,848	132,041	159,228	35,159	8,286
5,000 to 9,999	58,761	25	35,891	15	249,337	126,290	29,786	31,436	9,255	2,301
1,000 to 4,999	56,092	27	35,887	17	251,373	127,185	29,431	27,525	10,124	2,615
500 to 999	4,233	43	2,943	30	21,264	10,138	2,685	3,100	808	237
500 or less	917	32	598	21	6,214	3,113	683	1,059	245	72
<b>All types, private</b>	<b>260,402</b>	<b>94</b>	<b>129,069</b>	<b>46</b>	<b>808,189</b>	<b>369,146</b>	<b>108,993</b>	<b>115,928</b>	<b>33,249</b>	<b>8,405</b>
10,000 or more	79,220	118	29,128	43	289,960	133,004	32,218	39,593	9,173	2,467
5,000 to 9,999	42,633	62	14,889	29	143,618	65,753	18,399	24,503	4,969	1,303
1,000 to 4,999	90,559	76	53,431	45	265,033	118,498	41,957	38,289	13,074	2,997
500 to 999	26,474	97	17,737	65	64,210	29,888	9,045	8,743	3,470	906
500 or less	21,514	175	13,884	113	45,368	22,003	7,374	4,800	2,560	730

<sup>1</sup> Full-time equivalent. <sup>2</sup> Includes expenses not shown separately; excludes capital outlay. <sup>3</sup> Excludes fringe benefits and wages for student assistance. <sup>4</sup> Any publication issued on a recurring basis and held for reference.

Source: U.S. National Center for Education Statistics, unpublished data.

## No. 291. Large College and University Libraries—Selected Statistics: 1985

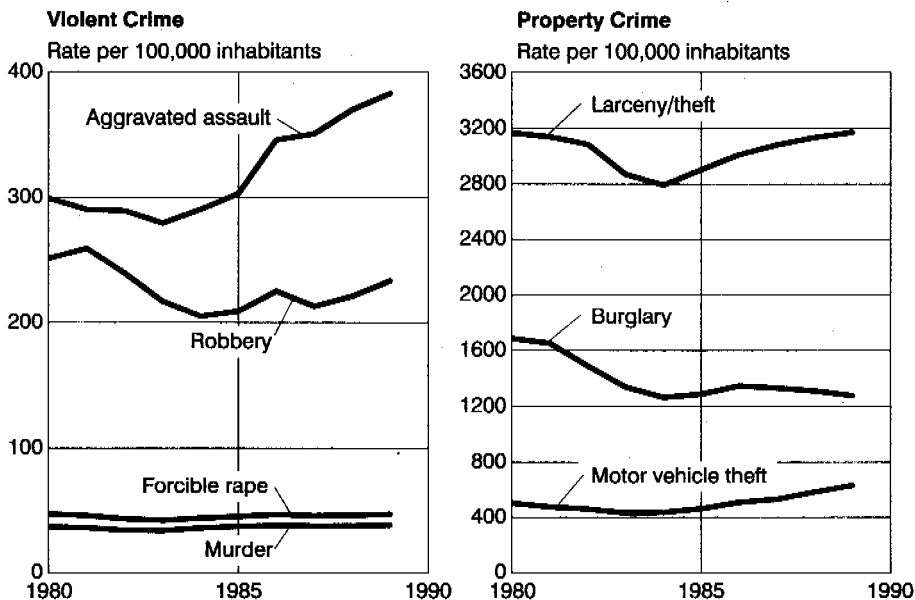
[Staff as of fall; expenditures for school year. For the largest 15 college and university libraries by collection-size]

INSTITUTION	Number of volumes (1,000)	STAFF <sup>1</sup>		OPERATING EXPENDITURES (\$1,000)				
		Total	Professional	Total	Salaries/wages <sup>2</sup>	Books and other material <sup>3</sup>	Binding and re-binding	Other
Harvard University	10,930	1,001	310	30,452	17,905	6,872	621	5,054
Yale University	8,192	595	176	18,982	11,242	4,916	279	2,544
University of Illinois-Urbana Campus	6,808	551	122	15,500	8,932	4,724	228	1,616
University of California-Berkeley	6,611	721	170	26,024	17,603	5,115	520	2,786
University of Michigan, Ann Arbor	5,802	544	143	14,795	10,072	3,335	275	1,112
Columbia University, Main Division	5,461	559	128	18,340	11,316	4,260	393	2,370
University of California-Los Angeles	5,453	692	190	27,586	16,805	5,850	614	4,317
University of Texas at Austin	5,402	593	131	19,441	11,261	6,539	182	1,458
Stanford University (Calif.)	5,318	590	155	25,202	16,377	5,755	351	2,720
University of North Carolina at Chapel Hill	4,851	370	109	12,639	6,475	4,228	246	1,690
University of Chicago	4,661	334	77	12,433	6,942	2,980	247	2,265
University of Wisconsin-Madison	4,495	519	132	17,179	9,936	4,141	218	2,885
" " " " " "	4,416	483	125	14,833	8,445	4,313	373	1,702
" " " " " "	4,366	495	109	12,092	7,399	3,516	210	967
" " " " " " Paul	4,229	412	109	15,138	9,255	3,570	382	1,932

<sup>1</sup> Full-time equivalent. <sup>2</sup> Includes salary equivalents of contributed services, fringe benefits of total staff, and wages of student assistants charged to library budgets. <sup>3</sup> Includes expenses of book stock, periodicals, audiovisual materials and other library materials.

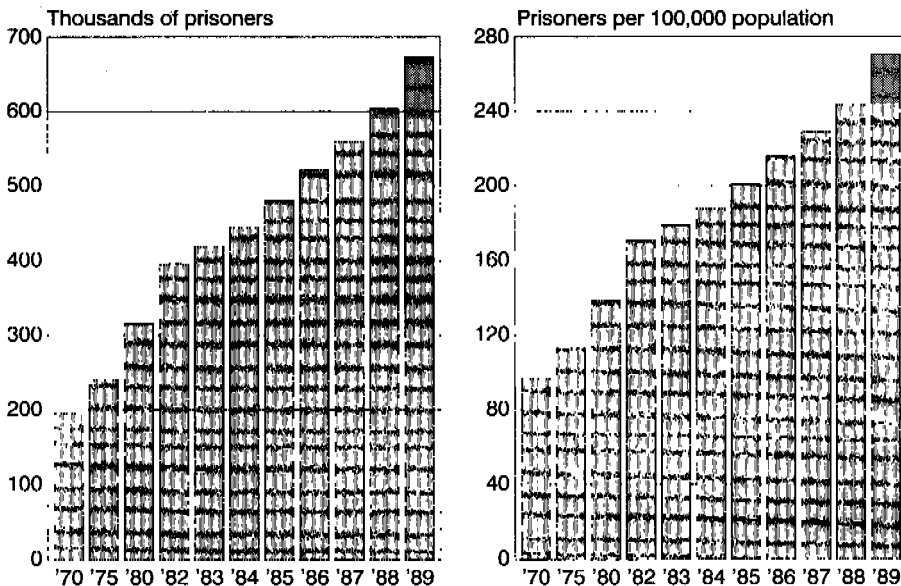
Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, 1988.

Figure 5.1  
**Selected Crime Rates: 1980 to 1989**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 292.

Figure 5.2  
**Federal and State Prisoners: 1970 to 1989**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 334.





## Section 5 Law Enforcement, Courts, and Prisons

This section presents data on crimes committed, victims of crimes, arrests, and data related to criminal violations, and the criminal justice system. The major sources of these data are the Bureau of Justice Statistics (BJS) and the Federal Bureau of Investigation (FBI). BJS issues several reports, including *Sourcebook of Criminal Justice Statistics*, *Criminal Victimization in the United States*, *Prisoners in State and Federal Institutions*, *Children in Custody*, *National Survey of Courts*, *Census of State Correctional Facilities* and *Survey of Prison Inmates*, *Census of Jails* and *Survey of Jail Inmates*, *Parole in the United States*, *Capital Punishment*, and the annual *Expenditure and Employment Data for the Criminal Justice System*. The Federal Bureau of Investigation's major annual report is *Crime in the United States*, which presents data on reported crimes as gathered from State and local law enforcement agencies.

Other major sources of these data include: *Annual Report of the Director, Federal Court Management Statistics*, *Federal Offenders*, and *Sentences Imposed Chart* issued by the Administrative Office of the U.S. Courts; *Governmental Finances and Public Employment*, issued annually by the Bureau of the Census; and the *Statistical Report*, issued annually by the Federal Bureau of Prisons.

**Legal jurisdiction and law enforcement.**—Law enforcement is, for the most part, a function of State and local officers and agencies. The U.S. Constitution reserves general police powers to the States. By act of Congress, Federal offenses include only offenses against the U.S. Government and against or by its employees while engaged in their official duties, and offenses which involve the crossing of State lines or an interference with interstate commerce. Excluding the military, there are 52 separate criminal law jurisdictions in the United States: 1 in each of the 50 States, 1 in the District of Columbia, and the Federal jurisdiction. Each of these has its own criminal law and procedure and its own law enforcement agencies. While the systems of law enforcement are quite similar among the States, there are often substantial differences in the penalties for like offenses.

Law enforcement can be divided into three parts: Investigation of crimes and arrests of persons suspected of committing them; prosecution of those charged with crime; and the punishment or treatment of persons convicted of crime.

**Crime.**—There are two major approaches taken in determining the extent of crime. One perspective is provided by the FBI through its Uniform Crime Reporting Program (UCR). The FBI receives monthly and annual reports from law enforcement agencies throughout the country, currently representing 98 percent of the national population. Each month, city police, sheriffs, and State police file reports on the number of index offenses that become known to them. The FBI Crime Index offenses are as follows: *Murder and nonnegligent manslaughter*, is based on police investigations, as opposed to the determination of a medical examiner or judicial body, includes willful felonious homicides, and excludes attempts and assaults to kill, suicides, accidental deaths, justifiable homicides, and deaths caused by negligence; *forcible rape* includes forcible rapes and attempts; *robbery* includes stealing or taking anything of value by force or violence or threat of force or violence and includes attempted robbery; *aggravated assault* includes assault with intent to kill; *burglary* includes any unlawful entry to commit a felony or a theft and includes attempted burglary and burglary followed by larceny; *larceny* includes theft of property or articles of value without use of force and violence or fraud and excludes embezzlement, "con games," forgery, etc.; *motor vehicle theft* includes all cases where vehicles are driven away and abandoned, but excludes vehicles taken for temporary use and returned by the taker. Arson was added as the eighth Index offense in April 1979 following a Congressional mandate. *Arson* includes any willful or malicious burning or attempt to burn with or without intent to defraud, a dwelling house, public building, motor vehicle or aircraft, personal property of another, etc. The monthly Uniform Crime Reports also contain data on crimes cleared by arrest and on characteristics of persons arrested for all criminal offenses. In summarizing and publishing crime data, the FBI depends primarily on the adherence to the established standards of reporting for statistical accuracy, presenting the data as information useful to persons concerned with the problem of crime and criminal-law enforcement.

**National Crime Survey (NCS)**—A second perspective on crime is provided by the National Crime Survey (NCS) of the Bureau of Justice Statistics. Details about the crimes come directly from the victims. No attempt is made to validate the information against police records or any other source. The NCS measures rape, robbery, assault, household and personal larceny, burglary, and motor vehicle theft. The NCS includes offenses reported to the police, as well as those not reported. Police reporting rates (percent of victimizations) varied by type of crime. In 1988, for instance, 44.9 percent of the rapes were reported; 57.1 percent of the robberies; 45.9 percent of assaults; 27.2 percent of personal larcenies without contact; 50.7 percent of the household burglaries; and 73.2 percent of motor vehicle thefts.

Murder and kidnapping are not covered. Commercial burglary and robbery were dropped from the program during 1977. The so-called victimless crimes, such as drunkenness, drug abuse, and prostitution, also are excluded, as are crimes for which it is difficult to identify knowledgeable respondents or to locate data records.

Crimes of which the victim may not be aware also cannot be measured effectively. Buying stolen property may fall into this category, as may some instances of embezzlement. Attempted crimes of many types probably are under recorded for this reason. Events in which the victim has shown a willingness to participate in illegal activity also are excluded.

In any encounter involving a personal crime, more than one criminal act can be committed against an individual. For example, a rape may be associated with a robbery; or a household offense, such as a burglary, can escalate into something more serious in the event of a personal confrontation. In classifying the survey-measured crimes, each criminal incident has been counted only once—by the most serious act that took place during the incident and ranked in accordance with the seriousness classification system used by the Federal Bureau of Investigation. The order of seriousness for crimes against persons is as follows: Rape, robbery, assault, and larceny. Consequently, if a person were both robbed and assaulted, the event would be classified as robbery; if the victim suffered physical harm, the crime would be categorized as robbery with injury. Personal crimes take precedence over household offenses.

A *victimization*, basic measure of the occurrence of crime, is a specific criminal act as it affects a single victim. The number of victimizations is determined by the number of victims of such acts. Victimization counts serve as key elements in computing rates of victimization. For crimes against persons, the rates are based on the total number of individuals age 12 and over or on a portion of that population sharing a particular characteristic or set of traits. As general indicators of the danger of having been victimized during the reference period, the rates are not sufficiently refined to represent true measures of risk for specific individuals or households. For further details regarding the NCS, see *Criminal Victimization in the United States*, by the U.S. Bureau of Justice Statistics.

An *incident* is a specific criminal act involving one or more victims; therefore the number of incidents of personal crimes lower than that of victimizations.

NCS estimates appearing in 1980 and earlier reports made use of population controls derived from the 1970 census. Thereafter, population estimates based on the 1980 census were used. Victimization rates, key measures of the occurrence of crime, and all percentages generally were unaffected by the change in the estimation procedure. Thus, the vast majority of data appearing after 1980 are compatible with data in previous NCS reports.

**Courts.**—statistics on criminal offenses and the outcome of prosecutions are incomplete for the country as a whole, although data are available for many States individually. The only national compilations of such statistics were made by the Bureau of the Census for 1932 to 1945 covering a maximum of 32 States, and by the Bureau of Justice Statistics for 1986 based on a nationally representative sample survey.

The bulk of civil and criminal litigation in the country is commenced and determined in the various State courts. Only when the U.S. Constitution and acts of Congress specifically confer jurisdiction upon the Federal courts may civil litigation be heard and decided by them. Generally, the Federal courts have jurisdiction over the following types of cases: Suits or proceedings by or against the United States; civil actions between private parties arising under the Constitution, laws, or treaties of the United States; civil actions between private litigants who are citizens of different States; civil cases involving admiralty, maritime, or prize jurisdiction; and all matters in bankruptcy.

There are several types of courts with varying degrees of legal jurisdiction. These jurisdictions include original, appellate, general, and limited or special. A *court of original jurisdiction* is one having the authority initially to try a case and pass judgment on the law and the facts; a *court of appellate jurisdiction* is one with the legal authority to review cases and hear appeals; a *court of general jurisdiction* is a trial court of unlimited original jurisdiction in civil and/or criminal cases, also called a "major trial court"; a *court of limited or special jurisdiction* is a trial court with legal authority over only a particular class of cases, such as probate, juvenile, or traffic cases.

The 94 Federal courts of original jurisdiction are known as the U.S. district courts. One or more of these courts is established in every State and one each in the District of Columbia, Puerto Rico, the Virgin Islands, the Northern Mariana Islands, and Guam. Appeals from the district courts are taken to intermediate appellate courts of which there are 13, known as U.S. courts of appeals and the United States Court of Appeals for the Federal Circuit. The Supreme Court of the United States is the final and highest appellate court in the Federal system of courts.

**Juvenile offenders.**—For statistical purposes, the FBI and most States classify as juvenile offenders persons under the age of 18 years who have committed a crime or crimes.

Delinquency cases are all cases of youths referred to a juvenile court for violation of a law or ordinance or for seriously "antisocial" conduct. Several types of facilities are available for those adjudicated delinquent, ranging from the short-term physically unrestricted environment to the long-term very restrictive atmosphere.

**Prisoners.**—Data on prisoners in Federal and State prisons and reformatories were collected annually by the Bureau of the Census until 1950, by the Federal Bureau of Prisons until 1971, transferred then to the Law Enforcement Assistance Administration, and, in 1979, to the Bureau of Justice Statistics. Adults convicted of criminal activity may be given a prison or jail sentence. A *prison* is a confinement facility having custodial authority over adults sentenced to confinement of more than one year. A *jail* is a facility, usually operated by a local law enforcement agency, holding persons detained pending adjudication and/or persons committed after adjudication to one year or less. Nearly every State publishes annual data either for its whole prison system or for each separate State institution.

**Statistical reliability.**—For discussion of statistical collection, estimation, and sampling procedures and measures of statistical reliability pertaining to the National Crime Survey and Uniform Crime Reporting Program, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

## No. 292. Crimes and Crime Rates, by Type: 1980 to 1989

[Data refer to offenses known to the police. Rates are based on Bureau of the Census estimated resident population as of July 1, except 1980, enumerated as of April, 1. Annual totals for years prior to 1984 were adjusted in 1984 and may not be consistent with those in prior editions. See source for details. Minus sign (—) indicates decrease. For definitions of crimes, see text, section 5. See *Historical Statistics, Colonial Times to 1970*, series H 952-961 for related data]

ITEM AND YEAR	Total	VIOLENT CRIME					PROPERTY CRIME			
		Total	Mur- der <sup>1</sup>	Forci- ble rape	Rob- bery	Aggra- vated assault	Total	Bur- glary	Larceny— theft	Motor vehicle theft
Number of offenses (1,000):										
1980	13,408	1,345	23.0	83.0	566	673	12,064	3,795	7,137	1,132
1981	13,424	1,362	22.5	82.5	593	664	12,062	3,780	7,194	1,088
1982	12,974	1,322	21.0	78.8	553	669	11,652	3,447	7,143	1,062
1983	12,109	1,258	19.3	78.9	507	653	10,851	3,130	6,713	1,008
1984	11,882	1,273	18.7	84.2	485	685	10,609	2,984	6,592	1,032
1985	12,431	1,329	19.0	88.7	498	723	11,103	3,073	6,926	1,103
1986	13,212	1,489	20.6	91.5	543	834	11,723	3,241	7,257	1,224
1987	13,509	1,484	20.1	91.1	518	855	12,025	3,236	7,500	1,289
1988	13,923	1,566	20.7	92.5	543	910	12,357	3,218	7,706	1,433
1989	14,251	1,646	21.5	94.5	578	952	12,605	3,168	7,872	1,565
Percent change, number of offenses:										
1980-1989	6.3	22.4	-6.7	13.9	2.2	41.5	4.5	-16.5	10.3	38.3
1985-1989	14.6	23.9	13.3	6.6	16.2	31.6	13.5	3.1	13.7	41.9
1988-1989	2.4	5.1	4.0	2.2	6.5	4.6	2.0	-1.6	2.2	9.2
Rate per 100,000 population:										
1980	5,950	597	10.2	36.8	251	299	5,353	1,684	3,167	502
1981	5,858	594	9.8	36.0	259	290	5,264	1,650	3,140	475
1982	5,604	571	9.1	34.0	239	289	5,033	1,489	3,085	459
1983	5,175	538	8.3	33.7	217	279	4,637	1,338	2,869	431
1984	5,031	539	7.9	35.7	205	290	4,492	1,264	2,791	437
1985	5,207	557	7.9	37.1	209	303	4,651	1,287	2,901	462
1986	5,480	618	8.6	37.9	225	346	4,863	1,345	3,010	508
1987	5,550	610	8.3	37.4	213	351	4,940	1,330	3,081	529
1988	5,664	637	8.4	37.6	221	370	5,027	1,309	3,135	583
1989	5,741	663	8.7	38.1	233	383	5,078	1,276	3,171	630
Percent change, rate per 100,000 population:										
1980-1989	-3.5	11.1	-14.7	3.5	-7.2	28.4	-5.1	-24.2	0.1	25.5
1985-1989	10.3	19.1	10.1	2.7	11.8	26.6	9.2	-0.9	9.3	36.5
1988-1989	1.4	4.1	3.6	1.3	5.5	3.6	1.0	-2.5	1.2	8.1

<sup>1</sup> Includes nonnegligent manslaughter.

Source: U.S. Federal Bureau of Investigation, *Crime in the United States*, annual.

## No. 293. Crimes and Crime Rates, by Type and Area: 1988 and 1989

[In thousands, except rate. Rate per 100,000 population; see headnote, table 292. Estimated totals based on reports from city and rural law enforcement representing 96 percent of the national population. For definitions of crimes, see text, section 5]

TYPE OF CRIME	1988 <sup>1</sup>						1989					
	MSA's <sup>2</sup>		Other cities		Rural areas		MSA's <sup>2</sup>		Other cities		Rural areas	
	Total	Rate	Total	Rate	Total	Rate	Total	Rate	Total	Rate	Total	Rate
<b>Total</b>	<b>12,138</b>	<b>6,428</b>	<b>1,123</b>	<b>4,921</b>	<b>662</b>	<b>1,938</b>	<b>12,430</b>	<b>6,496</b>	<b>1,149</b>	<b>5,034</b>	<b>673</b>	<b>1,974</b>
<b>Violent crime</b>	<b>1,420</b>	<b>752</b>	<b>85</b>	<b>371</b>	<b>61</b>	<b>180</b>	<b>1,492</b>	<b>780</b>	<b>90</b>	<b>394</b>	<b>64</b>	<b>189</b>
Murder and nonnegligent manslaughter	18	9	1	4	2	5	19	10	1	5	2	5
Forcible rape	80	43	6	25	6	18	81	42	6	27	7	21
Robbery	525	278	13	55	5	15	560	293	13	58	5	16
Aggravated assault	797	422	65	286	48	141	832	435	69	304	50	147
<b>Property crime</b>	<b>10,718</b>	<b>5,676</b>	<b>1,039</b>	<b>4,550</b>	<b>600</b>	<b>1,759</b>	<b>10,938</b>	<b>5,716</b>	<b>1,059</b>	<b>4,640</b>	<b>608</b>	<b>1,785</b>
Burglary	2,751	1,457	238	1,042	230	672	2,702	1,412	237	1,040	229	673
Larceny-theft	6,621	3,506	753	3,298	332	973	6,762	3,534	771	3,380	339	995
Motor vehicle theft	1,346	713	48	210	39	114	1,474	771	50	221	40	117

<sup>1</sup> Data for 1988 were not available for the States of Florida and Kentucky; therefore, crime counts for those two States were estimated. <sup>2</sup> For definition, see text, Appendix II.

Source: U.S. Federal Bureau of Investigation, *Crime in the United States*, annual.

## No. 294. Crime Rates by State, 1985 to 1989, and by Type, 1989

[Offenses known to the police per 100,000 population. Based on Bureau of the Census estimated resident population as of July 1. For definitions of crimes, see text, section 5. For composition of regions, see fig. 1, inside front cover]

REGION, DIVISION, AND STATE	1985, total	1988, total	1989									
			Total <sup>1</sup>	Violent crime					Property crime			
				Total	Mur- der <sup>1</sup>	Forci- ble rape	Rob- bery	Aggra- vated assault	Total	Bur- glary	Larce- ny- —theft	Motor vehic- le theft
<b>United States . . . . .</b>	<b>5,207</b>	<b>5,664</b>	<b>5,741</b>	<b>663</b>	<b>8.7</b>	<b>38</b>	<b>233</b>	<b>383</b>	<b>5,078</b>	<b>1,276</b>	<b>3,171</b>	<b>630</b>
<b>Northeast . . . . .</b>	<b>4,627</b>	<b>5,006</b>	<b>5,072</b>	<b>710</b>	<b>7.8</b>	<b>28</b>	<b>323</b>	<b>351</b>	<b>4,362</b>	<b>1,007</b>	<b>2,586</b>	<b>769</b>
<b>New England . . . . .</b>	<b>4,487</b>	<b>4,730</b>	<b>4,854</b>	<b>495</b>	<b>4.4</b>	<b>29</b>	<b>158</b>	<b>303</b>	<b>4,359</b>	<b>1,065</b>	<b>2,592</b>	<b>703</b>
Maine . . . . .	3,672	3,578	3,584	137	3.2	19	24	91	3,446	803	2,460	183
New Hampshire . . . . .	3,252	3,334	3,596	168	3.3	30	24	112	3,428	737	2,447	244
Vermont . . . . .	3,888	4,240	4,089	133	1.9	23	18	90	3,956	1,029	2,728	199
Massachusetts . . . . .	4,758	4,991	5,136	675	4.3	32	203	436	4,461	1,066	2,485	911
Rhode Island . . . . .	4,723	5,204	5,225	378	4.9	27	112	234	4,847	1,207	2,716	924
Connecticut . . . . .	4,705	5,098	5,270	512	5.9	28	215	264	4,758	1,236	2,824	698
<b>Middle Atlantic . . . . .</b>	<b>4,675</b>	<b>5,100</b>	<b>5,147</b>	<b>784</b>	<b>9.0</b>	<b>28</b>	<b>379</b>	<b>367</b>	<b>4,363</b>	<b>988</b>	<b>2,584</b>	<b>792</b>
New York . . . . .	5,589	6,309	6,293	1,131	12.5	29	579	510	5,162	1,176	3,033	953
New Jersey . . . . .	5,094	5,295	5,269	609	5.1	32	273	299	4,660	977	2,765	919
Pennsylvania . . . . .	3,037	3,176	3,360	379	6.3	25	150	198	2,982	714	1,799	469
<b>Midwest . . . . .</b>	<b>4,674</b>	<b>4,873</b>	<b>4,949</b>	<b>528</b>	<b>6.6</b>	<b>39</b>	<b>177</b>	<b>306</b>	<b>4,420</b>	<b>1,013</b>	<b>2,936</b>	<b>471</b>
<b>East North Central . . . . .</b>	<b>4,939</b>	<b>5,087</b>	<b>5,150</b>	<b>589</b>	<b>7.6</b>	<b>44</b>	<b>207</b>	<b>330</b>	<b>4,561</b>	<b>1,040</b>	<b>2,993</b>	<b>528</b>
Ohio . . . . .	4,187	4,645	4,733	469	6.0	45	171	247	4,265	1,018	2,811	435
Indiana . . . . .	3,914	4,150	4,440	406	6.3	32	101	267	4,033	969	2,673	391
Illinois . . . . .	5,384	5,621	5,639	846	9.0	36	336	465	4,793	1,076	3,110	607
Michigan . . . . .	6,366	6,084	5,968	709	10.7	71	222	405	5,259	1,225	3,312	723
Wisconsin . . . . .	4,017	3,972	4,165	223	3.6	20	75	123	3,942	733	2,877	332
<b>West North Central . . . . .</b>	<b>4,046</b>	<b>4,365</b>	<b>4,473</b>	<b>385</b>	<b>4.3</b>	<b>28</b>	<b>105</b>	<b>247</b>	<b>4,088</b>	<b>949</b>	<b>2,803</b>	<b>336</b>
Minnesota . . . . .	4,134	4,315	4,383	288	2.5	31	95	160	4,095	897	2,818	380
Iowa . . . . .	3,943	4,077	4,081	266	1.9	16	39	209	3,815	847	2,810	158
Missouri . . . . .	4,366	4,845	5,127	633	7.9	31	195	399	4,495	1,136	2,835	524
North Dakota . . . . .	2,679	2,728	2,561	63	0.6	12	9	42	2,498	359	2,026	113
South Dakota . . . . .	2,641	2,581	2,685	136	1.3	32	12	90	2,550	475	1,966	109
Nebraska . . . . .	3,695	4,140	4,092	280	2.5	24	52	201	3,812	745	2,880	186
Kansas . . . . .	4,375	4,880	4,983	401	5.5	36	100	259	4,582	1,189	3,096	297
<b>South . . . . .</b>	<b>5,256</b>	<b>6,093</b>	<b>6,205</b>	<b>675</b>	<b>10.8</b>	<b>41</b>	<b>217</b>	<b>406</b>	<b>5,530</b>	<b>1,554</b>	<b>3,404</b>	<b>572</b>
<b>South Atlantic . . . . .</b>	<b>5,375</b>	<b>6,263</b>	<b>6,425</b>	<b>768</b>	<b>11.0</b>	<b>41</b>	<b>261</b>	<b>455</b>	<b>5,657</b>	<b>1,567</b>	<b>3,536</b>	<b>554</b>
Delaware . . . . .	4,961	4,799	4,865	556	5.1	85	139	328	4,309	902	3,015	391
Maryland . . . . .	5,373	5,705	5,563	855	11.6	38	332	474	4,707	1,123	2,920	664
District of Columbia <sup>2</sup> . . . . .	8,007	9,915	10,293	2,142	71.9	31	1083	956	8,151	1,950	4,828	1,373
Virginia . . . . .	3,779	4,177	4,211	313	7.9	27	106	171	3,899	757	2,831	311
West Virginia . . . . .	2,253	2,239	2,363	147	6.5	19	43	79	2,216	627	1,433	157
North Carolina . . . . .	4,121	4,862	5,254	546	8.9	30	133	374	4,707	1,503	2,919	285
South Carolina . . . . .	4,841	5,412	5,619	814	9.1	46	130	628	4,806	1,393	3,071	342
Georgia . . . . .	5,110	6,327	7,073	736	12.7	49	271	403	6,337	1,712	3,971	654
Florida . . . . .	7,574	8,938	8,804	1,109	11.1	50	404	645	7,695	2,283	4,607	806
<b>East South Central . . . . .</b>	<b>3,651</b>	<b>4,022</b>	<b>4,085</b>	<b>473</b>	<b>9.0</b>	<b>36</b>	<b>119</b>	<b>310</b>	<b>3,612</b>	<b>1,087</b>	<b>2,191</b>	<b>334</b>
Kentucky . . . . .	2,947	3,135	3,317	357	7.9	25	76	248	2,960	819	1,921	220
Tennessee . . . . .	4,167	4,469	4,514	549	8.4	46	160	334	3,965	1,207	2,225	533
Alabama . . . . .	3,942	4,562	4,628	591	10.2	31	134	416	4,037	1,147	2,593	297
Mississippi . . . . .	3,266	3,593	3,515	311	9.7	39	78	184	3,204	1,145	1,880	179
<b>West South Central . . . . .</b>	<b>5,991</b>	<b>7,010</b>	<b>7,064</b>	<b>642</b>	<b>11.5</b>	<b>44</b>	<b>204</b>	<b>383</b>	<b>6,422</b>	<b>1,799</b>	<b>3,886</b>	<b>737</b>
Arkansas . . . . .	3,585	4,220	4,556	474	8.4	38	111	316	4,082	1,194	2,622	266
Louisiana . . . . .	5,564	5,761	6,241	782	14.9	38	237	491	5,459	1,465	3,474	521
Oklahoma . . . . .	5,425	5,589	5,503	492	6.5	38	126	321	5,011	1,564	2,862	586
Texas . . . . .	6,569	8,018	7,927	659	11.9	47	223	377	7,268	2,015	4,365	889
<b>West . . . . .</b>	<b>6,405</b>	<b>6,543</b>	<b>6,550</b>	<b>754</b>	<b>8.3</b>	<b>42</b>	<b>236</b>	<b>468</b>	<b>5,796</b>	<b>1,388</b>	<b>3,633</b>	<b>775</b>
<b>Mountain . . . . .</b>	<b>6,183</b>	<b>6,151</b>	<b>6,250</b>	<b>472</b>	<b>5.3</b>	<b>36</b>	<b>101</b>	<b>330</b>	<b>5,778</b>	<b>1,297</b>	<b>4,042</b>	<b>439</b>
Montana . . . . .	4,549	4,267	3,998	116	2.9	18	17	78	3,882	692	2,964	226
Idaho . . . . .	3,908	3,973	3,931	255	2.6	23	15	214	3,676	872	2,645	159
Wyoming . . . . .	4,015	3,967	3,889	258	4.4	28	17	209	3,631	632	2,862	137
Colorado . . . . .	6,919	6,178	6,039	471	4.4	36	90	341	5,568	1,250	3,865	453
New Mexico . . . . .	6,486	6,606	6,574	704	8.6	48	105	544	5,870	1,711	3,809	350
Arizona . . . . .	7,116	7,471	8,060	600	6.7	36	139	418	7,460	1,667	5,106	687
Utah . . . . .	5,317	5,579	5,682	259	2.6	29	53	175	5,423	897	4,289	238
Nevada . . . . .	6,575	6,453	6,272	625	8.2	60	251	307	5,646	1,405	3,662	580
<b>Pacific . . . . .</b>	<b>6,486</b>	<b>6,683</b>	<b>6,656</b>	<b>854</b>	<b>9.4</b>	<b>44</b>	<b>284</b>	<b>516</b>	<b>5,803</b>	<b>1,420</b>	<b>3,489</b>	<b>894</b>
Washington . . . . .	6,529	7,113	6,594	472	4.4	62	140	266	6,122	1,545	4,119	458
Oregon . . . . .	6,730	7,059	6,161	519	4.8	47	152	315	5,643	1,425	3,677	540
California . . . . .	6,518	6,636	6,763	978	10.9	41	332	594	5,786	1,412	3,347	1,027
Alaska . . . . .	5,877	4,922	4,780	498	8.0	53	68	369	4,282	827	3,000	455
Hawaii . . . . .	5,201	5,989	6,270	270	4.8	45	83	138	6,000	1,343	4,260	397

<sup>1</sup> Includes nonnegligent manslaughter. <sup>2</sup> Includes offenses reported by the police at the National Zoo. <sup>3</sup> Data for 1988 are estimates.

Source: U.S. Federal Bureau of Investigation, *Crime in the United States*, annual.

**No. 295. Crime Rates, by Type—Selected Large Cities: 1989**

[Offenses known to the police per 100,000 population. Based on Bureau of the Census estimated resident population as of July 1. For definitions of crimes, see text, section 5]

CITY RANKED BY POPULATION SIZE, 1988 <sup>1</sup>	Crime index, total	VIOLENT CRIME					PROPERTY CRIME			
		Total	Mur- der	Forci- ble rape	Rob- bery	Aggra- vated assault	Total	Bur- glary	Larce- ny— theft	Motor vehicle theft
<b>Total, 8,134 cities . . . . .</b>	<b>7,232</b>	<b>875</b>	<b>10.8</b>	<b>45</b>	<b>338</b>	<b>481</b>	<b>6,357</b>	<b>1,507</b>	<b>4,004</b>	<b>846</b>
New York, NY . . . . .	9,667	2,300	25.8	44	1,267	963	7,367	1,646	3,905	1,816
Los Angeles, CA . . . . .	9,272	2,246	25.5	58	903	1,260	7,026	1,488	3,679	1,859
Chicago, IL . . . . .	9,021 <sup>(2)</sup>	2,246 <sup>(2)</sup>	24.8	58 <sup>(2)</sup>	1,057	1,259	7,618	1,726	4,355	1,536
Houston, TX . . . . .	10,816	1,140	26.8	67	573	473	9,676	2,745	4,771	2,160
Philadelphia, PA . . . . .	6,997	1,093	28.7	47	619	397	5,904	1,325	3,063	1,516
San Diego, CA . . . . .	9,374	922	11.0	37	326	547	8,453	1,592	4,532	2,329
Detroit, MI . . . . .	12,090	2,401	60.0	137	1,145	1,059	9,689	2,793	4,192	2,705
Dallas, TX . . . . .	16,707	2,131	35.2	119	948	1,029	14,576	3,879	7,956	2,740
San Antonio, TX . . . . .	12,717	553	17.7	50	285	200	12,163	2,998	7,559	1,607
Phoenix, AZ . . . . .	10,867	900	13.4	42	278	567	9,966	2,443	6,174	1,349
Baltimore, MD . . . . .	9,353	2,047	34.3	71	1,044	897	7,306	1,876	4,359	1,071
San Jose, CA . . . . .	5,137	598	5.0	53	131	409	4,538	834	3,121	584
San Francisco, CA . . . . .	9,021	1,340	9.7	51	666	613	7,681	1,424	4,969	1,288
Indianapolis, IN . . . . .	6,507	1,210	8.5	100	373	729	5,297	1,760	2,711	826
Memphis, TN . . . . .	8,882	1,233	21.7	120	581	511	7,649	2,315	3,406	1,928
Jacksonville, FL . . . . .	10,333	1,443	25.2	93	602	723	8,889	3,010	5,081	798
Washington, DC . . . . .	10,284	2,142	71.9	31	1,083	956	8,143	1,950	4,820	1,373
Milwaukee, WI . . . . .	8,761	710	18.6	77	402	213	8,050	1,527	5,003	1,521
Boston, MA . . . . .	12,068	2,227	17.1	83	1,011	1,116	9,840	1,704	5,308	2,829
Columbus, OH . . . . .	10,394	1,046	15.7	95	546	389	9,348	2,618	5,511	1,220
New Orleans, LA . . . . .	11,263	1,930	47.5	73	1,031	778	9,333	2,445	4,717	2,170
Cleveland, OH . . . . .	8,350	1,520	27.5	160	772	561	6,830	2,020	2,975	1,834
El Paso, TX . . . . .	10,623	916	8.0	47	221	640	9,707	2,214	6,447	1,046
Seattle, WA . . . . .	12,908	1,337	7.4	93	478	761	11,570	2,753	7,687	1,131
Denver, CO . . . . .	7,612	722	11.1	66	256	389	6,890	2,078	3,674	1,138
Nashville-Davidson, TN . . . . .	6,971	1,043	13.8	95	321	613	5,927	1,608	3,787	532
Austin, TX . . . . .	10,669	556	6.6	50	217	282	10,114	2,380	7,156	577
Kansas City, MO . . . . .	12,721	2,043	31.8	115	868	1,027	10,679	2,748	5,870	2,060
Oklahoma City, OK . . . . .	11,186	997	14.1	81	374	527	10,189	3,166	5,495	1,528
Fort Worth, TX . . . . .	15,689	1,549	26.2	105	587	831	14,140	3,999	8,056	2,085
Atlanta, GA . . . . .	20,690	3,951	57.7	162	1,594	2,138	16,739	4,033	10,003	2,703
Portland, OR . . . . .	12,753	1,891	8.9	97	625	1,158	10,862	2,908	6,318	1,636
Long Beach, CA . . . . .	9,491	1,683	20.0	58	863	722	7,808	2,070	4,092	1,646
St. Louis, MO . . . . .	15,326	3,121	39.0	81	1,042	1,959	12,205	3,416	6,584	2,205
Albuquerque, NM . . . . .	9,965	1,220	10.7	46	268	895	8,744	2,514	5,631	599
Honolulu, HI . . . . .	6,232	271	5.1	49	96	121	5,962	1,259	4,279	424
Pittsburgh, PA . . . . .	8,875	1,216	8.2	58	658	494	7,659	2,154	3,366	2,139
Miami, FL . . . . .	18,377	3,687	34.6	75	1,912	1,875	14,680	4,027	8,202	2,451
Cincinnati, OH . . . . .	7,473	991	12.1	94	384	501	6,481	1,669	4,407	405
Tulsa, OK . . . . .	9,178	1,188	8.7	84	387	708	7,990	2,447	3,914	1,629
Charlotte, NC . . . . .	13,242	2,050	19.6	87	636	1,308	11,192	3,428	7,039	725
Virginia Beach, VA . . . . .	5,623	206	4.6	36	86	79	5,418	1,015	4,121	281
Oakland, CA . . . . .	12,534	1,516	35.2	121	880	480	11,018	2,696	6,536	1,786
Omaha, NE . . . . .	6,574	775	6.5	53	180	535	5,799	1,340	4,046	413
Minneapolis, MN . . . . .	12,097	1,541	13.2	133	724	670	10,557	2,825	6,156	1,575
Toledo, OH . . . . .	9,544	961	12.0	114	462	372	8,583	2,170	5,001	1,412
Sacramento, CA . . . . .	10,319	1,054	12.7	54	476	511	9,265	2,155	5,171	1,940
Newark, NJ . . . . .	14,344	3,295	34.1	120	1,692	1,449	11,050	2,131	3,925	4,994
Buffalo, NY . . . . .	8,529	1,425	11.8	85	582	746	7,104	2,330	3,754	1,020
Fresno, CA . . . . .	11,693	1,361	13.3	74	484	789	10,333	2,568	5,918	1,847
Wichita, KS . . . . .	8,738	725	9.8	80	313	323	8,013	2,068	5,338	606
Norfolk, VA . . . . .	8,263	751	18.9	65	327	339	7,513	1,335	5,335	843
Colorado Springs, CO . . . . .	7,576	473	3.2	67	122	281	7,103	1,512	5,026	566
Louisville, KY . . . . .	6,506	907	11.3	43	424	428	5,599	1,836	3,051	712
Tampa, FL . . . . .	15,660	2,733	19.7	60	1,084	1,569	12,927	4,040	7,087	1,800
Mesa, AZ . . . . .	6,672	490	3.5	30	75	382	6,182	1,343	4,197	642
Birmingham, AL . . . . .	9,477	1,446	36.0	93	635	682	8,031	2,348	4,352	1,331
Corpus Christi, TX . . . . .	10,732	757	7.2	73	216	460	9,975	2,639	6,885	451
St Paul, MN . . . . .	8,322	940	5.7	72	327	536	7,382	1,934	4,402	1,046
Arlington, TX . . . . .	8,613	597	4.2	34	212	346	8,016	1,993	5,011	1,013
Anaheim, CA . . . . .	7,272	657	10.8	45	301	301	6,614	1,779	3,635	1,201
Santa Ana, CA . . . . .	8,766	943	21.6	30	458	434	7,823	1,484	4,784	1,556
St. Petersburg, FL . . . . .	12,689	2,117	18.2	63	931	1,105	10,572	2,885	6,668	1,019
Baton Rouge, LA . . . . .	11,749	1,673	17.5	48	312	1,295	10,076	2,545	6,634	897
Rochester, NY . . . . .	11,669	1,077	15.6	75	509	478	10,592	2,647	7,099	846
Lexington-Fayette, KY . . . . .	6,632	613	4.9	46	161	401	6,019	1,485	4,186	347
Akron, OH . . . . .	7,515	1,011	9.0	80	335	587	6,503	1,509	4,258	737
Aurora, CO . . . . .	7,864	1,301	3.2	55	172	1,071	6,563	1,350	4,658	555
Anchorage, AL . . . . .	5,469	506	4.9	62	122	317	4,963	765	3,680	518
Shreveport, LA . . . . .	11,581	1,082	23.5	55	386	618	10,498	2,955	7,132	411
Jersey City, NJ . . . . .	9,826	1,790	16.5	44	1,058	672	8,136	2,011	3,701	2,425

<sup>1</sup> Data for 1989 were not available for Tucson, AZ. <sup>2</sup> The rates for forcible rape, violent crime, and crime index are not shown because the forcible rape figures were not in accordance with national Uniform Crime Reporting guidelines.

Source: U.S. Federal Bureau of Investigation, *Crime in the United States*, annual.

### No. 296. Murder Circumstances/Motives and Weapons Used or Cause of Death: 1980 to 1989

[Based solely on police investigation. For definition of murder, see text, section 5]

CHARACTERISTIC	1980	1985	1988	1989	CHARACTERISTIC	1980	1985	1988	1989
<b>Murders, total . . . .</b>	<b>21,860</b>	<b>17,545</b>	<b>17,971</b>	<b>18,954</b>	Other motives . . . .	20.6	18.1	18.9	19.0
<b>Percent distribution</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	Unknown . . . . .	15.1	22.8	26.3	23.7
<b>CIRCUMSTANCES</b>					<b>TYPE OF WEAPON OR CAUSE OF DEATH</b>				
Felonies, total . . . .	17.7	17.9	19.0	21.4	Guns . . . . .	62.4	58.7	60.6	62.4
Robbery . . . . .	10.8	9.2	8.3	9.1	Handguns . . . . .	46.0	43.0	45.3	47.6
Narcotics . . . . .	1.7	2.9	5.6	7.4	Cutting or stabbing . . . . .	19.3	21.1	19.2	18.2
Sex offenses . . . . .	1.5	1.5	1.2	1.1	Blunt objects . . . . .	5.0	5.5	6.3	6.0
Other felonies . . . .	3.7	4.3	3.8	3.8	Personal weapons <sup>2</sup> . . . . .	5.8	6.7	6.1	5.5
Suspected felonies . .	6.7	2.0	1.3	0.8	Strangulations, asphyxiations . . . . .	2.3	2.4	2.2	2.5
Argument, total . . . .	39.9	39.3	34.5	35.2	Fire . . . . .	1.3	1.4	1.4	1.2
Property or money . . .	2.6	2.7	2.7	2.9	All other <sup>3</sup> . . . . .	3.9	4.2	4.1	4.1
Romantic triangle . . .	2.3	2.3	1.7	2.0					
Other arguments . . . .	35.0	34.3	30.1	30.3					

<sup>1</sup> Refers to club, hammer, etc. <sup>2</sup> Hands, fists, feet, etc. <sup>3</sup> Includes poison, drowning, explosives, narcotics, and unknown.

Source: U.S. Federal Bureau of Investigation, *Crime in the United States*, annual.

### No. 297. Homicide Victims, by Race and Sex: 1970 to 1988

[Rates per 100,000 resident population in specified group. Beginning 1970, excludes deaths to nonresidents of U.S. Beginning 1980, deaths classified according to the ninth revision of the *International Classification of Diseases*; for earlier years, classified according to revision in use at the time; see text, section 2. See also *Historical Statistics, Colonial Times to 1970*

YEAR	HOMICIDE VICTIMS					HOMICIDE RATE <sup>2</sup>				
	Total <sup>1</sup>	White		Black		Total <sup>1</sup>	White		Black	
		Male	Female	Male	Female		Male	Female	Male	Female
1970 . . . . .	16,848	5,865	1,938	7,265	1,569	8.3	6.8	2.1	67.6	13.3
1975 . . . . .	21,310	8,222	2,751	8,092	1,929	9.9	9.0	2.9	69.0	14.9
1980 . . . . .	24,278	10,381	3,177	8,385	1,898	10.7	10.9	3.2	66.6	13.5
1981 . . . . .	23,646	9,941	3,125	8,312	1,825	10.3	10.4	3.1	64.8	12.7
1982 . . . . .	22,358	9,280	3,179	7,730	1,743	9.6	9.6	3.1	59.1	12.0
1983 . . . . .	20,191	8,355	2,880	6,822	1,672	8.6	8.6	2.8	51.4	11.3
1984 . . . . .	19,796	8,171	2,956	6,563	1,677	8.4	8.3	2.9	48.7	11.2
1985 . . . . .	19,893	8,122	3,041	6,616	1,666	8.3	8.2	2.9	48.4	11.0
1986 . . . . .	21,731	8,567	3,123	7,634	1,861	9.0	8.6	3.0	55.0	12.1
1987 . . . . .	21,103	7,979	3,149	7,518	1,969	8.7	7.9	3.0	53.3	12.6
1988 . . . . .	22,032	7,994	3,072	8,314	2,089	9.0	7.9	2.9	58.0	13.2

<sup>1</sup> Includes races not shown separately. <sup>2</sup> Rate based on enumerated population figures as of April 1 for 1960, 1970, and 1980; July 1 estimates for other years.

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual.

### No. 298. Forcible Rape—Number and Rate, by Selected Characteristic: 1970 to 1989

[For definition of rape, see text, section 5]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>NUMBER</b>												
Total . . . . .	37,990	56,090	82,980	82,500	78,770	78,920	84,230	88,670	91,460	91,110	92,490	94,500
By force . . . . .	26,888	41,501	63,599	63,038	59,967	61,019	66,367	71,060	73,453	73,456	75,441	78,411
Attempt . . . . .	11,102	14,589	19,391	19,462	18,803	17,901	17,863	17,610	18,007	17,654	17,049	16,089
<b>RATE</b>												
Per 100,000 population . .	18.7	26.3	36.8	36.0	34.0	33.7	35.7	37.1	37.9	37.4	37.6	38.1
Per 100,000 females . . . .	30.4	51.3	71.6	70.0	66.2	65.6	69.4	72.3	73.9	73.0	73.4	74.3
Per 100,000 females 12 years old and over . . . .	46.3	62.9	86.3	84.1	79.3	78.5	83.0	86.6	88.6	87.5	88.1	89.3
<b>PERCENT CHANGE IN RATE</b>												
Per 100,000 population . .	(NA)	40.6	6.1	-2.2	-5.5	-0.9	5.7	4.1	2.1	-1.3	0.5	1.3
Per 100,000 females 12 years old and over . . . .	(NA)	35.9	6.0	-2.5	-5.7	-1.0	5.7	4.3	2.3	-1.2	0.7	1.4

NA Not available.

Source: U.S. Federal Bureau of Investigation, *Population-at-Risk Rates and Selected Crime Indicators*, annual.

### No. 299. Robbery and Property Crimes, by Type and Selected Characteristic: 1980 to 1989

[For definition of crime, see text, section 5]

ITEM	NUMBER OF OFFENSES (1,000)				RATE PER 100,000 INHABITANTS				AVERAGE VALUE LOST (dol.)	
	1980	1985	1988	1989	1980	1985	1988	1989	1988	1989
<b>Robbery, total</b> <sup>1</sup>	<b>566</b>	<b>498</b>	<b>543</b>	<b>578</b>	<b>251.1</b>	<b>208.5</b>	<b>220.9</b>	<b>233.0</b>	<b>631</b>	<b>701</b>
Type of crime:										
Street or highway	293	273	293	318	130.1	114.4	119.2	128.0	511	538
Commercial house	78	60	65	68	34.6	25.3	26.4	27.5	945	1,214
Gas station	23	17	16	16	10.4	7.0	6.4	6.6	423	455
Convenience store	38	29	35	36	17.0	12.0	14.0	14.7	344	364
Residence	60	51	57	57	26.8	21.5	23.2	22.9	828	902
Bank	8	7	8	8	3.8	2.8	3.2	3.2	2,885	3,591
Weapon used:										
Firearm	228	176	181	192	101.3	73.6	73.7	77.3	(NA)	(NA)
Knife or cutting instrument	73	66	74	77	32.3	27.7	30.1	31.2	(NA)	(NA)
Other dangerous weapon	51	46	57	61	22.8	19.2	23.1	24.5	(NA)	(NA)
Strongarm	214	210	231	248	94.8	88.0	94.0	100.0	(NA)	(NA)
<b>Burglary, total</b>	<b>3,795</b>	<b>3,073</b>	<b>3,218</b>	<b>3,168</b>	<b>1,684.1</b>	<b>1,287.3</b>	<b>1,309.2</b>	<b>1,276.3</b>	<b>1,014</b>	<b>1,060</b>
Forcible entry	2,789	2,148	2,251	2,212	1,237.5	899.6	915.7	891.1	(NA)	(NA)
Unlawful entry	711	668	702	697	315.6	280.0	285.6	280.7	(NA)	(NA)
Attempted forcible entry	295	257	265	259	131.0	107.8	107.9	104.5	(NA)	(NA)
Residence	2,525	2,046	2,164	2,096	1,120.6	857.0	880.4	844.4	1,037	1,080
Nonresidence	1,270	1,027	1,054	1,072	563.5	430.3	428.8	431.9	967	1,023
Occurred during the night	1,508	1,177	1,171	1,170	689.0	493.1	476.4	471.2	(NA)	(NA)
Occurred during the day	1,263	1,025	1,160	1,134	560.3	429.2	472.0	456.8	(NA)	(NA)
<b>Larceny-theft, total</b>	<b>7,137</b>	<b>6,926</b>	<b>7,706</b>	<b>7,872</b>	<b>3,167.0</b>	<b>2,901.2</b>	<b>3,134.9</b>	<b>3,171.3</b>	<b>426</b>	<b>462</b>
Pocket picking	85	79	83	78	37.9	32.9	33.6	31.6	384	303
Purse snatching	107	83	93	89	47.5	35.0	38.0	35.8	228	244
Shoplifting	773	968	1,160	1,230	343.0	405.3	471.8	495.3	104	102
From motor vehicles	1,231	1,369	1,667	1,729	546.4	573.3	678.1	696.5	461	502
Motor vehicle accessories	1,366	1,158	1,265	1,227	606.2	485.2	514.7	494.3	297	315
Bicycles	715	566	437	431	317.5	237.3	177.6	173.7	188	204
From buildings	1,187	1,078	1,162	1,155	526.9	451.6	472.7	465.4	673	747
From coin-operated machines	58	60	71	65	25.8	24.9	29.0	26.2	144	153
Other	1,613	1,565	1,768	1,868	715.7	655.7	719.3	752.3	615	668
<b>Motor vehicles, total</b> <sup>2</sup>	<b>1,132</b>	<b>1,103</b>	<b>1,433</b>	<b>1,585</b>	<b>502.2</b>	<b>507.8</b>	<b>4,964.0</b>	<b>630.4</b>	<b>5,117</b>	<b>1,200</b>
Automobiles	845	832	1,108	1,232	374.8	348.5	450.6	486.4	(NA)	(NA)
Trucks and buses	149	156	218	232	66.1	65.4	88.7	93.6	(NA)	(NA)

NA Not available. <sup>1</sup> Includes other crimes not shown separately. <sup>2</sup> Includes other types of motor vehicles not shown separately.

Source: U.S. Federal Bureau of Investigation, *Population-at-Risk Rates and Selected Crime Indicators*, annual.

### No. 300. Number and Rate of Victimizations for Crimes Against Persons and Households, by Type: 1973 to 1988

[Data based on National Crime Survey; see text, section 5, and Appendix III]

YEAR	PERSONAL SECTOR							HOUSEHOLD SECTOR				
	Total	Violent crimes						Total	Bur- glary	Lar- ceny	Motor vehic- le theft	
		Total	Rape	Rob- bery	Total	Aggra- vated	Simple					
<b>NUMBER (1,000)</b>												
1973	20,322	5,351	156	1,108	4,087	1,655	2,432	14,971	15,340	6,459	7,537	1,344
1975	21,867	5,573	154	1,147	4,272	1,631	2,641	16,294	17,400	6,744	9,223	1,433
1980	21,430	6,130	174	1,209	4,747	1,707	3,041	15,300	18,821	6,973	10,468	1,381
1981	22,445	6,582	178	1,381	5,024	1,796	3,228	15,863	19,009	7,394	10,176	1,439
1982	22,012	6,459	153	1,334	4,973	1,754	3,219	15,553	17,744	6,663	9,705	1,377
1983	20,561	5,903	154	1,149	4,600	1,517	3,083	14,657	16,440	6,063	9,114	1,264
1984	19,743	5,954	180	1,117	4,657	1,673	2,984	13,789	15,733	5,643	8,750	1,340
1985	19,296	5,823	138	985	4,699	1,605	3,094	13,474	15,568	5,594	8,703	1,270
1986	18,751	5,515	130	1,009	4,376	1,543	2,833	13,235	15,368	5,557	8,455	1,356
1987	19,371	5,796	148	1,046	4,602	1,587	3,014	13,575	15,966	5,705	8,788	1,473
1988	19,966	5,910	127	1,048	4,734	1,741	2,993	14,056	15,830	5,777	8,419	1,634
<b>RATE</b> <sup>1</sup>												
1973	123.6	32.6	1.0	6.7	24.9	10.1	14.8	91.1	217.8	91.7	107.0	19.1
1975	128.9	32.8	0.9	6.8	25.2	9.6	15.6	96.0	236.5	91.7	125.4	19.5
1980	116.3	33.3	0.9	6.6	25.8	9.3	16.5	83.0	227.4	84.3	126.5	16.7
1981	120.4	35.3	1.0	7.4	27.0	9.6	17.3	85.1	226.0	87.9	121.0	17.1
1982	116.8	34.3	0.8	7.1	26.4	9.3	17.1	82.5	208.2	78.2	113.9	16.2
1983	107.9	31.0	0.8	6.0	24.1	8.0	16.2	76.9	189.8	70.0	105.2	14.6
1984	102.8	31.0	0.9	5.8	24.3	8.7	15.5	71.8	178.7	64.1	99.4	15.2
1985	99.4	30.0	0.7	5.1	24.2	8.3	15.9	69.4	174.4	62.7	97.5	14.2
1986	95.6	28.1	0.7	5.1	22.3	7.9	14.4	67.5	170.0	61.5	93.5	15.0
1987	98.0	29.3	0.8	5.3	23.3	8.0	15.2	68.7	173.9	62.1	95.7	16.0
1988	100.1	29.6	0.6	5.3	23.7	8.7	15.0	70.5	169.6	61.9	90.2	17.5

<sup>1</sup> Rate per 1,000 persons, 12 years old and over; and per 1,000 households.

Source: U.S. Bureau of Justice Statistics, *Criminal Victimization in the United States*, annual.



**No. 301. Crimes Against the Elderly—Number and Rate, by Type: 1973 to 1988**

[Covers persons 65 years old and over. Data based on National Crime Survey; see text, section 5, and Appendix III]

YEAR	PERSONAL SECTOR								HOUSEHOLD SECTOR			
	Total	Violent crimes				Crimes of theft			Total	Bur- glary	Larce- ny	Motor vehic- le theft
		Total	Rape <sup>1</sup>	Rob- bery	As- sault	Total <sup>2</sup>	Purse snatch- ing	Pocket picking				
NUMBER (1,000)												
1973	625.8	173.0	2.4	101.3	69.3	452.8	29.8	37.1	1,467.2	748.8	644.8	73.6
1980	768.6	165.9	2.8	82.5	80.7	602.7	33.4	56.2	1,826.5	802.1	960.1	64.3
1981	752.6	195.1	2.7	99.3	93.1	557.5	21.1	51.6	2,109.6	921.1	1,077.2	111.3
1982	738.7	146.3	1.5	68.0	76.8	592.4	34.0	45.6	1,744.3	709.4	946.4	88.5
1983	741.6	144.3	1.4	63.9	78.9	597.3	32.8	53.8	1,695.1	754.2	860.2	80.7
1984	660.1	128.7	1.4	57.5	69.8	531.4	21.9	42.9	1,622.1	669.5	851.6	101.0
1985	627.6	122.7	1.5	42.8	78.4	504.9	14.1	57.8	1,455.7	609.5	758.4	87.8
1986	639.2	124.8	-	46.1	78.7	514.4	19.4	49.4	1,477.4	628.4	767.9	81.1
1987	683.5	138.6	6.0	48.8	83.8	544.9	33.2	45.0	1,569.9	664.4	811.1	94.5
1988	645.9	118.7	-	48.2	70.6	527.2	29.8	46.3	1,528.3	651.3	748.1	128.9
RATE <sup>3</sup>												
1973	30.7	8.5	0.1	5.0	3.4	22.2	1.5	1.8	107.9	55.1	47.4	5.4
1980	31.4	6.8	0.1	3.4	3.3	24.6	1.4	2.3	109.8	48.2	57.7	3.9
1981	30.1	7.8	0.1	4.0	3.7	22.3	0.8	2.1	124.2	54.2	63.4	6.6
1982	28.9	5.7	0.1	2.7	3.0	23.2	1.3	1.8	100.5	40.9	54.5	5.1
1983	28.4	5.5	0.1	2.5	3.0	22.9	1.3	2.1	94.8	42.2	48.1	4.5
1984	24.9	4.9	0.1	2.2	2.6	20.0	0.8	1.6	88.4	36.5	46.4	5.5
1985	23.1	4.5	0.1	1.6	2.9	18.6	0.5	2.1	78.1	32.7	40.7	4.7
1986	23.0	4.5	0.0	1.7	2.8	18.5	0.7	1.8	78.2	33.3	40.6	4.3
1987	24.1	4.9	0.2	1.7	3.0	19.2	1.2	1.6	81.6	34.5	42.2	4.9
1988	22.4	4.1	0.0	1.7	2.4	18.3	1.0	1.6	77.7	33.1	38.1	6.6

<sup>1</sup> Yearly estimates are based on fewer than 10 sample cases. <sup>2</sup> Includes personal thefts without contact not shown separately. <sup>3</sup> Rate per 1,000 persons 65 years old and over; and per 1,000 households headed by persons 65 years old and over. Source: U.S. Bureau of Justice Statistics, *Crime and the Elderly*, December 1981 and unpublished data.

**No. 302. Victimization Rates for Crimes Against Persons: 1973 to 1988**

[Rates per 1,000 persons, 12 years old and over. Includes attempted crimes. Data based on National Crime Survey; see text, section 5, and Appendix III. Totals exclude personal larceny]

YEAR	Total <sup>1</sup>	White	Black	Hispanic <sup>2</sup>	MALE			FEMALE			VICTIM-OFFENDER RELATIONSHIP	
					White	Black	Hispanic <sup>2</sup>	White	Black	Hispanic <sup>2</sup>	Stranger	Non-stranger
1973	33	32	42	36	43	53	53	21	32	22	22	11
1980	33	32	41	40	43	53	54	22	31	27	21	12
1981	35	33	50	39	44	61	53	23	40	26	23	12
1982	34	33	44	40	42	57	49	25	33	32	22	12
1983	31	30	41	38	39	50	48	21	33	29	18	13
1984	31	30	41	35	38	51	45	22	33	26	17	14
1985	30	29	38	30	38	47	33	21	31	27	18	12
1986	28	28	33	27	35	39	39	21	29	15	16	12
1987	29	28	42	39	36	52	44	20	34	35	17	13
1988	30	28	40	35	34	47	(NA)	22	35	(NA)	18	12

NA Not available. <sup>1</sup> Includes races not shown separately. <sup>2</sup> Hispanic persons may be of any race.

**No. 303. Crime Incidents by Place and Time of Occurrence and Injury: 1988**

INCIDENT CHARACTERISTICS	Rape	ROBBERY			ASSAULT			Personal larceny with contact
		Total	Completed	Attempted	Total	Aggravated	Simple assault	
<b>Incidents, total</b>	<b>123,850</b>	<b>965,070</b>	<b>623,470</b>	<b>341,590</b>	<b>4,191,700</b>	<b>1,478,600</b>	<b>2,713,090</b>	<b>489,360</b>
<b>PERCENT DISTRIBUTION</b>								
Place of occurrence	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Inside own home	25.0	14.1	18.1	6.8	15.1	13.9	15.7	4.0
Near own home, on the street near home	13.1	10.5	11.6	18.3	11.7	10.5	12.4	12.5
Friend's, relative's, or neighbor's home	14.9	3.4	3.9	2.5	7.4	8.0	7.1	2.5
Inside commercial property	7.5	6.7	6.6	6.7	15.5	12.6	17.0	31.9
In parking lot or garage	7.9	11.6	11.8	11.2	8.8	10.8	7.7	5.8
Inside school, on school property	1.6	6.2	7.0	1.7	10.0	4.5	12.9	17.4
In park, field, or playground	6.6	3	1.5	5.8	3.6	5.1	2.7	0.8
On street not near own or friend's home	20.2	37.8	33.9	45.0	18.8	23.8	16.2	29.8
Other	13.1	6.9	5.6	9.2	9.2	10.9	8.3	15.3
Time of occurrence	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Daytime (6 a.m.—6 p.m.)	41.3	43.6	44.3	42.5	48.2	42.8	51.1	64.2
Nighttime	58.7	56.2	55.4	57.5	51.6	57.0	48.7	34.6
Percent of incidents:								
Involving the presence of a weapon	26.6	47.3	47.1	47.6	33.1	93.8	(X)	(X)
Resulting in victim injury	(NA)	35.6	38.4	30.3	30.2	32.8	28.7	(X)

NA Not available. X Not applicable. <sup>1</sup> Estimate based on about ten or fewer sample cases.

Source of tables 302 and 303: U.S. Bureau of Justice Statistics, *Criminal Victimization in the United States*, annual.

**No. 304. Households Touched by Crime, 1981 and 1989, and by Characteristic, 1989**

[A household is considered "touched by crime" if during the year it experienced a burglary, auto theft or household theft or if a household member was raped, robbed, or assaulted, or a victim of personal theft, no matter where the crime occurred. Data based on the National Crime Survey; see text, section 5, and Appendix III]

TYPE OF CRIME	1981		1989, prel.						
	Number (1,000)	Percent touched	Number (1,000)	Percent touched					
				Total <sup>1</sup>	White	Black	Urban	Sub-urban	Rural
<b>Total<sup>2</sup></b> .....	<b>24,863</b>	<b>30.0</b>	<b>23,520</b>	<b>24.9</b>	<b>24.3</b>	<b>29.1</b>	<b>31.2</b>	<b>24.2</b>	<b>17.2</b>
Violent crime .....	4,850	5.9	4,624	4.9	4.7	6.4	6.2	4.7	3.3
Rape .....	165	0.2	124	0.1	0.1	0.2	0.2	0.1	0.1
Robbery .....	1,117	1.3	968	1.0	0.9	2.2	1.7	0.9	0.4
Assault .....	3,890	4.7	3,722	3.9	3.9	4.4	4.6	4.0	2.9
Theft .....	17,705	21.4	16,848	17.8	17.7	18.7	22.1	17.6	12.0
Burglary .....	6,101	7.4	4,791	5.1	4.8	7.4	6.5	4.6	3.9
Motor vehicle theft .....	1,285	1.6	1,558	1.6	1.5	2.8	2.7	1.5	0.6

<sup>1</sup> Includes other races not shown separately. <sup>2</sup> Types of crime will not add to "total" since each household may report as many crime categories as experienced.

Source: U.S. Bureau of Justice Statistics, *Households Touched by Crime*, annual.

**No. 305. Reported Child Neglect and Abuse Cases, by Division: 1980 to 1987**

[Represents total number of child maltreatment reports documented within the States, including substantiated and unsubstantiated reports. Derived from data provided by State child protective services personnel to the National Study on Child Neglect and Abuse Reporting, conducted by the American Association for Protecting Children, a division of the American Humane Association, and funded through the National Center on Child Abuse and Neglect, OHDS, DHHS. Also the figures embody the variation among States with respect to whether they use individual child reports or reports which indicate all involved children in the family. Data for 1988 are not available as no survey was taken. For composition of divisions, see fig. 1, inside front cover]

YEAR	U.S., total	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Moun- tain	Pacific
<b>Total number of reports (1,000):</b>										
1980 .....	785.1	48.3	91.8	105.3	77.7	154.5	58.2	69.7	37.7	141.8
1981 .....	846.2	39.0	101.9	110.5	85.7	174.8	66.1	88.4	37.3	142.5
1982 .....	924.1	49.9	105.5	126.0	96.8	182.1	75.4	95.8	41.5	151
1983 .....	1,001.4	58.5	101.0	141.6	93.8	228.5	62.3	103.0	49.5	163.3
1984 .....	1,155.6	55.2	145.6	182.7	107.9	205.4	93.0	116.0	60.0	189.8
1985 .....	1,299.4	59.9	152.2	208.7	107.7	225.0	121.6	128.3	77.6	218.4
1986 .....	1,973.4	95.8	228.1	313.5	207.9	299.2	123.6	188.1	98.9	418.3
1987 .....	2,025.2	99.8	242.5	334.6	180.6	293.4	127.5	174.9	128.2	443.7
<b>Reports per 1,000 population:</b>										
1980 .....	3.5	3.9	2.5	2.5	4.5	4.2	4.0	2.9	3.3	4.4
1981 .....	3.7	3.1	2.8	2.6	5.0	4.6	4.5	3.6	3.2	4.4
1982 .....	4.0	4.0	2.9	3.0	5.6	4.8	5.1	3.8	3.4	4.6
1983 .....	4.3	4.7	2.7	3.4	5.4	5.9	4.2	4.0	4.0	4.8
1984 .....	4.9	4.4	3.9	4.4	6.2	5.2	6.2	4.4	4.8	5.5
1985 .....	5.4	4.7	4.1	5.0	6.1	5.6	8.0	4.8	6.1	6.2
1986 .....	8.2	7.5	6.1	7.5	11.8	7.3	8.1	7.0	7.6	11.7
1987 .....	8.3	7.8	6.5	8.0	10.2	7.0	8.3	6.5	9.7	12.1

Source: American Humane Association, Denver, CO, *National Analysis of Official Child Neglect and Abuse Reporting*, annual, and unpublished data.

**No. 306. Child Maltreatment Cases Reported—Summary: 1976 to 1986**

[In percent, except as indicated. Total number of children reported is generally a duplicate count in that a child may be reported and therefore enumerated more than once each year. Because of differences in enumeration methods, a relatively small number of States (5 to 10) can provide only unduplicated reports, whereas most States provide only duplicated counts]

ITEM	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
<b>Number of children reported (1,000):</b> .....	<b>669</b>	<b>838</b>	<b>836</b>	<b>988</b>	<b>1,154</b>	<b>1,225</b>	<b>1,262</b>	<b>1,477</b>	<b>1,727</b>	<b>1,928</b>	<b>2,086</b>
Rate per 10,000 children .....	101	128	129	154	181	194	201	236	273	306	328
Type of maltreatment:											
Deprivation of necessities .....	70.7	64.0	62.9	63.1	60.7	59.4	62.5	58.4	54.6	53.6	54.9
Minor physical injury .....	18.9	20.8	21.2	15.4	19.8	20.4	16.8	18.5	17.7	17.8	13.9
Sexual maltreatment .....	3.2	6.1	6.6	5.8	6.8	7.5	6.9	8.5	13.3	13.8	15.7
Emotional maltreatment .....	21.6	25.4	23.8	14.9	13.5	11.9	10.0	10.1	11.2	11.5	8.3
Other maltreatment .....	11.2	11.6	11.3	15.8	14.7	19	16.3	16.7	16.5	13.8	21.6
Characteristics of child involved:											
Age, average (years) .....	7.7	7.6	7.4	7.5	7.3	7.2	7.1	7.1	7.2	7.2	7.2
Sex: Male .....	50.0	49.9	49.4	49.5	49.8	49.2	49.5	48.9	48.0	47.6	47.5
Female .....	50.0	50.1	50.6	50.5	50.2	50.5	50.5	51.1	52.0	52.4	52.5
Characteristics of perpetrator:											
Age, average (years) .....	32.3	31.7	31.7	32.0	31.4	33.8	31.2	31.3	31.5	31.6	31.7
Sex: Male .....	39.0	39.2	39.0	38.1	41.2	39.3	38.6	40.4	43.0	44.1	44.1
Female .....	61.0	60.8	61.0	61.9	58.8	60.7	61.4	59.6	57.0	55.9	55.9

Source: American Humane Association, Denver, CO, *National Study on Child Neglect and Abuse Reporting*, annual.

**No. 307. Persons Arrested, by Charge, Sex, and Age: 1989**

[Represents arrests (not charges) reported by 10,503 agencies (reporting 12 months) with a total 1989 population of 200 million as estimated by FBI]

CHARGE	Total (1,000)	PERCENT DISTRIBUTION							
		Male	Under 15 years	Under 18 years	18-24 years	25-44 years	45-64 years	55-64 years	65 yr. and over
<b>Total arrests</b>	<b>11,261</b>	<b>82.0</b>	<b>5.2</b>	<b>15.5</b>	<b>30.5</b>	<b>46.8</b>	<b>4.7</b>	<b>1.8</b>	<b>0.7</b>
<b>Serious crimes<sup>1</sup></b>	<b>2,345</b>	<b>78.9</b>	<b>11.0</b>	<b>27.3</b>	<b>28.8</b>	<b>38.4</b>	<b>3.4</b>	<b>1.4</b>	<b>0.8</b>
Murder and nonnegligent manslaughter	18	88.1	1.6	12.3	36.5	43.3	4.6	2.2	1.1
Forcible rape	31	98.8	5.6	15.4	28.2	49.1	4.7	1.8	0.8
Robbery	134	91.4	6.6	23.0	36.7	38.6	1.3	0.3	0.1
Aggravated assault	355	86.6	4.0	13.3	28.0	51.0	5.2	1.9	0.8
Burglary	357	91.3	12.6	31.9	32.8	33.3	1.5	0.4	0.1
Larceny—theft	1,254	69.6	12.9	28.7	26.5	38.1	3.8	1.8	1.1
Motor vehicle theft	183	89.8	11.2	40.9	32.2	25.4	1.2	0.3	0.1
Arson	15	86.4	29.7	43.4	20.6	30.1	3.9	1.5	0.6
<b>All other nonserious crimes:</b>									
Other assaults	772	84.4	5.7	14.6	27.7	51.0	4.5	1.5	0.6
Forgery and counterfeiting	81	66.2	1.1	7.7	34.7	53.3	3.3	0.8	0.2
Fraud	290	54.3	1.0	3.2	27.6	60.8	5.9	1.7	0.7
Embezzlement	13	61.2	1.0	8.5	35.2	48.8	5.5	1.5	0.3
Stolen property	142	88.3	6.8	25.0	36.5	35.1	2.5	0.7	0.2
Vandalism	248	89.0	19.6	39.3	28.5	29.3	1.9	0.6	0.3
Weapons (carrying, etc.)	181	92.2	4.5	17.5	33.9	41.6	4.5	1.8	0.7
Prostitution and commercialized vice	89	31.0	0.2	1.5	32.0	62.3	2.9	1.0	0.4
Sex offenses <sup>2</sup>	83	92.4	8.1	16.3	21.6	48.9	7.5	3.7	1.9
Drug abuse violations	1,076	83.7	1.1	8.4	35.1	53.2	2.6	0.6	0.2
Gambling	17	85.1	0.9	5.6	15.7	44.1	17.6	11.4	5.6
Offenses against family and children	59	82.2	1.3	3.8	24.5	63.8	5.8	1.5	0.6
Driving while intoxicated	1,333	87.8	(2)	1.2	25.7	59.8	8.5	3.6	1.2
Liquor laws	503	81.1	1.9	23.3	56.0	17.2	2.2	1.0	0.4
Drunkenness	668	90.3	0.3	2.6	23.4	57.4	10.0	4.9	1.8
Disorderly conduct	646	81.5	4.6	15.5	33.6	44.5	4.2	1.6	0.7
Vagrancy	30	86.5	2.3	7.9	24.4	55.6	8.3	3.0	0.8
Suspicion	14	84.2	6.0	17.4	29.3	49.4	2.8	0.9	0.3
Curfew, loitering (juveniles)	65	74.3	29.7	100.0	(X)	(X)	(X)	(X)	(X)
Runaways (juveniles)	130	44.0	42.8	100.0	(X)	(X)	(X)	(X)	(X)
All other offenses, except traffic	2,477	83.7	3.0	10.2	32.2	50.8	4.6	1.6	0.7

X Not applicable. <sup>3</sup> Less than .05 percent. <sup>1</sup> Includes arson arrests, a newly established index offense in 1979.

<sup>2</sup> Breaking or entering. <sup>3</sup> Buying, receiving, possessing. <sup>4</sup> Excludes forcible rape and prostitution, shown separately.

Source: U.S. Federal Bureau of Investigation, *Crime in the United States*, annual.

**No. 308. Drug Use Among Persons Arrested—Percent Testing Positive, by Sex and Selected City: 1989 and 1990**

[Based on the Drug Use Forecasting System, which measures drug use among persons arrested for primarily serious nondrug crimes. The program obtains voluntary, confidential urinalysis specimens from a new sample of arrestees each quarter]

CITY	MALES					FEMALES				
	Oct.- Dec. 1989	Jan.- Mar. 1990	Apr.- June 1990	July- Sept. 1990	Oct.- Dec. 1990	Oct.- Dec. 1989	Jan.- Mar. 1990	Apr.- June 1990	July- Sept. 1990	Oct.- Dec. 1990
Birmingham, AL	60	69	69	56	60	43	66	67	74	58
Chicago, IL	71	75	71	75	72	(NA)	(NA)	(NA)	(NA)	(NA)
Cleveland, OH	62	65	49	49	57	(NA)	88	67	(NA)	71
Dallas, TX	60	66	57	51	50	46	70	63	51	56
Denver, CO	(NA)	58	51	35	46	(NA)	62	55	53	52
Detroit, MI	52	59	46	45	56	(NA)	78	70	67	77
Ft. Lauderdale, FL	64	61	66	56	57	56	79	67	66	54
Houston, TX	62	70	71	60	55	48	66	68	49	53
Indianapolis, IN	57	60	49	33	38	46	56	40	28	26
Kansas City, MO	57	57	43	39	42	68	76	56	56	69
Los Angeles, CA	63	70	67	66	56	76	73	71	71	69
New Orleans, LA	68	60	64	62	58	62	65	63	55	56
New York, NY	76	79	69	80	75	72	71	71	70	(NA)
Omaha, NE	(NA)	(NA)	47	22	23	(NA)	(NA)	(NA)	(NA)	(NA)
Philadelphia, PA	81	80	78	73	72	78	81	79	74	69
Phoenix, AZ	57	60	67	45	44	64	69	68	55	47
Portland, OR	68	64	59	57	70	57	76	51	57	56
St. Louis, MO	62	62	62	42	48	61	69	64	52	46
San Antonio, TX	49	63	55	43	44	43	44	36	43	45
San Diego, CA	80	80	80	79	74	74	70	83	75	72
San Jose, CA	59	58	59	49	54	59	64	56	48	61
Washington, D.C.	57	59	53	58	55	72	85	70	72	58

NA Not available.

Source: U.S. National Institute of Justice, *Drug Use Forecasting*, quarterly.

### No. 309. Drug Arrest Rates for Drug Abuse Violations, 1980 to 1989, and by Sex and Region, 1989

[Rate per 100,000 inhabitants. Based on Bureau of the Census estimated resident population as of July 1, except 1980, enumerated as of April 1. For composition of regions, see fig. 1 inside front cover]

OFFENSE	1980	1985	1988	1989						
				Total	Sex		Region			
					Male	Female	North-east	Mid-west	South	West
Drug arrest rate, total . . . . .	256.0	346.2	423.4	526.1	903.6	167.2	621.7	312.2	440.4	768.7
Sale and/or manufacture . . . . .	57.9	82.0	118.8	170.3	297.2	49.6	229.5	142.4	129.3	198.2
Heroin or cocaine . . . . .	10.8	27.8	75.1	100.6	175.5	29.4	186.8	29.2	76.6	127.4
Marijuana . . . . .	28.4	36.4	23.6	32.9	58.8	8.2	29.5	34.0	26.9	42.4
Synthetic or manufactured drugs . . . . .	2.8	2.6	3.5	3.8	6.4	1.4	4.9	2.1	6.1	1.6
Other dangerous nonnarcotic drugs . . . . .	15.9	15.2	16.7	32.9	56.5	10.6	8.3	77.1	19.7	26.8
Possession . . . . .	198.1	264.1	304.6	355.8	606.4	117.6	392.2	169.8	311.0	570.5
Heroin or cocaine . . . . .	22.2	74.4	147.2	182.8	305.3	66.3	232.3	52.3	131.8	336.9
Marijuana . . . . .	146.2	156.1	118.5	121.3	218.3	29.1	136.2	88.8	146.2	109.4
Synthetic or manufactured drugs . . . . .	6.7	5.6	7.9	7.4	12.2	2.9	7.4	3.5	13.6	3.6
Other dangerous nonnarcotic drugs . . . . .	23.0	28.1	31.0	44.3	70.6	19.3	16.4	25.1	19.4	120.6

<sup>1</sup> Includes other derivatives such as morphine, heroin, and codeine.

Source: U.S. Federal Bureau of Investigation, *Crime in the United States*, annual.

### No. 310. Drug Removals, Laboratory Seizures, and Persons Indicted, by DEA: 1984 to 1989

[Represents domestic drug removals. 1 kg = .454 lbs; du = dosage unit. Minus sign (—) indicates decrease]

ITEM	Unit	1984	1985	1986	1987	1988	1989	PERCENT CHANGE	
								1984-89	1988-89
Domestic drug removals:									
Heroin . . . . .	kg. . . . .	346	447	382	382	829	776	124.3	6.4
Cocaine . . . . .	kg. . . . .	11,742	18,129	26,954	37,405	57,113	82,438	602.1	44.3
Cannabis (Marijuana) . . . . .	1,000 kg. . . . .	1,400	745	711	649	602	336	-76.0	-44.2
Dangerous drugs . . . . .	mil. du. . . . .	14	26	32	34	114	109	678.6	-4.4
Clandestine laboratory seizures . . . . .	Number . . . . .	290	338	509	682	810	852	193.8	5.2
Narcotic Title III intercepts . . . . .	Number . . . . .	83	136	79	93	129	192	131.3	48.8
Asset removals:									
Total seizures . . . . .	\$1,000 . . . . .	150,975	246,344	401,415	504,397	671,290	975,884	546.4	45.4
DEA seizures . . . . .	\$1,000 . . . . .	92,545	171,888	310,730	402,071	483,355	659,802	613.0	36.5
Seizures through interagency cooperation . . . . .	\$1,000 . . . . .	58,431	74,456	90,684	102,308	187,936	316,082	440.9	68.2
Arrests . . . . .	Number . . . . .	13,126	15,727	18,687	21,869	23,994	25,718	95.9	7.2
Convictions . . . . .	Number . . . . .	10,809	10,519	12,028	12,427	13,091	15,917	47.3	21.6

Source: Drug Enforcement Administration (DEA), *Annual Statistical Report*.

### No. 311. Authorized Intercepts of Communication—Summary: 1970 to 1989

[Data for jurisdictions with statutes authorizing or approving interception of wire or oral communication]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Jurisdictions: <sup>1</sup>													
With wiretap statutes . . . . .	19	24	26	28	29	29	31	31	32	32	33	34	37
Reporting interceptions . . . . .	12	18	20	22	22	22	20	24	22	24	22	23	25
Intercept applications authorized. . . . .	596	701	553	564	589	578	648	801	784	754	673	738	763
Intercept installations . . . . .	582	676	533	524	562	518	602	773	722	676	634	678	720
Federal . . . . .	179	106	87	79	106	129	205	277	235	247	233	286	305
State . . . . .	403	570	446	445	456	389	397	496	487	429	401	392	415
Intercepted communications, avg. <sup>2</sup> . . . . .	656	654	866	1,058	848	1,082	1,107	1,209	1,320	1,328	1,299	1,251	1,656
Incriminating . . . . .	296	305	252	315	190	209	229	298	275	253	230	316	337
Persons arrested . . . . .	1,874	2,234	1,717	1,871	1,735	1,725	1,716	2,393	2,469	2,410	2,226	2,486	2,804
Convictions <sup>3</sup> . . . . .	151	336	368	259	248	453	521	649	660	761	506	543	706
Major offense specified:													
Gambling . . . . .	325	408	204	199	156	150	157	186	206	189	135	126	111
Drugs . . . . .	127	178	250	282	318	333	360	483	434	348	379	435	471
Homicide and assault . . . . .	21	16	29	13	33	31	31	30	25	34	18	14	20
Other . . . . .	123	99	70	70	82	64	100	102	119	183	-141	163	161

<sup>1</sup> Jurisdictions include Federal Government, States, and beginning 1975, District of Columbia. <sup>2</sup> Average per authorized installation. <sup>3</sup> Based on information received from intercepts installed in year shown; additional arrests/convictions will occur in subsequent years but are not shown here.

Source: Administrative Office of the U.S. Courts, *Report on Applications for Orders Authorizing or Approving the Interception of Wire, Oral or Electronic Communications*, (Wiretap Report), annual.

**No. 312. Aliens Expelled and Immigration Violations: 1970 to 1989**

[For fiscal years ending in year shown. See text, section 9. See also *Historical Statistics, Colonial Times to 1970*, series C 144, C 149, and C 158-160]

ITEM	Unit	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
<b>Aliens expelled.</b>	<b>1,000</b>	<b>320</b>	<b>679</b>	<b>736</b>	<b>944</b>	<b>931</b>	<b>1,067</b>	<b>1,612</b>	<b>1,117</b>	<b>937</b>	<b>860</b>
Deported	1,000	17	23	17	18	18	21	22	22	23	29
Entry without inspection or by false statements	Percent	47.6	70.5	84.0	79.4	81.1	80.1	80.4	71.5	67.0	68.8
Required to depart	1000	303	656	719	927	913	1,046	1,589	1,094	914	831
<b>Prosecutions disposed of</b>	<b>Number</b>	<b>6,034</b>	<b>14,172</b>	<b>14,863</b>	<b>16,493</b>	<b>17,980</b>	<b>17,688</b>	<b>23,405</b>	<b>18,894</b>	<b>18,360</b>	<b>18,580</b>
Immigration violations	Number	5,510	13,947	14,498	15,848	16,989	16,976	22,751	18,200	17,590	17,992
Nationality violations	Number	524	225	365	645	991	712	654	694	770	588
<b>Convictions</b>	<b>Number</b>	<b>5,497</b>	<b>12,811</b>	<b>12,935</b>	<b>11,233</b>	<b>10,546</b>	<b>9,833</b>	<b>15,259</b>	<b>11,996</b>	<b>12,208</b>	<b>12,561</b>
Immigration violations	Number	4,991	12,676	12,678	10,947	10,237	9,635	15,104	11,786	11,929	12,379
Nationality violations	Number	506	135	257	286	309	198	155	210	279	182

**No. 313. Immigration Border Patrol and Investigation Activities: 1980 to 1989**

[In thousands, except where indicated. For fiscal years ending in year shown. See text, section 9]

ITEM	1980	1985	1988	1989	ITEM	1980	1985	1988	1989
<b>BORDER PATROL</b>					Conveyances examined	3,849	4,901	9,479	7,807
Border patrol agents:					Automobiles	2,590	3,468	5,137	5,780
Authorized (number)	2,484	3,228	4,812	4,804	Persons questioned <sup>3</sup>	10,844	13,490	20,850	19,806
On duty (number)	2,329	3,023	4,074	3,857	In automobiles	6,328	8,093	14,507	13,325
Border patrol obligations (mil. dol.)	82.5	141.9	205.3	232.3	Pedestrians	1,706	2,063	1,765	1,547
Persons apprehended <sup>1</sup>	766.6	1,272.4	980.5	906.5	Number of seizures	1,920	7,827	6,643	10,789
Deportable aliens located <sup>2</sup>	759.4	1,262.4	971.1	893.0	Value of seizures (mil. dol.)	116.1	138.8	745.8	246.0
Mexican	734.2	1,218.7	929.8	832.2	Narcotics (mil. dol.)	110.3	119.1	700.5	191.5
Canadian	5.3	5.9	4.3	5.3	<b>INVESTIGATION</b>				
Other	19.9	37.8	37.0	55.5	Deportable aliens located	150.9	83.9	37	61.1
Aliens located:					Mexican	83.3	48.3	19.9	33.1
Previously expelled	211.0	372.0	287.7	240.8	Canadian	1.5	1.1	0.4	0.5
Previous criminal record	11.3	9.8	16.6	17.6	Other	66.1	34.5	16.7	28.5

<sup>1</sup> Covers deportable aliens located and U.S. citizens engaged in smuggling or other immigration violations. <sup>2</sup> Beginning 1988, includes apprehension by the antismuggling unit. <sup>3</sup> Includes types not shown separately.

Source of tables 312 and 313: U.S. Immigration and Naturalization Service, *Statistical Yearbook*, annual; and unpublished data.

**No. 314. Law Enforcement Officers Killed, by Division, or Assaulted, by Type of Weapon Used: 1980 to 1989**

[Covers officers killed feloniously and accidentally in line of duty; includes Federal officers. 1988 excludes Florida and Kentucky. For composition of regions, see fig. 1, inside front cover. See also *Historical Statistics, Colonial Times to 1970*, series H 987-998]

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>OFFICERS KILLED</b>										
<b>Total killed.</b>	<b>165</b>	<b>2157</b>	<b>3164</b>	<b>4152</b>	<b>147</b>	<b>5148</b>	<b>133</b>	<b>148</b>	<b>6155</b>	<b>7146</b>
Northeast	31	17	17	20	21	19	15	24	17	23
Midwest	23	29	41	26	22	23	20	31	18	22
South	72	80	75	64	69	64	63	51	77	68
West	32	27	27	34	32	29	29	40	39	23
Puerto Rico	6	3	3	6	3	10	6	2	-	8
<b>ASSAULTS</b>										
Population (1,000) <sup>8</sup>	182,288	177,836	176,563	196,341	195,794	198,935	196,030	190,025	186,418	189,641
Number of:										
Agencies represented	9,235	9,019	8,829	9,908	10,002	9,906	9,755	8,957	8,866	9,213
Police officers	345,554	332,856	319,101	377,620	372,268	389,808	380,249	378,977	368,743	380,232
<b>Total assaulted.</b>	<b>57,847</b>	<b>57,116</b>	<b>55,775</b>	<b>62,324</b>	<b>60,153</b>	<b>61,724</b>	<b>64,259</b>	<b>63,842</b>	<b>58,752</b>	<b>62,172</b>
Firearm	3,295	3,330	2,642	3,067	2,654	2,793	2,852	2,769	2,759	3,154
Knife or cutting instrument	1,653	1,733	1,452	1,829	1,662	1,715	1,614	1,561	1,367	1,379
Other dangerous weapon	5,415	4,800	4,879	5,527	5,148	5,263	5,721	5,665	5,573	5,778
Hands, fists, feet, etc	47,484	47,253	46,802	51,901	50,689	51,953	54,072	53,807	49,053	51,861

<sup>1</sup> Includes one officer in Virgin Islands. <sup>2</sup> Includes one officer in American Samoa. <sup>3</sup> Includes one officer in Mariana Islands. <sup>4</sup> Includes one officer each in Guam and Mariana Islands. <sup>5</sup> Includes one officer in Guam and 2 in foreign locations. <sup>6</sup> Includes one officer in American Samoa and 2 in foreign locations. <sup>7</sup> Includes 1 officer killed in Guam and 1 Federal officer killed in Peru. <sup>8</sup> Represents the number of persons covered by agencies shown.

Source: U.S. Federal Bureau of Investigation, *Law Enforcement Officers Killed and Assaulted*, annual.

### No. 315. Criminal Justice System—Public Expenditures and Employment, by Activity and Level of Government: 1985

[Based on a sample survey of local governments. Data for State governments were compiled from State financial records and for the Federal Government from the *Budget of the United States Government, Fiscal Year 1987*]

TYPE OF GOVERNMENT	Total	Percent change from 1979	ACTIVITY					
			Police protection	Judicial	Legal services	Public defense	Corrections	Other justice
<b>TOTAL EXPENDITURES<sup>1</sup></b> (mil. dol.)								
All governments <sup>2</sup>	45,607	75.2	22,014	5,780	3,236	1,055	13,034	489
Federal government	5,819	43.1	2,768	852	804	343	779	274
State and local government	39,923	76.3	19,246	4,928	2,432	711	12,328	278
State government	16,013	89.2	3,511	2,262	800	298	6,884	259
Local government	25,373	64.7	16,026	2,841	1,661	433	4,316	96
<b>FULL-TIME EQUIVALENT EMPLOYMENT</b> (1,000)								
All governments <sup>2</sup>	1,369	16.2	693	181	90	12	387	6
Federal government	108	4.9	61	15	16	(Z)	14	1
State and local government <sup>2</sup>	1,260	17.2	632	166	74	11	373	6
State government	431	31.0	99	61	23	6	239	4
Local government	829	11.1	533	105	51	5	134	2

Z Fewer than 500. <sup>1</sup> Covers direct and intergovernmental expenditures. <sup>2</sup> Totals are adjusted to exclude duplication from intergovernmental expenditures.

Source: U.S. Bureau of Justice Statistics, *Justice Expenditure and Employment in the U.S., 1985*, July 1989.

### No. 316. General Purpose Law Enforcement Agencies—Number, Employment, and Expenditures: 1987

[Includes both full-time and part-time employees. State police data are based on the 49 main State police agencies; Hawaii does not have a State police agency. Expenditure data cover fiscal years ending in year stated]

TYPE OF AGENCY	Number of agencies <sup>1</sup>	NUMBER OF EMPLOYEES			EXPENDITURES (mil. dol.)		
		Total	Sworn	Civilian	Total	Operating	Capital
<b>NUMBER</b>							
Total	15,118	757,508	555,364	202,144	28,071.1	26,334.4	1,736.6
Local police	11,989	493,930	376,023	117,907	18,011.3	17,161.4	849.9
Sheriff	3,080	189,234	128,728	60,506	6,857.8	6,200.2	657.6
State police	49	74,344	50,613	23,731	3,202.0	2,972.9	229.1
<b>PERCENT</b>							
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Local police	79.3	65.2	67.7	58.3	64.2	65.2	48.9
Sheriff	20.4	25.0	23.2	29.9	24.4	23.5	37.9
State police	0.3	9.8	9.1	11.7	11.4	11.3	13.2

<sup>1</sup> The number of agencies reported here is the result of a weighted sample and not an exact enumeration.

Source: U.S. Bureau of Justice Statistics, *Profile of State and Local Law Enforcement Agencies, 1987*, March 1989.

### No. 317. Special Functions of Local Police Agencies: 1987

[Special functions are those functions that go beyond such traditional law enforcement functions as traffic enforcement, accident investigation, crime investigation, patrol, fingerprinting, and communications]

POPULATION SERVED	PERCENT OF ALL AGENCIES THAT REPORTED HAVING PRIMARY RESPONSIBILITY FOR—								
	Animal control	Emergency medical services	Court security	Civil defense	Civil process-serving	Jail operations	Training academy operation	Laboratory testing for drugs	Ballistics work
<b>All sizes</b>	<b>49.9</b>	<b>25.3</b>	<b>21.8</b>	<b>21.1</b>	<b>17.7</b>	<b>12.4</b>	<b>6.5</b>	<b>4.3</b>	<b>2.2</b>
1,000,000 or more	-	30.6	7.6	30.8	7.6	15.4	84.7	76.9	76.9
500,000-999,999	6.9	20.6	10.4	20.6	6.9	10.4	82.8	48.2	55.2
250,000-499,999	16.7	9.5	11.9	14.3	7.1	23.8	85.7	45.3	47.6
100,000-249,999	28.6	17.6	19.1	14.2	8.1	33.0	49.9	16.9	13.9
50,000-99,999	50.0	27.1	33.7	28.6	9.3	25.5	25.7	17.1	3.5
25,000-49,999	51.2	26.4	27.8	21.5	9.2	25.6	9.8	9.6	0.8
10,000-24,999	54.2	27.9	24.6	23.0	11.7	20.8	6.9	4.2	2.1
2,500-9,999	55.2	27.4	23.1	21.5	16.3	12.5	5.2	3.0	1.0
Under 2,500	44.7	22.4	17.9	19.6	23.9	5.1	2.8	2.5	2.1

- Represents zero.

Source: U.S. Bureau of Justice Statistics, *Profile of State and Local Law Enforcement Agencies, 1987*, March 1989.

**No. 318. State and Local Government Police Protection and Correction—Employment and Expenditures: 1988**

[Employment as of October. Expenditures for fiscal years ending between July 1987 and June 1988. Local government data are estimates subject to sampling variation; see Appendix III and source. For composition of regions, see fig. 1, inside front cover.]

REGION, DIVISION, AND STATE	FULL-TIME EQUIVALENT EMPLOYMENT					EXPENDITURES			
	Total	Police protection	Correction	Per 10,000 population <sup>1</sup>		Total <sup>2</sup> (mil. dol.)	Per capita (dol.)	Police protection (mil. dol.)	Correction (mil. dol.)
				Police protection	Correction				
<b>United States</b> . . .	<b>1,106,891</b>	<b>671,654</b>	<b>435,237</b>	<b>27.3</b>	<b>17.7</b>	<b>56,453</b>	<b>230</b>	<b>26,277</b>	<b>18,963</b>
<b>Northeast</b> . . . . .	<b>261,433</b>	<b>162,186</b>	<b>99,247</b>	<b>32.1</b>	<b>19.6</b>	<b>13,876</b>	<b>274</b>	<b>6,432</b>	<b>4,542</b>
<b>New England</b> . . . . .	<b>52,863</b>	<b>36,796</b>	<b>16,067</b>	<b>28.4</b>	<b>12.4</b>	<b>2,833</b>	<b>219</b>	<b>1,421</b>	<b>790</b>
Maine . . . . .	4,228	2,777	1,451	23.0	12.0	171	142	79	59
New Hampshire . . . . .	3,823	2,756	1,067	25.4	9.8	192	177	95	49
Vermont . . . . .	1,801	1,224	577	22.0	10.4	81	145	39	22
Massachusetts . . . . .	25,295	17,881	7,414	30.4	12.6	1,443	245	716	409
Rhode Island . . . . .	3,999	2,803	1,196	28.2	12.0	201	203	102	52
Connecticut . . . . .	13,717	9,355	4,362	28.9	13.5	745	230	390	199
<b>Middle Atlantic</b> . . . . .	<b>208,570</b>	<b>125,390</b>	<b>83,180</b>	<b>33.3</b>	<b>22.1</b>	<b>11,043</b>	<b>294</b>	<b>5,011</b>	<b>3,752</b>
New York . . . . .	118,463	66,261	52,202	37.0	29.1	6,865	383	3,032	2,500
New Jersey . . . . .	46,736	30,476	16,260	39.5	21.1	2,125	275	1,054	629
Pennsylvania . . . . .	43,371	28,653	14,718	23.9	12.3	2,053	171	926	623
<b>Midwest</b> . . . . .	<b>232,156</b>	<b>153,034</b>	<b>79,122</b>	<b>25.6</b>	<b>13.2</b>	<b>11,363</b>	<b>190</b>	<b>5,660</b>	<b>3,384</b>
<b>East North Central</b> . . . . .	<b>189,564</b>	<b>112,153</b>	<b>57,411</b>	<b>26.6</b>	<b>13.6</b>	<b>8,520</b>	<b>202</b>	<b>4,250</b>	<b>2,577</b>
Ohio . . . . .	38,432	24,947	13,485	23.0	12.4	2,126	196	964	729
Indiana . . . . .	19,074	12,306	6,768	22.1	12.2	727	131	342	239
Illinois . . . . .	54,485	38,541	15,944	33.2	13.7	2,435	210	1,370	604
Michigan . . . . .	39,440	23,463	15,977	25.4	17.3	2,292	248	1,052	770
Wisconsin . . . . .	18,133	12,896	5,237	26.6	10.8	940	194	521	234
<b>West North Central</b> . . . . .	<b>62,592</b>	<b>40,881</b>	<b>21,711</b>	<b>23.0</b>	<b>12.2</b>	<b>2,843</b>	<b>160</b>	<b>1,410</b>	<b>807</b>
Minnesota . . . . .	12,949	8,564	4,385	19.9	10.2	801	186	383	230
Iowa . . . . .	8,317	5,713	2,604	20.2	9.2	409	144	196	108
Missouri . . . . .	21,186	13,665	7,521	26.6	14.6	837	163	442	246
North Dakota . . . . .	1,784	1,303	481	19.5	7.2	82	123	37	20
South Dakota . . . . .	2,212	1,497	715	21.0	10.0	91	127	46	25
Nebraska . . . . .	5,826	3,619	2,207	22.6	13.8	226	141	113	65
Kansas . . . . .	10,318	6,520	3,798	26.1	15.2	397	159	193	113
<b>South</b> . . . . .	<b>378,897</b>	<b>218,604</b>	<b>160,293</b>	<b>25.8</b>	<b>18.9</b>	<b>16,229</b>	<b>192</b>	<b>7,541</b>	<b>5,720</b>
<b>South Atlantic</b> . . . . .	<b>210,522</b>	<b>116,902</b>	<b>93,620</b>	<b>27.6</b>	<b>22.1</b>	<b>9,517</b>	<b>224</b>	<b>4,332</b>	<b>3,484</b>
Delaware . . . . .	3,349	1,769	1,580	26.8	23.9	171	260	76	55
Maryland . . . . .	25,305	14,041	11,264	30.4	24.4	1,232	267	551	462
District of Columbia . . . . .	8,291	4,594	3,697	73.4	59.1	591	958	231	255
Virginia . . . . .	27,646	14,136	13,510	23.5	22.5	1,227	204	553	449
West Virginia . . . . .	4,511	3,184	1,327	17.0	7.1	169	90	81	43
North Carolina . . . . .	26,889	15,728	11,161	24.2	17.2	1,149	177	511	463
South Carolina . . . . .	16,004	8,335	7,669	24.0	22.1	560	161	230	255
Georgia . . . . .	29,158	16,532	12,626	26.1	19.9	1,186	187	529	459
Florida . . . . .	69,369	38,583	30,786	31.3	25.0	3,231	262	1,570	1,043
<b>East South Central</b> . . . . .	<b>54,880</b>	<b>33,814</b>	<b>21,066</b>	<b>22.0</b>	<b>13.7</b>	<b>2,154</b>	<b>140</b>	<b>993</b>	<b>736</b>
Kentucky . . . . .	11,941	7,326	4,615	19.7	12.4	523	140	228	178
Tennessee . . . . .	19,927	11,435	8,492	23.4	17.3	771	157	343	298
Alabama . . . . .	14,699	9,556	5,143	23.3	12.5	595	145	274	192
Mississippi . . . . .	8,313	5,497	2,816	21.0	10.7	266	101	147	69
<b>West South Central</b> . . . . .	<b>113,495</b>	<b>67,888</b>	<b>45,607</b>	<b>25.2</b>	<b>17.0</b>	<b>4,558</b>	<b>170</b>	<b>2,216</b>	<b>1,501</b>
Arkansas . . . . .	7,416	4,782	2,634	20.0	11.0	246	103	125	72
Louisiana . . . . .	20,021	12,090	7,931	27.4	18.0	850	193	426	253
Oklahoma . . . . .	13,262	8,632	4,630	26.6	14.3	485	149	229	176
Texas . . . . .	72,796	42,384	30,412	25.2	18.1	2,978	177	1,437	1,000
<b>West</b> . . . . .	<b>234,405</b>	<b>137,830</b>	<b>96,575</b>	<b>27.2</b>	<b>19.1</b>	<b>14,985</b>	<b>296</b>	<b>6,644</b>	<b>5,317</b>
<b>Mountain</b> . . . . .	<b>60,676</b>	<b>37,186</b>	<b>23,490</b>	<b>27.9</b>	<b>17.6</b>	<b>3,186</b>	<b>239</b>	<b>1,493</b>	<b>1,047</b>
Montana . . . . .	2,824	1,811	1,013	22.5	12.6	123	153	62	30
Idaho . . . . .	3,383	2,434	949	24.3	9.5	148	147	75	42
Wyoming . . . . .	2,365	1,633	732	34.1	15.3	109	227	58	27
Colorado . . . . .	13,724	8,941	4,783	27.1	14.5	768	233	383	225
New Mexico . . . . .	7,734	4,438	3,296	29.4	21.9	318	211	147	112
Arizona . . . . .	18,929	10,232	8,697	29.3	24.9	1,045	300	480	354
Utah . . . . .	5,391	3,596	1,795	21.3	10.6	288	170	137	91
Nevada . . . . .	6,326	4,101	2,225	38.9	21.1	387	367	150	167
<b>Pacific</b> . . . . .	<b>173,729</b>	<b>100,644</b>	<b>73,085</b>	<b>26.9</b>	<b>19.6</b>	<b>11,799</b>	<b>316</b>	<b>5,151</b>	<b>4,270</b>
Washington . . . . .	17,917	10,081	7,836	21.7	16.9	938	202	428	318
Oregon . . . . .	10,346	6,174	4,172	22.3	15.1	588	212	284	173
California . . . . .	138,148	79,868	58,280	28.2	20.6	9,709	343	4,211	3,614
Alaska . . . . .	2,803	1,562	1,241	29.8	23.7	293	559	109	93
Hawaii . . . . .	4,515	2,959	1,556	26.9	14.2	273	248	118	72

<sup>1</sup> Based on resident population as of July 1. <sup>2</sup> Includes judicial and legal, not shown separately.

Source: U.S. Bureau of the Census, *Public Employment*, series GE No. 1, annual, and *Government Finances*, series GF, annual.

## No. 319. Lawyers—Selected Characteristics: 1954 to 1985

[See headnote, table 320. See also *Historical Statistics, Colonial Times to 1970*, series H 1028-1062]

CHARACTERISTIC	1954	1957	1960	1963	1966	1970	1980	1985
All lawyers <sup>1</sup>	241,514	262,320	285,933	296,069	316,656	355,242	542,205	655,191
Lawyers reporting <sup>2</sup>	221,600	235,783	252,385	268,782	289,404	324,818	(X)	(X)
Male	216,564	229,433	245,897	261,639	281,336	315,715	498,019	569,649
Female	5,036	6,350	6,488	7,143	8,068	9,103	44,185	85,542
Status in practice: <sup>3</sup>								
Government	21,279	24,245	25,621	29,314	31,280	35,803	50,490	53,035
Federal	9,040	12,458	13,045	15,113	16,284	18,710	20,132	19,989
State	3,561	4,000	4,316	6,486	7,416	9,293	30,358	33,046
City or county	8,678	7,787	8,260	7,715	7,580	7,800		
Judicial	7,903	7,910	8,180	8,748	9,712	10,349	19,160	21,677
Federal	621	769	599	707	800	878	2,611	3,003
State and county	5,041	5,056	5,301	5,712	6,823	7,548	16,549	18,674
City	2,241	2,085	2,260	2,329	2,089	1,923		
Private practice	189,423	188,955	192,353	200,586	212,662	236,085	370,111	460,206
Individual	127,389	122,389	116,911	113,127	113,273	118,963	179,923	216,336
Partner	51,668	54,966	60,709	70,064	78,544	92,442	190,187	177,392
Associate	10,366	11,600	14,733	17,395	20,845	24,680		66,478
Salaried	16,648	21,054	25,198	29,510	33,222	40,486	73,862	83,843
Private industry	15,063	18,911	22,533	26,492	29,405	33,593	54,626	63,622
Educational institutions	1,351	1,504	1,798	2,100	2,717	3,732	6,606	7,254
Other private employment	234	639	867	918	1,100	3,161	12,630	12,967
Inactive or retired	6,581	7,661	10,887	12,024	14,881	16,812	28,582	36,430

X Not applicable. <sup>1</sup> 1954-1970 includes lawyers not reporting and an adjustment (subtraction) for duplications; 1980 and 1985 weighted to account for non-reporters and duplicate listings. <sup>2</sup> 1954-1970 includes duplications; 1980 and 1985 figures are weighted to adjust for duplication of entries. <sup>3</sup> 1954-1970, in cases where more than one subentry was applicable, the individual was tabulated in each. In 1980 and 1985 lawyers who were in both private practice and government service are coded in private practice. <sup>4</sup> Associates are lawyers designated as such by their employers.

Source: American Bar Foundation, Chicago, IL, 1954-1970, *The 1971 Lawyer Statistical Report*, 1971 (copyright); 1980, *The Lawyer Statistical Report: A Statistical Profile of the U.S. Legal Profession in the 1980s*, 1985 (copyright); and 1985, *Supplement to The Lawyer Statistical Report: The U.S. Legal Profession in 1985, 1986* (copyright).

## No. 320. Lawyers, by State: 1970 to 1985

[Data based on 1971, 1980, and 1985 editions of *Martindale-Hubbell Law Directory*. Represents all persons who are members of the bar, including those in industries, educational institutions, etc., and those inactive or retired]

STATE	1970 <sup>1</sup>	1980 <sup>2</sup>	1985			STATE	1970 <sup>1</sup>	1980 <sup>2</sup>	1985		
			Total <sup>2</sup>	In private practice <sup>2</sup>	Population per lawyer <sup>3</sup>				Total <sup>2</sup>	In private practice <sup>2</sup>	Population per lawyer <sup>3</sup>
U.S. <sup>4</sup>	324,818	542,205	655,191	460,206	360	MO	7,230	10,731	12,439	8,531	403
AL	3,291	5,466	6,679	4,747	597	MT	978	1,617	2,006	1,432	411
AK	443	1,355	1,749	1,191	286	NE	2,481	3,722	4,289	2,876	374
AZ	2,618	5,657	7,535	5,248	405	NV	739	1,771	2,276	1,561	400
AR	1,969	3,188	3,741	2,586	628	NH	791	1,678	2,139	1,570	457
CA	31,580	64,840	82,001	60,719	312	NJ	11,126	18,400	23,301	16,429	323
CO	4,197	8,652	11,174	7,991	284	NM	1,201	2,508	3,164	2,302	450
CT	5,398	8,930	11,397	7,342	277	NY	48,312	62,745	72,575	52,130	244
DE	733	1,332	1,597	896	384	NC	4,367	7,459	9,265	6,520	665
DC	15,501	25,465	28,399	12,617	22	ND	728	1,101	1,290	888	532
FL	10,917	23,521	30,444	21,709	361	OH	15,349	23,949	27,191	19,125	395
GA	5,517	11,087	13,652	10,097	428	OK	4,637	7,034	8,302	5,923	397
HI	857	2,027	2,787	2,019	373	OR	2,996	5,803	7,365	5,337	362
ID	803	1,706	2,031	1,370	493	PA	13,557	22,672	27,798	20,393	426
IL	20,404	32,421	37,873	26,463	304	RI	1,284	2,070	2,527	1,909	381
IN	5,447	8,443	9,499	6,862	579	SC	2,236	4,195	5,021	3,755	657
IA	3,820	5,550	6,182	4,339	471	SD	812	1,125	1,230	860	574
KS	3,126	4,759	5,555	3,828	439	TN	4,770	7,802	8,762	6,206	537
KY	3,625	6,200	7,017	4,941	531	TX	17,217	30,151	39,028	28,184	479
LA	5,089	8,752	10,569	8,272	422	UT	1,309	2,480	3,446	2,565	376
ME	1,068	2,062	2,528	1,848	457	VT	581	1,095	1,372	979	386
MD	6,619	10,648	12,866	8,405	338	VA	6,401	10,895	13,390	9,031	421
MA	11,316	18,537	22,154	16,579	262	WA	4,466	8,468	11,507	8,411	378
MI	10,569	17,443	20,445	14,501	444	WV	1,719	2,566	2,835	2,033	689
MN	5,481	9,433	11,343	7,767	367	WI	6,177	9,117	10,315	7,187	462
MS	2,517	3,850	4,270	3,198	608	WY	449	927	1,116	755	458

<sup>1</sup> Represents lawyers reporting only. Includes an estimated adjustment (subtraction) to account for duplications. Based on reporting from approximately 90 percent of all lawyers. <sup>2</sup> Weighted to account for non-reporters and duplicate listings. <sup>3</sup> Based on Bureau of the Census estimated resident population, including Armed Forces station in area as of July 1, 1984. <sup>4</sup> Total for U.S. counts each lawyer only once regardless of the number of offices maintained by the lawyer. If, however, a lawyer maintains an office in more than one State, the lawyer is included in the total shown for each State in which the lawyer maintains an office.

Source: American Bar Foundation, Chicago, IL, *The 1971 Lawyer Statistical Report*, 1971 (copyright); 1980, *The Lawyer Statistical Report: A Statistical Profile of the U.S. Legal Profession in the 1980s*, 1985 (copyright); and 1985, *Supplement to The Lawyer Statistical Report: The U.S. Legal Profession in 1985, 1986* (copyright).



**No. 321. U.S. Supreme Court—Cases Filed and Disposition: 1970 to 1989**

[Statutory term of court begins first Monday in **October**. See *Historical Statistics, Colonial Times to 1970*, series H 1063-1078, for related but not comparable data]

ACTION	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989 <sup>1</sup>
<b>Total cases on docket</b>	<b>4,212</b>	<b>4,761</b>	<b>5,144</b>	<b>5,100</b>	<b>5,006</b>	<b>5,158</b>	<b>5,123</b>	<b>5,268</b>	<b>5,657</b>	<b>4,990</b>
Appellate cases on docket	1,903	2,352	2,749	2,688	2,575	2,571	2,547	2,577	2,587	2,108
From prior term	325	431	527	520	539	400	476	440	446	384
Docketed during present term	1,578	1,921	2,222	2,168	2,036	2,171	2,071	2,137	2,141	1,724
Cases acted upon <sup>2</sup>	1,613	1,900	2,324	2,220	2,253	2,185	2,189	2,224	2,271	1,709
Granted review	214	244	167	140	167	166	152	157	130	79
Denied, dismissed, or withdrawn	1,285	1,538	1,999	1,902	1,953	1,863	1,876	1,919	1,973	1,541
Summarily decided	114	118	90	71	59	78	71	66	75	21
Cases not acted upon	290	452	425	468	322	386	358	353	316	399
Pauper cases on docket	2,289	2,395	2,371	2,394	2,416	2,577	2,564	2,675	3,056	2,868
Cases acted upon <sup>2</sup>	1,802	1,997	2,027	1,992	2,087	2,189	2,250	2,263	2,638	2,246
Granted review	41	28	17	9	18	20	15	23	17	14
Denied, dismissed, or withdrawn	1,683	1,903	1,968	1,968	2,050	2,136	2,186	2,210	2,577	2,193
Summarily decided	78	66	32	10	14	24	38	21	32	26
Cases not acted upon	487	398	344	402	329	388	314	412	418	622
Original cases on docket	20	14	24	18	15	10	12	16	14	14
Cases disposed of during term	7	7	7	7	8	2	1	5	2	1
<b>Total cases available for argument</b>	<b>267</b>	<b>280</b>	<b>264</b>	<b>269</b>	<b>271</b>	<b>275</b>	<b>270</b>	<b>280</b>	<b>254</b>	<b>175</b>
Cases disposed of	160	181	162	189	184	175	179	175	173	144
Cases argued	151	179	154	184	175	171	175	167	170	144
Cases dismissed or remanded without argument	9	2	8	5	9	4	4	8	3	-
Cases remaining	107	99	102	80	87	101	91	105	81	31
Cases decided by signed opinion	126	160	144	174	159	161	164	151	156	78
Cases decided by per curiam opinion	22	16	8	6	11	10	10	9	12	3
Number of signed opinions	109	138	123	151	139	146	145	139	133	68

<sup>1</sup> Status as of May 1990. <sup>2</sup> Beginning 1980, includes cases granted review and carried over to next term, not shown separately.

Source: Office of the Clerk, Supreme Court of the United States, unpublished data.

**No. 322. U.S. Courts of Appeals—Cases Commenced and Disposition: 1970 to 1989**

[For years ending June 30. See also *Historical Statistics, Colonial Times to 1970*, series H 1079-1096]

ITEM	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
<b>Cases commenced<sup>1</sup></b>	<b>11,662</b>	<b>16,658</b>	<b>23,200</b>	<b>29,630</b>	<b>31,490</b>	<b>33,380</b>	<b>34,292</b>	<b>35,176</b>	<b>37,524</b>	<b>39,734</b>
Criminal	2,660	4,187	4,405	4,790	4,881	4,989	5,134	5,260	6,012	8,020
U.S. civil	2,167	2,981	4,654	5,820	6,259	6,744	6,415	6,292	6,210	6,349
Private civil	4,834	6,511	10,200	14,429	15,466	16,827	17,876	19,246	20,464	20,626
Administrative appeals	1,522	2,290	2,950	3,069	3,045	3,179	3,187	2,723	3,043	2,965
<b>Cases terminated<sup>1</sup></b>	<b>10,899</b>	<b>16,000</b>	<b>20,887</b>	<b>28,660</b>	<b>31,185</b>	<b>31,387</b>	<b>33,774</b>	<b>34,444</b>	<b>35,888</b>	<b>37,372</b>
Criminal	2,581	4,005	3,993	4,777	4,876	4,892	5,134	5,039	5,284	6,297
U.S. civil	1,912	3,094	4,346	5,585	6,074	6,363	6,535	6,227	6,386	6,127
Private civil	4,367	6,252	8,942	13,710	15,309	15,743	17,276	18,338	19,798	20,313
Administrative appeals	1,407	1,909	2,643	3,260	3,212	2,760	3,235	3,237	2,625	2,914
<b>Cases disposed of<sup>2</sup></b>	<b>6,139</b>	<b>9,077</b>	<b>10,607</b>	<b>13,217</b>	<b>14,327</b>	<b>16,389</b>	<b>18,199</b>	<b>18,502</b>	<b>19,178</b>	<b>19,322</b>
Affirmed or granted	4,626	6,763	8,017	10,174	10,961	12,286	13,398	13,681	14,953	15,240
Reversed or denied	1,280	1,632	1,845	2,173	2,382	2,770	3,249	2,924	2,664	2,617
Other	233	682	745	870	984	1,313	1,552	1,897	1,561	1,465
Median months <sup>3</sup>	8.2	7.4	8.9	8.6	8.3	10.3	10.3	10.3	10.1	10.3

<sup>1</sup> Includes original submission. Beginning filing of complete record of median, see Guide to Tabular Presentation.

after hearing or figure is from For definition

**No. 323. U.S. District Courts—Civil and Criminal Cases: 1970 to 1989**

[In thousands, except percent. For years ending June 30. See also *Historical Statistics, Colonial Times to 1970*, series H 1097-1111]

ITEM	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
<b>Civil cases: Commenced</b>	<b>87.3</b>	<b>117.3</b>	<b>168.8</b>	<b>241.8</b>	<b>261.5</b>	<b>273.7</b>	<b>254.8</b>	<b>239.0</b>	<b>239.6</b>	<b>233.5</b>
Cases terminated <sup>1</sup>	79.5	103.8	155.0	213.6	241.8	268.6	265.8	237.5	238.1	234.6
No court action	31.1	39.2	68.7	99.0	113.9	129.4	122.2	97.8	79.6	64.3
Court action, total	48.4	64.6	86.2	114.6	127.9	139.2	143.6	139.7	158.6	170.4
Before pretrial	29.4	40.3	53.8	75.9	86.1	95.5	101.9	95.3	114.7	129.7
Pretrial	11.0	15.6	22.4	27.1	29.6	31.1	29.9	32.5	32.2	29.5
Trials	8.0	8.7	10.1	11.6	12.1	12.6	11.7	11.8	11.6	11.2
Percent reaching trial	10.0	8.4	6.5	5.4	5.0	4.7	4.4	5.0	4.9	4.8
<b>Criminal cases: Commenced<sup>2</sup></b>	<b>38.1</b>	<b>41.1</b>	<b>28.0</b>	<b>34.9</b>	<b>35.9</b>	<b>38.5</b>	<b>40.4</b>	<b>42.2</b>	<b>43.5</b>	<b>44.9</b>
Defendants disposed of <sup>3</sup>	36.4	49.2	36.6	43.3	44.5	47.4	50.0	54.2	52.8	54.6
Not convicted	8.2	11.8	8.0	7.7	8.4	8.8	9.3	10.2	9.9	10.1
Convicted	28.2	37.4	28.6	35.6	36.1	38.5	40.7	43.9	42.9	44.5
Imprisonment	12.4	17.3	13.2	17.9	17.7	18.7	20.6	23.3	22.5	24.9
Probation	11.4	17.9	11.1	14.1	13.9	14.4	15.2	16.0	16.1	15.0
Fine and other	4.4	2.2	4.4	3.6	4.5	5.4	4.9	4.6	4.4	4.7

<sup>1</sup> Excludes land condemnation cases. <sup>2</sup> Excludes transfers. <sup>3</sup> Beginning 1975, includes DC; beginning 1980, includes Guam, Virgin Islands, and Northern Mariana Islands; 1980 through 1982 includes Canal Zone.

Source of tables 322 and 323: Administrative Office of the U.S. Courts, *Annual Report of the Director*.

**No. 324. U.S. District Courts—Civil Cases Commenced and Pending: 1980 to 1989**

[For years ending June 30]

TYPE OF CASE	CASES COMMENCED					CASES PENDING				
	1980	1985	1987	1988	1989	1980	1985	1987	1988	1989
<b>Cases total</b> <sup>1</sup>	<b>168,789</b>	<b>273,670</b>	<b>239,185</b>	<b>239,634</b>	<b>233,529</b>	<b>186,113</b>	<b>254,114</b>	<b>243,361</b>	<b>244,123</b>	<b>242,433</b>
Contract actions <sup>1</sup>	49,052	102,642	69,606	62,811	61,975	40,521	65,983	53,922	51,414	49,000
Recovery of overpayments <sup>2</sup>	15,588	58,160	24,233	18,676	16,467	6,696	22,576	9,223	7,861	6,419
Real property actions	11,067	10,118	11,586	12,209	11,217	15,436	9,324	9,659	9,955	8,764
Tort actions	32,539	41,593	42,977	44,961	42,090	41,062	57,243	65,353	66,182	68,391
Personal injury	27,517	37,560	39,173	41,148	38,361	34,994	52,608	60,737	61,767	64,105
Personal injury product liability	(NA)	12,507	14,153	16,166	13,408	9,118	22,111	30,596	32,643	34,837
Asbestos	(NA)	4,239	7,776	10,715	8,230	(NA)	11,194	19,544	22,792	25,419
Other personal injury	27,517	25,053	25,020	24,982	24,953	25,876	30,497	30,141	29,124	29,268
Personal property damage	5,022	4,033	3,804	3,813	3,729	6,068	4,635	4,616	4,415	4,286
Actions under statutes	75,574	119,160	114,942	119,514	118,131	88,534	121,295	114,333	116,425	115,215
Civil rights	12,944	19,553	19,805	19,323	19,378	18,819	26,148	25,352	24,514	24,174
Employment	5,017	8,082	8,993	8,563	9,000	8,893	12,187	12,267	11,752	11,815
Bankruptcy suits	1,688	6,331	4,705	5,558	5,228	1,443	4,866	3,985	3,873	3,777
Commerce (ICC rates, etc.)	1,105	912	1,067	1,694	1,339	6,194	747	807	1,117	949
Environmental matters	557	652	703	889	938	751	912	1,076	1,234	1,395
Prisoner petitions	23,287	33,468	37,351	38,839	41,481	18,008	29,982	30,444	32,012	33,854
Forfeiture and penalty	3,019	4,908	3,493	3,673	4,920	2,282	3,658	2,919	3,389	4,175
Labor laws	8,640	11,749	12,759	12,688	13,328	9,045	11,002	11,640	11,639	11,840
Protected property rights <sup>3</sup>	3,783	5,412	5,518	6,059	5,977	4,014	5,151	5,484	5,697	5,595
Securities commodities and [e]xchanges	1,694	3,266	3,021	2,638	2,608	3,255	5,082	5,322	4,878	4,561
Social Security laws	9,043	19,771	13,338	15,152	10,206	13,154	20,302	12,926	13,965	10,779
Tax suits	3,262	2,966	2,785	2,555	2,402	3,075	2,972	3,050	2,933	2,868
Freedom of information	627	565	444	344	307	617	555	486	432	385

NA Not available. <sup>1</sup> Includes other types not shown separately. <sup>2</sup> Includes enforcement of judgments in student loan cases, and overpayments of veterans benefits. <sup>3</sup> Includes copyright, patent, and trademark rights.

**No. 325. U.S. District Courts—Trials: 1970 to 1989**

[For years ending June 30. A trial is defined as a contested proceeding (other than a hearing on a motion) before either court or jury in which evidence is introduced and final judgment sought. See also *Historical Statistics, Colonial Times to 1970*, series H 1112-1118]

TYPE OF TRIAL	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
<b>Total</b>	<b>16,032</b>	<b>19,236</b>	<b>19,825</b>	<b>21,345</b>	<b>20,830</b>	<b>20,729</b>	<b>20,242</b>	<b>19,985</b>	<b>19,901</b>	<b>20,102</b>
Civil trials	9,449	11,603	13,191	14,689	14,374	14,254	13,276	13,162	12,536	12,085
Nonjury	6,078	7,903	9,254	9,712	9,037	8,817	8,054	7,597	7,088	6,878
Jury	3,371	3,700	3,937	4,977	5,337	5,437	5,222	5,565	5,448	5,207
Criminal trials	6,583	7,633	6,634	6,656	6,456	6,475	6,966	6,823	7,365	8,017
Nonjury	2,357	2,726	3,216	3,003	2,823	2,778	3,066	2,912	3,215	3,553
Jury	4,226	4,907	3,418	3,653	3,633	3,697	3,900	3,911	4,150	4,464

**No. 326. U.S. District Courts—Criminal Cases Commenced and Defendants Disposed of, by Nature of Offense: 1988 and 1989**

[For years ending June 30]

NATURE OF OFFENSE	1988		Cases commenced, 1989	DISPOSITION OF DEFENDANTS, 1989								
	Cases commenced <sup>1</sup>	Defendants disposed of		Total defendants disposed of	Not convicted		Convicted <sup>2</sup>			Sentenced		
					Total	Acquitted	Total	Guilty plea <sup>3</sup>	By court or jury	Imprisonment	Probation	Fine and other
Total . . . . .	43,503	52,791	44,891	54,643	10,119	1,699	44,524	36,681	5,843	24,867	14,997	4,660
General offenses:												
Homicide . . . . .	147	150	174	166	29	11	137	87	50	113	12	12
Robbery . . . . .	1,283	1,195	1,309	1,206	107	20	1,099	958	141	1,054	39	6
Assault . . . . .	617	599	567	579	158	39	421	327	94	278	116	27
Burglary . . . . .	124	111	107	103	17	1	86	74	12	74	11	1
Larceny-theft . . . . .	3,531	3,865	3,474	4,065	843	103	3,222	2,939	283	1,159	1,812	251
Embezzlement and fraud . . . . .	9,433	11,180	8,958	10,982	1,541	287	9,441	8,559	882	4,039	5,081	321
Auto theft . . . . .	293	382	233	462	69	8	393	346	47	282	102	9
Forgery <sup>4</sup> . . . . .	1,674	2,070	1,505	1,733	225	18	1,508	1,398	110	763	728	17
Sex offenses . . . . .	511	438	324	348	63	12	285	230	55	187	91	7
DAPCA <sup>5</sup> . . . . .	10,291	15,750	11,855	16,834	2,695	396	14,139	11,686	2,453	11,626	2,358	155
Misc. general offenses . . . . .	15,599	17,051	16,385	18,165	4,372	804	13,793	12,077	1,716	5,292	4,647	3,854

<sup>1</sup> Excludes transfers. <sup>2</sup> Convicted and sentenced. <sup>3</sup> Includes nolo contendere. <sup>4</sup> Includes counterfeiting. <sup>5</sup> All marijuana, narcotics and controlled substances prosecutions under the Drug Abuse, Prevention and Control Act.

Source of tables 324-326: Administrative Office of the U.S. Courts, *Annual Report of the Director*.

### No. 327. U.S. District Courts—Offenders Convicted and Sentenced to Prison, 1980 and 1987, and Length of Sentence, 1987

MOST SERIOUS OFFENSE OF CONVICTION	OFFENDERS CONVICTED		CONVICTED OFFENDERS SENTENCED TO PRISON		Length of sentence, 1987 (mo.)	MOST SERIOUS OFFENSE OF CONVICTION	OFFENDERS CONVICTED		CONVICTED OFFENDERS SENTENCED TO PRISON		Length of sentence, 1987 (mo.)
	1980	1987	1980	1987			1980	1987	1980	1987	
<b>Total</b> . . . . .	<b>29,943</b>	<b>44,518</b>	<b>13,766</b>	<b>23,579</b>	<b>55.2</b>	Drug offenses <sup>1</sup> . . . . .	5,135	13,423	3,675	10,196	67.8
Violent offenses . . . . .	2,134	2,241	1,770	1,837	126.2	Possession . . . . .	498	2,193	114	609	48.1
Property offenses . . . . .	10,780	14,349	4,630	6,234	32.5	Trafficking and manufacturing . . . . .	4,633	11,224	3,560	9,584	69.1
Fraudulent offenses <sup>1</sup> . . . . .	6,733	10,443	2,825	4,610	31.1	Public-order offenses . . . . .	11,893	14,500	3,690	5,312	35.5
Embezzlement . . . . .	1,605	1,918	460	551	22.1	Regulatory offenses . . . . .	1,828	1,847	484	601	42.1
Fraud <sup>2</sup> . . . . .	3,307	6,588	1,384	3,097	32.1	Other offenses . . . . .	10,065	12,653	3,206	4,711	32.2
Forgery . . . . .	1,180	1,348	610	606	30.6	Weapons . . . . .	980	1,730	578	1,188	53.3
Other offenses <sup>1</sup> . . . . .	4,047	3,906	1,805	1,624	36.5	Immigration . . . . .	2,200	2,138	1,017	1,355	15.2
Larceny . . . . .	3,026	3,057	1,180	1,125	33.8	Tax law violations <sup>3</sup> . . . . .	1,407	1,374	487	640	21.1

<sup>1</sup> Includes offenses not shown separately. <sup>2</sup> Excludes tax fraud. <sup>3</sup> Includes tax fraud.

Source: U.S. Bureau of Justice Statistics, *Federal Criminal Case Processing, 1980-87*, May 1990.

### No. 328. U.S. District Courts—Defendants Charged With Violations of Drug Abuse Prevention and Control Act: 1980 to 1989

[For years ending June 30]

ITEM	MARIJUANA				DRUGS				CONTROLLED SUBSTANCES (prescribed drugs)			
	1980	1985	1988	1989	1980	1985	1988	1989	1980	1985	1988	1989
<b>Defendants disposed of</b> . . . . .	<b>1,690</b>	<b>3,984</b>	<b>4,890</b>	<b>4,547</b>	<b>3,290</b>	<b>5,595</b>	<b>9,228</b>	<b>10,717</b>	<b>1,363</b>	<b>1,598</b>	<b>1,632</b>	<b>1,570</b>
Not convicted . . . . .	569	854	872	898	749	868	1,399	1,548	276	246	317	249
Dismissed . . . . .	483	709	726	798	620	692	1,167	1,280	234	200	275	221
Convicted . . . . .	1,121	3,130	4,018	3,649	2,541	4,727	7,829	9,169	1,087	1,352	1,315	1,321
By guilty plea and nolo contendere . . . . .	772	2,523	3,573	3,227	1,830	3,839	6,365	7,356	848	1,138	1,106	1,103
<b>Imprisonment, total</b> <sup>2</sup> . . . . .	<b>754</b>	<b>2,038</b>	<b>2,414</b>	<b>2,448</b>	<b>1,945</b>	<b>3,701</b>	<b>6,575</b>	<b>8,151</b>	<b>780</b>	<b>1,049</b>	<b>994</b>	<b>1,027</b>
Regular sentence . . . . .	555	1,512	1,910	2,249	1,410	2,885	5,799	7,649	582	810	851	940
Avg. sentence (mo.) . . . . .	47.2	53.2	57.3	52.7	60.8	69.6	82.9	77.8	46.5	69.3	91.5	92.0
Other sentences to prison <sup>2</sup> . . . . .	199	524	504	199	535	816	776	502	198	239	143	87
<b>Probation, total</b> . . . . .	<b>341</b>	<b>938</b>	<b>1,536</b>	<b>1,145</b>	<b>588</b>	<b>960</b>	<b>1,199</b>	<b>942</b>	<b>303</b>	<b>287</b>	<b>307</b>	<b>271</b>
Avg. sentence (mo.) . . . . .	37.9	31.2	26.9	25.1	39.9	39.7	41.1	41.8	37.2	40.5	35.6	33.6
Fine only . . . . .	20	83	53	39	4	3	27	14	3	6	9	8
Other <sup>3</sup> . . . . .	6	73	15	17	4	63	28	62	1	10	5	15

<sup>1</sup> Includes defendants committed under 28 USC 2902, Narcotic Addict Rehabilitation Act of 1966. <sup>2</sup> Split or mixed sentences of prison and probation in the same case as well as indeterminate and Youth Corrections Act sentences are included under total imprisonment and other sentences to prison. <sup>3</sup> Includes deportation, suspended sentences, imprisonment for four days or less or for time already served, remitted and suspended fines and life sentences.

Source: Administrative Office of the U.S. Courts, *Annual Report of the Director*.

### No. 329. Federal Prosecutions of Public Corruption: 1975 to 1989

[As of Dec. 31. Prosecution of persons who have corrupted public office in violation of Federal Criminal Statutes]

PROSECUTION STATUS	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Total:</b> <sup>1</sup> Indicted . . . . .	255	557	687	721	878	729	1,073	936	1,182	1,193	1,340	1,274	1,349
Convicted . . . . .	179	409	555	552	730	671	972	934	997	1,026	1,075	1,067	1,144
Awaiting trial . . . . .	27	205	187	213	231	186	222	269	256	246	368	288	375
<b>Federal officials:</b> Indicted . . . . .	53	133	128	123	198	158	<sup>2</sup> 460	408	563	596	651	629	695
Convicted . . . . .	43	91	115	131	159	147	<sup>2</sup> 424	429	470	523	545	529	610
Awaiting trial . . . . .	5	42	21	16	23	38	58	77	90	83	118	86	126
<b>State officials:</b> Indicted . . . . .	36	55	58	72	87	49	81	58	79	88	102	66	71
Convicted . . . . .	18	56	32	51	66	43	65	52	66	71	76	69	54
Awaiting trial . . . . .	5	20	30	28	36	18	26	21	20	24	26	14	18
<b>Local officials:</b> Indicted . . . . .	139	171	212	247	244	257	270	203	248	232	246	276	269
Convicted . . . . .	94	127	156	168	211	232	226	196	221	207	204	229	201
Awaiting trial . . . . .	15	72	67	82	102	58	61	74	49	55	89	79	122

<sup>1</sup> Includes individuals who are neither public officials nor employees but who were involved with public officials or employees in violating the law, not shown separately. <sup>2</sup> Increases in the number indicted and convicted between 1982 and 1983 resulted from a greater focus on federal corruption nationwide and more consistent reporting of cases involving lower-level employees.

Source: U.S. Department of Justice, *Federal Prosecutions of Corrupt Public Officials, 1970-1980 and Report to Congress on the Activities and Operations of the Public Integrity Section*, annual.

**No. 330. Delinquency Cases Disposed, by Juvenile Courts: 1975 to 1986**

YEAR	CASES DISPOSED		Case rate <sup>1</sup>	YEAR	CASES DISPOSED		Case rate <sup>1</sup>
	Total (1,000)	Per- cent change			Total (1,000)	Per- cent change	
1975	1,050	(NA)	33.8	1981	1,100	0.6	39.1
1976	1,077	2.6	35.1	1982	1,073	-2.5	39.1
1977	1,076	-0.1	35.8	1983	1,030	-4.0	38.3
1978	1,023	-4.9	34.6	1984	1,034	0.4	38.7
1979	1,048	2.4	36.2	1985	1,117	8.0	42.0
1980	1,093	4.3	38.3	1986	1,154	3.4	44.3

NA Not available. <sup>1</sup> Number of cases disposed per 1,000 youth (ages 10 to 17) at risk.

Source: U.S. National Center for Juvenile Justice, Pittsburgh, PA, *Juvenile Court Statistics*, annual; and unpublished data.

**No. 331. Delinquency Cases Disposed by Juvenile Courts, by Reason for Referral, 1982 to 1986, and by Sex, 1985**

[In thousands. A delinquency offense is an act committed by a juvenile for which an adult could be prosecuted in a criminal court. Disposition of a case involves taking a definite action such as transferring the case to criminal court, dismissing the case, placing the youth on probation, placing the youth in a facility for delinquents, or such actions as fines, restitution, and community service]

REASON FOR REFERRAL	1982	1983	1984	1985			1986
				Total	Male	Female	
<b>All delinquency offense</b>	<b>1,073</b>	<b>1,030</b>	<b>1,034</b>	<b>1,117</b>	<b>912</b>	<b>205</b>	<b>1,154</b>
Violent offenses	57	55	61	70	61	9	70
Criminal homicide	2	1	1	1	1	(Z)	2
Forcible rape	3	3	3	4	4	(Z)	4
Robbery	26	24	22	25	23	2	25
Aggravated assault	27	27	35	40	33	8	39
Property offenses	475	451	442	470	380	91	499
Burglary	158	145	129	133	124	9	140
Larceny	278	270	276	296	220	77	310
Motor vehicle theft	34	31	31	35	30	5	43
Arson	5	5	6	7	6	1	6
Delinquency offenses	541	524	530	577	472	105	585
Simple assault	86	81	73	84	62	22	97
Vandalism	64	64	69	81	74	8	85
Drug law violations	62	57	65	74	62	13	75
Obstruction of justice	47	55	63	64	48	16	75
Other <sup>1</sup>	282	268	260	274	226	48	252

Z Fewer than 500. <sup>1</sup> Includes such offenses as stolen property offenses, trespassing, weapons offenses, other sex offenses, liquor law violations, disorderly conduct, and miscellaneous offenses.

Source: U.S. National Center for Juvenile Justice, Pittsburgh, PA, *Juvenile Court Statistics*, 1986; and unpublished data.

**No. 332. Juveniles Held in Public and Private Custody—Residents and Facilities: 1983 to 1987**

[Public and private facilities for juveniles includes detention centers, shelters, reception and diagnostic centers, training schools, halfway houses, group homes, ranches, forestry camps, and farms]

CHARACTERISTIC	Unit	PUBLIC CUSTODY			PRIVATE CUSTODY		
		1983	1985	1987	1983	1985	1987
Number of residents <sup>1,2</sup>	Number	50,799	51,402	56,097	31,473	34,112	38,184
Juvenile <sup>3</sup>	Number	48,701	49,322	53,503	31,390	34,080	38,143
Average age <sup>4</sup>	Years	15.4	15.4	15.8	14.9	14.9	14.8
Male	Number	42,182	42,549	46,272	22,242	23,844	26,339
Female	Number	6,519	6,773	7,231	9,148	10,236	11,804
White	Number	27,805	29,969	31,103	22,377	23,999	26,839
Black	Number	18,020	18,269	21,057	7,822	9,204	10,357
Number of admissions (all residents) <sup>5,6</sup>	Number	530,200	527,759	597,624	88,806	101,007	126,102
Number of departures (all residents) <sup>5,6</sup>	Number	522,599	520,903	592,229	84,399	96,006	120,071
Average daily residents <sup>6</sup>	Number	50,208	49,480	54,036	31,685	33,121	38,172
Facilities, total <sup>7</sup>	Number	1,023	1,040	1,107	1,877	1,996	2,195
Occupancy less than 70 percent	Percent	30	35	28	22	20	18
70-100 percent	Percent	56	55	57	76	79	79
More than 100 percent	Percent	14	10	15	2	1	3
Personnel, total <sup>8</sup>	Number	58,654	(NA)	62,249	37,411	(NA)	49,144
Operating costs <sup>9</sup>	Mil. dol.	1,105.0	1,247.9	1,458.7	673.5	805.5	1,060.0
Per resident operating cost <sup>9</sup>	\$1,000	22.0	25.2	27.0	21.3	24.3	27.8

NA Not available. <sup>1</sup> Includes adults. <sup>2</sup> Data for February 1, 1983, and 1985, and February 2, 1987. <sup>3</sup> Includes races not reported and races not shown. <sup>4</sup> Based on juvenile residents only. <sup>5</sup> Data are for calendar years 1982, 1984 and 1986.

<sup>6</sup> Juvenile and adult. <sup>7</sup> Occupancy is calculated on the average daily resident population. <sup>8</sup> 1983 generally includes volunteers; excludes 4,600 in California, and large but unspecified numbers in Ohio and South Carolina. 1987 personnel includes full, part-time and volunteer. <sup>9</sup> Based on average daily residents.

Source: 1983, U.S. Office of Juvenile Justice and Delinquency Prevention, *Children in Custody: Advance Report on the 1982 Census of Public Juvenile Facilities*; and *Children in Custody: Advance Report on the 1982 Census of Private Juvenile Facilities*; 1985, U.S. Bureau of Justice Statistics, *Census of Public and Private Juvenile Detention, Correctional, and Shelter Facilities, 1975-85*; and U.S. Office of Juvenile Justice and Delinquency Prevention, *1987 Children in Custody: Census of Public and Private Juvenile Custody Facilities*.

**No. 333. Jail Inmates, by Race and Detention Status: 1978 to 1988**

[Excludes Federal and State prisons or other correctional institutions; institutions exclusively for juveniles; State-operated jails in Connecticut, Delaware, Hawaii, Rhode Island, and Vermont; and other facilities which retain persons for less than 48 hours. As of June 30. For the years of 1982 and 1984-1987 data based on sample survey and subject to sampling variability; 1978, 1983, and 1988 based on the National Jail Census]

CHARACTERISTIC	1978	1982	1983	1984	1985	1986	1987	1988
<b>Total inmates</b> <sup>1</sup>	<b>158,394</b>	<b>209,582</b>	<b>223,552</b>	<b>234,500</b>	<b>256,615</b>	<b>274,444</b>	<b>295,873</b>	<b>343,569</b>
Percent of rated capacity	65	84	85	90	94	96	98	101
Percent of operational capacity	64	95	81	(NA)	(NA)	(NA)	(NA)	(NA)
Male	148,839	195,730	207,783	216,275	235,909	251,235	270,172	311,594
Female	9,555	13,852	15,769	16,743	19,077	21,501	23,920	30,299
White	89,418	(NA)	130,118	138,355	151,403	159,178	168,647	166,302
Black	65,104	(NA)	87,508	93,800	102,646	112,522	124,267	141,979
Other races	3,872	(NA)	5,926	2,345	2,566	2,744	2,959	3,932
Hispanic <sup>2</sup>	16,349	(NA)	31,297	30,485	35,926	38,422	41,422	51,455
Non-Hispanic	142,045	(NA)	192,254	204,015	220,689	236,022	254,451	292,114
Adult <sup>3</sup>	156,783	207,853	221,815	233,018	254,986	272,736	294,092	341,893
Awaiting arraignment or trial	77,453	118,189	113,984	116,331	127,059	142,112	150,101	175,669
Convicted	75,438	89,664	107,680	113,491	123,409	127,067	139,394	166,224
Juvenile	1,611	1,729	1,736	1,482	1,629	1,708	1,781	1,738

NA Not available. <sup>1</sup> For 1984-1988, includes juveniles not shown separately by sex, and for 1988 includes 31,356 persons of unknown race not shown separately. <sup>2</sup> Hispanic persons may be of any race. Includes inmates not classified by conviction status. <sup>3</sup> Juveniles are persons whose age makes them initially subject to juvenile court authority although they are sometimes tried as adults in criminal court.

Source: U.S. Bureau of Justice Statistics, *Profile of Jail Inmates, 1978; Jail Inmates, annual; and 1988 Census of Local Jails.*

**No. 334. Federal and State Prisoners: 1960 to 1989**

[Based on Bureau of the Census estimated resident population, as of July 1. Prior to 1970, excludes State institutions in Alaska. Beginning 1980, includes all persons under jurisdiction of Federal and State authorities rather than those in the custody of such authorities. Represents inmates sentenced to maximum term of more than a year. See also *Historical Statistics, Colonial Times to 1970*, series H 1135-1140]

YEAR	PRESENT AT END OF YEAR						RECEIVED FROM COURTS					
	All institutions		Federal		State		All institutions		Federal		State	
	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
1960	212,953	118.6	23,218	12.9	189,735	105.7	88,575	49.3	13,723	7.6	74,852	41.7
1970	196,429	96.7	20,038	9.8	176,391	86.8	79,351	39.1	12,047	5.9	67,304	33.1
1975	240,593	113.3	24,131	11.4	216,462	102.0	129,573	61.0	16,770	7.9	112,803	53.1
1980	315,974	139.2	20,611	9.1	295,363	130.1	142,122	62.7	10,907	4.8	131,215	57.9
1982	395,516	170.6	23,652	10.2	371,864	160.4	177,109	76.1	12,461	5.4	164,648	70.7
1983	419,721	178.5	26,331	11.2	393,390	168.1	187,408	80.1	14,119	6.0	173,289	74.1
1984	445,399	188.0	27,602	12.0	417,797	176.0	180,418	76.0	13,491	5.7	166,927	70.3
1985	481,393	200.6	32,695	13.6	448,698	187.0	198,499	82.7	15,368	6.4	183,131	76.3
1986	522,485	216.0	36,531	15.0	485,954	201.0	219,382	91.0	16,087	7.0	203,295	84.0
1987	560,459	229.0	39,523	16.0	520,936	213.0	241,887	99.0	16,260	7.0	225,627	92.0
1988	603,732	244.0	42,738	17.0	560,994	227.0	261,242	106.0	15,932	6.4	245,310	99.3
1989	675,441	271.0	43,449	17.0	631,992	253.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. <sup>1</sup> Rate per 100,000 estimated population.

Source: U.S. Bureau of Justice Statistics, *Prisoners in State and Federal Institutions on December 31, annual, and Correctional Populations in the United States, annual.*

**No. 335. State Prison Inmates—Selected Characteristics: 1979 and 1986**

[Based on a sample survey of about 13,711 inmates in 1986 and 11,397 inmates in 1979; subject to sampling variability]

CHARACTERISTIC	NUMBER		PERCENT OF PRISON INMATES		CHARACTERISTIC	NUMBER		PERCENT OF PRISON INMATES	
	1979	1986	1979	1986		1979	1986	1979	1986
<b>Total</b> <sup>1</sup>	<b>274,564</b>	<b>450,416</b>	<b>100.0</b>	<b>100.0</b>	Married	61,420	91,492	22.4	20.3
Under 18 years old	2,220	2,057	0.8	0.5	Widowed	6,248	8,343	2.3	1.9
18-24 years old	97,860	120,384	35.6	26.7	Divorced	46,314	81,263	16.9	18.1
25-34 years old	116,284	205,817	42.4	45.7	Separated	18,168	26,985	6.6	6.0
35-44 years old	37,926	87,502	13.8	19.4	Years of school:				
45-54 years old	13,987	23,524	5.1	5.2	Less than 12 years	144,771	276,309	52.7	61.6
55-64 years old	4,786	8,267	1.7	1.8	12 years or more	129,792	172,385	47.3	38.4
65 years old and over	1,499	2,808	0.5	0.6	Pre-arrest employment status:				
Male	263,484	430,604	96.0	95.6	Employed	192,800	309,364	70.5	69.0
Female	11,080	19,812	4.0	4.4	Full-time	165,577	257,391	60.5	57.4
White	136,295	223,648	49.6	49.7	Part-time	27,223	51,973	10.0	11.6
Black	131,329	211,021	47.8	46.9	Not employed	80,663	138,773	29.5	31.0
Other races	6,939	15,412	2.6	3.4	Looking for work	38,230	80,508	14.0	18.0
Never married	142,414	241,707	51.9	53.7	Not looking for work	42,433	58,265	15.5	13.0

<sup>1</sup> For 1986, includes data not reported for all characteristics except sex.

Source: U.S. Bureau of Justice Statistics, *Profile of State Prison Inmates, 1986*, January 1988.

### No. 336. State Prison Inmates, by Criminal History and Selected Characteristics of the Inmate: 1986

[Violent/nonviolent refers to the current or past criminal offense for which the inmate is or was incarcerated; see table 292 for types of crimes. Data based on a sample survey of 13,711 inmates; subject to sampling variability]

CHARACTERISTIC	CRIMINAL HISTORY OF PRISON INMATES								
	Total	First-timers			Recidivists <sup>1</sup>				
		Total	Non-violent	Violent	Total	Non-violent	Prior violent	Current violent only	Current and prior violent
<b>Prison inmates, total</b> . . . . .	<b>447,185</b>	<b>82,791</b>	<b>23,808</b>	<b>58,983</b>	<b>364,393</b>	<b>129,465</b>	<b>49,827</b>	<b>98,946</b>	<b>86,155</b>
Percent of total . . . . .	100.0	18.5	5.3	13.2	81.5	29.0	11.1	22.1	19.3
Percent distribution . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Male . . . . .	95.6	92.7	91.2	93.3	96.3	93.6	97.5	97.4	98.3
Female . . . . .	4.4	7.3	8.8	6.7	3.7	6.4	2.5	2.6	1.7
White . . . . .	49.7	54.2	63.2	50.7	48.6	56.9	44.9	47.1	40.2
Black . . . . .	46.9	42.0	33.3	45.6	48.0	40.5	51.6	48.9	56.2
Other races . . . . .	3.4	3.6	3.5	3.7	3.4	2.6	3.5	4.0	3.6
Median age (years) . . . . .	28	29	29	28	28	27	29	28	30
Median age at first arrest (years) . . . . .	17	22	23	22	16	17	16	16	15
Median age at first confinement (years) . . . . .	19	24	25	24	18	19	17	19	18
Average number of months served on current confinement . . . . .	27.3	21.9	21.0	30.6	20.6	19.6	20.7	32.1	32

<sup>1</sup> An individual who has been previously sentenced to probation or incarceration as a juvenile or adult.

Source: U.S. Bureau of Justice Statistics, *Profiles of State Prison Inmates, 1986*, January 1988.

### No. 337. Adults Under Correctional Supervision: 1988

[In thousands except rate. As of Dec. 31. Excludes juveniles, persons incarcerated in mental health institutions in lieu of prison, persons held by the armed services, persons held on Indian reservations, parolees under county jurisdiction, parolees whose sentences were for 1 year or less, and court probationers (those not placed under the supervisory authority of a probation agency)]

REGION, DIVISION, AND STATE	Total <sup>1</sup>	Rate <sup>2</sup>	Prison <sup>3</sup>	Parole <sup>4</sup>	Probation <sup>5</sup>	REGION, DIVISION, AND STATE	Total <sup>1</sup>	Rate <sup>2</sup>	Prison <sup>3</sup>	Parole <sup>4</sup>	Probation <sup>5</sup>
<b>U.S.</b> . . . . .	<b>3,713.2</b>	<b>204.1</b>	<b>606.8</b>	<b>408.0</b>	<b>2,356.5</b>	DC . . . . .	26.4	550.8	8.4	3.9	12.4
<b>Northeast</b> . . . . .	<b>694.5</b>	<b>180.3</b>	<b>96.5</b>	<b>104.7</b>	<b>435.9</b>	VA . . . . .	46.4	102.0	12.8	6.6	17.6
<b>N.E.</b> . . . . .	<b>195.1</b>	<b>196.6</b>	<b>19.3</b>	<b>5.8</b>	<b>163.0</b>	WV . . . . .	8.5	60.6	1.5	0.8	4.8
ME . . . . .	8.0	88.8	1.3	0.0	6.1	NC . . . . .	96.1	198.1	17.3	6.2	67.2
NH . . . . .	5.2	63.9	1.0	0.5	2.9	SC . . . . .	49.4	195.8	13.0	3.7	29.2
VT . . . . .	6.9	166.3	0.8	0.2	6.0	GA . . . . .	162.8	356.6	18.8	11.3	115.3
MA . . . . .	109.0	239.2	6.9	4.3	92.3	FL . . . . .	226.5	237.5	34.3	2.6	162.0
RI . . . . .	12.2	159.7	1.9	0.4	9.8	<b>E.S.C.</b> . . . . .	<b>145.1</b>	<b>129.3</b>	<b>32.3</b>	<b>20.9</b>	<b>68.2</b>
CT . . . . .	53.8	217.3	7.5	0.4	45.9	KY . . . . .	21.7	79.0	6.2	3.4	7.4
<b>M.A.</b> . . . . .	<b>499.5</b>	<b>174.7</b>	<b>77.1</b>	<b>98.9</b>	<b>272.8</b>	TN . . . . .	56.5	155.1	7.4	9.5	28.8
NY . . . . .	225.2	166.1	44.6	34.0	120.8	AL . . . . .	47.1	157.5	12.4	4.7	25.2
NJ . . . . .	104.0	176.5	14.7	18.5	59.7	MS . . . . .	19.8	107.7	6.3	3.2	6.9
PA . . . . .	170.3	186.1	17.9	46.5	92.3	<b>W.S.C.</b> . . . . .	<b>562.7</b>	<b>295.0</b>	<b>66.9</b>	<b>91.2</b>	<b>359.5</b>
<b>Midwest</b> . . . . .	<b>721.4</b>	<b>163.0</b>	<b>120.2</b>	<b>51.1</b>	<b>499.8</b>	AR . . . . .	27.1	155.5	5.5	3.8	15.9
<b>E.N.C.</b> . . . . .	<b>525.0</b>	<b>168.8</b>	<b>92.4</b>	<b>35.6</b>	<b>358.9</b>	LA . . . . .	62.6	201.2	12.1	8.1	31.2
OH . . . . .	111.5	138.8	26.1	6.0	70.2	OK . . . . .	36.4	154.1	8.9	1.5	23.4
IN . . . . .	75.9	185.3	11.4	3.4	55.9	TX . . . . .	436.6	368.3	40.4	77.8	288.9
IL . . . . .	136.1	158.0	21.1	14.4	90.7	<b>West.</b> . . . . .	<b>725.1</b>	<b>195.9</b>	<b>123.6</b>	<b>74.2</b>	<b>436.0</b>
MI . . . . .	160.0	235.7	27.6	7.7	115.3	<b>Mt.</b> . . . . .	<b>135.5</b>	<b>142.7</b>	<b>31.1</b>	<b>9.9</b>	<b>76.1</b>
WI . . . . .	41.6	116.2	6.2	4.1	26.7	MT . . . . .	5.8	99.4	1.2	0.7	3.3
<b>W.N.C.</b> . . . . .	<b>196.4</b>	<b>149.3</b>	<b>27.8</b>	<b>15.5</b>	<b>140.9</b>	ID . . . . .	7.4	106.5	1.5	0.8	4.4
MN . . . . .	58.0	181.9	2.9	1.6	50.2	WY . . . . .	3.5	102.1	0.9	0.3	1.8
IA . . . . .	19.1	90.1	3.0	1.9	13.1	CO . . . . .	36.2	148.8	5.6	1.7	23.9
MO . . . . .	66.1	172.5	12.2	7.2	42.5	NM . . . . .	11.6	110.1	2.7	1.1	5.7
ND . . . . .	2.7	55.7	0.5	0.2	1.7	AZ . . . . .	45.9	181.1	12.1	2.4	25.5
SD . . . . .	4.7	90.2	1.0	0.6	2.5	UT . . . . .	10.1	95.6	2.1	1.2	5.6
NE . . . . .	15.2	128.5	2.2	0.4	11.4	NV . . . . .	14.9	188.9	4.9	1.7	5.9
KS . . . . .	30.8	167.1	5.9	3.5	19.5	<b>Pac.</b> . . . . .	<b>589.6</b>	<b>214.2</b>	<b>92.4</b>	<b>64.3</b>	<b>359.9</b>
<b>South</b> . . . . .	<b>1,446.9</b>	<b>232.8</b>	<b>222.4</b>	<b>157.5</b>	<b>924.3</b>	WA . . . . .	84.0	242.9	7.1	10.7	60.2
<b>S.A.</b> . . . . .	<b>739.2</b>	<b>231.9</b>	<b>123.2</b>	<b>45.4</b>	<b>496.7</b>	OR . . . . .	34.3	164.8	4.7	2.6	24.2
DE . . . . .	13.7	277.6	3.0	1.1	9.6	CA . . . . .	452.5	217.3	76.2	49.4	262.8
MD . . . . .	109.4	314.6	14.1	9.2	78.6	AK . . . . .	5.8	162.9	2.3	0.5	3.0
						HI . . . . .	13.0	159.9	2.2	1.1	9.7

<sup>1</sup> Includes persons in jail not shown separately. <sup>2</sup> Rate per 10,000 persons 18 years old and over. <sup>3</sup> Includes all inmates of Federal and State institutions. <sup>4</sup> Includes all adults under State parole supervision whether released from prison via parole board decision or mandatory release, who were sentenced to more than one year in prison. <sup>5</sup> Includes all adults who, as part of a State, or local court order, have been placed under the supervisory authority of a probation agency.

Source: U.S. Bureau of Justice Statistics, *Probation and Parole*, annual; *Prisoners in State and Federal Institutions on December 31*, annual; and *Correctional Populations in the United States*, annual.

# No. 338. Prisoners Under Jurisdiction of State and Federal Correctional Authorities—Summary, by State: 1980 to 1989

[For years ending December 31]

SEX, REGION, DIVISION, AND STATE	1980	1985	1987	1988	1989	SENTENCED TO MORE THAN 1 YEAR				
						1985	1987	1988	1989	
									Total	Rate per 100,000 popula- tion
<b>United States . . . . .</b>	<b>329,821</b>	<b>503,271</b>	<b>584,435</b>	<b>627,588</b>	<b>710,054</b>	<b>481,393</b>	<b>560,459</b>	<b>603,720</b>	<b>679,263</b>	<b>274</b>
Male . . . . .	316,401	480,147	555,371	594,996	669,498	459,934	533,521	573,587	642,138	259
Female . . . . .	13,420	23,124	29,064	32,592	40,556	21,459	26,938	30,133	37,125	15
Federal institutions . . . . .	24,363	40,223	48,300	49,928	59,171	32,695	39,523	42,738	47,168	19
State institutions . . . . .	305,458	463,048	536,135	577,660	650,883	448,698	520,936	560,982	632,095	255
<b>Northeast . . . . .</b>	<b>45,796</b>	<b>75,706</b>	<b>90,815</b>	<b>99,180</b>	<b>114,754</b>	<b>72,656</b>	<b>87,168</b>	<b>94,522</b>	<b>110,181</b>	<b>217</b>
<b>N.E. . . . .</b>	<b>9,926</b>	<b>15,432</b>	<b>18,158</b>	<b>19,784</b>	<b>22,821</b>	<b>12,490</b>	<b>14,532</b>	<b>15,143</b>	<b>18,259</b>	<b>140</b>
ME . . . . .	814	1,226	1,328	1,277	1,455	967	1,267	1,214	1,432	117
NH . . . . .	326	683	867	1,019	1,166	683	867	1,019	1,166	105
VT . . . . .	480	677	759	820	896	443	505	553	617	109
MA . . . . .	3,185	5,390	6,265	6,757	7,524	5,390	6,265	6,455	7,268	123
RI . . . . .	813	1,307	1,428	1,906	2,479	964	991	1,179	1,467	147
CT . . . . .	4,308	6,149	7,511	8,005	9,301	4,043	4,637	4,723	6,309	195
<b>M.A. . . . .</b>	<b>35,870</b>	<b>60,274</b>	<b>72,657</b>	<b>79,396</b>	<b>91,933</b>	<b>60,166</b>	<b>72,636</b>	<b>79,379</b>	<b>91,922</b>	<b>244</b>
NY . . . . .	21,815	34,712	40,842	44,560	51,227	34,712	40,842	44,560	51,227	285
NJ . . . . .	5,884	11,335	15,548	16,936	19,439	11,335	15,548	16,936	19,439	251
PA . . . . .	8,171	14,227	16,267	17,900	21,267	14,119	16,246	17,883	21,256	177
<b>Midwest . . . . .</b>	<b>66,211</b>	<b>95,704</b>	<b>110,846</b>	<b>120,382</b>	<b>136,519</b>	<b>95,245</b>	<b>110,463</b>	<b>120,077</b>	<b>136,221</b>	<b>226</b>
<b>E.N.C. . . . .</b>	<b>51,175</b>	<b>72,599</b>	<b>84,873</b>	<b>92,914</b>	<b>106,125</b>	<b>72,280</b>	<b>84,663</b>	<b>92,751</b>	<b>105,991</b>	<b>251</b>
OH . . . . .	13,489	20,864	24,220	26,462	30,538	20,864	24,220	26,462	30,538	280
IN . . . . .	6,683	9,904	10,827	11,406	12,341	9,615	10,634	11,271	12,220	218
IL . . . . .	11,899	18,634	19,850	21,081	24,712	18,634	19,850	21,081	24,712	212
MI . . . . .	15,124	17,755	23,879	27,612	31,746	17,755	23,879	27,612	31,746	342
WI . . . . .	3,980	5,442	6,097	6,353	6,788	5,442	6,080	6,325	6,775	139
<b>W.N.C. . . . .</b>	<b>15,036</b>	<b>23,105</b>	<b>25,973</b>	<b>27,468</b>	<b>30,394</b>	<b>22,965</b>	<b>25,800</b>	<b>27,326</b>	<b>30,230</b>	<b>169</b>
MN . . . . .	2,001	2,343	2,546	2,799	3,103	2,343	2,546	2,799	3,103	71
IA . . . . .	2,481	2,832	2,851	3,034	3,584	2,832	2,851	3,034	3,584	126
MO . . . . .	5,726	9,915	11,146	12,176	13,919	9,915	11,146	12,176	13,919	270
ND . . . . .	253	422	430	466	451	375	380	414	404	61
SD . . . . .	635	1,047	1,133	1,020	1,277	1,035	1,133	1,020	1,277	179
NE . . . . .	1,446	1,814	2,086	2,156	2,438	1,733	1,963	2,066	2,321	144
KS . . . . .	2,494	4,732	5,781	5,817	5,622	4,732	5,781	5,817	5,622	224
<b>South . . . . .</b>	<b>146,358</b>	<b>202,926</b>	<b>222,778</b>	<b>233,907</b>	<b>257,821</b>	<b>195,868</b>	<b>215,755</b>	<b>226,735</b>	<b>249,284</b>	<b>291</b>
<b>S.A. . . . .</b>	<b>78,815</b>	<b>108,228</b>	<b>119,735</b>	<b>126,428</b>	<b>141,215</b>	<b>101,620</b>	<b>113,098</b>	<b>119,642</b>	<b>133,383</b>	<b>309</b>
DE . . . . .	1,474	2,553	2,939	3,197	3,365	1,759	2,116	2,207	2,337	347
MD . . . . .	7,731	13,005	13,467	14,276	16,514	12,303	12,912	13,572	15,378	328
DC . . . . .	3,145	6,404	7,645	8,831	9,268	4,604	5,614	6,628	6,771	1,121
VA . . . . .	8,920	12,073	13,321	14,184	16,477	11,717	12,931	13,928	16,273	267
WV . . . . .	1,257	1,725	1,461	1,455	1,536	1,725	1,461	1,455	1,536	83
NC . . . . .	15,513	17,344	17,218	17,078	17,451	16,007	16,118	16,251	16,695	254
SC . . . . .	7,862	10,510	12,664	13,888	15,720	9,908	11,862	12,902	14,808	422
GA . . . . .	12,178	16,014	18,575	18,787	20,885	15,115	17,724	18,018	19,619	305
FL . . . . .	20,735	28,600	32,445	34,732	39,999	28,482	32,360	34,681	39,966	315
<b>E.S.C. . . . .</b>	<b>21,055</b>	<b>30,335</b>	<b>33,767</b>	<b>34,833</b>	<b>40,728</b>	<b>29,885</b>	<b>33,381</b>	<b>34,447</b>	<b>40,126</b>	<b>260</b>
KY . . . . .	3,588	5,801	6,436	7,119	8,289	5,801	6,436	7,119	8,289	222
TN . . . . .	7,022	11,127	12,624	13,907	16,621	11,127	12,624	13,907	16,621	214
AL . . . . .	6,543	11,015	12,827	12,610	13,907	10,749	12,602	12,357	13,575	330
MS . . . . .	3,902	6,392	6,880	7,384	7,911	6,208	6,719	7,251	7,700	294
<b>W.S.C. . . . .</b>	<b>46,488</b>	<b>64,363</b>	<b>69,276</b>	<b>72,646</b>	<b>75,878</b>	<b>64,363</b>	<b>69,276</b>	<b>72,646</b>	<b>75,775</b>	<b>281</b>
AR . . . . .	2,911	4,611	5,441	5,519	6,409	4,611	5,441	5,519	6,306	262
LA . . . . .	8,889	13,890	15,375	16,242	17,257	13,890	15,375	16,242	17,257	394
OK . . . . .	4,796	8,330	9,639	10,448	11,423	8,330	9,639	10,448	11,423	354
TX . . . . .	29,892	37,532	38,821	40,437	40,789	37,532	38,821	40,437	40,789	240
<b>West . . . . .</b>	<b>47,093</b>	<b>88,712</b>	<b>111,696</b>	<b>124,191</b>	<b>141,789</b>	<b>84,929</b>	<b>107,550</b>	<b>119,648</b>	<b>136,409</b>	<b>263</b>
<b>Mt. . . . .</b>	<b>13,141</b>	<b>22,798</b>	<b>28,312</b>	<b>31,325</b>	<b>35,606</b>	<b>22,329</b>	<b>27,822</b>	<b>30,689</b>	<b>34,885</b>	<b>258</b>
MT . . . . .	739	1,129	1,187	1,272	1,362	1,129	1,187	1,272	1,362	169
ID . . . . .	817	1,294	1,435	1,581	1,850	1,294	1,435	1,581	1,850	182
WY . . . . .	534	758	916	945	1,026	758	916	945	1,026	216
CO . . . . .	2,629	3,369	4,808	5,765	7,318	3,369	4,808	5,765	7,318	221
NM . . . . .	1,279	2,313	2,710	2,825	3,034	2,112	2,626	2,723	2,861	187
AZ . . . . .	4,372	8,531	10,948	12,095	13,251	8,273	10,558	11,578	12,726	358
UT . . . . .	932	1,633	1,874	1,961	2,378	1,623	1,858	1,944	2,355	138
NV . . . . .	1,839	3,771	4,434	4,881	5,387	3,771	4,434	4,881	5,387	485
<b>Pac. . . . .</b>	<b>33,952</b>	<b>65,914</b>	<b>83,384</b>	<b>92,866</b>	<b>106,183</b>	<b>62,600</b>	<b>79,728</b>	<b>88,959</b>	<b>101,524</b>	<b>265</b>
WA . . . . .	4,399	6,909	6,131	5,816	6,928	6,909	6,131	5,816	6,928	146
OR . . . . .	3,177	4,454	5,482	5,991	6,744	4,454	5,482	5,991	6,744	239
CA . . . . .	24,569	50,111	66,975	76,171	87,297	48,279	64,812	73,780	84,338	290
AK . . . . .	822	2,329	2,528	2,588	2,744	1,530	1,767	1,862	1,908	362
HI . . . . .	985	2,111	2,268	2,300	2,470	1,428	1,536	1,510	1,606	144

<sup>1</sup> Based on resident population estimated as of July 1, 1989. <sup>2</sup> Includes persons held under other jurisdiction, not shown separately. <sup>3</sup> Includes both jail and prison inmates (State has combined jail and prison system). <sup>4</sup> Numbers are custodial, not jurisdictional counts. <sup>5</sup> Includes an undetermined number of prisoners with sentences shorter than 1 year. <sup>6</sup> Jurisdiction counts exclude prisoners held in jail because of crowding.

Source: U.S. Bureau of Justice Statistics, *Prisoners in 1989*, and earlier reports.

### No. 339. Average Time Served by Prisoners Released From Federal Institutions for First Time, 1970 to 1986, and by Offense, 1986

[For fiscal years ending in year shown; see text, section 9. In computing averages, sentences to life and more than 45 years were counted as 45 years; minority sentences of juvenile delinquents were counted from date of date of sentence to 21st birthday]

YEAR AND OFFENSE	ALL FIRST RELEASES <sup>1</sup>			PAROLE <sup>1</sup>			EXPIRATION OF SENTENCE <sup>1 2</sup>			YCA <sup>3</sup> RELEASES	
	Number	Average time (months)		Number	Average time (months)		Number	Average time (months)		Number	Average time served (months)
		Sentence	Served		Sentence	Served		Sentence	Served		
1970, all offenses . . . . .	8,487	38.6	19.7	2,754	55.0	20.0	5,733	30.7	19.6	947	21.7
1975, all offenses . . . . .	11,313	39.8	18.5	4,367	73.7	27.8	6,946	18.5	12.6	1,136	21.6
1976, all offenses . . . . .	10,463	32.3	15.1	3,114	74.3	26.9	7,349	14.4	10.1	958	19.7
1977, all offenses . . . . .	10,953	30.7	15.5	2,688	70.8	26.5	8,265	17.7	12.0	1,038	21.9
1978, all offenses . . . . .	12,132	37.2	18.7	3,318	78.5	30.0	8,814	21.6	14.4	1,172	24.7
1979, all offenses . . . . .	10,925	44.1	21.0	3,766	85.1	32.6	7,159	22.4	14.9	1,008	25.3
1980, all offenses . . . . .	9,069	33.9	15.9	2,440	83.8	31.0	6,629	15.5	10.3	468	24.5
1981, all offenses . . . . .	9,884	41.0	17.9	3,495	83.9	30.2	6,389	17.6	11.1	650	25.0
1982, all offenses . . . . .	11,348	36.6	16.3	3,554	81.7	29.1	7,794	16.0	10.5	593	21.8
1983, all offenses . . . . .	11,896	35.4	15.9	4,263	69.8	27.0	7,633	16.3	9.7	545	20.0
1984, all offenses . . . . .	15,050	35.5	15.6	4,635	78.2	28.4	10,415	17.4	10.8	552	20.2
1985, all offenses . . . . .	14,937	35.5	15.9	4,511	76.6	26.6	10,426	17.7	11.3	453	21.5
1986, all offenses <sup>4</sup> . . . . .	16,996	34.0	15.6	4,657	76.6	26.7	12,339	18.0	11.4	293	24.0
Counterfeiting . . . . .	270	33.6	15.9	94	55.5	19.5	176	21.9	14.0	6	25.0
Drug laws . . . . .	4,793	43.2	19.5	1,961	68.7	24.4	2,832	25.6	16.1	86	20.6
Embezzlement . . . . .	333	23.8	11.4	91	51.1	19.1	242	13.6	8.4	5	15.2
Escape, flight, or harboring a fugitive . . . . .	111	30.5	18.9	21	47.1	22.3	90	26.7	18.1	5	15.0
Firearms . . . . .	654	32.7	17.7	124	65.3	25.2	530	25.0	16.0	12	23.9
Forgery . . . . .	470	29.0	14.8	171	49.1	19.9	299	17.6	11.9	11	19.2
Fraud . . . . .	1,247	27.8	13.6	366	54.7	20.1	881	16.6	10.8	5	26.4
Immigration . . . . .	4,015	5.8	3.7	206	39.1	14.6	3,809	4.0	3.1	4	20.2
Income tax . . . . .	359	18.3	10.3	85	36.5	14.4	274	12.6	9.0	-	-
Kidnapping . . . . .	29	251.6	85.7	19	327.0	109.5	10	108.3	40.5	5	37.6
Larceny-theft . . . . .	1,330	36.9	18.3	467	59.8	23.1	863	24.5	15.8	32	17.7
Motor vehicle, interstate . . . . .	225	45.4	22.1	102	56.0	21.7	123	36.7	22.4	6	19.0
Robbery . . . . .	866	128.5	46.5	518	165.6	50.5	348	73.3	40.5	64	25.4
Securities, transporting false . . . . .	31	55.9	40.6	8	126.0	43.3	23	31.5	15.5	-	-
White slave traffic . . . . .	5	48.0	26.0	2	42.0	15.0	3	52.0	33.3	1	8.0
Military court-martial cases . . . . .	11	150.7	66.0	6	185.0	64.3	5	109.6	68.2	-	-
Govt. reservation, high seas, territories, and DC . . . . .	1,070	31.0	14.5	172	105.5	34.6	898	16.7	10.7	38	33.3

- Represents zero. <sup>1</sup> Excludes prisoners sentenced under Youth Corrections Act. <sup>2</sup> Includes mandatory release. <sup>3</sup> Youth Corrections Act. <sup>4</sup> Includes other offenses not shown separately. Excludes 437 first releases (escapes, pardons, etc.) other than by parole, expiration of sentence, and mandatory release; also excludes 608 second or subsequent releases.

Source: U.S. Bureau of Prisons, *Statistical Report*, annual.

### No. 340. Prisoners Under Sentence of Death: 1980 to 1989

[As of December 31. Excludes prisoners under sentence of death who remained within local correctional systems pending exhaustion of appellate process or who had not been committed to prison]

CHARACTERISTIC	1980	1985	1987	1988	1989	CHARACTERISTIC	1980	1985	1987	1988	1989
Total . . . . .	714	<sup>1</sup> 1,575	<sup>1</sup> 1,967	<sup>1</sup> 2,117	<sup>1</sup> 2,250	Marital status:					
White . . . . .	427	896	1,128	1,235	1,310	Never married . . . . .	268	655	856	898	956
Black and other . . . . .	287	679	839	848	903	Married. <sup>2</sup> . . . . .	229	487	571	594	610
						Divorced <sup>2</sup> . . . . .	217	449	557	632	664
Under 20 years . . . . .	11	13	10	11	6	Time elapsed since sentencing:					
20 to 24 years . . . . .	173	212	222	195	191	Less than 12 months . . . . .	185	273	295	293	231
25 to 34 years . . . . .	334	804	969	1,048	1,080	12 to 47 months . . . . .	389	739	804	812	809
35 to 54 years . . . . .	186	531	744	823	917	48 to 71 months . . . . .	102	303	412	409	408
55 years and over . . . . .	10	31	39	47	56	72 months and over . . . . .	38	276	473	610	802
Years of school completed:						Legal status at arrest:					
7 years or less . . . . .	68	147	181	180	183	Not under sentence . . . . .	384	861	1,123	1,207	1,301
8 years . . . . .	74	159	183	184	178	Parole or probation . . . . .	115	<sup>3</sup> 350	<sup>3</sup> 480	<sup>3</sup> 545	<sup>3</sup> 585
9 to 11 years . . . . .	204	483	650	692	739	Prison or escaped . . . . .	45	81	91	93	94
12 years . . . . .	162	440	591	657	695	Unknown . . . . .	170	299	290	279	270
More than 12 years . . . . .	43	127	168	180	192						
Unknown . . . . .	163	235	211	231	263						

<sup>1</sup> Revisions to the total number of prisoners were not carried to the characteristics except for race. <sup>2</sup> Includes persons married but separated, widows, widowers, and unknown. <sup>3</sup> Data for 1985 include 20 persons; for 1987, 22 persons; and for 1988 and 1989, 24 persons on mandatory conditional release, work release, leave, AWOL, or bail.

Source: U.S. Bureau of Justice Statistics, *Capital Punishment*, annual.



**No. 341. Movement of Prisoners Under Sentence of Death: 1975 to 1989**

[Prisoners reported under sentence of death by civil authorities. The term "under sentence of death" begins when the court pronounces the first sentence of death for a capital offense. As a result of a major procedural change, beginning 1979, all data except executions are not strictly comparable to corresponding data in 1975. See source for explanation.]

STATUS	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Under sentence of death, Jan. 1	244	483	595	697	865	1,072	1,216	1,420	1,575	1,781	1,967	2,117
Received death sentence	322	173	203	250	287	263	296	281	297	299	296	251
White	145	104	125	131	166	156	173	165	164	190	196	133
Black	174	67	77	115	117	105	119	114	123	106	91	114
Dispositions other than executions	78	59	101	82	76	117	69	108	73	90	128	102
Executions	-	2	-	1	2	5	21	18	18	25	11	16
Under sentence of death, Dec. 31	488	595	697	864	1,073	1,214	1,420	1,575	1,781	1,967	2,117	2,250
White	218	354	425	499	615	694	809	896	1,006	1,128	1,238	1,310
Black	262	238	268	357	446	508	595	664	750	813	853	903

- Represents zero. <sup>1</sup> Includes races other than White or Black.

Source: 1975, U.S. Law Enforcement Assistance Administration; thereafter, U.S. Bureau of Justice Statistics, *Capital Punishment*, annual.

**No. 342. Prisoners Executed Under Civil Authority: 1930 to 1989**

[Excludes executions by military authorities. The Army (including the Air Force) carried out 160 (148 between 1942 and 1950, 3 each in 1954, 1955, and 1957, and 1 each in 1958, 1959, and 1961). Of the total, 106 were executed for murder (including 21 involving rape), 53 for rape, and 1 for desertion. The Navy carried out no executions during the period. See also *Historical Statistics, Colonial Times to 1970*, series H 1155-1167.]

YEAR OR PERIOD	Total <sup>1</sup>	White	Black	EXECUTED FOR MURDER			EXECUTED FOR RAPE			EXECUTED, OTHER OFFENSES		
				Total <sup>1</sup>	White	Black	Total	White	Black	Total <sup>1</sup>	White	Black
All years	3,979	1,822	2,115	3,454	1,735	1,679	455	48	405	70	39	31
1930-1939	1,667	827	816	1,514	803	687	125	10	115	28	14	14
1940-1949	1,284	490	781	1,064	458	595	200	19	179	20	13	7
1950-1959	717	336	376	601	316	280	102	13	89	14	7	7
1960-1967	191	98	93	155	87	68	28	6	22	8	5	3
1968-1976	-	-	-	-	-	-	-	-	-	-	-	-
1977-1980	3	3	-	-	3	-	-	-	-	-	-	-
1981	1	1	-	1	1	-	-	-	-	-	-	-
1982	2	1	1	2	1	1	-	-	-	-	-	-
1983	5	4	1	5	4	1	-	-	-	-	-	-
1984	21	13	8	21	13	8	-	-	-	-	-	-
1985	18	11	7	18	11	7	-	-	-	-	-	-
1986	18	11	7	18	11	7	-	-	-	-	-	-
1987	25	13	12	25	13	12	-	-	-	-	-	-
1988	11	6	5	11	6	5	-	-	-	-	-	-
1989	16	8	8	16	8	8	-	-	-	-	-	-

- Represents zero. <sup>1</sup> Includes races other than White or Black. <sup>2</sup> Includes 25 armed robbery, 20 kidnapping, 11 burglary, 8 espionage (6 in 1942 and 2 in 1953), and 6 aggravated assault.

Source: Through 1978, U.S. Law Enforcement Assistance Administration; thereafter, U.S. Bureau of Justice Statistics, *Correctional Populations in the United States*, annual.

**No. 343. Prisoners Under Sentence of Death and Executed Under Civil Authority, by States: 1950 to 1989**

[No executions took place in Maine, Michigan, Minnesota, New Hampshire, North Dakota, Rhode Island, and Wisconsin from 1940 to 1987. Maine, Minnesota, and Wisconsin never authorized the death penalty during the period. New Hampshire and Rhode Island authorized it for most of the 4 decades but did not apply it. Michigan abolished the penalty in 1963, and North Dakota allowed the punishment statute to lapse in 1975. Alaska and Hawaii could enter these data after receiving statehood in 1959, but neither has authorized the death penalty.]

STATE	1950 to 1959	1960 to 1969	1970 to 1979	1980 to 1988	1989	STATE	1950 to 1959	1960 to 1969	1970 to 1979	1980 to 1988	1989	STATE	1950 to 1959	1960 to 1969	1970 to 1979	1980 to 1988	1989
Total <sup>1</sup>	717	191	3	101	16	IA	1	2	-	-	-	OH	32	7	-	-	-
AL	20	5	-	3	-	KS	5	5	-	-	-	OK	7	6	-	-	-
AZ	8	4	-	-	-	KY	16	1	-	-	-	OR	4	1	-	-	-
AR	18	9	-	-	-	LA	27	1	-	18	-	PA	31	3	-	-	-
CA	74	30	-	-	-	MD	6	1	-	-	-	SC	26	8	-	2	-
CO	3	6	-	-	-	MA	-	-	-	-	-	SD	-	-	-	-	-
CT	5	1	-	-	-	MS	36	10	-	3	-	TN	8	1	-	-	-
DE	-	-	-	-	-	MO	7	4	-	-	-	TX	74	29	-	29	-
DC	4	-	-	-	-	MT	-	-	-	-	-	UT	6	1	1	2	-
FL	49	12	1	18	-	NE	2	-	-	-	-	VT	2	-	-	-	-
GA	85	14	-	13	-	NV	9	2	1	1	-	VA	23	6	-	7	-
ID	3	-	-	-	-	NJ	17	3	-	-	-	WA	6	2	-	-	-
IL	9	2	-	-	-	NY	3	1	-	-	-	WV	9	-	-	-	-
IN	2	1	-	2	-	NY	52	10	-	-	-	WY	-	1	-	-	-
						NC	19	1	-	3	-						

<sup>1</sup> Includes 23 Federal executions not shown by State (1940-1949, 13; 1950-1959, 9; and 1960-1969, 1).

Source: Through 1978, U.S. Law Enforcement Assistance Administration; thereafter, U.S. Bureau of Justice Statistics, *Capital Punishment*, annual.

**No. 344. Fire Losses—Total and Per Capita: 1960 to 1989**

[1960 excludes Alaska and Hawaii. Includes allowance for uninsured and unreported losses but excludes losses to government property and forests. Represents incurred losses.]

YEAR	Total (mil. dol.)	Per capita <sup>1</sup>	YEAR	Total (mil. dol.)	Per capita <sup>1</sup>	YEAR	Total (mil. dol.)	Per capita <sup>1</sup>
1960	1,108	6.19	1973	2,639	12.49	1982	5,894	25.41
1965	1,456	7.51	1974	3,190	14.95	1983	6,320	26.98
1966	1,497	7.64	1975	3,190	14.81	1984	7,602	32.15
1967	1,707	8.66	1976	3,558	16.35	1985	7,753	32.47
1968	1,830	9.20	1977	3,764	17.13	1986	8,488	35.21
1969	1,952	9.71	1978	4,008	18.05	1987	8,634	35.44
1970	2,328	11.41	1979	4,851	21.60	1988	9,626	39.11
1971	2,316	11.20	1980	5,579	24.55	1989	10,210	41.13
1972	2,304	11.01	1981	5,625	24.50			

<sup>1</sup> Based on Bureau of the Census estimated resident population as of July 1.

Source: 1960, National Board of Fire Underwriters, New York, NY, *Report of the Committee on Statistics and Origin of Losses*; thereafter, Insurance Information Institute, New York, NY, *Insurance Facts*, annual.

**No. 345. Fires—Number and Loss, by Type and Property Use: 1980 to 1988**

[Based on annual sample survey of fire departments. No adjustments were made for unreported fires and losses. Property loss includes direct property loss only]

TYPE AND PROPERTY USE	NUMBER (1,000)							PROPERTY LOSS (mil. dol.)						
	1980	1983	1984	1985	1986	1987	1988	1980	1983	1984	1985	1986	1987	1988
<b>Fires, total</b>	<b>2,988</b>	<b>2,327</b>	<b>2,343</b>	<b>2,371</b>	<b>2,271</b>	<b>2,330</b>	<b>2,437</b>	<b>6,254</b>	<b>6,598</b>	<b>6,707</b>	<b>7,324</b>	<b>6,709</b>	<b>7,159</b>	<b>8,352</b>
Structure	1,065	869	848	860	800	758	745	5,454	5,826	5,891	6,437	5,837	6,226	7,186
Outside of structure	87	49	45	51	150	55	63	61	35	29	63	56	64	195
Brush and rubbish	1,115	756	790	832	795	882	1,009	-	-	-	-	-	-	-
Vehicle	472	447	455	456	456	471	478	695	694	749	792	783	842	941
Other	249	206	205	172	170	184	142	54	43	38	32	33	27	38
<b>Structure by property use:</b>														
Public assembly	29	25	24	24	123	21	20	326	354	336	462	356	300	297
Educational	20	11	12	13	112	11	10	101	103	122	114	123	96	112
Institutional	28	23	22	23	122	19	14	25	14	18	17	18	21	23
Stores and offices	62	50	49	49	145	45	38	645	686	654	654	661	632	754
Residential	758	642	623	622	581	552	552	3,042	3,306	3,440	3,774	3,556	3,699	4,020
1-2 family units	581	524	506	502	468	433	432	2,447	2,792	2,945	3,217	2,992	3,078	3,349
Apartments	143	102	98	104	97	104	106	401	413	417	476	472	521	548
Hotels and motels	12	7	9	8	8	8	8	154	64	50	56	70	80	100
Other residential	12	7	9	8	8	7	6	40	37	28	25	22	20	168
Storage	65	48	48	52	146	48	50	512	473	536	683	450	633	51,079
Industry, utility, defense	55	36	35	36	134	28	27	672	763	631	572	536	596	596
Special structures	48	34	35	41	137	34	34	131	127	154	161	137	129	168

- Represents zero. <sup>1</sup> Includes outside storage, crops, timber, etc. <sup>2</sup> Includes two prison fires totalling \$120 million. <sup>3</sup> Includes mobile homes. <sup>4</sup> Data underreported as some incidents were handled by private fire brigades or fixed suppression systems which do not report. <sup>5</sup> Includes three industrial fires totalling \$464 million.

Source: National Fire Protection Association, Quincy, MA, "Fire Loss in the United States in 1988", *Fire Journal*, September 1989 (and prior issues). Copyright 1989.

**No. 346. Fires and Property Loss for Incendiary and Suspicious Fires; and Civilian Fire Deaths and Injuries by Selected Property Type: 1980 to 1988**

[Based on sample survey of fire departments]

ITEM	1980	1985	1987	1988	ITEM	1980	1985	1987	1988
<b>NUMBER (1,000)</b>					<b>CIVILIAN FIRE DEATHS</b>				
Structure fires, total	1,065	860	758	745	Deaths, total <sup>2</sup>	6,505	6,185	5,810	6,215
Structure fires of incendiary or suspicious origin	146	117	105	100	Residential property	5,446	5,025	4,660	5,065
Fires of incendiary origin	92	69	66	63	One- and two-family dwellings	4,175	4,020	3,780	4,125
Fires of suspicious origin	54	48	39	37	Apartments	1,025	865	790	830
					Vehicles	740	825	805	865
<b>PROPERTY LOSS <sup>1</sup> (mil. dol.)</b>					<b>CIVILIAN FIRE INJURIES</b>				
Structure fires, total	5,454	6,437	6,226	7,186	Injuries, total <sup>2</sup>	30,200	28,425	28,215	30,800
Structure fires of incendiary or suspicious origin	1,760	1,670	1,590	1,594	Residential property	21,000	19,825	20,440	22,600
Fires of incendiary origin	1,158	1,069	1,109	1,022	One- and two-family dwellings	16,100	15,250	15,200	17,125
Fires of suspicious origin	602	601	481	572	Apartments	3,600	3,925	4,765	4,950
					Vehicles	4,075	3,600	3,150	2,950

<sup>1</sup> Direct property loss only. <sup>2</sup> Includes other not shown separately.

Source: National Fire Protection Association, Quincy, MA, "Fire Loss in the United States in 1988", *Fire Journal*, September 1989 (and prior issues). Copyright 1989.



## Section 6

# Geography and Environment

This section presents a variety of information on the physical environment of the United States, starting with basic area measurement data and ending with climatic data for selected weather stations around the country. The subjects covered between those points are mostly concerned with environmental trends, but include such related subjects as land use and ownership, water consumption, hazardous waste sites, threatened and endangered wildlife, and expenditures for pollution abatement and control.

The information in this section is selected from a wide range of Federal agencies that compile the data for various administrative or regulatory purposes, such as the Environmental Protection Agency, Geological Survey, National Oceanic and Atmospheric Administration, and General Services Administration. Other agencies include the Bureau of the Census, which presents nationwide area measurement information; the Council on Environmental Quality (CEQ), which presents data on environmental conditions and pollutants in its annual report; and the Bureau of Economic Analysis, which compiles data on pollution abatement and control expenditures.

**Area.**—Area measurements were first conducted for the United States as a whole, and gradually were extended to the individual States. The annual report of the U.S. General Land Office for 1850 contained the first reference to measurements of areas of the States and Territories. In 1881, as part of the 1880 Census of Population, the Bureau of the Census laid the foundation for accurate and detailed area measurement in the United States. For the first time, an account was given of the methods and maps employed, the water bodies included, and the outer limits of the United States used as a basis for measurement. As part of the 1940 census, the Bureau published *Areas of the United States: 1940*, in which data were presented on the total land and inland water areas of the States, counties, places, and minor civil divisions. Since the 1940 census, the Bureau has published area measurement figures in each succeeding census, revising figures to take into account new entities, new reservoirs, better maps, and obvious errors and inconsistencies until the 1990 census.

For the 1990 census, area measurements were calculated by computer based on the information contained in a single, consistent geographic data base, the TIGER File (described below), rather than relying on historical and local information. This especially affects inland water areas in 1990, which had only covered those bodies of water of least 40 acres and those streams with a width of at least one-eighth of a statute mile from 1940 to 1980. Inland water areas in 1990 increased as any body of water or stream that appeared in the TIGER data base was reflected. Also, water areas shown in the 1990 census data files reflect all water whereas previous area measurements reported in the censuses were only for inland water.

**Geography.**—The Geological Survey conducts investigations, surveys, and research in the fields of geography, geology, topography, geographic information systems, mineralogy, hydrology, and geothermal energy resources as well as natural hazards. In cooperation with State and local agencies, the Geological Survey prepares and publishes topographic, land use/land cover, geologic, and hydrologic maps and data compilations. The Geological Survey provides United States cartographic data through the Earth Sciences Information Center, water resources data through a multi-volume *Catalog of Information on Water Data*, and a variety of research and Open-File reports which are announced monthly in *New Publications of the Geological Survey*. In a joint project with the Census Bureau, the Geological Survey has provided the basic information on geographic features for input into a national geographic and cartographic data base being prepared by the Census Bureau called the TIGER (Topologically Integrated Geographic Encoding and Referencing) System.

Maps prepared by the Bureau of the Census show names and boundaries of various types of political and statistical areas, such as places, county subdivisions, census tracts, and urbanized areas, and are available as of the specific decennial census. An inventory of most of these areas is available for the 1990 census both in printed and tape form in the *Geographic Identification Code Scheme* and for the 1987 economic censuses in *Geographic Reference Manual* (EC87-R-1). The Census Bureau maintains a current inventory of political units and, for many entities, their

legal boundaries through its annual Boundary and Annexation Survey. The TIGER data base contains information on the political and statistical entities used by the Census Bureau, as well as on both manmade and natural features, such as streets, roads, railroads, rivers, and lakes; information is available to the public in form of TIGER machine-readable extract files.

An inventory of the nation's land resources by type of use/cover was conducted by the Soil Conservation Service in 1982. The results, published in the *1982 National Inventory of Land Resources*, cover all non-Federal land in Puerto Rico, the Virgin Islands, and the U.S. except Alaska. Data for 1987 are forthcoming in 1990.

**Environment.**—The CEQ is responsible for overseeing the environmental assessment process, recommending national environmental policies, analyzing changes and trends in the environment, and for reviewing Federal programs affecting the environment. It reports on environmental conditions, trends, programs and activities in its annual publication, *Environmental Quality*. The CEQ has also published unique compilations of environmental data in *Environmental Statistics, 1979*, and has recently published a new edition of *Environmental Trends*. The principal Federal agency responsible for pollution abatement and control activities is the Environmental Protection Agency (EPA). It is responsible for establishing and monitoring national air quality standards, water quality activities, solid and hazardous waste disposal, and control of toxic substances.

National Ambient Air Quality Standards (NAAQS) for suspended particulate matter, sulfur dioxide, photochemical oxidants, carbon monoxide, and nitrogen dioxide were originally set by the EPA in April 1971. Every 5 years each of the NAAQS are reviewed and revised if new health or welfare data indicates that a change is necessary. The standard for photochemical oxidants now called ozone was revised in February 1979. Also, a new NAAQS for lead was promulgated in October 1978 and for suspended particulate matter in 1987. Table 359 gives some of the health-related standards for the six air pollutants having NAAQS. Responsibility for demonstrating compliance with or progress toward achieving these standards lies with the State agencies. There are 1,750 non-Federal sampling stations for suspended particulates, 374 for sulfur dioxide, 248 for carbon monoxide, 388 for ozone, 116 for nitrogen dioxide, and 139 for lead. Data from these State networks are periodically submitted to EPA's National Aerometric Data Bank for summarization in annual reports on the nationwide status and trends in air quality; for details, see *National Air Quality and Emissions Trends Report, 1988*.

**Pollution abatement and control expenditures.**—Data on expenditures for pollution abatement and control are compiled and published by the U.S. Bureau of Economic Analysis (BEA), the U.S. Bureau of the Census, and the CEQ as part of ongoing programs. BEA conducts surveys on national expenditures for pollution abatement and control and presents the data in its *Survey of Current Business*. The U.S. Bureau of the Census collects data on State and local government and industry expenditures on control activities. Data on government expenditures are reported in an annual series of publications, *Government Finances*, which covers expenditures on sewage and sanitation outlays. Industry data are reported annually in *Current Industrial Reports*. CEQ publishes some expenditure data in *Environmental Quality*.

**Climate.**—NOAA, through the National Weather Service and the National Environmental Satellite, Data and Information Service, is responsible for data on climate. NOAA maintains about 11,600 weather stations, of which over 3,000 produce autographic precipitation records, about 600 take hourly readings of a series of weather elements, and the remainder record data once a day. These data are reported monthly in the *Climatological Data* (published by State), and monthly and annually in the *Local Climatological Data* (published by location for major cities).

The climatological temperature, precipitation, and degree day normals listed in this publication are derived for comparative purposes and are averages for the 30-year period, 1951-80. For stations that did not have continuous records for the entire 30 years from the same instrument site, the normals have been adjusted to provide representative values for the current location. The information in all other tables is based on data from the beginning of the record at that location through 1989, except as noted.

The degree day normals are used to determine relative estimates of heating and cooling requirements for buildings. Each degree that the average temperature for a day is below 65 degrees F produces one heating degree day. For example, if the maximum temperature is 70 degrees F and the minimum temperature is 52 degrees F, the average temperature for the day is 61 degrees, resulting in four (4) heating degree days. Cooling degree days are calculated in a similar fashion for each degree that the average temperature is above 65 degrees F. The monthly degree day normals represent the average accumulation of the daily values for the month.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

## No. 347. Land and Water Area of States: 1990

[One square mile = 2.59 square kilometers. See *Historical Statistics of the United States, Colonial Times to 1970*, series A 210-263, for land area]

REGION, DIVISION, AND STATE	Year admitted to state- hood	TOTAL AREA			LAND AREA <sup>1</sup>		WATER AREA <sup>2</sup>	
		Rank	Sq. mi.	Sq. km.	Sq. mi.	Sq. km.	Sq. mi.	Sq. km.
<b>United States . . . .</b>	(X)	(X)	<b>3,787,425</b>	<b>9,809,431</b>	<b>3,536,342</b>	<b>9,159,125</b>	<b>251,083</b>	<b>650,306</b>
<b>Northeast . . . . .</b>	(X)	(X)	<b>181,252</b>	<b>469,442</b>	<b>162,274</b>	<b>420,289</b>	<b>18,978</b>	<b>49,152</b>
<b>New England . . . . .</b>	(X)	(X)	<b>71,997</b>	<b>186,472</b>	<b>62,812</b>	<b>162,682</b>	<b>9,185</b>	<b>23,790</b>
Maine . . . . .	1820	39	35,387	91,653	30,865	79,939	4,523	11,714
New Hampshire . . . . .	<sup>3</sup> 1788	46	9,351	24,219	8,968	23,231	382	988
Vermont . . . . .	<sup>3</sup> 1791	45	9,615	24,903	9,249	23,956	366	947
Massachusetts . . . . .	<sup>3</sup> 1788	44	10,555	27,337	7,838	20,300	2,717	7,037
Rhode Island . . . . .	<sup>3</sup> 1790	50	1,545	4,002	1,045	2,706	500	1,295
Connecticut . . . . .	<sup>3</sup> 1788	48	5,544	14,358	4,845	12,550	698	1,808
<b>Middle Atlantic . . . . .</b>	(X)	(X)	<b>109,255</b>	<b>282,970</b>	<b>99,462</b>	<b>257,607</b>	<b>9,792</b>	<b>25,362</b>
New York . . . . .	<sup>3</sup> 1788	27	54,475	141,089	47,224	122,310	7,251	18,779
New Jersey . . . . .	<sup>3</sup> 1787	47	8,722	22,590	7,419	19,215	1,303	3,375
Pennsylvania . . . . .	<sup>3</sup> 1787	33	46,058	119,291	44,820	116,083	1,239	3,208
<b>Midwest . . . . .</b>	(X)	(X)	<b>821,872</b>	<b>2,128,648</b>	<b>751,521</b>	<b>1,946,440</b>	<b>70,350</b>	<b>182,208</b>
<b>East North Central . . . . .</b>	(X)	(X)	<b>301,479</b>	<b>780,830</b>	<b>243,539</b>	<b>630,766</b>	<b>57,940</b>	<b>150,064</b>
Ohio . . . . .	1803	34	44,828	116,103	40,953	106,067	3,875	10,036
Indiana . . . . .	1816	38	36,420	94,328	35,870	92,904	550	1,424
Illinois . . . . .	1818	25	57,918	150,007	55,593	143,987	2,325	6,021
Michigan . . . . .	1837	11	96,810	250,738	56,809	147,136	40,001	103,603
Wisconsin . . . . .	1848	23	65,503	169,653	54,314	140,673	11,190	28,981
<b>West North Central . . . . .</b>	(X)	(X)	<b>520,393</b>	<b>1,347,817</b>	<b>507,982</b>	<b>1,315,674</b>	<b>12,410</b>	<b>32,143</b>
Minnesota . . . . .	1858	12	86,943	225,182	79,617	206,207	7,326	18,974
Iowa . . . . .	1846	26	56,276	145,754	55,875	144,716	401	1,038
Missouri . . . . .	1821	21	69,709	180,546	68,898	178,446	811	2,100
North Dakota . . . . .	1889	19	70,704	183,123	68,994	178,695	1,710	4,428
South Dakota . . . . .	1889	17	77,121	199,745	75,898	196,575	1,224	3,169
Nebraska . . . . .	1867	16	77,358	200,358	76,878	199,113	481	1,245
Kansas . . . . .	1861	15	82,282	213,110	81,823	211,922	459	1,189
<b>South . . . . .</b>	(X)	(X)	<b>919,937</b>	<b>2,382,636</b>	<b>871,070</b>	<b>2,256,071</b>	<b>48,867</b>	<b>126,565</b>
<b>South Atlantic . . . . .</b>	(X)	(X)	<b>292,993</b>	<b>758,853</b>	<b>266,220</b>	<b>689,510</b>	<b>26,773</b>	<b>69,343</b>
Delaware . . . . .	<sup>3</sup> 1787	49	2,489	6,447	1,955	5,062	535	1,385
Maryland . . . . .	<sup>3</sup> 1788	42	12,407	32,135	9,775	25,316	2,633	6,819
District of Columbia . . . . .	(X)	(X)	68	177	61	159	7	18
Virginia . . . . .	<sup>3</sup> 1788	35	42,769	110,771	39,598	102,558	3,171	8,213
West Virginia . . . . .	1863	41	24,231	62,759	24,087	62,384	145	375
North Carolina . . . . .	<sup>3</sup> 1789	28	53,821	139,397	48,718	126,180	5,103	13,217
South Carolina . . . . .	<sup>3</sup> 1788	40	32,007	82,898	30,111	77,988	1,896	4,911
Georgia . . . . .	<sup>3</sup> 1788	24	59,441	153,953	57,919	150,010	1,522	3,943
Florida . . . . .	1845	22	65,758	170,313	53,997	139,852	11,761	30,461
<b>East South Central . . . . .</b>	(X)	(X)	<b>183,414</b>	<b>475,042</b>	<b>178,616</b>	<b>462,615</b>	<b>4,798</b>	<b>12,427</b>
Kentucky . . . . .	1792	37	40,411	104,665	39,732	102,907	679	1,758
Tennessee . . . . .	1796	36	42,146	109,158	41,220	106,759	926	2,400
Alabama . . . . .	1819	30	52,423	135,775	50,750	131,443	1,673	4,332
Mississippi . . . . .	1817	32	48,434	125,443	46,914	121,506	1,520	3,937
<b>West South Central . . . . .</b>	(X)	(X)	<b>443,530</b>	<b>1,148,742</b>	<b>426,234</b>	<b>1,103,946</b>	<b>17,296</b>	<b>44,795</b>
Arkansas . . . . .	1836	29	53,182	137,742	52,075	134,875	1,107	2,867
Louisiana . . . . .	1812	31	51,843	134,275	43,566	112,836	8,277	21,439
Oklahoma . . . . .	1907	20	69,903	181,049	68,679	177,877	1,224	3,171
Texas . . . . .	1845	2	268,601	695,676	261,914	678,358	6,687	17,319
<b>West . . . . .</b>	(X)	(X)	<b>1,864,365</b>	<b>4,828,706</b>	<b>1,751,477</b>	<b>4,536,325</b>	<b>112,888</b>	<b>292,381</b>
<b>Mountain . . . . .</b>	(X)	(X)	<b>863,614</b>	<b>2,236,760</b>	<b>856,122</b>	<b>2,217,356</b>	<b>7,492</b>	<b>19,403</b>
Montana . . . . .	1889	4	147,046	380,850	145,556	376,991	1,490	3,859
Idaho . . . . .	1890	14	83,574	216,456	82,751	214,325	823	2,131
Wyoming . . . . .	1890	10	97,818	253,349	97,105	251,501	714	1,848
Colorado . . . . .	1876	8	104,100	269,620	103,730	268,660	371	960
New Mexico . . . . .	1912	5	121,598	314,939	121,365	314,334	234	605
Arizona . . . . .	1912	6	114,006	295,276	113,642	294,333	364	943
Utah . . . . .	1896	13	84,904	219,902	82,168	212,816	2,736	7,086
Nevada . . . . .	1864	7	110,567	286,368	109,806	284,397	761	1,971
<b>Pacific . . . . .</b>	(X)	(X)	<b>1,000,751</b>	<b>2,591,946</b>	<b>895,355</b>	<b>2,318,968</b>	<b>105,397</b>	<b>272,978</b>
Washington . . . . .	1889	18	71,303	184,674	66,582	172,447	4,721	12,227
Oregon . . . . .	1859	9	98,386	254,819	98,003	248,647	2,383	6,172
California . . . . .	1850	3	163,707	424,002	155,973	403,970	7,734	20,031
Alaska . . . . .	1959	1	666,424	1,700,139	570,374	1,477,267	86,051	222,871
Hawaii . . . . .	1959	43	10,932	28,313	6,423	16,636	4,508	11,676

X Not applicable. <sup>1</sup> Dry land and land temporarily or partially covered by water, such as marshland, swamps, etc.; streams and canals under one-eighth statute mile wide; and lakes, reservoirs, and ponds under 40 acres. <sup>2</sup> Permanent inland water surface, such as lakes, reservoirs, and ponds having an area of 40 acres or more; streams, sloughs, estuaries, and canals one-eighth statute mile or more in width; deeply indented embayments and sounds, and other coastal waters behind or sheltered by headlands or islands separated by less than 1 nautical mile of water, and islands under 40 acres in area. Excludes areas of oceans, bays, sounds, etc., lying within U. S. jurisdiction but not defined as inland water. <sup>3</sup> Year of ratification of Constitution; one of the original 13 States.

Source: U.S. Bureau of the Census, unpublished data.

**No. 348. Territorial Expansion of the United States and Acquisitions of Other Areas**

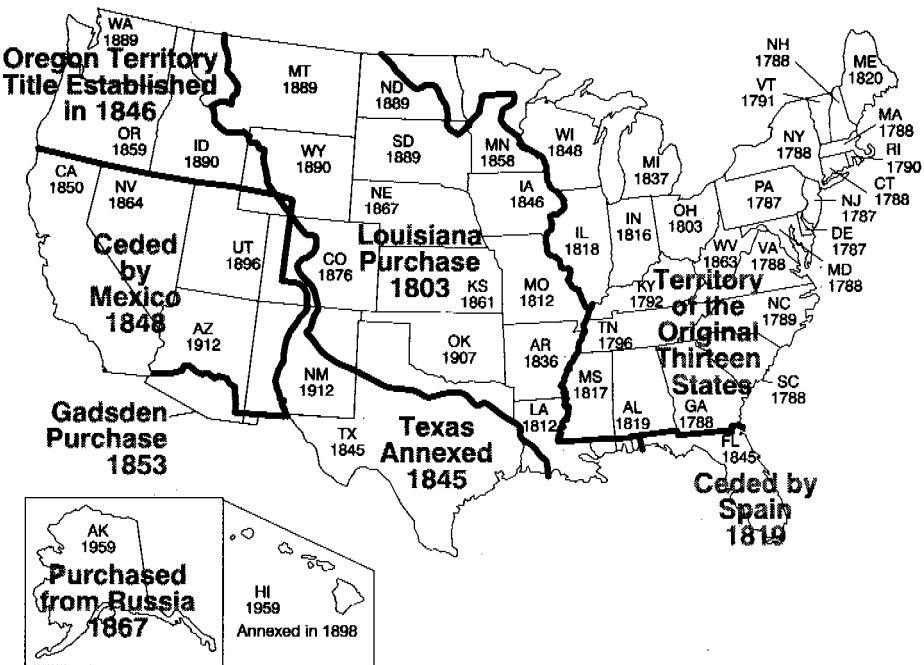
[One square mile = 2.59 square kilometers. Boundaries of all territories listed under "United States" were indefinite, at least in part, at time of acquisition. Area figures shown here represent precise determinations of specific territories which have been marked upon maps, based upon interpretations of the several treaties of cession, which are necessarily debatable. These determinations were made by a committee consisting of representatives of various governmental agencies in 1912. Subsequently these figures were adjusted to bring them into agreement with remeasurements made in 1960. See also *Historical Statistics, Colonial Times to 1970*, series J 1-2]

ACCESSION	Acquisition date	GROSS AREA (land and water)		ACCESSION	Acquisition date	GROSS AREA (land and water)	
		Sq. mi.	Sq. km.			Sq. mi.	Sq. km.
<b>Total</b> .....	(X)	<b>3,623,434</b>	<b>9,384,694</b>	Hawaii .....	1898	6,471	16,760
United States .....	(X)	3,618,770	9,372,614	Other areas:			
Territory in 1790 <sup>1</sup> .....	(X)	891,364	2,308,633	Puerto Rico .....	<sup>2</sup> 1898	3,515	9,104
Louisiana Purchase .....	1803	831,321	2,153,121	Guam .....	<sup>3</sup> 1898	209	541
Purchase of Florida .....	1819	69,866	180,953	American Samoa .....	<sup>4</sup> 1899	77	199
Texas .....	1845	384,958	997,041	Virgin Islands of the U.S. .....	1917	132	342
Oregon .....	1846	283,439	734,107	Pacific Islands .....			
Mexican Cession .....	1848	530,706	1,374,529	Trust Territory of the .....	<sup>5</sup> 1947	533	1,380
Gadsden Purchase .....	1853	29,640	76,768	No. Mariana Islands .....	1947	184	477
Alaska .....	1867	581,004	1,530,700	All other .....	(X)	14	36

X Not applicable. <sup>1</sup> Includes that part of drainage basin of Red River of the North, south of 49th parallel, sometimes considered part of Louisiana Purchase. <sup>2</sup> Ceded by Spain in 1898, ratified in 1899, and became Commonwealth of Puerto Rico by Act of Congress on July 25, 1952. <sup>3</sup> Acquired 1898; ratified 1899. <sup>4</sup> Acquired 1899; ratified 1900. <sup>5</sup> Land area only. Under trusteeship in 1980. <sup>6</sup> Comprises the following islands with gross areas as indicated in square miles: Midway (2), Wake (3), Palmyra (4), Navassa (2), Baker, Howland, and Jarvis (combined area, 3), Johnston Atoll (combined area, less than .5), and Kingman Reef (less than .5). Excludes Canton and Enderbury Islands (combined area 27 sq. mi. or 73 sq. km.), which are considered to be under the jurisdiction of Kiribati since 1979, and Swan Islands (1 sq. mi.), which were returned to Honduras in 1972.

Source: U.S. Bureau of the Census, unpublished data.

**Figure 6.1**  
**Territorial Expansion of the United States and**  
**Acquisitions of Other Principal Areas**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 348.

## No. 349. Area and Acquisition of the Federal Public Domain: 1781 to 1988

[In millions of acres. Areas of acquisitions are as computed in 1912, and do not agree with figures in square miles shown in table 348 which include later adjustments and reflect subsequent remeasurement. Excludes outlying areas of the United States amounting to 645,949 acres in 1978. See also *Historical Statistics, Colonial Times to 1970*, series J 3-6]

YEAR	Land area, total	YEAR	LAND AREA <sup>1</sup>			YEAR AND ACQUISITION	ACREAGE		
			Total	Public domain	Acquired		Total	Land	In-land water
1802. . . . .	200.0	1975. . . . .	760.4	702.9	57.5	<b>Aggregate . . . . .</b>	<b>1,837.8</b>	<b>1,804.7</b>	<b>33.1</b>
1850. . . . .	1,200.0	1976. . . . .	762.2	702.8	59.4				
1880. . . . .	900.0	1977. . . . .	741.5	683.3	58.2	1781-1802 (State Cessions). . . . .	236.8	233.4	3.4
1912. . . . .	600.0	1978. . . . .	775.2	712.0	63.3	1803, Louisiana Purchase <sup>2</sup> . . . . .	529.9	523.4	6.5
1946. . . . .	413.0	1979. . . . .	744.1	684.3	59.8	1819, Cession from Spain . . . . .	46.1	43.3	2.8
1950. . . . .	412.0	1980. . . . .	719.5	648.0	71.5	Red River Basin <sup>3</sup> . . . . .	29.6	29.1	0.5
1955. . . . .	407.9	1981. . . . .	730.8	668.7	62.2	1846, Oregon Compromise . . . . .	163.4	180.6	2.7
1959. . . . .	788.6	1982. . . . .	729.8	670.0	59.8	1848, Mexican Cession <sup>2</sup> . . . . .	338.7	334.5	4.2
1960. . . . .	771.5	1983. . . . .	732.0	672.4	59.6	1850, Purchase from Texas . . . . .	78.9	78.8	.1
1965. . . . .	765.8	1984. . . . .	726.6	658.9	67.7	1853, Gadsden Purchase . . . . .	19.0	19.0	(Z)
1970. . . . .	761.3	1985. . . . .	726.7	656.2	70.5	1867, Alaska Purchase . . . . .	375.3	362.5	12.8
1971. . . . .	760.2	1986. . . . .	727.1	662.7	64.4				
1972. . . . .	760.7	1987. . . . .	724.3	661.0	63.3				
1973. . . . .	761.0	1988. . . . .	688.2	623.2	65.0				
1974. . . . .	760.5								

Z Less than 50,000. <sup>1</sup> Owned by Federal Government. Comprises original public domain plus acquired lands. Estimated from imperfect data available for indicated years. Prior to 1959, excludes Alaska, and 1960, Hawaii. Source: Beginning 1955, U.S. *Property Owned by the United States Throughout the World*, annual.

<sup>2</sup> Treaty of 1819 with Spain. Such areas are included in figures for the North, south of 49th parallel. Authorities differ as to method

and date of its acquisition. Some hold it as part of the Louisiana Purchase; others, as acquired from Great Britain.

Source: Except as noted, U.S. Dept. of the Interior. Estimated area, Bureau of Land Management; all other data, Office of the Secretary, *Areas of Acquisitions to the Territory of the U.S.*, 1922.

## No. 350. Total and Federally Owned Land, 1960 to 1988, and by State, 1988

[As of end of fiscal year; see text, section 9. Total land area figures are not comparable with those in table 347]

REGION, DIVISION AND STATE	Total (1,000 acres)	Not owned by Federal Government (1,000 acres)	OWNED BY FEDERAL GOVERNMENT <sup>1</sup>		REGION, DIVISION AND STATE	Total (1,000 acres)	Not owned by Federal Government (1,000 acres)	OWNED BY FEDERAL GOVERNMENT <sup>1</sup>	
			Acres (1,000)	Per cent				Acres (1,000)	Per cent
1960. . . . .	2,273,407	1,501,894	771,512	33.9	<b>South. . . . .</b>	<b>561,238</b>	<b>532,041</b>	<b>29,197</b>	<b>5.2</b>
1965. . . . .	2,271,343	1,505,546	765,797	33.7	<b>S.A. . . . .</b>	<b>171,325</b>	<b>159,593</b>	<b>11,732</b>	<b>6.8</b>
1970. . . . .	2,271,343	1,510,042	761,301	33.5	DE. . . . .	1,266	1,236	30	2.4
1975. . . . .	2,271,343	1,510,929	760,414	33.5	MD. . . . .	6,319	6,122	197	3.1
1980. . . . .	2,271,343	1,551,822	719,522	31.7	DC. . . . .	39	28	11	28.4
1985. . . . .	2,271,343	1,544,658	726,686	32.0	VA. . . . .	25,496	23,586	1,910	7.5
1986. . . . .	2,271,343	1,544,230	727,113	32.0	WV. . . . .	15,411	14,002	1,409	9.1
1987. . . . .	2,271,343	1,547,277	724,066	31.9	NC. . . . .	31,403	29,164	2,239	7.1
					SC. . . . .	19,374	18,193	1,181	6.1
<b>1988, total. . . . .</b>	<b>2,271,343</b>	<b>1,583,090</b>	<b>688,253</b>	<b>30.3</b>	GA. . . . .	37,295	35,803	1,493	4.0
<b>Northeast. . . . .</b>	<b>104,700</b>	<b>102,279</b>	<b>2,421</b>	<b>2.3</b>	FL. . . . .	34,721	31,460	3,262	9.4
<b>N.E. . . . .</b>	<b>40,401</b>	<b>39,044</b>	<b>1,357</b>	<b>3.4</b>	<b>E.S.C. . . . .</b>	<b>115,141</b>	<b>110,179</b>	<b>4,962</b>	<b>4.3</b>
ME. . . . .	19,848	19,695	153	0.8	KY. . . . .	25,512	24,120	1,392	5.5
NH. . . . .	5,769	5,020	749	13.0	TN. . . . .	26,728	25,372	1,355	5.1
VT. . . . .	5,937	5,583	354	6.0	AL. . . . .	32,678	32,129	550	1.7
MA. . . . .	5,035	4,952	83	1.6	MS. . . . .	30,223	28,558	1,665	5.5
RI. . . . .	677	673	5	0.7	<b>W.S.C. . . . .</b>	<b>274,772</b>	<b>262,269</b>	<b>12,503</b>	<b>4.6</b>
CT. . . . .	3,135	3,121	14	0.4	AR. . . . .	33,599	31,214	2,386	7.1
<b>M.A. . . . .</b>	<b>64,299</b>	<b>63,235</b>	<b>1,064</b>	<b>1.7</b>	LA. . . . .	28,868	22,330	6,538	22.6
NY. . . . .	30,681	30,441	240	0.8	OK. . . . .	44,088	43,212	875	2.0
NJ. . . . .	4,813	4,651	163	3.4	TX. . . . .	168,218	165,513	2,705	1.6
PA. . . . .	28,804	28,143	662	2.3	<b>West . . . . .</b>	<b>1,122,535</b>	<b>483,111</b>	<b>639,424</b>	<b>57.0</b>
<b>Midwest. . . . .</b>	<b>482,870</b>	<b>465,659</b>	<b>17,211</b>	<b>3.6</b>	<b>Mt. . . . .</b>	<b>548,449</b>	<b>294,971</b>	<b>253,477</b>	<b>46.2</b>
<b>E.N.C. . . . .</b>	<b>156,679</b>	<b>149,910</b>	<b>6,769</b>	<b>4.3</b>	MT. . . . .	93,271	65,826	27,445	29.4
OH. . . . .	26,222	25,892	330	1.3	ID. . . . .	52,933	20,839	32,094	60.6
IN. . . . .	23,158	22,689	469	2.0	WY. . . . .	62,343	33,337	29,006	46.5
IL. . . . .	35,795	35,300	495	1.4	CO. . . . .	66,486	46,705	19,781	29.8
MI. . . . .	36,492	32,922	3,570	9.8	NM. . . . .	77,766	52,021	25,746	33.1
WI. . . . .	35,011	33,108	1,904	5.4	AZ. . . . .	72,688	40,328	32,360	44.5
<b>W.N.C. . . . .</b>	<b>326,191</b>	<b>315,749</b>	<b>10,443</b>	<b>3.2</b>	UT. . . . .	52,697	21,061	31,636	60.0
MN. . . . .	51,206	48,801	2,404	4.7	NV. . . . .	70,264	14,855	55,409	78.9
IA. . . . .	35,860	35,701	159	0.4	<b>Pac. . . . .</b>	<b>574,086</b>	<b>188,139</b>	<b>385,947</b>	<b>67.2</b>
MO. . . . .	44,248	42,217	2,032	4.6	WA. . . . .	42,694	30,039	12,654	29.6
ND. . . . .	44,452	42,494	1,958	4.4	OR. . . . .	61,599	29,388	32,211	52.3
SD. . . . .	48,882	46,206	2,676	5.5	CA. . . . .	100,207	55,647	44,560	44.5
NE. . . . .	49,032	48,508	524	1.1	AK. . . . .	365,482	69,245	296,237	81.1
KS. . . . .	52,511	51,821	689	1.3	HI. . . . .	4,106	3,821	285	6.9

<sup>1</sup> Excludes trust properties.

Source: U.S. General Services Administration, *Inventory Report on Real Property Owned by the United States Throughout the World*, annual.

## No. 351. Land Cover/Use, by State: 1987

[In thousands of acres. Excludes Alaska and District of Columbia]

STATE	Total surface area <sup>1</sup>	Federal land	NONFEDERAL LAND							
			Total	Developed <sup>1</sup>	Rural					
					Total	Crop-land	Pasture-land	Range-land	Forest land	Minor cover/use
<b>United States . . . . .</b>	<b>1,937,726</b>	<b>404,069</b>	<b>1,484,156</b>	<b>77,305</b>	<b>1,406,851</b>	<b>422,416</b>	<b>129,021</b>	<b>401,685</b>	<b>393,904</b>	<b>59,826</b>
<b>Northeast . . . . .</b>	<b>108,080</b>	<b>2,392</b>	<b>100,778</b>	<b>9,611</b>	<b>91,166</b>	<b>14,532</b>	<b>7,569</b>	-	<b>64,246</b>	<b>4,720</b>
<b>New England . . . . .</b>	<b>42,670</b>	<b>1,332</b>	<b>38,609</b>	<b>3,005</b>	<b>35,604</b>	<b>2,311</b>	<b>1,248</b>	-	<b>30,307</b>	<b>1,739</b>
Maine . . . . .	21,290	161	19,517	508	19,009	943	419	-	16,933	714
New Hampshire . . . . .	5,938	729	4,971	372	4,599	163	115	-	4,052	269
Vermont . . . . .	6,153	335	5,556	208	5,348	653	388	-	4,184	122
Massachusetts . . . . .	5,302	89	4,849	1,063	3,786	291	179	-	2,937	379
Rhode Island . . . . .	776	4	661	161	500	22	37	-	404	37
Connecticut . . . . .	3,212	14	3,056	693	2,362	239	110	-	1,797	218
<b>Middle Atlantic . . . . .</b>	<b>65,410</b>	<b>1,060</b>	<b>62,168</b>	<b>6,606</b>	<b>55,562</b>	<b>12,221</b>	<b>6,422</b>	-	<b>33,939</b>	<b>2,981</b>
New York . . . . .	31,429	234	29,782	2,485	27,297	5,774	3,686	-	16,650	1,187
New Jersey . . . . .	4,984	148	4,563	1,325	3,239	673	229	-	1,890	447
Pennsylvania . . . . .	28,997	677	27,823	2,796	25,027	5,774	2,507	-	15,398	1,348
<b>Midwest . . . . .</b>	<b>490,474</b>	<b>17,883</b>	<b>460,128</b>	<b>23,789</b>	<b>436,339</b>	<b>233,455</b>	<b>40,718</b>	<b>71,859</b>	<b>71,837</b>	<b>18,670</b>
<b>East North Central . . . . .</b>	<b>159,066</b>	<b>6,289</b>	<b>148,602</b>	<b>12,368</b>	<b>136,233</b>	<b>72,743</b>	<b>12,982</b>	-	<b>42,482</b>	<b>8,027</b>
Ohio . . . . .	26,451	347	25,686	2,925	22,762	12,537	2,444	-	6,426	1,354
Indiana . . . . .	23,159	487	22,302	1,780	20,522	13,930	2,073	-	3,698	821
Illinois . . . . .	36,061	492	34,792	2,792	32,000	25,121	2,689	-	3,447	744
Michigan . . . . .	37,457	3,130	33,051	2,921	30,130	9,484	2,735	-	15,483	2,429
Wisconsin . . . . .	35,938	1,813	32,770	1,951	30,820	11,671	3,041	-	13,428	2,680
<b>West North Central . . . . .</b>	<b>331,408</b>	<b>11,615</b>	<b>311,527</b>	<b>11,421</b>	<b>300,105</b>	<b>160,713</b>	<b>27,736</b>	<b>71,859</b>	<b>29,155</b>	<b>10,643</b>
Minnesota . . . . .	54,017	3,390	47,077	2,136	44,941	22,990	3,425	157	13,952	4,417
Iowa . . . . .	36,016	172	35,387	1,688	33,699	27,031	3,866	-	1,841	961
Missouri . . . . .	44,606	2,060	41,655	2,165	39,491	15,090	12,606	56	10,959	781
North Dakota . . . . .	45,250	1,882	42,255	1,242	41,013	28,064	1,206	9,933	428	1,382
South Dakota . . . . .	49,354	2,873	45,467	1,064	44,403	17,819	2,354	22,152	565	1,513
Nebraska . . . . .	49,507	652	48,218	1,250	46,967	20,601	1,957	22,900	728	782
Kansas . . . . .	52,658	587	51,467	1,876	49,592	29,119	2,324	16,660	681	808
<b>South . . . . .</b>	<b>575,044</b>	<b>26,391</b>	<b>527,041</b>	<b>30,657</b>	<b>496,384</b>	<b>107,532</b>	<b>67,937</b>	<b>113,837</b>	<b>189,507</b>	<b>17,571</b>
<b>South Atlantic . . . . .</b>	<b>178,469</b>	<b>12,757</b>	<b>156,196</b>	<b>13,346</b>	<b>142,849</b>	<b>26,495</b>	<b>16,165</b>	<b>3,592</b>	<b>88,408</b>	<b>8,190</b>
Delaware . . . . .	1,309	33	1,213	165	1,048	521	30	-	357	141
Maryland . . . . .	6,695	159	6,048	936	5,111	1,795	514	-	2,415	388
Virginia . . . . .	26,091	2,368	22,812	1,663	21,150	3,309	3,315	-	13,622	904
West Virginia . . . . .	15,508	1,116	14,227	532	13,695	1,053	1,892	-	10,466	284
North Carolina . . . . .	33,708	2,309	28,622	2,487	26,135	6,548	1,992	-	16,528	1,067
South Carolina . . . . .	19,912	1,340	17,785	1,422	16,363	3,371	1,177	-	11,073	742
Georgia . . . . .	37,702	2,062	34,664	2,375	32,289	6,307	3,040	-	21,880	1,083
Florida . . . . .	37,545	3,369	30,825	3,766	27,059	3,592	4,205	3,592	12,088	3,583
<b>East South Central . . . . .</b>	<b>116,446</b>	<b>5,116</b>	<b>108,068</b>	<b>5,705</b>	<b>102,363</b>	<b>22,870</b>	<b>18,493</b>	<b>96</b>	<b>58,115</b>	<b>2,769</b>
Kentucky . . . . .	25,862	1,169	24,023	1,224	22,799	5,818	5,955	-	10,554	972
Tennessee . . . . .	26,972	1,369	24,759	1,669	23,090	5,765	5,019	-	11,601	706
Alabama . . . . .	33,091	904	31,230	1,640	29,591	4,210	3,595	96	21,017	673
Mississippi . . . . .	30,521	1,674	28,056	1,172	26,884	7,078	3,924	-	15,443	439
<b>West South Central . . . . .</b>	<b>280,129</b>	<b>8,518</b>	<b>262,778</b>	<b>11,606</b>	<b>251,172</b>	<b>58,167</b>	<b>33,279</b>	<b>110,149</b>	<b>42,984</b>	<b>6,593</b>
Arkansas . . . . .	34,040	3,129	29,904	1,232	28,672	8,182	5,678	164	14,268	380
Louisiana . . . . .	30,561	1,174	26,472	1,455	25,016	6,484	2,276	234	12,736	3,286
Oklahoma . . . . .	44,772	1,176	42,431	1,716	40,715	11,557	7,790	14,546	6,505	517
Texas . . . . .	170,756	3,040	163,971	7,203	156,768	31,944	17,735	95,204	9,476	2,410
<b>West . . . . .</b>	<b>764,128</b>	<b>357,403</b>	<b>396,209</b>	<b>13,247</b>	<b>382,962</b>	<b>66,896</b>	<b>12,697</b>	<b>215,989</b>	<b>68,514</b>	<b>18,865</b>
<b>Mountain . . . . .</b>	<b>552,680</b>	<b>266,171</b>	<b>280,033</b>	<b>5,964</b>	<b>274,069</b>	<b>44,235</b>	<b>7,828</b>	<b>182,653</b>	<b>27,532</b>	<b>11,822</b>
Montana . . . . .	94,109	27,074	65,682	999	64,682	17,681	3,169	36,769	5,253	1,611
Idaho . . . . .	53,481	33,190	19,628	477	19,152	6,532	1,354	6,596	4,071	600
Wyoming . . . . .	62,598	29,457	32,576	501	32,075	2,362	928	26,784	984	1,017
Colorado . . . . .	66,818	23,833	42,320	1,375	40,945	10,967	1,266	23,427	4,079	1,207
New Mexico . . . . .	77,819	26,423	51,144	698	50,445	2,297	186	40,782	4,685	2,496
Arizona . . . . .	72,960	30,647	41,994	1,116	40,878	1,306	81	31,867	4,912	2,712
Utah . . . . .	54,336	35,476	16,440	465	15,975	2,002	563	8,507	3,194	1,711
Nevada . . . . .	70,759	60,071	10,250	333	9,916	889	282	7,921	356	469
<b>Pacific . . . . .</b>	<b>211,448</b>	<b>91,232</b>	<b>116,176</b>	<b>7,283</b>	<b>108,893</b>	<b>22,662</b>	<b>4,869</b>	<b>33,337</b>	<b>40,982</b>	<b>7,043</b>
Washington . . . . .	43,608	12,471	29,947	1,564	28,383	7,758	1,421	5,574	12,634	997
Oregon . . . . .	62,127	32,305	29,618	941	27,977	4,348	1,916	9,152	11,857	705
California . . . . .	101,572	46,014	53,654	4,621	49,033	10,209	1,501	17,719	15,073	4,531
Hawaii . . . . .	4,141	443	3,657	157	3,500	348	31	891	1,419	811

- Represents zero. <sup>1</sup> Includes urban and built-up areas in units of 10 acres or greater, and rural transportation.

Source: U.S. Dept. of Agriculture, Soil Conservation Service, and Iowa State University, Statistical Laboratory; Statistical Bulletin No. 790, Summary Report, 1987 National Resources Inventory, December 1989.



## No. 352. Extreme and Mean Elevations States and Other Areas

(One foot = .305 meter)

STATE OR OTHER AREA	HIGHEST POINT			LOWEST POINT			APPROXIMATE MEAN ELEVATION	
	Name	Elevation		Name	Elevation		Feet	Meters
		Feet	Meters		Feet	Meters		
U.S. ....	Mt. McKinley (AK) .....	20,320	6,198	Death Valley (CA) .....	-282	-86	2,500	763
AL .....	Cheaha Mountain .....	2,405	733	Gulf of Mexico .....	( <sup>1</sup> )	( <sup>1</sup> )	500	153
AK .....	Mount McKinley .....	20,320	6,198	Pacific Ocean .....	( <sup>1</sup> )	( <sup>1</sup> )	1,900	580
AZ .....	Humphreys Peak .....	12,633	3,853	Colorado River .....	70	21	4,100	1,251
AR .....	Magazine Mountain .....	2,753	840	Ouachita River .....	55	17	650	198
CA .....	Mount Whitney .....	14,491	4,420	Death Valley .....	-282	-86	2,900	885
CO .....	Mt. Elbert .....	14,433	4,402	Arkansas River .....	3,350	1,022	6,800	2,074
CT .....	Mt. Frissell on South slope .....	2,380	726	Long Island Sound .....	( <sup>1</sup> )	( <sup>1</sup> )	500	153
DE .....	Ebright Road .....							
	New Castle County .....	442	135	Atlantic Ocean .....	( <sup>1</sup> )	( <sup>1</sup> )	60	18
DC .....	Tenleytown .....	410	125	Potomac River .....	1	( <sup>2</sup> )	150	46
FL .....	Sec. 30, T6N, R20W, Walton County .....							
		345	105	Atlantic Ocean .....	( <sup>1</sup> )	( <sup>1</sup> )	100	31
GA .....	Brasstown Bald .....	4,784	1,459	Atlantic Ocean .....	( <sup>1</sup> )	( <sup>1</sup> )	600	183
HI .....	Puu Wekiu .....	13,796	4,208	Pacific Ocean .....	( <sup>1</sup> )	( <sup>1</sup> )	3,030	924
ID .....	Borah Peak .....	12,662	3,862	Snake River .....	710	217	5,000	1,525
IL .....	Charles Mound .....	1,235	377	Mississippi River .....	279	85	600	183
IN .....	Franklin Twp., Wayne Co. .....	1,257	383	Ohio River .....	320	98	700	214
IA .....	Sec. 29, T100N, R41W, Osceola County .....							
		1,670	509	Mississippi River .....	480	146	1,100	336
KS .....	Mount Sunflower .....	4,039	1,232	Verdigris River .....	679	207	2,000	610
KY .....	Black Mountain .....	4,139	2,162	Mississippi River .....	257	78	750	229
LA .....	Driskill Mountain .....	535	163	New Orleans .....	-8	-2	100	31
ME .....	Mount Katahdin .....	5,267	1,606	Atlantic Ocean .....	( <sup>1</sup> )	( <sup>1</sup> )	600	183
MD .....	Backbone Mountain .....	3,360	1,025	Atlantic Ocean .....	( <sup>1</sup> )	( <sup>1</sup> )	350	107
MA .....	Mount Greylock .....	3,487	1,064	Atlantic Ocean .....	( <sup>1</sup> )	( <sup>1</sup> )	500	153
MI .....	Mount Arvon .....	1,979	604	Lake Erie .....	572	174	900	275
MN .....	Eagle Mountain, Cook Co. .....	2,301	702	Lake Superior .....	602	184	1,200	366
MS .....	Woodall Mountain .....	806	246	Gulf of Mexico .....	( <sup>1</sup> )	( <sup>1</sup> )	300	92
MO .....	Taum Sauk Mountain .....	1,772	540	St. Francis River .....	230	70	800	244
MT .....	Granite Peak .....	12,799	3,904	Kootenai River .....	1,800	549	3,400	1,037
NE .....	Johnson Twp., Kimball Co. .....	5,426	1,655	Missouri River .....	840	256	2,600	793
NV .....	Boundary Peak .....	13,140	4,007	Colorado River .....	479	146	5,500	1,678
NH .....	Mount Washington .....	6,288	1,918	Atlantic Ocean .....	( <sup>1</sup> )	( <sup>1</sup> )	1,000	305
NJ .....	High Point .....	1,803	550	Atlantic Ocean .....	( <sup>1</sup> )	( <sup>1</sup> )	250	76
NM .....	Wheeler Peak .....	13,161	4,014	Red Bluff Reservoir .....	2,842	867	5,700	1,739
NY .....	Mount Marcy .....	5,344	1,630	Atlantic Ocean .....	( <sup>1</sup> )	( <sup>1</sup> )	1,000	305
NC .....	Mount Mitchell .....	6,684	2,039	Atlantic Ocean .....	( <sup>1</sup> )	( <sup>1</sup> )	700	214
ND .....	White Butte, Slope Co. .....	3,506	1,069	Red River .....	750	229	1,900	580
OH .....	Campbell Hill .....	1,549	472	Ohio River .....	455	139	850	259
OK .....	Black Mesa .....	4,973	1,517	Little River .....	289	88	1,300	397
OR .....	Mount Hood .....	11,239	3,428	Pacific Ocean .....	( <sup>1</sup> )	( <sup>1</sup> )	3,300	1,007
PA .....	Mount Davis .....	3,213	980	Delaware River .....	( <sup>1</sup> )	( <sup>1</sup> )	1,100	336
RI .....	Jerimoth Hill .....	812	248	Atlantic Ocean .....	( <sup>1</sup> )	( <sup>1</sup> )	200	61
SC .....	Sassafras Mountain .....	3,560	1,086	Atlantic Ocean .....	( <sup>1</sup> )	( <sup>1</sup> )	350	107
SD .....	Harney Peak .....	7,242	2,209	Big Stone Lake .....	966	295	2,200	671
TN .....	Clingmans Dome .....	6,643	2,026	Mississippi River .....	178	54	900	275
TX .....	Guadalupe Peak .....	8,749	2,668	Gulf of Mexico .....	( <sup>1</sup> )	( <sup>1</sup> )	1,700	519
UT .....	Kings Peak .....	13,528	4,126	Beaverdam Wash .....	2,000	610	6,100	1,861
VT .....	Mount Mansfield .....	4,393	1,340	Lake Champlain .....	95	29	1,000	305
VA .....	Mount Rogers .....	5,729	1,747	Atlantic Ocean .....	( <sup>1</sup> )	( <sup>1</sup> )	950	290
WA .....	Mount Rainier .....	14,410	4,395	Pacific Ocean .....	( <sup>1</sup> )	( <sup>1</sup> )	1,700	519
WV .....	Spruce Knob .....	4,861	1,483	Potomac River .....	240	73	1,500	458
WI .....	Timms Hill .....	1,951	595	Lake Michigan .....	581	177	1,050	320
WY .....	Gannett Peak .....	13,804	4,210	Belle Fourche River .....	3,099	945	6,700	2,044
Other areas:								
Puerto Rico .....	Cerro de Punta .....	4,390	1,339	Atlantic Ocean .....	( <sup>1</sup> )	( <sup>1</sup> )	1,800	549
American Samoa .....	Lata Mountain .....	3,160	964	Pacific Ocean .....	( <sup>1</sup> )	( <sup>1</sup> )	1,300	397
Guam .....	Mount Lamlam .....	1,332	406	Pacific Ocean .....	( <sup>1</sup> )	( <sup>1</sup> )	330	101
Virgin Is. ....	Crown Mountain .....	1,556	475	Atlantic Ocean .....	( <sup>1</sup> )	( <sup>1</sup> )	750	229

<sup>1</sup> Less than .5 meter. <sup>2</sup> Sea level. <sup>3</sup> "Sec." denotes section; "T," township; "R," range; "N," north; "W," west.

Source: U.S. Geological Survey, *Elevations and Distances in the United States*, 1989.

No. 353. Flows of Largest U.S. Rivers—Length, Discharge, and Drainage Area

RIVER	Location of mouth	Source stream (name and location)	Length (miles) <sup>1</sup>	Average discharge at mouth (1,000 cubic ft. per second)	Drainage area (1,000 sq. mi.)
Mississippi	Louisiana	Mississippi River, MN.	2,340	3593	4 <sup>5</sup> 1,150
St. Lawrence	Canada	North River, MN.	1,900	348	386
Ohio	Illinois-Kentucky	Allegheny River, PA.	1,310	281	203
Columbia	Oregon-Washington	Columbia River, Canada	1,240	265	250
Yukon	Alaska	McNeil River, Canada	1,980	225	328
Missouri	Missouri	Red Rock Creek, MT.	2,540	76.2	529
Tennessee	Kentucky	Courthouse Creek, NC.	886	68	40.9
Mobile	Alabama	Tickenetley Creek, GA.	774	67.2	44.6
Kuskokwim	Alaska	South Fork Kuskokwim River, AK.	724	67	48
Copper	Alaska	Copper River, AK.	286	59	24.4
Atchafalaya <sup>6</sup>	Louisiana	Tierra Blanca Creek, NM.	1,420	58	95.1
SNAKE	Washington	SNAKE River, WY.	1,040	56.9	108
Red	Louisiana	Tierra Blanca Creek, NM.	1,290	56	93.2
Stikine	Alaska	Stikine River, Canada.	379	56	320
Susitna	Alaska	Susitna River, AK.	313	51	20
Tanana	Alaska	Nabesna River, AK.	659	41	44.5
Arkansas	Arkansas	East Fork Arkansas River, CO.	1,460	41	161
Susquehanna	Maryland	Hayden Creek, NY.	447	38.2	27.2
Willamette	Oregon	Middle Fork Willamette River, OR.	309	37.4	11.4
Nushagak	Alaska	Nushagak River, AK.	285	36	13.4
Alabama	Alabama	Tickenetley Creek, GA.	729	34.6	22.8
Wabash	Indiana-Illinois	Wabash River, OH.	512	31	32.9
White	Arkansas	White River, AR.	722	30.5	27.8
Pend Oreille	Canada	Blacktail Creek, MT.	531	30.4	26.3
Aisek	Alaska	Aishihik River, Canada	290	30	10.7

<sup>1</sup> From source to mouth. <sup>2</sup> The length from the source of the Missouri River to the Mississippi River and thence to the Gulf of Mexico is about 3,710 miles. <sup>3</sup> Includes about 167,000 cubic ft. diverted from the Mississippi into the Atchafalaya River but excludes the flow of the Red River. <sup>4</sup> Excludes the drainage areas of the Red and Atchafalaya Rivers. <sup>5</sup> Drainage area includes both the U.S. and Canada. <sup>6</sup> In east-central Louisiana, the Red River flows into the Atchafalaya River, a distributary of the Mississippi River. Data on average discharge, length, and drainage area include the Red River, but exclude all water diverted into the Atchafalaya from the Mississippi River.

Source: U.S. Geological Survey, *Largest Rivers in the United States*, Open File Report 87-242, August 1987.

## No. 354. Water Area, Other Than Inland Water—States

[Includes only that portion of body of water under the jurisdiction of the United States, excluding Alaska and Hawaii. Excludes inland waters; see footnote 2, table 1. One square mile = 2.59 square kilometers]

BODY OF WATER	AREA		BODY OF WATER	AREA	
	Sq. mi.	Sq. km.		Sq. mi.	Sq. km.
<b>Total</b>	<b>74,364</b>	<b>192,603</b>	Gulf of Mexico coastal water	3,837	9,938
Atlantic coastal water	2,298	5,952	Alabama	560	1,450
Florida	37	96	Florida	1,698	4,398
Georgia	48	124	Louisiana	1,016	2,631
Maine	1,102	2,854	Mississippi	556	1,440
Massachusetts	959	2,484	Texas	7	18
Rhode Island	14	36	Lake Michigan	22,178	57,441
South Carolina	138	357	Illinois	1,526	3,952
Chesapeake Bay	3,237	8,384	Indiana	228	591
Maryland	1,726	4,470	Michigan	13,037	33,766
Virginia	1,511	3,913	Wisconsin	7,387	19,132
Delaware Bay	665	1,722	New York Harbor	92	238
Delaware	350	907	New Jersey	69	179
New Jersey	315	816	New York	23	60
Lake Erie	5,002	12,955	Lake Ontario: New York	3,033	78
Michigan	216	559	Pacific coastal water	343	888
New York	594	1,538	California	69	179
Ohio	3,457	8,954	Oregon	48	124
Pennsylvania	735	1,904	Washington	226	585
Straits of Georgia and Juan de Fuca:			Puget Sound: Washington	561	1,453
Washington	1,610	4,170	Lake St. Clair: Michigan	116	300
Lake Huron: Michigan	8,975	23,245	Lake Superior	21,118	54,696
Long Island Sound	1,298	3,364	Michigan	16,231	42,038
Connecticut	573	1,484	Minnesota	2,212	5,729
New York	726	1,880	Wisconsin	2,675	6,928

Source: U.S. Bureau of the Census, *Areas of the United States: 1940*.

## No. 355. Water Withdrawals and Consumptive Use—States and Other Areas: 1985

In millions of gallons per day, except as noted. Figures may not add due to rounding. Withdrawal signifies water physically withdrawn from a source. Includes fresh and saline water]

STATE OR OTHER AREA	WATER WITHDRAWN								Con- sumptive use, <sup>5</sup> fresh water
	Total <sup>1</sup>	Per capita (gal. per day) fresh	Source		Selected major uses <sup>2</sup>				
			Ground water	Surface water	Irriga- tion	Public supply <sup>3</sup>	Indus- trial <sup>4</sup>	Thermo- electric	
United States . . . . .	399,000	1,400	74,000	325,000	137,000	39,900	29,300	187,000	92,300
Alabama . . . . .	8,600	2,140	347	8,250	69	654	851	6,920	541
Alaska . . . . .	406	727	72	334	-	86	133	30	27
Arizona . . . . .	6,430	1,960	3,100	3,330	5,520	645	133	58	3,700
Arkansas . . . . .	5,910	2,500	3,810	2,100	3,870	317	175	1,090	3,210
California . . . . .	49,700	1,420	15,100	34,600	30,600	5,450	1,159	12,180	21,100
Colorado . . . . .	13,600	4,190	2,340	11,200	12,400	754	211	110	4,850
Connecticut . . . . .	3,780	375	144	3,640	3	401	147	3,210	106
Delaware . . . . .	1,650	222	79	1,580	27	87	410	1,121	39
District of Columbia . . . . .	348	556	-	348	-	218	-	130	24
Florida . . . . .	17,000	554	4,050	12,930	2,910	1,939	679	11,351	2,730
Georgia . . . . .	5,450	899	1,000	4,440	453	935	656	3,326	838
Hawaii . . . . .	2,150	1,100	655	1,490	906	215	20	970	132
Idaho . . . . .	22,300	22,200	4,800	17,500	20,600	301	334	-	5,290
Illinois . . . . .	14,500	1,250	968	13,500	71	1,910	639	11,700	686
Indiana . . . . .	8,030	1,470	635	7,400	47	714	2,751	4,480	454
Iowa . . . . .	2,770	960	671	2,090	67	415	260	1,810	473
Kansas . . . . .	5,670	2,310	4,800	866	4,730	358	95	415	4,710
Kentucky . . . . .	4,200	1,130	205	3,990	8	451	266	3,410	260
Louisiana . . . . .	10,400	2,210	1,440	8,980	1,480	675	2,100	5,964	2,090
Maine . . . . .	1,520	733	66	1,460	2	127	250	1,074	203
Maryland . . . . .	6,710	321	219	6,490	34	834	371	5,429	423
Massachusetts . . . . .	9,660	1,070	315	9,340	16	802	153	8,450	316
Michigan . . . . .	11,400	1,270	600	10,800	210	1,373	1,385	8,390	611
Minnesota . . . . .	2,830	676	685	2,150	209	604	457	1,470	768
Mississippi . . . . .	2,510	885	1,580	933	886	328	236	670	661
Missouri . . . . .	6,110	1,210	640	5,470	306	699	116	4,930	504
Montana . . . . .	8,650	10,500	203	8,450	8,300	174	60	67	1,900
Nebraska . . . . .	10,000	6,250	5,590	4,450	7,270	272	167	2,210	4,910
Nevada . . . . .	3,740	3,860	908	2,830	3,350	300	35	23	1,890
New Hampshire . . . . .	894	688	84	810	1	111	239	543	76
New Jersey . . . . .	6,940	307	668	6,270	132	1,114	1,137	4,546	279
New Mexico . . . . .	3,280	2,320	1,510	1,780	2,820	264	83	59	1,530
New York . . . . .	15,200	508	1,100	14,100	38	3,051	1,080	10,870	1,400
North Carolina . . . . .	6,760	1,260	435	8,320	132	764	539	7,266	439
North Dakota . . . . .	1,160	1,690	127	1,040	154	84	13	892	201
Ohio . . . . .	12,700	1,180	730	12,000	17	1,559	540	10,500	396
Oklahoma . . . . .	1,270	386	568	707	445	547	113	134	576
Oregon . . . . .	6,540	2,450	660	5,880	5,710	496	301	12	2,600
Pennsylvania . . . . .	14,300	1,210	799	13,500	11	1,784	2,208	10,200	589
Rhode Island . . . . .	409	152	27	381	3	122	20	261	23
South Carolina . . . . .	6,820	2,040	214	6,610	34	421	1,130	5,186	340
South Dakota . . . . .	675	956	249	425	460	96	46	4	361
Tennessee . . . . .	8,450	1,770	444	8,010	9	697	1,613	6,060	275
Texas . . . . .	25,300	1,230	7,410	17,900	8,120	3,095	2,763	11,010	8,650
Utah . . . . .	4,320	2,540	815	3,500	3,590	453	213	28	2,130
Vermont . . . . .	126	235	37	89	1	65	55	1	26
Virginia . . . . .	7,250	853	341	6,910	52	691	673	5,760	269
Washington . . . . .	7,030	1,600	1,220	5,810	4,940	1,053	559	427	4,700
West Virginia . . . . .	5,440	2,810	227	5,210	4	172	1,028	4,210	877
Wisconsin . . . . .	6,740	1,400	570	6,170	84	659	461	5,440	321
Wyoming . . . . .	6,220	12,200	526	5,700	5,660	111	184	236	2,670
Puerto Rico . . . . .	2,600	176	175	2,430	157	409	18	2,005	163
Virgin Islands . . . . .	124	68	2	123	-	6	14	103	1

- Represents zero. <sup>1</sup> Includes self-supplied withdrawals for commercial use not shown separately under "use." <sup>2</sup> Small amounts of use for commercial (1.2 mil. gallons) and livestock (4.4 mil. gallons) purposes are not shown separately. <sup>3</sup> Includes domestic withdrawals for normal household purposes. <sup>4</sup> Includes water used in mining. <sup>5</sup> Water that has been evaporated, transpired, or incorporated into products, plant or animal tissue; and therefore, is not available for immediate reuse.

Source: U.S. Geological Survey, *Estimated Use of Water in the United States in 1985*, circular 1004.

### No. 356. U.S. Water Withdrawals and Consumptive Use Per Day by End Use: 1940 to 1985

[Includes Puerto Rico. Withdrawal signifies water physically withdrawn from a source. Includes fresh and saline water; excludes water used for hydroelectric power. See also *Historical Statistics, Colonial Times to 1970*, series J 92-103]

YEAR	Total (bil. gal.)	Per capita <sup>1</sup> (gal.)	Irrigation (bil. gal.)	PUBLIC SUPPLY <sup>2</sup>		Rural <sup>4</sup> (bil. gal.)	Industrial and misc. <sup>5</sup> (bil. gal.)	Steam electric utilities (bil. gal.)
				Total (bil. gal.)	Per capita <sup>3</sup> (gal.)			
WITHDRAWALS								
1940 . . . . .	140	1,027	71	10	75	3.1	29	23
1950 . . . . .	180	1,185	89	14	145	3.6	37	40
1955 . . . . .	240	1,454	110	17	148	3.6	39	72
1960 . . . . .	270	1,500	110	21	151	3.6	38	100
1965 . . . . .	310	1,602	120	24	155	4.0	46	130
1970 . . . . .	370	1,815	130	27	166	4.5	47	170
1975 . . . . .	420	1,972	140	29	168	4.9	45	200
1980 . . . . .	450	1,953	150	34	183	5.6	45	210
1985 . . . . .	400	1,650	140	38	189	7.8	30	190
CONSUMPTIVE USE								
1960 . . . . .	61	339	52	3.5	25	2.8	3.0	0.2
1965 . . . . .	77	403	66	5.2	34	3.2	3.4	0.4
1970 . . . . .	87	427	73	5.9	36	3.4	4.1	0.8
1975 . . . . .	96	451	80	6.7	38	3.4	4.2	1.9
1980 . . . . .	100	440	83	7.1	38	3.9	5.0	3.2
1985 . . . . .	92	380	74	( <sup>6</sup> )	( <sup>6</sup> )	9.2	6.1	6.2

<sup>1</sup> Based on Bureau of the Census resident population as of July 1. <sup>2</sup> Includes commercial water withdrawals. <sup>3</sup> Based on population served. <sup>4</sup> Rural farm and nonfarm household and garden use, and water for farm stock and dairies. <sup>5</sup> For 1940-1960, includes manufacturing and mineral industries, rural commercial industries, air-conditioning, resorts, hotels, motels, military and other State and Federal agencies, and miscellaneous; thereafter, includes manufacturing, mining and mineral processing, ordnance, construction, and miscellaneous. <sup>6</sup> Public supply consumptive use included in end-use categories. <sup>7</sup> Includes public supply consumptive use for domestic and commercial purposes.

Source: 1940-1960, U.S. Bureau of Domestic Business Development, based principally on committee prints, *Water Resources Activities in the United States*, for the Senate Committee on National Water Resources, U.S. Senate, thereafter, U.S. Geological Survey, *Estimated Use of Water in the United States in 1985*, circular 1004, and previous quinquennial issues.

### No. 357. National Ambient Water Quality in Rivers and Streams—Violation Rate: 1980 to 1989

[In percent. Violation level based on U.S. Environmental Protection Agency water quality criteria. Violation rate represents the proportion of all measurements of a specific water quality pollutant which exceeds the "violation level" for that pollutant. "Violation" does not necessarily imply a legal violation. Data based on U.S. Geological Survey's National Stream Quality Accounting Network (NASQAN) data system; for details, see source. Years refer to water years. A water year begins in Oct. and ends in Sept.  $\mu$ g = micrograms; mg = milligrams. For metric conversion, see p. ix]

POLLUTANT	VIOLATION LEVEL	1980	1982	1983	1984	1985	1986	1987	1988	1989
Fecal coliform bacteria . . .	Above 200 cells per 100 ml . . .	31	33	34	30	28	24	23	22	20
Dissolved oxygen . . . . .	Below 5 mg per liter . . . . .	5	5	4	3	3	3	2	2	3
Phosphorus, total, as phosphorous . . . . .	Above 1.0 mg per liter . . . . .	4	3	3	4	3	3	3	4	3
Lead, dissolved . . . . .	Above 50 $\mu$ g per liter . . . . .	5	2	5	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
Cadmium, dissolved . . . . .	Above 10 $\mu$ g per liter . . . . .	1	1	1	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)

Z Less than 1.

Source: U.S. Geological Survey, national-level data, unpublished; State-level data, *Water-Data Report*, annual series prepared in cooperation with the State governments.

### No. 358. Oil Polluting Incidents Reported in and Around U.S. Waters: 1973 to 1989

YEAR	Incidents	Gallons	YEAR	Incidents	Gallons
1973 . . . . .	11,054	15,289,188	1984 . . . . .	10,089	16,254,974
1974 . . . . .	12,083	15,739,792	1985 . . . . .	7,747	18,675,138
1975 . . . . .	10,998	21,528,444	1986 . . . . .	6,543	4,668,441
1976 . . . . .	11,066	18,517,384	1987 . . . . .	6,185	4,332,322
1977 . . . . .	10,979	8,188,398	1988 . . . . .	6,788	6,640,851
1978 . . . . .	12,174	11,035,890	1989, prel. . . . .	7,859	14,180,497
1979 . . . . .	11,556	10,051,271			
1980 . . . . .	9,886	12,638,848	Tankships . . . . .	265	10,956,497
1981 . . . . .	9,589	8,919,789	Tank barges . . . . .	639	2,206,970
1982 . . . . .	9,416	10,404,646	Other vessels . . . . .	2,984	420,070
1983 . . . . .	10,530	8,378,719	Non-vessels . . . . .	3,971	596,960

Source: U.S. Coast Guard. Based on unpublished data from the *Marine Safety Information System*, December 30, 1989.

**No. 359. National Ambient Air Pollutant Concentrations: 1980 to 1988**

[Data represent annual composite averages of pollutant based on daily 24-hour averages of monitoring stations, except carbon monoxide is based on the second-highest, non-overlapping, 8-hour average; ozone, average of the second-highest daily maximum one hour value; and lead, quarterly average of ambient lead levels. Based on data from the National Aerometric Data Bank.  $\mu\text{g}/\text{m}^3$ =micrograms of pollutant per cubic meter of air; ppm=parts per million]

POLLUTANT	Unit	Monitoring stations, number	Air quality standard	1980	1981	1982	1983	1984	1985	1986	1987	1988
<b>CONCENTRATIONS</b>												
Carbon monoxide	ppm	248	<sup>2</sup> 9	8.52	8.25	7.86	7.77	7.72	7.03	7.00	6.64	6.56
Ozone	ppm	388	<sup>3</sup> 12	0.136	0.127	0.125	0.137	0.124	0.123	0.118	0.125	0.136
Sulfur dioxide	ppm	374	.03	0.011	0.010	0.010	0.009	0.009	0.009	0.009	0.008	0.008
Total suspended particulates	$\mu\text{g}/\text{m}^3$	1,750	75	64.2	60.3	50.1	49.7	51.2	48.8	48.6	49.7	50.5
Nitrogen dioxide	ppm	116	.053	0.025	0.025	0.024	0.024	0.024	0.024	0.024	0.024	0.024
Lead	$\mu\text{g}/\text{m}^3$	139	<sup>4</sup> 1.5	0.61	0.48	0.49	0.39	0.35	0.23	0.13	0.10	0.08
<b>INDEX</b>												
Carbon monoxide	1979=100	248	<sup>2</sup> 9	93.9	91.0	86.7	85.7	85.1	77.5	77.2	73.2	72.3
Ozone	1979=100	388	<sup>3</sup> 12	101.5	94.8	93.3	102.2	92.5	91.8	88.1	93.3	101.5
Sulfur dioxide	1979=100	374	.03	90.8	86.7	80.0	76.7	78.3	73.3	70.8	69.2	70.0
Total suspended particulates	1979=100	1,750	75	101.7	95.6	79.4	78.8	81.1	77.3	77.0	78.8	80.0
Nitrogen dioxide	1979=100	116	.053	97.3	95.0	92.2	91.5	92.6	91.5	92.6	92.2	92.6
Lead	1979=100	139	<sup>4</sup> 1.5	79.2	62.3	63.6	50.6	45.5	29.9	16.9	13.0	10.4

<sup>1</sup> Refers to the primary National Ambient Air Quality Standard that protects the public health. <sup>2</sup> Based on 8-hour standard of 9 ppm. <sup>3</sup> Based on 1-hour standard of 12 ppm. <sup>4</sup> Based on 3-month standard of 1.5  $\mu\text{g}/\text{m}^3$ .

Source: U.S. Environmental Protection Agency, *National Air Quality and Emissions Trends Report, 1988*, February 1990.

**No. 360. National Air Pollutant Emissions: 1940 to 1988**

[In millions of metric tons, except lead in thousands of metric tons. Metric ton=1.1023 short tons. PM=Particulate matter,  $\text{SO}_x$ =Sulfur oxides,  $\text{NO}_x$ =Nitrogen oxides, VOC=volatile organic compound, CO=Carbon monoxide, Pb=Lead. NA Not available]

YEAR	EMISSIONS						PERCENT CHANGE FROM PRIOR YEAR					
	PM	$\text{SO}_x$	$\text{NO}_x$	VOC	CO	Pb	PM	$\text{SO}_x$	$\text{NO}_x$	VOC	CO	Pb
1940	23.1	17.6	6.9	15.2	82.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1950	24.9	19.8	9.4	18.1	87.6	(NA)	7.8	12.5	36.2	19.1	6.1	(NA)
1960	21.6	19.7	13.0	21.0	89.7	(NA)	-13.3	-0.5	38.3	16.0	2.4	(NA)
1970	18.5	26.3	18.5	25.0	101.4	203.8	-14.4	43.7	42.3	19.0	13.0	(NA)
1980	8.5	23.4	20.9	21.1	79.6	70.6	-54.1	-17.3	13.0	15.6	-21.5	-65.4
1981	8.0	22.6	20.9	19.8	77.4	56.4	-5.9	-3.4	0.0	-6.2	-2.8	-20.1
1982	7.1	21.4	20.0	18.4	72.4	54.4	-11.3	-5.3	-4.3	7.1	-6.5	-3.5
1983	7.1	20.7	19.3	19.3	74.5	46.4	0.0	-3.3	-3.5	4.9	2.9	-14.7
1984	7.4	21.5	19.8	20.3	71.8	40.1	4.2	3.9	2.6	5.2	-3.6	-13.6
1985	7.1	21.1	19.8	19.1	67.0	21.1	-4.1	-1.9	0.0	-5.9	-6.7	-47.4
1986	6.8	20.9	19.0	18.3	63.1	8.6	4.2	-0.9	-4.0	-4.2	-5.8	-59.2
1987	7.0	20.6	19.3	18.6	64.1	8.0	2.9	-1.4	1.6	1.6	1.6	-7.0
1988	6.9	20.7	19.8	18.6	61.2	7.6	-1.4	0.5	2.6	0.0	-4.5	-5.0

**No. 361. Air Pollutant Emissions, by Pollutant and Source: 1970 to 1988**

[In millions of metric tons, except lead in thousands of metric tons. Metric ton=1.1023 short tons]

YEAR AND POLLUTANT	Total emissions	CONTROLLABLE EMISSIONS							PERCENT OF TOTAL		
		Transportation		Fuel combustion <sup>1</sup>		Industrial processes	Solid waste disposal	Misc. uncontrollable	Transportation	Fuel combustion <sup>1</sup>	Industrial
		Total	Road vehicles	Total	Electric utilities						
1970: Carbon monoxide	101.4	74.4	65.3	4.5	0.2	8.9	6.4	7.2	73.4	4.4	8.8
Sulfur oxides	28.4	0.6	0.3	21.3	15.8	6.4	-	0.1	2.1	75.0	22.5
Volatile organic compounds	25.0	10.3	9.1	0.6	-	8.9	1.8	3.3	41.2	2.4	35.6
Particulates	18.5	1.2	0.9	4.6	2.3	10.5	1.1	1.1	6.5	24.9	56.8
Nitrogen oxides	18.5	8.0	6.3	9.1	4.4	0.7	0.4	0.3	43.2	49.2	3.8
Lead	203.8	163.6	156.0	9.6	0.3	23.9	6.7	-	80.3	4.7	11.7
1980: Carbon monoxide	79.6	56.1	48.7	7.4	0.3	6.3	2.2	7.6	70.5	9.3	7.9
Sulfur oxides	23.4	0.9	0.4	18.7	15.5	3.8	-	0.0	3.8	79.9	16.2
Volatile organic compounds	21.1	7.5	6.2	0.9	-	9.2	0.6	2.9	35.5	4.3	43.6
Particulates	8.5	1.3	1.1	2.4	0.8	3.3	0.4	1.1	15.3	28.2	38.8
Nitrogen oxides	20.9	9.8	7.9	10.1	6.4	0.7	0.1	0.2	46.9	48.3	3.3
Lead	70.6	59.4	56.4	3.9	0.1	3.6	3.7	-	84.1	5.5	5.1
1988: Carbon monoxide	61.2	41.2	34.1	7.6	0.3	4.7	1.7	6.0	67.3	12.4	7.7
Sulfur oxides	20.7	0.9	0.6	16.4	13.6	3.4	0.0	-	4.3	79.2	16.4
Volatile organic compounds	18.6	6.1	4.9	0.9	-	8.5	0.6	2.4	32.8	4.8	45.7
Particulates	6.9	1.4	1.1	1.7	0.4	2.6	0.3	0.9	20.3	24.6	37.7
Nitrogen oxides	19.8	8.1	6.1	10.8	7.1	0.6	0.1	0.2	40.9	54.5	3.0
Lead	7.6	2.6	2.4	0.5	0.1	2.0	2.5	-	34.2	6.6	26.3

- Represents zero. <sup>1</sup> Stationary sources.

Source of tables 360 and 361: U.S. Environmental Protection Agency, *National Air Pollutant Emission Estimates, 1940-1988*, March 1990.

### No. 362. Metropolitan Areas Failing to Meet National Ambient Air Quality Standards for Carbon Monoxide—Number of Days Exceeding Standards: 1988 and 1989

[For standard, see table 359. Non-attainment status was as of Dec. 31, 1989]

METROPOLITAN AREA	1988	1989	METROPOLITAN AREA	1988	1989	METROPOLITAN AREA	1988	1989
Albuquerque, NM	5	6	Middletown, CT CMSA	3	1	Phoenix, AZ	11	9
Anchorage, AK	2	3	Josephine County, OR <sup>1</sup>	2	1	Portland-Vancouver, OR-WA CMSA		
Baltimore, MD	2	-	Klamath County, OR	3	2	Provo-Orem, UT	3	2
Boston-Lawrence-Salem, MA-NH CMSA	12	-	Las Vegas, NV	26	26	Raleigh-Durham, NC	5	12
Chico, CA	2	1	Los Angeles-Anaheim-Riverside, CA CMSA	71	72	Reno, NV	3	2
Cleveland-Akron-Lorain, OH CMSA	12	1	Medford, OR	2	15	Sacramento, CA	6	18
Colorado Springs, CO	2	1	Memphis, TN-AR-MS	-	2	San Diego, CA	2	4
Denver-Boulder, CO CMSA	10	6	Minneapolis-St. Paul MN-WI	8	2	San Francisco-Oakland-San Jose, CA CMSA	2	6
Duluth, MN	-	2	Missoula County, MT <sup>2</sup>	2	2	Seattle-Tacoma, WA CMSA	3	2
El Paso, TX	-3	5	Modesto, CA	2	8	Spokane, WA	37	11
Fairbanks, AK <sup>2</sup>	10	3	New York-Northern NJ-Long Island, NY-NJ-CT CMSA	26	16	Staubenville-Weirton, OH-WV	31	21
Fort Collins, CO	3	1	Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA	-	2	Stockton, CA	1	4
Fresno, CA	4	13				Syracuse, NY	1	2
Greensboro-Winston-Salem-High Point, NC	2	2				Washington, DC-MD-VA	32	1
Hartford-New Britain						Winnebago County, WI	32	18

NA Not available. <sup>1</sup> 1986 data. <sup>2</sup> Not a metropolitan area. <sup>3</sup> 1987 data.

### No. 363. Metropolitan Areas Failing to Meet National Ambient Air Quality Standards for Ozone—Number of Days Exceeding Standards: 1987 to 1989

[For standard, see table 359. Non-attainment status was as of Dec. 31, 1989]

METROPOLITAN AREA	1987-1989, avg.	1989	METROPOLITAN AREA	1987-1989, avg.	1989
Albany-Schenectady-Troy, NY	2.7	-	Lexington-Fayette, KY	2.0	-
Allentown-Bethlehem, PA-NJ	3.1	-	Lincoln County, ME	2.4	(NA)
Altoona, PA	2.0	-	Livingston County, KY	1.1	-
Atlanta, GA	9.3	-	Los Angeles-Anaheim-Riverside, CA CMSA	137.5	121.7
Atlantic City, NJ	4.0	1.1	Louisville, KY-IN	1.9	1.0
Bakersfield, CA	44.2	25.0	Manchester, NH	1.4	-
Baltimore, MD	10.7	2.7	Memphis, TN-AR-MS	2.0	1.0
Baton Rouge, LA	4.5	3.0	Miami-Fort Lauderdale, FL CMSA	1.7	-
Beaumont-Port Arthur, TX	3.7	7.9	Milwaukee-Racine, WI CMSA	9.8	7.1
Birmingham, AL	3.0	-	Modesto, CA	7.6	5.3
Boston-Lawrence-Salem, MA-NH CMSA	10.0	2.0	Montgomery, AL	1.8	-
Buffalo-Niagara Falls, NY CMSA	3.8	1.0	Muskegon, MI	9.4	5.1
Canton, OH	1.7	-	Nashville, TN	5.6	2.0
Charleston, WV	2.3	-	New York-Northern NJ-Long Island, NY-NJ-CT CMSA	17.4	10.4
Charlotte-Gastonia-Rock Hill, NC-SC	3.4	2.2	Norfolk-Virginia Beach-Newport News, VA	2.0	-
Chicago-Gary-Lake County, IL-IN-WI CMSA	13.0	4.7	Owensboro, KY	3.7	-
Cincinnati-Hamilton, OH-KY-IN CMSA	5.4	1.1	Parkersburg-Marietta, WV-OH	7.2	-
Cleveland-Akron-Lorain, OH CMSA	5.2	4.0	Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA	8.8	3.1
Columbus, OH	1.4	-	Pittsburgh-Beaver Valley, PA CMSA	7.0	2.0
Dallas-Fort Worth, TX CMSA	3.5	2.3	Portland, ME	6.1	4.0
Dayton-Springfield, OH	3.1	2.0	Portsmouth-Dover-Rochester, NH-ME	5.3	2.0
Detroit-Ann Arbor, MI CMSA	3.7	4.0	Poughkeepsie, NY	1.3	-
Edmonson County, KY	3.2	(NA)	Providence-Pawtucket-Fall River, RI-MA CMSA	6.4	2.6
El Paso, TX	7.9	7.2	Raleigh-Durham, NC	4.1	3.0
Erie, PA	3.0	-	Reading, PA	3.4	-
Essex County, NY	1.8	-	Richmond-Petersburg, VA	4.4	-
Evansville, IN-KY	1.1	1.1	Sacramento, CA	15.8	9.8
Fayetteville, NC	1.4	-	St. Louis, MO-IL	6.2	2.1
Fresno, CA	24.3	21.4	Salt Lake City-Ogden, UT	2.0	2.9
Grand Rapids, MI	4.4	2.0	San Diego, CA	12.3	16.5
Greenbrier County, WV	7.2	-	San Francisco-Oakland-San Jose, CA CMSA	2.5	2.0
Greensboro-Winston-Salem-High Point, NC	7.2	-	Santa Barbara-Santa Maria-Lompoc, CA	2.1	2.0
Greenville-Spartanburg, SC	2.4	-	Scranton-Wilkes-Barre, PA	3.0	-
Hancock County, ME	2.8	1.0	Sheboygan, WI	9.1	1.2
Harrisburg-Lebanon-Carlisle, PA	2.2	-	Smyth County, VA	2.4	-
Hartford-New Britain-Middletown, CT CMSA	7.9	5.1	South Bend-Mishawaka, IN	1.1	-
Houston-Galveston-Brazoria, TX CMSA	12.2	14.2	Springfield, MA	6.7	3.0
Huntington-Ashland, WV-KY-OH	5.5	1.0	Stockton, CA	2.3	-
Indianapolis, IN	1.1	-	Sussex County, DE	3.6	-
Jefferson County, NY	3.4	-	Tampa-St. Petersburg-Clearwater, FL	1.4	-
Johnson City-Kingsport-Bristol, TN-VA	1.7	3.4	Toledo, OH	2.7	1.0
Johnstown, PA	2.5	-	Visalia-Tulare-Porterville, CA	7.6	10.3
Kansas City, MO-KS	1.2	-	Waldo County, ME	1.1	(NA)
Kewaunee County, WI	5.5	-	Washington, DC-MD-VA	4.9	2.0
Knox County, ME	1.8	-	Worcester, MA	5.2	-
Knoxville, TN	2.0	2.0	York, PA	1.5	-
Lake Charles, LA	1.3	-	Youngstown-Warren, OH <sup>2</sup>	2.1	-
Lancaster, PA	1.3	-			
Lewiston-Auburn, ME	1.5	1.0			

- Represents zero. NA Not available. <sup>1</sup> Not a metropolitan area. <sup>2</sup> Greater than 1.0. <sup>3</sup> Includes Sharon, PA.

Source: U.S. Environmental Protection Agency, press release, August 16, 1990.

**No. 364. Hazardous Waste Sites on the National Priority List, by State: 1990**

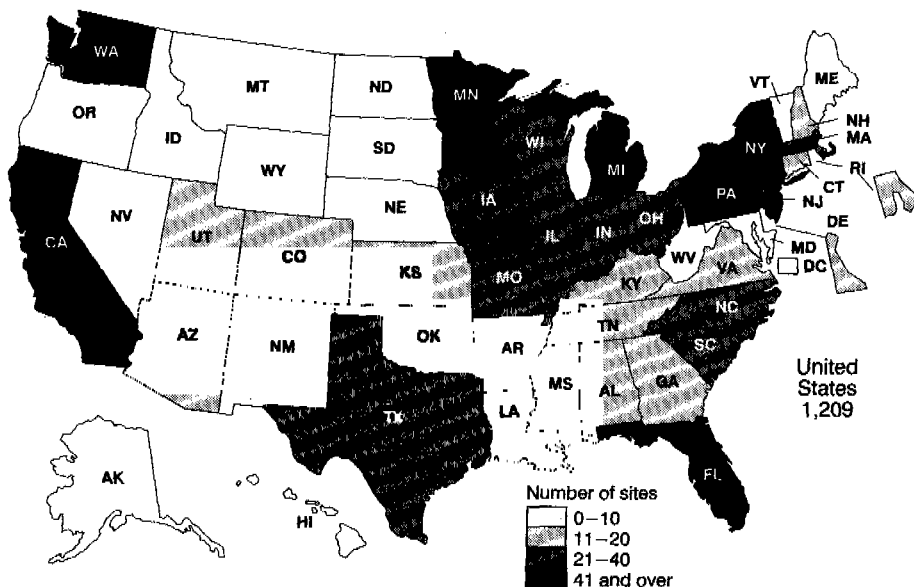
[Includes both proposed and final sites listed on the National Priorities List for the Superfund program as authorized by the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 and the Superfund Amendments and Reauthorization Act of 1986]

STATE	Total sites	Rank	Per-cent distribution	STATE	Total sites	Rank	Per-cent distribution
Total .....	1,207	(X)	(X)	Missouri .....	24	15	2.0
<b>United States .....</b>	<b>1,197</b>	<b>(X)</b>	<b>100.0</b>	Montana .....	10	34	0.8
Alabama .....	12	27	1.0	Nebraska .....	6	43	0.5
Alaska .....	6	43	0.5	Nevada .....	1	50	0.1
Arizona .....	11	29	0.9	New Hampshire .....	16	22	1.3
Arkansas .....	10	34	0.8	New Jersey .....	109	1	9.1
California .....	88	3	7.4	New Mexico .....	10	34	0.8
Colorado .....	16	22	1.3	New York .....	83	4	6.9
Connecticut .....	15	24	1.3	North Carolina .....	22	17	1.8
Delaware .....	20	19	1.7	North Dakota .....	2	48	0.2
District of Columbia .....	(X)	(X)	(X)	Ohio .....	33	12	2.8
Florida .....	51	6	4.3	Oklahoma .....	11	29	0.9
Georgia .....	13	26	1.1	Oregon .....	8	40	0.7
Hawaii .....	7	42	0.6	Pennsylvania .....	95	2	7.9
Idaho .....	9	38	0.8	Rhode Island .....	11	29	0.9
Illinois .....	37	10	3.1	South Carolina .....	23	16	1.9
Indiana .....	35	11	2.9	South Dakota .....	3	46	0.3
Iowa .....	21	18	1.8	Tennessee .....	14	25	1.2
Kansas .....	11	29	0.9	Texas .....	28	13	2.3
Kentucky .....	17	21	1.4	Utah .....	12	27	1.0
Louisiana .....	11	29	0.9	Vermont .....	8	40	0.7
Maine .....	9	38	0.8	Virginia .....	20	19	1.7
Maryland .....	10	34	0.8	Washington .....	45	7	3.8
Massachusetts .....	25	14	2.1	West Virginia .....	5	45	0.4
Michigan .....	78	5	6.5	Wisconsin .....	39	9	3.3
Minnesota .....	42	8	3.5	Wyoming .....	3	46	0.3
Mississippi .....	2	48	0.2	Guam .....	1	(X)	(X)
				Puerto Rico .....	9	(X)	(X)

- Represents zero. X Not applicable.

U.S. Environmental Protection Agency, press release, August 1990.

**Figure 6.2**  
**Hazardous Waste Sites: June 1990**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 364.

**No. 365. Municipal Solid Waste Generation, Recovery, and Disposal: 1960 to 1988**

[In millions of tons, except as indicated. Covers post-consumer residential and commercial solid wastes which comprise the major portion of typical municipal collections. Excludes mining, agricultural and industrial processing, demolition and construction wastes, sewage sludge, and junked autos and obsolete equipment wastes. Based on material-flows estimating procedure and wet weight as generated. NA Not available]

ITEM AND MATERIAL	1960	1965	1970	1975	1980	1985	1986	1987	1988
Waste generated	87.8	103.4	121.9	128.0	149.6	161.6	167.4	174.1	179.6
Per person per day (lb.)	2.66	3.00	3.27	3.26	3.61	3.71	3.80	3.92	4.00
Materials recovered	5.9	6.8	8.6	9.9	14.5	16.4	18.3	20.1	23.5
Per person per day (lb.)	0.18	0.19	0.23	0.25	0.35	0.38	0.42	0.45	0.52
Combustion for energy recovery	(NA)	0.2	0.4	0.7	2.7	7.6	9.6	16.0	24.5
Per person per day (lb.)	(NA)	0.01	0.02	0.02	0.06	0.17	0.22	0.36	0.59
Combustion without energy recovery	27.0	26.8	24.7	17.8	11.0	4.1	3.0	2.0	1.0
Per person per day (lb.)	0.82	0.75	0.66	0.45	0.27	0.10	0.07	0.05	0.02
Landfilled, other disposal	54.9	69.6	88.2	99.7	121.4	133.5	136.5	136.0	130.5
Per person per day (lb.)	1.67	2.05	2.37	2.54	2.93	3.06	3.09	3.06	2.87
Percent distribution of generation:									
Paper and paperboard	34.1	36.8	36.3	33.6	36.6	38.1	39.2	40.0	40.0
Glass	7.6	8.4	10.4	10.5	10.0	8.2	7.8	7.1	7.0
Metals	12.0	10.7	11.6	11.2	9.7	8.8	8.7	8.5	8.5
Plastics	0.5	1.4	2.5	3.5	5.2	7.2	7.3	7.7	8.0
Rubber and leather	2.3	2.5	2.6	3.0	2.9	2.4	2.6	2.5	2.5
Textiles	1.9	1.8	1.6	1.7	1.7	1.7	1.6	2.1	2.1
Wood	3.4	3.4	3.3	3.4	3.3	3.3	3.4	3.4	3.6
Food wastes	13.9	12.3	10.5	10.5	8.8	8.2	7.9	7.6	7.4
Yard wastes	22.8	20.9	19.0	19.7	18.4	18.6	18.0	17.8	17.6
Other wastes	1.6	1.8	2.2	2.9	3.4	3.6	3.5	3.3	3.2

**No. 366. Generation and Recovery of Selected Materials in Municipal Solid Waste: 1960 to 1988**

[In millions of tons, except as indicated. Covers post-consumer residential and commercial solid wastes which comprise the major portion of typical municipal collections. Excludes mining, agricultural and industrial processing, demolition and construction wastes, sewage sludge, and junked autos and obsolete equipment wastes. Based on material-flows estimating procedure and wet weight as generated]

ITEM AND MATERIAL	1960	1965	1970	1975	1980	1985	1986	1987	1988
Waste generated, total	87.8	103.4	121.9	128.1	149.6	161.6	167.4	174.1	179.6
Paper and paperboard	29.9	38.0	44.2	43.0	54.7	61.5	65.6	69.6	71.8
Ferrous metals	9.9	10.1	12.6	12.3	11.6	10.9	11.1	11.3	11.6
Aluminum	0.4	0.5	0.8	1.1	1.8	2.3	2.4	2.4	2.5
Other nonferrous metals	0.2	0.5	0.7	0.9	1.1	1.0	1.0	1.1	1.1
Glass	6.7	8.7	12.7	13.5	15.0	13.2	13.0	12.3	12.5
Plastics	0.4	1.4	3.1	4.5	7.8	11.6	12.2	13.4	14.4
Yard waste	20.0	21.6	23.2	25.2	27.5	30.0	30.2	31.0	31.6
Other wastes	20.3	22.6	24.6	27.6	30.1	31.1	31.9	33.0	34.1
Materials recovered, total	5.9	6.8	8.6	9.9	14.5	16.4	18.3	20.1	23.5
Paper and paperboard	5.4	5.7	7.4	8.2	11.9	13.1	14.8	16.3	18.4
Ferrous metals	0.1	0.1	0.1	0.2	0.4	0.4	0.4	0.4	0.7
Aluminum	0.0	0.0	0.0	0.1	0.3	0.6	0.6	0.7	0.8
Other nonferrous metals	0.0	0.3	0.3	0.4	0.5	0.5	0.6	0.6	0.7
Glass	0.1	0.1	0.2	0.4	0.8	1.0	1.1	1.3	1.5
Plastics	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2
Yard waste	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Other wastes	0.3	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7
Percent of generation recovered, total	6.7	6.6	7.1	7.7	9.7	10.1	10.9	11.5	13.1
Paper and paperboard	18.1	15.0	16.7	19.1	21.8	21.3	22.6	23.4	25.6
Ferrous metals	1.0	1.0	0.8	1.6	3.4	3.7	3.6	3.5	5.8
Aluminum	0.0	0.0	0.0	9.1	16.7	26.1	25.0	29.2	31.7
Other nonferrous metals	0.0	60.0	42.9	44.4	45.5	50.0	60.0	54.5	65.1
Glass	1.5	1.1	1.6	3.0	5.3	7.6	8.5	10.6	12.0
Plastics	0.0	0.0	0.0	0.0	0.0	0.9	0.8	0.7	1.1
Yard waste	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
Other wastes	1.5	2.7	2.4	2.2	2.0	2.3	2.2	2.1	2.1

Source of tables 365 and 366: Franklin Associates, Ltd., Prairie Village, KS, *Characterization of Municipal Solid Waste in the United States: 1990 Update*. Prepared for the U.S. Environmental Protection Agency.

**No. 367. Synthetic Organic Pesticides—Production and Sales: 1970 to 1988**

[Includes a small quantity of soil conditioners]

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Production, total	Mil. lb.	1,034	1,603	1,429	1,468	1,430	1,113	1,017	1,189	1,235	1,180	1,040	1,164
Herbicides	Mil. lb.	404	788	657	806	839	623	570	716	756	725	556	702
Insecticides	Mil. lb.	490	660	617	506	448	379	324	350	370	342	379	352
Fungicides	Mil. lb.	140	155	155	156	143	111	123	123	109	113	105	110
Production value	Mil. dol	1,058	2,900	3,685	4,269	5,136	4,331	3,993	5,056	5,360	5,305	4,716	5,389
Sales, total	Mil. lb.	1,317	1,369	1,406	1,291	1,147	1,017	1,108	1,022	940	911	935	
Sales value	Mil. dol	870	2,359	3,631	4,078	4,652	4,432	4,054	4,730	4,437	4,234	4,171	4,354

<sup>1</sup> Manufacturers unit value multiplied by production.

Source: U.S. Dept. of Agriculture, Agricultural Stabilization and Conservation Service, *The Pesticide Review*, 1978; and unpublished data. Based on data from U.S. International Trade Commission, *Synthetic Organic Chemicals*, annual.



**No. 368. Pollution Abatement and Control Expenditures in Current and Constant (1982) Dollars, 1980 to 1988, and by Media, 1988**

[In millions of dollars, except percent. Excludes agricultural production of crops and livestock except feedlots]

TYPE	1980	1982	1983	1984	1985	1986	1987	1988			
								Total <sup>1</sup>	Air	Water	Solid waste
CURRENT DOLLARS											
Total expenditures	53,538	57,680	61,779	68,929	74,636	78,717	81,486	85,924	34,180	33,186	19,364
Percent Government	25.3	21.8	20.7	20.7	21.3	22.6	23.3	22.5	2.9	34.2	31.5
Pollution abatement	50,491	54,500	58,060	65,230	70,945	74,612	77,319	81,449	31,867	32,209	18,837
Personal consumption	6,589	8,318	9,771	10,767	11,839	12,188	10,872	11,999	11,999	-	-
Business	32,283	35,610	37,589	42,191	45,097	46,832	49,620	52,528	19,536	21,623	13,218
Government	11,620	10,571	10,700	12,273	14,009	15,593	16,827	16,922	332	10,586	5,619
Federal	494	550	795	944	1,225	1,346	1,237	1,402	65	707	300
State and local	2,778	3,274	3,547	3,886	4,324	4,793	5,356	5,870	10	486	5,319
Govt. enterprise fixed capital	8,347	6,747	6,358	7,443	8,460	9,454	10,235	9,651	257	9,393	-
Regulation and monitoring	1,296	1,397	1,385	1,362	1,279	1,532	1,519	1,695	440	635	385
Research and development	1,751	1,783	2,335	2,337	2,412	2,573	2,648	2,781	1,873	342	142
CONSTANT (1982) DOLLARS											
Total expenditures	62,046	57,680	60,007	64,713	68,121	72,071	71,502	73,658	31,167	28,326	15,066
Pollution abatement	58,421	54,500	56,453	61,326	64,846	68,488	67,963	70,006	29,259	27,540	14,649
Personal consumption	7,164	8,318	9,731	10,565	11,336	12,147	10,305	11,014	11,014	-	-
Business	37,865	35,610	36,533	39,495	41,282	43,066	43,782	45,543	17,950	19,061	10,282
Government	13,372	10,571	10,188	11,266	12,228	13,275	13,876	13,450	295	8,479	4,367
Regulation and monitoring	1,533	1,397	1,315	1,230	1,104	1,291	1,234	1,337	348	503	299
Research and development	2,092	1,783	2,239	2,157	2,171	2,292	2,306	2,315	1,561	284	118

<sup>1</sup> Includes "other and unallocated" expenditures (such as for noise, radiation, and pesticide pollution and business expenditures not assigned to media) which may be either positive or negative; therefore, data may not add.

**No. 369. Air and Water Pollution Abatement Expenditures in Constant (1982) Dollars: 1980 to 1988**

[In millions of dollars. See headnote, table 368]

YEAR	AIR							WATER				
	Total	Mobile sources <sup>1</sup>			Stationary sources			Total <sup>4</sup>	Industrial		Public sewer systems <sup>5</sup>	
		Total	Cars	Trucks	Total <sup>2</sup>	Industrial			Facilities	Oper-ations <sup>3</sup>	Facilities	Oper-ations <sup>3</sup>
						Facilities	Oper-ations <sup>3</sup>					
1980 . . . . .	24,744	11,764	8,818	2,946	12,980	5,946	6,304	24,647	3,725	4,081	8,942	4,694
1981 . . . . .	25,850	13,401	10,564	2,837	12,448	5,446	6,299	21,984	3,259	4,180	6,882	4,880
1982 . . . . .	24,961	13,464	10,530	2,934	11,496	5,086	5,675	21,199	3,080	4,022	6,148	5,156
1983 . . . . .	26,367	15,581	12,274	3,307	10,785	4,104	5,990	21,543	2,811	4,509	5,551	5,475
1984 . . . . .	28,591	17,561	13,481	4,081	11,030	4,115	6,260	23,257	2,900	4,795	6,387	5,649
1985 . . . . .	29,665	18,697	14,209	4,488	10,968	3,935	6,452	24,724	2,995	5,035	7,005	6,016
1986 . . . . .	30,788	19,508	14,804	4,704	11,280	3,884	6,892	26,449	2,854	5,379	7,774	6,691
1987 . . . . .	28,065	16,770	12,392	4,378	11,295	3,955	6,874	27,962	3,119	5,988	8,248	7,116
1988, prel.	29,259	18,116	13,606	4,510	11,143	3,938	6,757	27,540	3,207	6,000	7,533	7,553

<sup>1</sup> Excludes expenditures to reduce emissions from sources other than cars and trucks. <sup>2</sup> Includes other expenditures not shown separately. <sup>3</sup> Operation of facilities. <sup>4</sup> Includes nonpoint sources not shown separately. <sup>5</sup> Includes expenditures for private connectors to sewer systems, by owners of animal feedlots, and by government enterprises.

 Source of tables 368 and 369: U.S. Bureau of Economic Analysis, *Survey of Current Business*, November 1990.

**No. 370. New Capital Business Expenditures for Pollution Abatement: 1975 to 1987**

SIC <sup>1</sup> code	SELECTED INDUSTRY	POLLUTION ABATEMENT EXPENDITURES (bil. dol.)								PERCENT OF TOTAL CAPITAL OUTLAYS <sup>2</sup>		
		1975	1980	1985	1986	1987				1975	1980	1987
						Total	Air	Water	Solid waste			
(X)	Nonfarm business, total <sup>3</sup>	6.81	9.19	8.61	8.45	9.12	4.18	3.58	1.36	4.2	2.9	2.1
(X)	Manufacturing <sup>3</sup>	4.66	5.35	5.13	5.33	6.22	2.63	2.69	0.89	8.7	4.8	4.3
20	Food, incl. beverage	0.30	0.26	0.25	0.27	0.28	0.08	0.15	0.04	6.8	3.2	2.5
26	Paper	0.47	0.46	0.58	0.55	0.45	0.26	0.08	0.11	16.0	7.1	5.0
28	Chemicals	0.76	0.69	0.74	0.98	0.96	0.30	0.41	0.14	10.7	5.9	5.2
29	Petroleum	1.21	1.54	1.25	1.28	2.11	0.90	0.95	0.26	13.3	7.9	12.3
33	Primary metals	0.92	0.94	0.89	0.76	0.88	0.45	0.37	0.06	16.9	13.9	10.1
35	Machinery, except electrical	0.09	0.12	0.15	0.10	0.15	0.05	0.09	0.02	1.9	1.1	1.1
36	Electrical machinery	0.09	0.22	0.18	0.25	0.32	0.07	0.20	0.05	2.3	2.3	2.1
37	Transportation equipment	0.15	0.48	0.55	0.60	0.46	0.21	0.17	0.08	2.7	3.2	2.8
49	Public utilities	1.56	3.05	2.87	2.50	2.28	1.32	0.65	0.31	7.7	8.1	4.3

 X Not applicable. <sup>1</sup> Standard Industrial Classification, see text, section 13. <sup>2</sup> Based on outlays reported in source; see also table 897. <sup>3</sup> Includes industries not shown separately.

 Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, November 1988.

### No. 371. Pollution Abatement Capital Expenditures and Operating Costs of Manufacturing Establishments, 1980 to 1988, and by Selected Industry Group, 1988

[In millions of dollars. Based on probability sample of about 20,000 manufacturing establishments. Excludes apparel and other textile establishments and establishments with less than 20 employees. Data will not agree with those shown in table 366; see source for details. Data for 1987 are not available as no survey was conducted.]

YEAR AND INDUSTRY GROUP	POLLUTION ABATEMENT CAPITAL EXPENDITURES					POLLUTION ABATEMENT GROSS OPERATING COSTS <sup>1</sup>				
	Total	Air	Water	Solid waste		Total	Air	Water	Solid waste	
				Hazardous	Non-hazardous				Hazardous	Non-hazardous
1980.....	3,502.9	2,105.5	1,146.5	251.0		8,141.8	3,297.8	3,193.1	1,650.6	
1981.....	3,484.9	2,193.6	1,028.4	263.1		9,109.9	3,697.8	3,554.3	1,855.7	
1982.....	3,024.1	1,828.2	977.0	218.5		8,565.0	3,455.9	3,488.5	1,619.9	
1983.....	2,045.0	1,029.0	819.0	60.9	136.0	9,925.1	3,806.9	3,943.2	573.5	1,601.6
1984.....	2,171.8	1,037.8	887.8	89.7	156.7	10,888.1	4,189.3	4,296.4	770.3	1,632.2
1985.....	2,809.7	1,292.3	1,017.9	326.2	172.9	11,677.9	4,330.2	4,608.5	943.0	1,795.3
1986.....	2,846.9	1,462.8	1,038.7	168.7	176.0	12,258.1	4,261.0	4,820.2	1,135.5	2,041.4
<b>All industries, 1988<sup>2</sup></b> .....	<b>3,423.3</b>	<b>1,524.1</b>	<b>1,289.5</b>	<b>332.1</b>	<b>277.5</b>	<b>14,008.6</b>	<b>4,466.5</b>	<b>5,276.0</b>	<b>1,687.0</b>	<b>2,579.0</b>
Food.....	211.0	100.2	91.0	1.9	17.9	1,160.1	157.8	673.4	13.2	315.7
Lumber and wood.....	44.5	31.6	7.5	0.8	4.6	236.1	84.0	57.6	16.8	77.7
Paper.....	417.7	233.4	97.2	9.1	78.0	1,343.3	372.4	627.8	32.5	310.7
Chemicals.....	1,095.0	370.8	487.8	147.5	89.1	3,074.9	706.4	1,428.5	467.1	472.9
Petroleum.....	482.8	208.2	203.7	56.1	14.7	2,005.5	1,175.8	561.7	142.8	125.2
Stone, clay, glass.....	62.3	42.6	13.6	1.9	4.3	438.5	247.7	67.7	25.8	97.4
Primary metal.....	309.8	167.3	100.6	20.5	21.4	1,809.0	965.8	516.0	136.2	190.9
Fabricated metals.....	146.8	45.4	75.3	21.6	4.5	761.9	135.0	316.8	169.3	140.8
Machinery exc. electrical.....	77.2	21.8	33.2	12.6	9.8	429.7	68.4	139.4	90.7	131.1
Electrical machinery.....	154.2	80.6	54.6	14.0	5.1	659.3	92.2	252.5	163.1	151.5
Transportation equipment.....	210.2	87.6	80.4	35.6	6.6	974.5	215.7	299.2	267.8	191.6

<sup>1</sup> Includes payments to governmental units. <sup>2</sup> Includes industries not shown separately.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA-200, annual.

### No. 372. Threatened and Endangered Wildlife and Plant Species—Number: 1990

[As of March 31. Endangered species: One in danger of becoming extinct throughout all or a significant part of its natural range. Threatened species: One likely to become endangered in the foreseeable future.]

ITEM	Mam- mals	Birds	Rep- tiles	Amphib- ians	Fishes	Snails	Clams	Crusta- ceans	Insects	Arach- nids	Plants
<b>Endangered species, total</b> .....	<b>296</b>	<b>220</b>	<b>74</b>	<b>14</b>	<b>62</b>	<b>4</b>	<b>37</b>	<b>8</b>	<b>12</b>	<b>3</b>	<b>170</b>
U.S. only.....	33	60	8	6	49	3	35	8	10	3	163
U.S. and foreign.....	19	15	7	-	2	-	-	-	1	-	6
Foreign only <sup>1</sup> .....	244	145	59	8	11	1	2	-	1	-	1
<b>Threatened species, total</b> .....	<b>29</b>	<b>10</b>	<b>31</b>	<b>5</b>	<b>31</b>	<b>6</b>	<b>-</b>	<b>1</b>	<b>7</b>	<b>-</b>	<b>55</b>
U.S. only.....	2	7	13	4	25	6	-	1	7	-	46
U.S. and foreign.....	2	3	4	1	6	-	-	-	-	-	7
Foreign only.....	22	-	14	-	-	-	-	-	-	-	2

- Represents zero. <sup>1</sup> Species outside U.S. and outlying areas as determined by Fish and Wildlife Service.

Source: U.S. Fish and Wildlife Service, *Endangered Species Technical Bulletin*, April 1990, Vol. XIV, No. 4.

### No. 373. Tornadoes, Floods, and Tropical Cyclones: 1966 to 1989

[See also *Historical Statistics, Colonial Times to 1970*, series J 268-278]

ITEM	1966- 1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Tornadoes, number <sup>1</sup> .....	8,865	852	788	852	866	783	1,046	931	907	684	764	656	702	858
Lives lost, total.....	1,216	43	53	84	28	24	64	34	122	94	15	59	32	49
Most in a single tornado.....	63	22	16	42	5	5	10	3	16	18	3	30	5	20
Property loss of \$500,000 and over.....	474	46	59	73	92	55	92	95	125	69	75	38	48	(NA)
Floods: Lives lost.....	1,715	212	125	103	97	90	155	200	126	304	80	82	29	81
Property loss (mil. dol.).....	1,225	1,393	1,000	4,000	1,500	1,000	3,500	4,100	4,000	3,000	4,000	1,490	114	415
North Atlantic tropical cyclones and hurricanes: Number reaching U.S. coast.....	27	1	2	5	2	2	1	2	2	11	6	7	12	4
Hurricanes only.....	14	1	-	3	1	-	-	1	1	7	4	2	5	3
Lives lost in U.S.....	513	-	35	11	2	-	-	22	4	9	-	-	-	56

- Represents zero. NA Not available. <sup>1</sup> A violent, rotating column of air descending from a cumulonimbus cloud in the form of a tubular, or funnel-shaped cloud, usually characterized by movements along a narrow path and wind speeds from 100 to over 300 miles per hour. Also known as a "twister" or "waterspout." <sup>2</sup> Tropical cyclones have maximum winds of 39 to 73 miles per hour; hurricanes have maximum winds of 74 miles per hour or higher.

Source: U.S. National Oceanic and Atmospheric Administration, 1966-1980, *Climatological Data: National Summary*, monthly with annual summary; thereafter, *Storm Data*, monthly.

## No. 374. Normal Daily Mean Temperature—Selected Cities

[In Fahrenheit degrees. Airport data except as noted. Based on standard 30-year period, 1951 through 1980. See *Historical Statistics, Colonial Times to 1970*, series J 110-136 and J 164-267, for related data.]

STATE	STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual avg.
AL	Mobile . . . . .	50.8	53.6	60.1	68.0	74.9	80.5	82.2	81.8	78.2	68.5	58.6	53.1	67.5
AK	Juneau . . . . .	21.8	27.8	31.2	39.1	46.5	52.7	55.7	54.6	49.2	41.8	32.7	26.8	40.0
AZ	Phoenix . . . . .	52.3	56.1	60.6	68.0	77.0	86.5	92.3	89.9	84.6	73.4	60.6	53.3	71.2
AR	Little Rock . . . . .	39.9	44.1	52.2	62.4	70.5	78.5	82.1	81.0	74.3	63.1	51.2	43.2	61.9
CA	Los Angeles . . . . .	56.0	57.1	57.4	59.5	62.4	65.6	69.0	70.3	69.5	66.3	61.2	57.0	62.6
	Sacramento . . . . .	45.3	50.3	53.2	58.2	64.9	71.2	75.6	74.7	71.7	63.9	53.0	45.6	60.6
	San Diego . . . . .	56.8	58.4	59.0	61.2	63.4	66.3	70.3	72.2	71.0	67.5	61.8	57.4	63.8
	San Francisco . . . . .	48.5	51.6	52.8	54.8	57.8	60.8	62.2	63.0	63.9	60.6	54.5	49.2	56.6
CO	Denver . . . . .	29.5	33.6	38.0	47.4	57.2	67.0	73.3	71.4	62.6	51.9	38.7	32.6	50.3
CT	Hartford . . . . .	25.2	27.6	36.8	48.8	59.4	68.6	73.4	71.3	63.3	52.4	41.6	29.1	49.8
DE	Wilmington . . . . .	31.2	33.2	41.8	52.4	62.2	71.2	76.0	74.8	67.9	56.3	45.6	35.5	54.0
DC	Washington . . . . .	35.2	37.5	45.8	56.7	66.0	74.5	78.9	77.6	71.1	59.3	48.7	38.9	57.5
FL	Jacksonville . . . . .	53.2	55.1	61.3	67.7	74.1	79.0	81.3	81.0	78.2	69.5	60.8	54.8	68.0
	Miami . . . . .	67.1	67.8	71.7	75.3	78.5	81.0	82.4	82.8	81.8	77.9	72.8	68.5	75.6
GA	Atlanta . . . . .	41.9	44.9	52.5	61.8	69.3	75.8	78.6	78.2	73.0	62.2	52.0	44.5	61.2
HI	Honolulu . . . . .	72.6	72.9	74.4	75.7	77.5	79.1	80.1	81.0	80.6	79.5	76.6	74.0	77.0
ID	Boise . . . . .	29.9	36.1	41.4	48.6	57.4	65.8	74.6	72.0	63.2	51.9	39.7	32.0	51.1
IL	Chicago . . . . .	21.4	26.0	36.0	48.8	59.1	68.6	73.0	71.9	64.7	53.5	39.8	27.7	49.2
	Peoria . . . . .	21.5	26.8	37.3	51.3	61.6	71.2	75.0	73.1	65.6	53.9	39.8	27.8	50.4
IN	Indianapolis . . . . .	26.0	29.9	40.0	52.4	62.5	71.6	75.1	73.2	66.6	54.8	41.8	31.5	52.1
IA	Des Moines . . . . .	18.6	24.5	35.1	50.5	62.1	71.6	76.3	73.9	65.1	52.2	38.6	25.7	49.7
KS	Wichita . . . . .	29.6	35.1	44.1	56.3	65.9	76.1	81.4	79.7	70.6	59.1	44.3	34.4	56.4
KY	Louisville . . . . .	32.5	35.9	45.1	56.6	65.4	73.7	77.6	76.4	69.9	57.7	46.1	37.2	56.2
LA	New Orleans . . . . .	52.4	54.7	61.4	68.7	74.9	80.3	82.1	81.7	78.5	69.2	60.0	54.6	68.2
ME	Portland . . . . .	21.5	23.0	32.1	42.8	52.8	62.2	68.1	66.6	58.6	48.4	38.4	25.8	45.0
MD	Baltimore . . . . .	32.7	34.7	43.3	54.0	63.4	72.2	76.8	75.6	68.9	56.9	46.3	36.5	55.1
MA	Boston . . . . .	29.6	30.7	38.4	48.7	58.5	68.0	73.5	71.9	64.6	54.8	45.2	33.7	51.5
MI	Detroit . . . . .	23.4	25.8	35.0	47.4	58.1	67.7	71.9	70.5	63.3	51.9	39.5	28.5	48.6
	Sault Ste. Marie . . . . .	13.3	14.3	23.9	38.1	49.7	58.4	63.5	62.9	54.8	45.3	32.8	19.7	39.7
MN	Duluth . . . . .	6.3	12.0	22.9	38.3	50.3	59.4	65.3	63.2	54.0	44.2	28.2	13.8	38.2
	Minneapolis-St. Paul . . . . .	11.2	17.5	29.2	46.0	58.5	68.1	73.1	70.6	60.6	49.6	33.2	19.2	44.7
MS	Jackson . . . . .	45.7	49.1	56.3	65.1	72.5	79.2	81.9	81.2	76.4	65.0	54.9	48.6	64.6
MO	Kansas City . . . . .	25.9	32.1	41.5	54.8	64.8	73.6	78.5	76.7	68.4	57.5	43.1	31.9	54.1
	St. Louis . . . . .	28.8	33.8	43.2	56.1	65.6	74.8	78.9	77.0	69.7	57.9	44.6	34.2	55.4
MT	Great Falls . . . . .	18.7	26.7	31.4	42.7	53.2	61.9	69.3	67.5	57.4	47.9	34.0	25.7	44.7
NE	Omaha . . . . .	20.2	27.2	37.3	52.2	63.3	73.0	77.7	75.2	65.8	54.5	39.5	27.2	51.1
NV	Reno . . . . .	32.2	37.4	40.6	46.4	54.6	62.4	69.5	66.9	60.2	50.3	39.7	32.5	49.4
NH	Concord . . . . .	19.9	22.2	32.1	44.1	55.2	64.7	69.5	67.3	59.1	48.2	37.3	24.5	45.3
NJ	Atlantic City . . . . .	31.8	33.2	41.0	51.0	60.5	69.2	74.4	73.0	66.6	55.5	45.6	35.8	53.1
NM	Albuquerque . . . . .	34.8	39.4	46.2	55.1	64.3	74.5	78.8	76.1	69.0	57.4	44.0	35.6	56.2
NY	Albany . . . . .	21.1	23.4	33.6	46.6	57.5	66.7	71.4	69.2	61.2	50.5	39.3	26.5	47.3
	Buffalo . . . . .	23.5	24.5	33.0	45.4	56.1	66.0	70.7	68.9	62.1	51.5	40.3	28.8	47.6
	New York <sup>1</sup> . . . . .	31.8	33.4	41.4	52.4	62.5	71.4	76.7	75.4	68.3	57.7	47.2	36.2	54.5
NC	Charlotte . . . . .	40.5	42.9	50.4	60.3	68.2	75.0	78.5	77.9	72.0	60.7	50.7	42.6	60.0
	Raleigh . . . . .	39.6	41.6	49.3	59.5	67.2	73.9	77.7	77.0	71.0	59.7	50.0	42.0	59.0
ND	Bismarck . . . . .	6.7	14.5	26.0	42.5	54.9	64.3	70.4	68.8	57.3	46.1	28.6	15.4	41.3
OH	Cincinnati . . . . .	28.9	32.1	41.8	53.5	63.0	71.4	75.4	74.1	67.5	55.3	43.4	33.8	53.4
	Cleveland . . . . .	25.5	27.4	36.6	48.1	58.2	67.6	71.6	70.4	64.1	53.2	41.8	31.1	49.6
	Columbus . . . . .	27.1	29.8	40.0	51.4	61.4	70.2	73.8	72.4	65.8	53.9	42.1	32.1	51.7
OK	Oklahoma City . . . . .	35.9	40.8	49.1	60.2	68.4	77.0	82.1	81.1	73.3	62.3	48.8	39.9	59.9
OR	Portland . . . . .	38.9	43.2	45.9	50.4	56.7	62.5	67.7	67.3	62.7	54.3	45.5	40.9	53.0
PA	Philadelphia . . . . .	31.2	33.1	41.8	52.9	62.8	71.6	76.5	75.3	68.2	56.5	45.8	35.5	54.3
	Pittsburgh . . . . .	26.7	28.8	38.5	50.1	59.7	68.1	72.0	70.6	64.1	52.5	41.6	31.4	50.3
RI	Providence . . . . .	28.2	29.3	37.4	47.9	57.6	66.8	72.5	71.1	63.5	53.2	43.4	32.3	50.3
SC	Columbia . . . . .	44.7	47.1	54.5	63.8	71.5	77.7	81.0	80.2	74.8	63.4	53.9	46.7	63.3
SD	Sioux Falls . . . . .	12.4	19.1	30.4	46.3	58.2	68.4	74.0	71.8	61.0	49.4	33.0	19.7	45.3
TN	Memphis . . . . .	39.6	43.5	51.7	62.6	71.0	78.7	82.1	80.6	74.2	62.9	51.3	43.3	61.8
	Nashville . . . . .	37.1	40.4	49.0	59.6	68.1	75.8	79.4	78.4	72.3	60.2	48.6	40.9	59.2
TX	Dallas-Fort Worth . . . . .	44.0	48.5	56.1	65.9	73.7	82.0	86.3	85.5	78.6	67.9	55.6	47.8	66.0
	El Paso . . . . .	44.2	48.4	55.1	63.6	71.9	80.8	82.5	80.3	74.1	63.6	51.4	44.4	63.4
	Houston . . . . .	51.4	54.5	61.0	68.7	74.9	80.6	83.1	82.6	78.4	69.7	60.1	54.0	68.3
UT	Salt Lake City . . . . .	28.6	34.1	40.7	49.2	58.8	68.3	77.5	74.9	65.0	53.0	39.7	30.3	51.7
VT	Burlington . . . . .	16.6	18.1	29.2	42.7	55.2	64.9	69.6	67.1	58.8	47.9	36.6	22.8	44.1
VA	Norfolk . . . . .	39.9	41.1	48.5	58.2	66.4	74.3	78.4	77.7	72.2	61.3	51.9	43.5	59.5
	Richmond . . . . .	36.6	38.9	47.2	57.9	66.1	73.5	77.8	76.8	70.2	58.6	48.9	39.9	57.7
WA	Seattle-Tacoma . . . . .	39.1	42.8	44.2	48.7	55.0	60.2	64.8	64.1	60.0	52.5	44.8	41.0	51.4
	Spokane . . . . .	25.7	32.4	37.6	45.8	54.3	61.7	69.7	68.1	59.4	47.6	34.9	29.0	47.2
WV	Charleston . . . . .	32.9	35.6	44.8	55.3	63.9	71.0	74.5	73.7	67.6	55.9	45.3	36.9	54.8
WI	Milwaukee . . . . .	18.7	23.0	32.1	44.6	54.8	64.9	70.5	69.3	61.9	50.9	37.3	25.1	46.1
WY	Cheyenne . . . . .	26.1	29.3	32.1	41.8	52.2	62.0	68.9	66.8	57.9	47.5	34.8	29.3	45.7
PR	San Juan . . . . .	76.5	76.6	77.5	78.8	80.3	81.7	82.0	82.2	81.9	81.4	79.6	77.7	79.7

<sup>1</sup> City office data.

Source: U.S. National Oceanic and Atmospheric Administration, *Climatology of the United States*, No.81, Sept. 1982.

## No. 375. Normal Daily Maximum Temperature—Selected Cities

[In Fahrenheit degrees. Airport data except as noted. Based on standard 30-year period, 1951 through 1980]

STATE	STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual avg.
AL	Mobile . . . . .	80.6	63.9	70.3	78.3	84.9	90.2	91.2	90.7	87.0	79.4	69.3	63.1	77.4
AK	Juneau . . . . .	27.4	33.7	37.4	46.8	54.7	61.1	64.0	62.6	55.9	47.0	37.5	31.5	46.6
AZ	Phoenix . . . . .	65.2	69.7	74.5	83.1	92.4	102.3	105.0	102.3	98.2	87.7	74.3	66.4	85.1
AR	Little Rock . . . . .	49.8	54.5	63.2	73.8	81.7	89.5	92.7	92.3	85.6	75.8	62.4	53.2	72.9
CA	Los Angeles . . . . .	64.6	65.5	65.1	66.7	69.1	72.0	75.3	76.5	76.4	74.0	70.3	66.1	70.1
	Sacramento . . . . .	52.6	59.4	64.1	71.0	79.7	87.4	93.3	91.7	87.6	77.7	63.2	53.2	73.4
	San Diego . . . . .	65.2	66.4	65.9	67.8	68.6	71.3	75.6	77.6	76.8	74.6	69.9	66.1	70.5
	San Francisco . . . . .	55.5	59.0	60.6	63.0	66.3	69.6	71.0	71.8	73.4	70.0	62.7	56.3	64.9
CO	Denver . . . . .	43.1	46.9	51.2	61.0	70.7	81.6	88.0	85.8	77.5	66.8	52.4	46.1	64.3
CT	Hartford . . . . .	33.6	36.3	45.5	60.0	71.4	80.1	84.8	82.6	74.8	63.9	50.6	37.3	60.1
DE	Wilmington . . . . .	39.2	41.8	50.9	63.0	72.7	81.2	85.6	84.1	77.8	66.7	54.8	43.6	63.5
DC	Washington . . . . .	42.9	45.9	55.0	67.1	75.9	84.0	87.9	86.4	80.1	68.9	57.4	46.6	66.5
FL	Jacksonville . . . . .	64.6	66.8	73.3	79.7	85.2	88.9	90.7	90.2	86.9	79.7	72.4	66.3	78.7
	Miami . . . . .	75.0	75.8	79.3	82.4	85.1	87.3	88.7	89.2	87.8	84.2	79.8	76.2	82.6
GA	Atlanta . . . . .	51.2	55.3	63.2	73.2	79.8	85.6	87.9	87.6	82.3	72.9	62.6	54.1	71.3
HI	Honolulu . . . . .	79.9	80.4	81.4	82.7	84.8	86.2	87.1	88.3	88.2	86.7	83.9	81.4	84.2
ID	Boise . . . . .	37.1	44.3	51.8	60.8	70.8	79.8	90.6	87.3	77.6	64.6	49.0	39.3	62.8
IL	Chicago . . . . .	29.2	33.9	44.3	58.8	70.0	79.4	83.3	82.1	75.5	64.1	48.2	35.0	58.7
	Peoria . . . . .	29.7	35.2	46.5	61.9	72.5	82.1	85.5	83.4	76.7	64.8	48.5	35.4	60.2
IN	Indianapolis . . . . .	34.2	38.5	49.3	63.1	73.4	82.3	85.2	83.7	77.9	66.1	50.8	39.2	62.0
IA	Des Moines . . . . .	27.0	33.2	44.2	61.0	72.6	81.8	86.2	84.0	75.7	65.0	47.6	33.7	59.3
KS	Wichita . . . . .	39.8	46.1	55.8	68.1	77.1	87.4	92.9	91.5	82.0	71.2	55.1	44.6	67.6
KY	Louisville . . . . .	40.8	45.0	54.9	67.5	76.2	84.0	87.6	86.7	80.6	69.2	55.5	45.4	66.1
LA	New Orleans . . . . .	61.8	64.6	71.2	78.6	84.5	89.5	90.7	90.2	86.8	79.4	70.1	64.4	77.7
ME	Portland . . . . .	31.0	33.1	40.5	52.5	63.4	72.8	78.9	77.5	69.6	59.0	47.1	34.9	55.0
MD	Baltimore . . . . .	41.0	43.7	53.1	65.1	74.2	82.9	87.1	85.5	79.1	67.7	55.9	45.1	65.0
MA	Boston . . . . .	36.4	37.7	45.0	56.6	67.0	76.6	81.8	79.8	72.3	62.5	51.6	40.3	59.0
MI	Detroit . . . . .	30.6	33.5	43.4	57.7	69.4	79.0	83.1	81.5	74.4	62.5	47.6	35.4	58.2
	Sault Ste. Marie . . . . .	21.2	23.1	32.3	47.1	61.0	70.1	75.1	73.4	64.2	53.6	39.0	26.6	48.9
MN	Duluth . . . . .	15.5	21.7	31.9	47.6	61.3	70.5	76.4	73.6	63.6	53.0	35.2	21.8	47.7
	Minneapolis-St. Paul . . . . .	19.9	26.4	37.5	56.0	69.4	78.5	83.4	80.9	71.0	59.7	41.1	28.7	54.2
MS	Jackson . . . . .	56.5	60.9	68.4	77.3	84.1	90.5	92.5	92.1	87.6	78.6	67.5	60.0	76.3
MO	Kansas City . . . . .	34.5	41.1	51.3	65.1	74.6	83.3	88.5	86.8	78.6	67.9	52.1	40.1	63.7
	St. Louis . . . . .	37.6	43.1	53.4	67.1	76.4	85.2	89.0	87.4	80.7	69.1	54.0	42.6	65.5
MT	Great Falls . . . . .	28.2	36.5	41.7	54.0	65.3	74.3	84.2	82.0	70.5	59.5	43.5	34.7	56.2
NE	Omaha . . . . .	30.2	37.3	47.7	64.0	74.7	84.2	88.5	86.2	77.5	67.0	50.3	36.9	62.0
NV	Reno . . . . .	44.6	51.1	55.8	63.3	72.3	81.8	91.3	88.7	81.4	70.0	55.6	46.2	66.9
NH	Concord . . . . .	30.8	33.2	41.9	56.5	68.9	77.7	82.6	80.1	71.9	61.0	47.2	34.4	57.2
NJ	Atlantic City . . . . .	40.6	42.4	50.3	61.8	71.0	79.6	84.0	82.5	76.7	66.1	55.4	45.0	62.9
NM	Albuquerque . . . . .	47.2	52.9	60.7	70.6	79.9	90.6	92.8	89.4	83.0	71.7	57.2	48.0	70.3
NY	Albany . . . . .	30.2	32.7	42.5	57.6	69.5	78.3	83.2	80.7	72.8	61.5	47.8	34.6	57.6
	Buffalo . . . . .	30.0	31.4	40.4	54.4	65.9	75.6	80.2	78.2	71.4	60.2	47.0	35.0	55.8
	New York . . . . .	38.0	40.1	48.6	61.1	71.5	80.1	85.3	83.7	76.4	65.6	53.6	42.1	62.2
NC	Charlotte . . . . .	50.3	53.6	61.6	72.1	79.1	85.2	88.3	87.6	81.7	71.7	61.7	52.6	70.5
	Raleigh . . . . .	50.1	52.8	61.0	72.3	79.0	85.2	88.2	87.1	81.6	71.6	61.8	52.7	70.3
ND	Bismarck . . . . .	17.5	25.2	36.4	54.2	67.7	76.8	84.4	83.3	71.4	59.3	39.4	25.9	53.5
OH	Cincinnati . . . . .	37.3	41.2	51.5	64.5	74.2	82.3	85.8	84.8	78.7	66.7	52.6	41.9	63.5
	Cleveland . . . . .	32.5	34.8	44.8	57.9	68.5	78.0	81.7	80.3	74.2	62.7	49.3	37.5	58.5
	Columbus . . . . .	34.7	38.1	49.3	62.3	72.6	81.3	84.4	83.0	76.9	65.0	50.7	39.4	61.5
OK	Oklahoma City . . . . .	46.6	52.2	61.0	71.7	79.0	87.6	93.5	92.8	84.7	74.3	59.9	50.7	71.2
OR	Portland . . . . .	44.3	50.4	54.5	60.2	66.9	72.7	79.5	78.6	74.2	63.9	52.3	46.4	62.0
PA	Philadelphia . . . . .	38.6	41.1	50.5	63.2	73.0	81.7	86.1	84.6	77.8	66.5	54.5	43.0	63.4
	Pittsburgh . . . . .	34.1	36.8	47.6	60.7	70.8	79.1	82.7	81.1	74.8	62.9	49.8	38.4	59.9
RI	Providence . . . . .	36.4	37.7	45.5	57.5	67.6	76.6	81.7	80.3	73.1	63.2	51.9	40.5	59.3
SC	Columbia . . . . .	56.2	59.5	67.1	77.0	83.8	89.2	91.9	91.0	85.5	76.5	67.1	58.8	75.3
SD	Sioux Falls . . . . .	22.9	29.3	40.1	58.1	70.5	80.3	86.2	83.9	73.5	62.1	43.7	29.3	56.7
TN	Memphis . . . . .	48.3	53.0	61.4	72.9	81.0	88.4	91.5	90.3	84.3	74.5	61.4	52.3	71.6
	Nashville . . . . .	46.3	50.7	59.6	71.2	79.2	86.7	89.8	89.0	83.2	72.3	59.2	50.4	69.8
TX	Dallas-Fort Worth . . . . .	54.0	59.1	67.2	76.8	84.4	93.2	97.8	97.3	89.7	79.5	66.2	58.1	76.9
	El Paso . . . . .	57.9	62.7	69.6	78.7	87.1	95.9	95.3	93.0	87.5	78.5	65.7	58.2	77.5
	Houston . . . . .	61.9	65.7	72.1	79.0	85.1	90.9	93.6	93.1	88.7	81.9	71.6	65.2	79.1
UT	Salt Lake City . . . . .	37.4	43.7	51.5	61.1	72.4	83.3	93.2	90.0	80.0	66.7	50.2	38.9	64.0
VT	Burlington . . . . .	25.4	27.3	37.7	52.6	66.4	75.9	80.5	77.6	68.8	57.0	43.6	30.3	53.6
VA	Norfolk . . . . .	48.1	49.9	57.5	68.2	75.7	83.2	86.9	85.7	80.2	69.8	60.8	51.9	68.2
	Richmond . . . . .	46.7	49.6	58.5	70.6	77.9	84.8	88.4	87.1	81.0	70.5	60.5	50.2	68.8
WA	Seattle-Tacoma . . . . .	43.9	48.8	51.1	56.8	64.0	69.2	75.2	73.9	68.7	59.5	50.3	45.6	58.9
	Spokane . . . . .	31.3	39.0	46.2	56.7	66.1	74.0	84.0	81.7	72.4	58.3	41.4	34.2	57.1
WV	Charleston . . . . .	41.8	45.4	55.4	67.3	76.0	82.5	85.2	84.2	78.7	67.7	55.6	45.9	65.5
WY	Milwaukee . . . . .	26.0	30.1	39.2	53.5	64.8	75.0	79.8	78.4	71.2	59.9	44.7	32.0	54.6
	Cheyenne . . . . .	37.3	40.7	43.6	54.0	64.6	75.4	83.1	80.8	72.1	61.0	46.5	40.4	58.3
PR	San Juan . . . . .	82.7	83.2	84.2	85.2	86.7	88.0	87.9	88.2	88.2	87.9	85.7	83.6	86.0

\* City office data.

Source: U.S. National Oceanic and Atmospheric Administration, *Climatology of the United States*, No. 81, Sept. 1982.

## No. 376. Normal Daily Minimum Temperature—Selected Cities

[In Fahrenheit degrees. Airport data except as noted. Based on standard 30-year period, 1951 through 1980]

STATE	STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual avg.
AL	Mobile	40.9	43.2	49.8	57.7	64.8	70.8	73.2	72.9	69.3	57.5	47.9	42.9	57.6
AK	Juneau	16.1	21.9	25.0	31.3	38.1	44.2	47.4	46.6	42.3	36.5	28.0	22.1	33.3
AZ	Phoenix	39.4	42.5	46.7	53.0	61.5	70.6	79.5	77.5	70.9	59.1	46.9	40.2	57.3
AR	Little Rock	29.9	33.6	41.2	50.9	59.2	67.5	71.4	69.6	63.0	50.4	40.0	33.2	50.8
CA	Los Angeles	47.3	48.6	49.7	52.2	55.7	59.1	62.6	64.0	62.5	58.5	52.1	47.8	55.0
	Sacramento	37.9	41.2	42.4	45.3	50.1	55.1	57.9	57.6	55.8	50.0	42.8	37.9	47.8
	San Diego	48.4	50.3	52.1	54.5	58.2	61.2	64.9	66.0	65.1	60.3	53.6	48.7	57.0
	San Francisco	41.5	44.1	44.9	46.6	49.3	52.0	53.3	54.2	54.3	51.2	46.3	42.2	48.3
CO	Denver	15.9	20.2	24.7	33.7	43.6	52.4	58.7	57.0	47.7	36.9	25.1	18.9	36.2
CT	Hartford	16.7	18.8	28.0	37.6	47.3	57.0	61.9	60.0	51.7	40.9	32.5	20.9	39.5
DE	Wilmington	23.2	24.6	32.6	41.8	51.7	61.2	66.3	65.4	58.0	45.9	36.4	27.3	44.5
DC	Washington	27.5	29.0	36.6	46.2	56.1	65.0	69.9	68.7	62.0	49.7	39.9	31.2	48.5
FL	Jacksonville	41.7	43.3	49.3	55.7	63.0	69.1	71.8	71.8	69.4	59.2	49.2	43.2	57.2
	Miami	59.2	59.7	64.1	68.2	71.9	74.6	76.2	76.5	75.7	71.6	65.8	60.8	68.7
GA	Atlanta	32.6	34.5	41.7	50.4	58.7	65.9	69.2	68.7	63.6	51.4	41.3	34.8	51.1
HI	Honolulu	65.3	65.3	67.3	68.7	70.2	71.9	73.1	73.6	72.9	72.2	69.2	66.5	69.7
ID	Boise	22.6	27.9	30.9	36.4	44.0	51.8	58.5	56.7	48.7	39.1	30.5	24.6	39.3
IL	Chicago	13.6	18.1	27.6	38.8	48.1	57.7	62.7	61.7	53.9	42.9	31.4	20.3	39.7
	Peoria	13.3	18.4	28.1	40.6	50.6	60.2	64.6	62.7	54.5	42.9	30.9	20.2	40.6
IN	Indianapolis	17.8	21.1	30.7	41.7	51.5	60.9	64.9	62.7	55.3	43.4	32.8	23.7	42.2
IA	Des Moines	10.1	15.8	26.0	39.8	51.6	61.4	66.3	63.7	54.4	43.3	29.5	17.6	40.0
KS	Wichita	19.4	24.1	32.4	44.5	54.6	64.7	69.8	67.9	59.2	46.9	33.5	24.2	45.1
KY	Louisville	24.1	26.8	35.2	45.6	54.6	63.3	67.5	66.1	59.1	46.2	36.6	28.9	46.2
LA	New Orleans	43.0	44.8	51.6	58.8	65.3	70.9	73.5	73.1	70.1	59.0	49.9	44.8	58.7
ME	Portland	11.9	12.9	23.7	33.0	42.1	51.4	57.3	55.8	47.7	37.9	29.6	16.7	35.0
MD	Baltimore	24.3	25.7	33.4	42.9	52.5	61.5	66.5	65.7	58.6	46.1	36.6	27.9	45.1
MA	Boston	22.8	23.7	31.8	40.8	50.0	59.3	65.1	63.9	56.9	47.1	38.7	27.1	43.9
MI	Detroit	16.1	18.0	26.5	36.9	46.7	56.3	60.7	59.4	52.2	41.2	31.4	21.6	38.9
	Sault Ste. Marie	5.4	5.3	15.4	29.0	38.3	46.7	51.9	52.4	45.3	36.9	26.4	12.7	30.5
MN	Duluth	-2.9	2.2	13.9	28.9	39.3	48.2	54.3	52.8	44.3	35.4	21.2	5.8	28.6
	Minneapolis-St. Paul	2.4	8.5	20.8	36.0	47.6	57.7	62.7	60.3	50.2	39.4	25.3	11.7	35.2
MS	Jackson	34.9	37.2	44.2	52.9	60.8	67.9	71.3	70.2	65.1	51.4	42.3	37.1	52.9
MO	Kansas City	17.2	23.0	31.7	44.4	54.6	63.8	68.5	66.5	58.1	47.0	34.0	23.7	44.4
	St. Louis	19.9	24.5	33.0	45.1	54.7	64.3	68.8	66.6	58.6	46.7	35.1	25.7	45.3
MT	Great Falls	9.2	16.8	21.1	31.3	41.1	49.4	54.4	53.0	44.2	36.2	24.5	16.6	33.2
NE	Omaha	10.2	17.1	26.9	40.3	51.8	61.7	66.8	64.2	54.0	42.0	28.6	17.4	40.1
NV	Reno	19.5	23.5	25.4	29.4	36.9	43.0	47.7	45.2	38.9	30.5	23.8	18.9	31.9
NH	Concord	9.0	11.0	22.2	31.6	41.4	51.6	56.4	54.5	46.2	35.5	27.3	14.5	33.4
NJ	Atlantic City	22.9	23.9	31.6	40.4	49.9	58.8	64.8	63.5	56.4	44.8	35.8	26.6	43.3
NM	Albuquerque	22.3	25.9	31.7	39.5	48.6	58.4	64.7	62.8	54.9	43.1	30.7	23.2	42.1
NY	Albany	11.9	14.0	24.6	35.5	45.4	55.0	59.6	57.6	49.6	39.4	30.8	18.2	36.8
	Buffalo	17.0	17.5	25.6	36.3	46.3	56.4	61.2	59.6	52.7	42.7	33.6	22.5	39.3
	New York	25.6	26.6	34.1	43.8	53.3	62.7	68.2	67.1	60.1	49.9	40.8	30.3	46.9
NC	Charlotte	30.7	32.1	39.1	48.4	57.2	64.7	68.7	68.2	62.3	49.6	39.7	32.6	49.4
	Raleigh	29.1	30.3	37.7	46.5	55.3	62.6	67.1	66.8	60.4	47.7	38.1	31.2	47.7
ND	Bismarck	-4.2	3.7	15.6	30.8	42.0	51.8	56.4	54.2	43.2	32.8	17.7	4.8	29.1
OH	Cincinnati	20.4	23.0	32.0	42.4	51.7	60.5	64.9	63.3	56.3	43.9	34.1	25.7	43.2
	Cleveland	18.5	19.9	28.4	38.3	47.9	57.2	61.4	60.5	54.0	43.6	34.3	24.6	40.7
	Columbus	19.4	21.5	30.6	40.5	50.2	59.0	63.2	61.7	54.6	42.8	33.5	24.7	41.8
OK	Oklahoma City	25.2	29.4	37.1	48.6	57.7	66.3	70.6	69.4	61.9	50.2	37.6	29.1	48.6
OR	Portland	33.5	36.0	37.4	40.6	46.4	52.2	55.8	55.8	51.1	44.6	38.6	35.4	44.0
PA	Philadelphia	23.8	25.0	33.1	42.6	52.5	61.5	66.8	66.0	58.6	46.5	37.1	28.0	45.1
	Pittsburgh	19.2	20.7	29.4	39.4	48.5	57.1	61.3	60.1	53.3	42.1	33.3	24.3	40.7
RI	Providence	20.0	20.9	29.2	38.3	47.6	57.0	63.3	61.9	53.8	43.1	34.8	24.1	41.2
SC	Columbia	33.2	34.6	41.9	50.5	59.1	66.1	70.1	69.4	63.9	50.3	40.6	34.7	51.2
SD	Sioux Falls	1.9	8.9	20.6	34.6	45.7	56.3	61.8	59.7	48.5	36.7	22.3	10.1	33.9
TN	Memphis	30.9	34.1	41.9	52.2	60.9	68.9	72.6	70.8	64.1	51.3	41.1	34.3	51.9
	Nashville	27.8	30.1	38.3	48.1	56.9	64.8	69.0	67.8	61.3	48.0	38.0	31.3	48.5
TX	Dallas-Fort Worth	33.9	37.8	44.9	55.0	62.9	70.8	74.7	73.7	67.5	56.3	44.9	37.4	55.0
	El Paso	30.4	34.1	40.5	48.5	56.6	65.7	69.6	67.5	60.6	48.7	37.0	30.6	49.2
UT	Houston	40.8	43.2	49.8	58.3	64.7	70.2	72.5	72.1	68.1	57.5	48.6	42.7	57.4
	Salt Lake City	19.7	24.4	29.9	37.2	45.2	53.3	61.8	59.7	50.0	39.3	29.2	21.6	39.3
VT	Burlington	7.7	8.8	20.8	32.7	44.0	54.0	58.6	56.6	48.7	38.7	29.6	14.9	34.6
VA	Norfolk	31.7	32.3	39.4	48.1	57.2	65.3	69.9	69.6	64.2	52.8	43.0	35.0	50.7
	Richmond	26.5	28.1	35.8	45.1	54.2	62.2	67.2	66.4	59.3	46.7	37.3	29.6	46.5
WA	Seattle-Tacoma	34.3	36.8	37.2	40.5	46.0	51.1	54.3	54.3	51.2	45.3	39.3	36.3	43.9
	Spokane	20.0	25.7	29.0	34.9	42.5	49.3	55.3	54.3	46.5	36.7	28.5	23.7	37.2
WV	Charleston	23.9	25.8	34.1	43.3	51.8	59.4	63.8	63.1	56.4	44.0	35.0	27.8	44.0
WI	Milwaukee	11.3	15.8	24.9	35.6	44.7	54.7	61.1	60.2	52.5	41.9	29.9	18.2	37.6
WY	Cheyenne	14.8	17.9	20.6	29.6	39.7	48.5	54.6	52.8	43.7	34.0	23.1	18.2	33.1
PR	San Juan	70.3	70.0	70.8	72.3	73.9	75.3	76.1	76.1	75.5	74.9	73.4	71.8	73.4

<sup>1</sup> City office data.Source: U.S. National Oceanic and Atmospheric Administration, *Climatology of the United States*, No. 81, Sept. 1982.

## No. 377. Highest Temperature of Record—Selected Cities

[In Fahrenheit degrees. Airport data, except as noted. For period of record through 1989]

STATE	STATION	Length of record (yr.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
AL	Mobile . . . . .	48	84	82	90	94	100	102	104	102	99	93	87	81	104
AK	Juneau . . . . .	45	57	55	59	71	82	86	90	83	72	61	56	54	90
AZ	Phoenix . . . . .	52	88	92	100	105	113	117	118	116	118	107	93	88	118
AR	Little Rock . . . . .	48	83	85	91	95	98	105	112	108	106	97	86	80	112
CA	Los Angeles . . . . .	54	88	92	95	102	97	104	97	98	110	106	101	94	110
	Sacramento . . . . .	39	70	76	88	93	105	115	114	108	108	101	87	72	115
	San Diego . . . . .	49	88	88	93	98	96	101	95	98	111	107	97	88	111
	San Francisco . . . . .	62	72	78	85	92	97	106	105	98	103	99	85	75	106
CO	Denver . . . . .	55	73	76	84	89	96	104	104	101	97	88	79	75	104
CT	Hartford . . . . .	35	65	73	87	96	97	100	102	101	99	91	81	74	102
DE	Wilmington . . . . .	42	75	78	86	94	95	99	102	101	100	91	85	74	102
DC	Washington . . . . .	48	79	82	89	95	97	101	104	103	101	94	86	75	104
FL	Jacksonville . . . . .	48	85	88	91	95	100	103	105	102	100	96	88	84	105
	Miami . . . . .	47	88	89	92	96	95	98	98	98	97	95	89	87	98
GA	Atlanta . . . . .	41	79	80	85	93	95	101	105	102	98	95	84	77	105
HI	Honolulu . . . . .	20	87	88	88	89	93	92	92	93	94	94	93	89	94
ID	Boise . . . . .	50	63	70	81	92	98	109	111	110	102	91	74	65	111
IL	Chicago . . . . .	31	65	71	88	91	93	104	102	100	99	91	78	71	104
	Peoria . . . . .	50	70	72	86	92	93	105	103	103	100	90	81	71	105
IN	Indianapolis . . . . .	50	71	74	85	89	93	102	104	102	100	90	81	74	104
IA	Des Moines . . . . .	50	65	73	91	93	98	103	105	108	101	95	76	69	108
KS	Wichita . . . . .	37	75	84	89	96	100	110	113	110	105	95	85	83	113
KY	Louisville . . . . .	42	77	77	86	91	95	102	105	101	104	92	84	76	105
LA	New Orleans . . . . .	43	83	85	89	92	96	100	101	102	101	92	87	84	102
ME	Portland . . . . .	49	64	64	86	85	94	97	99	103	95	88	74	69	103
MD	Baltimore . . . . .	39	75	79	87	94	98	100	104	105	100	92	83	77	105
MA	Boston . . . . .	38	63	70	81	94	95	100	102	102	100	90	78	73	102
MI	Detroit . . . . .	31	62	65	81	89	93	104	102	100	98	91	77	68	104
	Sault Ste. Marie . . . . .	49	45	47	75	83	89	93	97	98	95	80	66	60	98
MN	Duluth . . . . .	48	52	55	78	88	90	93	97	97	95	86	70	55	97
	Minneapolis-St. Paul . . . . .	51	58	60	83	95	96	102	105	102	98	89	75	63	105
MS	Jackson . . . . .	26	82	85	89	94	99	105	106	102	104	95	88	84	106
MO	Kansas City . . . . .	17	69	76	86	93	92	105	107	109	98	92	82	70	109
	St. Louis . . . . .	32	76	85	89	93	93	102	107	107	104	94	85	76	107
MT	Great Falls . . . . .	52	62	68	78	89	93	99	105	106	98	91	76	69	106
NE	Omaha . . . . .	53	69	78	89	97	99	105	114	110	104	96	80	72	114
NV	Reno . . . . .	48	70	75	83	89	96	103	104	105	101	91	77	70	105
NH	Concord . . . . .	48	68	68	85	95	97	98	102	101	98	90	80	68	102
NJ	Atlantic City . . . . .	46	78	75	87	94	99	106	104	102	99	90	84	75	106
NM	Albuquerque . . . . .	50	69	76	85	89	98	105	105	101	100	91	77	72	105
NY	Albany . . . . .	43	62	67	86	92	94	99	100	99	100	89	82	71	100
	Buffalo . . . . .	46	72	65	81	88	90	96	97	99	98	87	80	74	99
	New York <sup>1</sup> . . . . .	121	72	75	86	96	99	101	106	104	102	94	84	72	106
NC	Charlotte . . . . .	50	78	81	90	93	100	103	103	103	104	98	85	77	104
	Raleigh . . . . .	45	79	84	92	95	97	104	105	105	104	98	88	79	105
ND	Bismarck . . . . .	50	62	68	81	93	98	107	109	109	105	95	75	65	109
OH	Cincinnati . . . . .	28	69	73	84	89	93	102	103	102	98	88	81	75	103
	Cleveland . . . . .	48	73	69	83	88	92	104	103	102	101	90	82	77	104
	Columbus . . . . .	50	74	73	85	89	94	102	100	101	100	90	80	76	102
OK	Oklahoma City . . . . .	36	80	84	93	100	104	105	109	110	102	96	87	86	110
OR	Portland . . . . .	49	63	71	80	87	100	100	107	107	105	92	73	64	107
PA	Philadelphia . . . . .	48	74	74	87	94	96	100	104	101	100	96	81	72	104
	Pittsburgh . . . . .	37	69	69	82	88	91	98	103	100	97	87	82	74	103
RI	Providence . . . . .	36	66	72	80	98	94	97	100	104	100	86	78	70	104
SC	Columbia . . . . .	42	84	84	91	94	101	107	107	107	101	101	90	83	107
SD	Sioux Falls . . . . .	44	66	70	87	94	100	110	108	108	104	94	76	61	110
TN	Memphis . . . . .	48	78	81	85	94	99	104	108	105	103	95	85	81	108
	Nashville . . . . .	50	78	84	86	91	97	106	107	104	105	94	84	79	107
TX	Dallas-Fort Worth . . . . .	36	88	88	96	95	103	113	110	108	106	102	89	88	113
	El Paso . . . . .	50	80	83	89	98	104	111	112	108	104	96	87	80	112
	Houston . . . . .	20	84	91	91	95	95	103	104	107	102	94	89	83	107
UT	Salt Lake City . . . . .	61	62	69	78	85	93	104	107	104	100	89	75	67	107
VT	Burlington . . . . .	46	63	62	84	91	93	97	99	101	94	85	75	65	101
VA	Norfolk . . . . .	41	78	81	88	97	97	101	103	104	99	95	86	80	104
	Richmond . . . . .	60	80	83	93	96	100	104	105	102	103	99	86	80	105
WA	Seattle-Tacoma . . . . .	45	64	70	75	85	93	96	98	99	98	89	74	63	99
	Spokane . . . . .	42	59	61	71	90	96	100	103	108	98	86	67	56	108
WV	Charleston . . . . .	42	79	78	87	92	93	98	104	101	102	92	85	80	104
WI	Milwaukee . . . . .	49	62	65	82	91	92	101	101	103	98	89	77	63	103
WY	Cheyenne . . . . .	54	66	71	74	82	90	100	100	96	93	83	73	69	100
PR	San Juan . . . . .	35	92	96	96	97	96	97	95	97	97	98	96	94	98

<sup>1</sup> City office data.Source: U.S. National Oceanic and Atmospheric Administration, *Comparative Climatic Data*, annual.

## No. 378. Lowest Temperature of Record—Selected Cities

[In Fahrenheit degrees. Airport data, except as noted. For period of record through 1989]

STATE	STATION	Length of record (yr.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
AL	Mobile	48	3	11	21	32	43	49	60	59	42	32	22	8	3
AK	Juneau	45	-22	-22	-15	6	25	31	36	27	23	11	-5	-21	-22
AZ	Phoenix	52	17	22	25	32	40	50	61	60	47	34	25	22	17
AR	Little Rock	48	-4	5	11	28	40	46	54	52	37	29	17	-1	5
CA	Los Angeles	54	23	32	34	39	43	48	49	51	47	41	34	32	23
	Sacramento	38	23	23	26	32	36	41	48	49	43	36	26	20	20
	San Diego	49	29	36	39	41	48	51	55	57	51	43	38	34	29
	San Francisco	62	24	25	30	31	36	41	43	42	38	34	25	20	20
CO	Denver	55	-25	-30	-11	-2	22	30	43	41	17	3	-8	21	-30
CT	Hartford	35	-26	-21	-6	9	28	37	44	36	30	17	1	-14	-26
DE	Wilmington	42	-14	-6	2	18	30	41	48	43	36	24	14	7	-14
DC	Washington	48	-5	4	11	24	34	47	54	49	39	29	16	1	5
FL	Jacksonville	48	7	19	23	34	45	47	61	63	48	36	21	11	7
	Miami	47	30	32	32	46	53	60	69	68	68	51	39	30	30
GA	Atlanta	41	-8	5	10	26	37	46	53	55	36	28	3	-	8
HI	Honolulu	20	53	53	55	57	60	65	67	67	66	64	58	54	53
ID	Boise	50	-17	-15	6	19	22	31	35	37	23	11	-3	-23	-23
IL	Chicago	31	-27	-17	-8	7	24	36	40	41	28	17	1	-25	-27
	Peoria	50	-25	-18	-10	14	25	39	47	41	26	19	-2	-23	-25
IN	Indianapolis	50	-22	-21	-7	16	28	39	44	41	28	17	-2	-23	-23
IA	Des Moines	50	-24	-20	-22	9	30	38	47	40	26	14	-3	-22	-24
KS	Wichita	37	-12	-21	-2	15	31	43	51	48	31	21	1	-16	21
KY	Louisville	42	-20	-19	-1	22	31	42	50	46	33	23	-1	-15	-20
LA	New Orleans	43	14	19	25	32	41	50	60	60	42	35	24	11	11
ME	Portland	49	-26	-39	-21	8	23	33	40	33	23	15	3	-21	-39
MD	Baltimore	39	-7	-3	6	20	32	40	50	45	35	25	13	-	-7
MA	Boston	38	-12	-4	6	16	34	45	50	47	38	28	15	-7	-12
MI	Detroit	31	-21	-15	-4	10	25	36	41	38	29	17	9	-10	-21
	Sault Ste. Marie	49	-36	-35	-24	-2	18	26	36	29	25	16	-10	-25	-36
MN	Duluth	48	-39	-33	-29	-5	17	27	35	32	22	8	-23	-34	-39
	Minneapolis-St. Paul	51	-34	-28	-22	2	18	34	43	39	26	15	-17	-29	-34
MS	Jackson	26	2	11	15	27	38	47	51	55	35	29	17	4	2
MO	Kansas City	17	-17	-19	-10	12	30	43	52	43	33	21	1	-23	-23
	St. Louis	32	-18	-10	-5	22	31	43	51	47	36	23	1	-16	-18
MT	Great Falls	52	-37	-35	-29	-6	15	31	40	35	21	-9	-25	-43	-43
NE	Omaha	53	-23	-21	-16	5	27	38	44	43	25	13	-9	-23	-23
NV	Reno	48	-16	-16	-2	13	18	25	33	24	20	8	1	-16	-16
NH	Concord	48	-33	-37	-16	8	21	30	35	29	21	10	-5	-22	-37
NJ	Atlantic City	46	-10	-11	5	12	25	37	42	40	32	20	10	-7	-11
NM	Albuquerque	50	-17	-5	8	19	28	40	52	52	37	25	7	3	-17
NY	Albany	43	-28	-21	-21	10	26	36	40	34	24	16	5	-22	-28
	Buffalo	46	-16	-20	-7	12	26	35	43	38	32	20	9	-10	-20
	New York	121	-6	-15	3	12	32	44	52	50	39	28	5	-13	-15
NC	Charlotte	50	-5	5	4	24	32	45	53	53	39	24	11	2	-5
	Raleigh	45	-9	5	11	23	31	38	48	46	37	19	11	4	-9
ND	Bismarck	50	-44	-39	-31	-12	15	30	35	33	11	5	30	-43	-44
OH	Cincinnati	28	-25	-11	-11	17	27	39	47	43	33	16	1	-20	-25
	Cleveland	48	-19	-15	-5	10	25	31	41	38	32	19	3	-15	-19
	Columbus	50	-19	-13	-6	14	25	35	43	39	31	20	5	-17	-19
OK	Oklahoma City	36	-4	-3	3	20	37	47	53	51	36	22	11	-8	-8
OR	Portland	49	-2	-3	19	29	39	43	44	34	26	13	6	-3	-3
PA	Philadelphia	48	-7	4	7	19	28	44	51	44	35	25	15	1	-7
	Pittsburgh	37	-18	-12	-1	14	26	34	42	39	31	16	1	-12	-18
RI	Providence	36	-13	-7	1	14	29	41	48	40	33	20	6	-10	-13
SC	Columbia	42	-1	5	4	26	34	44	54	53	40	23	12	4	-1
SD	Sioux Falls	44	-36	-31	-23	5	17	33	38	34	22	9	-17	-26	-36
TN	Memphis	48	-4	-11	12	29	38	48	52	48	36	25	9	-13	-13
	Nashville	50	-17	-13	2	23	34	42	51	47	36	26	1	-10	-17
TX	Dallas-Fort Worth	36	4	7	15	29	41	51	59	56	43	29	20	-1	-1
	El Paso	50	-8	8	14	23	31	46	57	56	41	25	1	5	-8
	Houston	20	12	20	22	31	44	52	62	62	48	32	19	7	7
UT	Salt Lake City	61	-22	-30	2	14	25	35	40	37	27	16	-14	-21	-30
VT	Burlington	46	-30	-30	-20	2	24	35	39	35	25	15	-2	-26	-30
VA	Norfolk	60	-3	8	18	28	36	45	54	49	45	27	20	7	-3
	Richmond	41	-12	-10	11	23	31	40	51	46	35	21	10	1	-12
WA	Seattle-Tacoma	45	-	1	11	20	28	38	43	44	35	28	6	8	-
	Spokane	42	-22	-17	-7	17	24	33	37	35	24	11	-21	25	-25
WV	Charleston	42	-15	-6	-	19	26	33	46	41	34	17	6	-12	-15
WI	Milwaukee	49	-26	-19	-10	12	21	33	40	44	28	18	-5	20	-26
WY	Cheyenne	54	-29	-34	-21	-8	16	25	38	36	8	2	-14	-28	34
PR	San Juan	35	61	62	60	64	66	69	69	70	69	67	66	63	60

<sup>1</sup> City office data.Source: U.S. National Oceanic and Atmospheric Administration, *Comparative Climatic Data*, annual.

## No. 379. Normal Monthly and Annual Precipitation—Selected Cities

[In inches. Airport data, except as noted. Based on standard 30-year period, 1951 through 1980. See *Historical Statistics, Colonial Times to 1970*, series J 164-267, for related data]

STATE	STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
AL	Mobile	4.59	4.91	6.48	5.35	5.46	5.07	7.74	6.75	6.56	2.62	3.67	5.44	64.64
AK	Juneau	3.69	3.74	3.34	2.92	3.41	2.98	4.13	5.02	6.40	7.71	5.15	4.66	53.15
AZ	Phoenix	0.73	0.59	0.81	0.27	0.14	0.17	0.74	1.02	0.64	0.63	0.54	0.83	7.11
AR	Little Rock	3.91	3.83	4.69	5.41	5.29	3.67	3.63	3.07	4.26	2.84	4.37	4.23	49.20
CA	Los Angeles	3.06	2.49	1.76	0.93	0.14	0.04	0.01	0.10	0.15	0.26	1.52	1.62	12.08
	Sacramento	4.03	2.88	2.06	1.31	0.33	0.11	0.05	0.07	0.27	0.86	2.23	2.90	17.10
	San Diego	2.11	1.43	1.6	0.78	0.24	0.06	0.01	0.11	0.19	0.33	1.1	1.36	59.32
	San Francisco	4.65	3.23	2.64	1.53	0.32	0.11	0.03	0.05	0.19	1.06	2.35	3.55	19.71
CO	Denver	0.51	0.69	1.21	1.81	2.47	1.58	1.93	1.53	1.23	0.98	0.82	0.55	15.31
CT	Hartford	3.53	3.19	4.15	4.02	3.37	3.38	3.09	4.00	3.94	3.51	4.05	4.16	44.39
DE	Wilmington	3.11	2.99	3.87	3.39	3.23	3.51	3.90	4.03	3.59	2.89	3.33	3.54	41.38
DC	Washington	2.76	2.62	3.46	2.93	3.48	3.35	3.88	4.40	3.22	2.90	2.82	3.18	39.00
FL	Jacksonville	3.07	3.48	3.72	3.32	4.91	5.37	6.54	7.15	7.26	3.41	1.94	2.59	52.76
	Miami	2.08	2.05	1.89	3.07	6.53	9.15	5.98	7.02	8.07	7.14	2.71	1.86	57.55
GA	Atlanta	4.91	4.43	5.91	4.43	4.02	3.41	4.73	3.41	3.17	2.53	3.43	4.23	48.61
HI	Honolulu	3.79	2.72	3.48	1.49	1.21	0.49	0.54	0.60	0.62	1.88	3.22	3.43	23.47
ID	Boise	1.64	1.07	1.03	1.19	1.21	0.95	0.26	0.40	0.58	0.75	1.29	1.34	11.71
IL	Chicago	1.60	1.31	2.59	3.66	3.15	4.08	3.63	3.53	3.35	2.28	2.06	2.10	33.34
	Peoria	1.60	1.41	2.86	3.81	3.84	3.88	3.99	3.39	3.63	2.51	1.96	2.01	34.89
IN	Indianapolis	2.65	2.46	3.61	3.68	3.66	3.99	4.32	3.46	2.74	2.51	3.04	3.00	39.12
IA	Des Moines	1.01	1.12	2.20	3.21	3.96	4.18	3.22	4.11	3.09	2.16	1.52	1.05	30.83
KS	Wichita	0.68	0.85	2.01	2.30	3.91	4.06	3.62	2.80	3.45	2.47	1.47	0.99	28.61
KY	Louisville	3.38	3.23	4.73	4.11	4.15	3.60	4.10	3.31	3.35	2.63	3.49	3.48	43.56
LA	New Orleans	4.97	5.23	4.73	4.50	5.07	4.63	6.73	6.02	5.87	2.66	4.06	5.27	59.74
ME	Portland	3.78	3.57	3.98	3.90	3.27	3.06	2.83	2.82	3.27	3.83	4.70	4.51	43.52
MD	Baltimore	3.00	2.98	3.72	3.35	3.44	3.76	3.89	4.62	3.46	3.11	3.11	3.40	41.84
MA	Boston	3.99	3.70	4.13	3.73	3.52	2.92	2.68	3.68	3.41	3.36	4.21	4.48	43.81
MI	Detroit	1.86	1.69	2.54	3.15	2.77	3.43	3.10	3.21	2.25	2.12	2.33	2.52	30.97
	Sault Ste. Marie	2.20	1.69	2.03	2.38	2.90	3.26	3.00	3.46	3.90	2.89	3.20	2.57	39.48
MN	Duluth	1.20	0.90	1.78	2.16	3.15	3.96	3.96	4.12	3.26	2.21	1.69	1.29	23.68
	Minneapolis-St. Paul	0.82	0.85	1.71	2.05	3.20	4.07	3.51	3.64	2.50	1.85	1.29	0.87	26.36
MS	Jackson	5.00	4.48	5.86	5.85	4.83	2.94	4.40	3.71	3.55	2.62	4.18	5.40	52.82
MO	Kansas City	1.08	1.19	2.41	3.23	4.42	4.66	4.35	3.57	4.14	3.10	1.63	1.38	35.16
	St. Louis	1.72	2.14	3.28	3.55	3.54	3.73	3.63	2.55	2.70	2.32	2.53	2.22	33.91
MT	Great Falls	1.00	0.75	0.93	1.49	2.52	2.75	1.10	1.31	1.03	0.82	0.74	0.80	15.24
NE	Omaha	0.77	0.91	1.91	2.94	4.33	4.08	3.62	4.10	3.50	2.09	1.32	0.77	30.34
NV	Reno	1.24	0.95	0.74	0.46	0.74	0.34	0.30	0.27	0.30	0.34	0.60	1.21	7.49
NH	Concord	2.78	2.47	2.93	3.01	2.93	2.91	2.93	3.26	3.12	3.10	3.66	3.43	36.53
NJ	Atlantic City	3.47	3.34	4.04	3.20	3.07	2.78	4.02	4.72	2.89	3.06	3.73	3.61	41.93
NM	Albuquerque	0.41	0.40	0.52	0.40	0.46	0.51	1.30	1.51	0.85	0.86	0.38	0.52	8.12
NY	Albany	2.39	2.26	3.01	2.94	3.31	3.29	3.00	3.34	3.23	2.93	3.04	3.00	35.74
	Buffalo	3.02	2.40	2.97	3.06	2.89	2.72	2.96	4.16	3.37	2.93	3.62	3.42	37.52
	New York	3.21	3.13	4.22	3.75	3.76	3.23	3.77	4.03	3.66	3.41	4.14	3.81	44.12
NC	Charlotte	3.80	3.81	4.83	3.27	3.64	3.57	3.92	3.75	3.59	2.72	2.86	3.40	43.16
	Raleigh	3.55	3.43	3.69	2.91	3.67	3.66	4.38	4.44	3.29	2.73	2.87	3.14	41.76
ND	Bismarck	0.51	0.45	0.70	1.51	2.23	3.01	2.05	1.69	1.38	0.81	0.51	0.51	15.36
OH	Cincinnati	3.13	2.73	3.95	3.58	3.84	4.09	4.28	2.97	2.91	2.54	3.12	3.00	40.14
	Cleveland	2.47	2.20	2.99	3.32	3.30	3.49	3.37	3.38	2.92	2.45	2.76	2.75	35.40
	Columbus	2.75	2.18	3.23	3.41	3.76	4.01	4.01	3.70	2.76	1.91	2.64	2.61	36.97
OK	Oklahoma City	0.96	1.29	2.07	2.91	5.50	3.87	3.04	2.40	3.41	2.71	1.53	1.20	30.89
OR	Portland	6.16	3.93	3.61	2.31	2.08	1.47	0.46	1.13	1.61	3.05	5.17	6.41	37.39
PA	Philadelphia	3.18	2.81	3.86	3.47	3.18	3.92	3.88	4.10	3.42	2.83	3.32	3.45	41.42
	Pittsburgh	2.86	2.40	3.58	3.28	3.54	3.30	3.83	3.31	2.80	2.49	2.34	2.57	36.30
RI	Providence	4.06	3.72	4.29	3.95	3.48	2.79	3.01	4.04	3.54	3.75	4.22	4.47	45.32
SC	Columbia	4.38	3.99	5.16	3.59	3.85	4.45	5.35	5.56	4.23	2.55	2.51	3.50	49.12
SD	Sioux Falls	0.50	0.93	1.58	2.36	3.21	3.70	2.71	3.13	2.79	1.57	0.92	0.72	24.12
TN	Memphis	4.61	4.33	5.44	5.77	5.06	3.58	4.03	3.74	3.62	2.37	4.17	4.65	51.57
	Nashville	4.49	4.03	5.58	4.47	4.56	3.70	3.82	3.40	3.71	2.58	3.52	4.63	48.49
TX	Dallas-Fort Worth	1.65	1.93	2.42	3.63	4.27	2.59	2.00	1.76	3.31	2.47	1.76	1.67	29.46
	El Paso	0.38	0.45	0.32	0.19	0.24	0.56	1.60	1.21	1.42	0.73	0.33	0.39	7.82
	Houston	3.21	3.25	2.68	4.24	4.69	4.06	3.33	3.66	4.93	3.67	3.38	3.66	44.76
UT	Salt Lake City	1.35	1.33	1.72	2.21	1.47	0.97	0.72	0.92	0.89	1.14	1.22	1.37	15.31
VT	Norburyton	1.65	1.73	2.20	2.77	2.96	3.64	3.43	3.87	3.20	2.81	2.80	2.43	33.69
VA	Norfolk	3.72	3.28	3.86	2.87	3.75	3.45	5.15	5.33	4.35	3.41	2.88	3.17	45.22
	Richmond	3.23	3.13	3.57	2.90	3.55	3.60	5.14	5.01	3.52	3.74	3.29	3.39	44.07
WA	Seattle-Tacoma	6.04	4.22	3.59	2.40	1.58	1.38	0.74	1.27	2.02	3.43	5.60	6.33	38.60
	Spokane	2.47	1.61	1.36	1.08	1.38	1.23	0.50	0.74	0.71	1.06	2.06	2.29	16.71
WV	Charleston	3.48	3.11	4.00	3.52	3.68	3.32	5.36	4.15	3.01	2.63	2.90	3.27	42.43
WI	Milwaukee	1.64	1.33	2.58	3.37	2.66	3.59	3.54	3.09	2.88	2.25	1.98	2.03	30.94
WY	Cheyenne	0.41	0.40	0.97	1.24	2.39	2.00	1.87	1.39	1.06	0.68	0.53	0.37	13.31
PR	San Juan	3.01	2.02	2.31	3.62	5.64	4.66	4.87	5.93	5.99	5.89	5.59	4.46	53.99

<sup>1</sup> City office data.

Source: U.S. National Oceanic and Atmospheric Administration, *Climatology of the United States*, No. 81, Sept. 1982.



### No. 380. Average Number of Days With Precipitation of .01 Inch or More—Selected Cities

[Airport data, except as noted. For period of record through 1989, except as noted]

STATE	STATION	Length of record (yr.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
AL	Mobile	48	11	10	11	7	8	11	16	14	10	6	8	10	122
AK	Juneau	45	18	17	18	17	17	16	17	18	20	24	20	21	220
AZ	Phoenix	50	4	4	3	2	1	1	4	5	3	3	4	4	36
AR	Little Rock	47	9	9	10	10	10	8	7	7	7	8	9	10	104
CA	Los Angeles	54	6	6	6	3	1	1	1	(Z)	1	2	4	5	35
	Sacramento	50	10	9	9	5	3	1	(Z)	(Z)	1	3	7	9	58
	San Diego	49	7	6	7	5	2	1	(Z)	(Z)	1	2	5	6	42
	San Francisco	62	11	10	10	6	3	1	(Z)	(Z)	1	4	7	10	62
CO	Denver	55	6	6	9	9	11	9	9	9	6	5	5	5	88
CT	Hartford	35	11	10	11	11	12	11	10	10	9	8	11	12	127
DE	Wilmington	42	11	10	11	11	12	10	9	9	8	8	10	10	116
DC	Washington	48	10	9	11	10	11	9	10	9	8	7	8	9	112
FL	Jacksonville	48	8	8	8	6	8	12	15	14	13	9	6	8	115
	Miami	47	7	6	6	6	10	15	16	17	17	14	8	6	129
GA	Atlanta	55	11	10	11	9	9	10	12	9	8	6	9	10	115
HI	Honolulu	40	10	9	9	9	7	6	7	6	7	9	9	10	99
ID	Boise	50	12	10	10	8	8	6	2	3	4	6	10	11	90
IL	Chicago	31	11	10	12	12	11	10	10	9	10	9	11	11	126
	Peoria	50	9	8	11	12	11	10	9	8	9	8	9	10	113
IN	Indianapolis	50	12	10	13	12	12	10	9	9	8	8	10	12	125
IA	Des Moines	50	7	7	10	10	11	11	9	9	9	8	7	8	106
KS	Wichita	36	5	5	8	8	11	9	7	8	8	6	5	6	86
KY	Louisville	42	11	11	13	12	12	10	11	8	8	8	10	11	124
LA	New Orleans	41	10	9	9	7	8	11	15	13	10	6	7	10	114
ME	Portland	49	11	10	11	12	13	11	10	10	8	9	12	11	128
MD	Baltimore	39	10	9	11	11	11	9	9	10	7	7	9	9	113
MA	Boston	38	11	10	12	11	12	11	9	10	9	9	11	12	126
MI	Detroit	31	13	11	13	12	11	10	9	9	10	10	12	14	135
	Sault Ste. Marie	48	19	15	13	11	11	11	10	11	13	13	18	20	166
MN	Duluth	48	12	10	11	10	12	13	11	12	12	10	11	12	134
	Minneapolis-St. Paul	51	9	7	10	10	11	12	10	10	10	8	8	9	114
MS	Jackson	26	11	9	10	8	9	8	10	10	8	6	8	10	109
MO	Kansas City	17	7	7	10	10	11	10	7	9	8	8	7	10	104
	St. Louis	32	8	8	11	11	11	9	9	8	8	8	9	9	110
MT	Great Falls	52	9	8	9	9	11	12	7	8	7	6	7	8	101
NE	Omaha	53	6	7	9	10	12	10	9	9	8	7	6	6	98
NV	Reno	47	6	6	6	4	4	3	2	2	2	3	5	6	51
NH	Concord	48	11	10	11	12	12	11	10	10	9	9	12	11	125
NJ	Atlantic City	46	11	10	11	11	10	9	9	9	8	7	9	10	112
NM	Albuquerque	50	4	4	5	3	4	4	9	9	6	5	3	4	60
NY	Albany	43	12	10	12	12	13	11	10	10	10	9	12	12	134
	Buffalo	46	20	17	16	14	12	11	10	11	11	12	16	20	169
	New York	120	11	10	11	11	11	10	11	10	8	8	9	10	121
NC	Charlotte	50	10	10	11	9	10	10	11	10	7	7	8	9	111
	Raleigh	45	10	10	10	9	10	9	11	10	8	7	8	9	112
ND	Bismarck	50	8	7	8	8	10	12	9	9	7	6	6	8	96
OH	Cincinnati	42	12	11	13	12	11	11	10	9	8	8	11	12	129
	Cleveland	48	16	14	15	14	13	11	10	10	10	11	15	16	156
	Columbus	50	13	11	14	13	13	11	11	9	8	9	12	13	137
OK	Oklahoma City	50	5	6	7	8	10	9	6	6	7	6	5	5	82
OR	Portland	49	18	16	17	14	12	9	4	5	8	12	18	19	152
PA	Philadelphia	49	11	9	11	11	11	10	9	9	8	8	10	10	117
	Pittsburgh	37	16	14	16	14	13	12	11	10	9	11	13	16	154
RI	Providence	36	11	10	12	11	11	11	9	10	8	8	11	12	124
SC	Columbia	42	10	10	11	8	9	10	12	11	8	6	7	9	109
SD	Sioix Falls	44	6	6	9	9	11	11	9	9	8	6	6	6	97
TN	Memphis	39	10	10	11	10	9	8	9	8	7	6	9	10	106
	Nashville	48	11	11	12	11	11	9	10	9	8	7	10	11	119
TX	Dallas-Fort Worth	36	7	7	7	8	9	6	5	5	7	6	6	6	78
	El Paso	50	4	3	2	2	2	3	8	5	4	3	4	4	48
UT	Houston	20	10	8	9	7	8	9	9	9	9	8	9	9	105
	Salt Lake City	61	10	9	10	9	8	5	5	6	5	6	8	9	90
VT	Burlington	46	14	11	13	12	14	13	12	12	12	14	15	15	154
VA	Norfolk	41	10	10	11	10	10	9	11	10	8	8	8	9	115
	Richmond	52	10	9	11	9	11	10	11	10	8	7	8	9	113
WA	Seattle-Tacoma	45	19	16	17	14	10	9	5	6	9	13	18	19	156
	Spokane	42	14	11	12	9	9	8	4	5	6	8	13	15	113
WV	Charleston	42	15	14	15	14	13	11	13	11	9	10	12	14	151
WI	Milwaukee	49	11	10	12	12	12	11	9	9	9	9	10	11	125
WY	Cheyenne	54	6	6	9	9	12	11	11	10	7	6	6	6	99
PR	San Juan	34	17	13	12	13	17	15	19	19	17	17	18	19	196

Z Less than 1/2 day. <sup>1</sup> For period of record through 1988. City office data.

Source: U.S. National Oceanic and Atmospheric Administration, *Comparative Climatic Data*, annual.

## No. 381. Snow and Ice Pellets—Selected Cities

[In inches. Airport data, except as noted. For period of record through 1989. T denotes trace]

STATE	STATION	Length of record (yr.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
AL	Mobile . . . . .	48	0.1	0.2	-	T	-	-	T	-	-	-	-	0.1	0.4
AK	Juneau . . . . .	45	25.7	18.3	15.9	3.8	-	T	-	-	T	1.0	11.5	22.0	98.2
AZ	Phoenix . . . . .	52	T	0.0	T	T	-	-	-	-	-	-	0.0	0.0	T
AR	Little Rock . . . . .	47	2.5	1.5	0.6	T	-	-	-	-	-	-	0.2	0.7	5.5
CA	Los Angeles . . . . .	54	T	T	-	-	-	-	-	-	-	-	-	T	T
	Sacramento . . . . .	41	T	-	T	-	-	-	-	-	-	-	-	T	T
	San Diego . . . . .	49	T	-	T	-	-	-	-	-	-	-	-	T	T
	San Francisco . . . . .	62	T	T	T	-	-	-	-	-	-	-	-	T	T
CO	Denver . . . . .	55	7.9	7.5	12.6	9.1	1.7	-	-	-	1.7	3.7	8.1	7.5	59.8
CT	Hartford . . . . .	35	12.4	11.7	9.7	1.6	-	-	-	-	-	0.1	2.2	10.7	48.4
DE	Wilmington . . . . .	42	7.0	6.3	3.2	0.2	T	-	-	-	-	0.1	1.0	3.4	21.2
DC	Washington . . . . .	46	5.6	5.6	2.1	-	T	-	-	-	-	-	0.9	3.2	17.4
FL	Jacksonville . . . . .	48	T	-	-	-	-	-	-	-	-	-	-	-	T
	Miami . . . . .	47	-	-	-	-	-	-	-	-	-	-	-	-	-
GA	Atlanta . . . . .	55	0.9	0.5	0.4	T	-	-	-	-	-	-	0.0	0.2	2.0
HI	Honolulu . . . . .	43	-	-	-	-	-	-	-	-	-	-	-	-	-
ID	Boise . . . . .	50	6.9	3.5	1.8	0.7	0.1	T	T	T	0.1	2.2	5.8	21.1	-
IL	Chicago . . . . .	31	10.9	8.3	6.8	1.8	0.1	-	-	T	T	0.5	2.1	8.8	39.3
	Peoria . . . . .	46	6.5	5.4	4.2	0.9	-	-	-	-	-	0.1	2.1	6.1	25.3
IN	Indianapolis . . . . .	58	6.2	5.8	3.5	0.5	-	-	-	T	-	0.2	1.9	4.9	23.0
IA	Des Moines . . . . .	50	8.1	7.3	6.6	2.0	-	-	-	-	T	0.3	2.8	6.8	33.9
KS	Wichita . . . . .	36	4.8	4.4	2.6	0.3	T	T	-	-	-	-	1.3	3.4	16.8
KY	Louisville . . . . .	42	5.5	4.5	3.3	0.1	-	-	-	-	-	-	1.1	2.1	16.6
LA	New Orleans . . . . .	43	-	0.1	T	-	T	-	-	-	-	-	T	0.1	0.2
ME	Portland . . . . .	49	19.4	17.3	12.6	2.9	-	-	-	-	T	0.2	3.2	14.9	70.7
MD	Baltimore . . . . .	39	6.3	6.9	3.7	0.1	T	-	-	-	-	-	1.1	3.6	21.7
MA	Boston . . . . .	54	12.3	11.3	7.4	0.9	-	-	-	-	-	-	1.4	7.5	40.8
MI	Detroit . . . . .	31	10.1	9.0	6.7	1.7	T	-	-	-	-	0.2	3.2	10.6	41.5
	Sault Ste. Marie . . . . .	48	28.5	19.1	15.3	5.3	0.5	T	-	T	0.1	2.3	15.3	30.0	116.4
MN	Duluth . . . . .	46	17.1	11.2	13.8	6.5	0.7	-	-	-	-	1.2	11.1	15.5	77.1
	Minneapolis-St. Paul . . . . .	51	10.0	8.4	11.0	3.0	0.1	T	-	-	-	0.4	7.1	9.4	49.4
MS	Jackson . . . . .	26	0.6	0.2	0.2	-	-	-	-	-	-	-	-	-	1.0
MO	Kansas City . . . . .	55	5.7	4.5	3.6	0.7	T	T	-	-	-	-	1.0	4.6	20.1
	St. Louis . . . . .	53	5.4	4.5	4.3	0.4	T	-	-	-	-	T	1.4	3.8	19.8
MT	Great Falls . . . . .	52	10.0	8.6	10.3	7.4	1.8	0.3	T	T	1.6	3.2	7.5	9.0	59.7
NE	Omaha . . . . .	54	7.4	6.8	6.6	0.8	0.1	-	-	-	T	0.3	2.5	5.6	30.1
NV	Reno . . . . .	47	5.9	4.9	4.6	1.3	0.9	-	-	-	-	0.4	2.2	4.4	24.6
NH	Concord . . . . .	48	18.0	14.6	10.8	2.3	0.1	-	-	-	-	0.1	4.1	13.8	63.8
NJ	Atlantic City . . . . .	45	5.5	5.7	2.7	0.3	T	-	-	-	-	-	0.5	2.3	17.0
NM	Albuquerque . . . . .	50	2.5	2.2	1.9	0.6	-	-	-	-	T	0.1	1.1	2.5	10.9
NY	Albany . . . . .	43	16.4	14.1	11.0	2.8	0.1	T	T	-	T	0.2	4.4	15.3	64.3
	Buffalo . . . . .	46	24.0	18.3	11.3	3.1	0.3	T	-	-	T	0.2	11.6	22.9	91.7
	New York . . . . .	121	7.7	8.5	5.0	0.9	T	-	-	-	-	-	0.9	5.5	28.5
NC	Charlotte . . . . .	50	2.2	1.8	1.3	-	-	-	-	-	-	-	0.1	0.5	5.9
	Raleigh . . . . .	45	2.4	2.8	1.4	-	-	-	-	-	-	-	0.1	0.8	7.5
ND	Bismarck . . . . .	50	7.3	6.7	8.4	3.8	0.8	T	-	T	0.3	1.2	5.9	6.8	41.2
OH	Cincinnati . . . . .	42	7.1	5.4	4.3	0.5	-	-	-	-	-	0.2	2.2	3.9	23.6
	Cleveland . . . . .	48	12.4	11.8	10.4	2.3	0.1	-	-	-	T	0.7	5.2	12.0	54.9
	Columbus . . . . .	42	8.4	6.2	4.5	1.0	-	-	-	-	T	-	2.4	5.7	28.2
OK	Oklahoma City . . . . .	50	3.2	2.6	1.5	-	T	-	-	-	-	T	0.5	1.7	9.5
OR	Portland . . . . .	49	3.5	0.8	0.5	T	-	T	-	T	T	-	0.5	1.4	6.7
PA	Philadelphia . . . . .	47	6.7	6.7	3.7	0.3	T	-	-	-	-	-	0.7	3.5	21.6
	Pittsburgh . . . . .	37	11.7	9.6	8.3	1.7	0.1	-	-	-	T	-	3.5	8.3	43.4
RI	Providence . . . . .	36	9.8	9.7	7.3	0.7	0.2	-	-	-	-	0.1	1.1	7.1	36.0
SC	Columbia . . . . .	42	0.5	0.9	0.3	-	-	-	-	-	-	-	T	0.2	1.9
SD	Sioux Falls . . . . .	44	6.6	8.0	9.9	2.3	-	-	-	-	-	0.5	5.1	7.4	39.8
TN	Memphis . . . . .	39	2.5	1.5	0.9	T	T	-	-	-	-	T	0.1	0.7	5.7
	Nashville . . . . .	48	4.1	3.2	1.5	-	-	-	-	T	-	T	0.5	1.6	10.9
TX	Dallas-Fort Worth . . . . .	36	1.3	1.1	0.2	-	T	-	-	-	-	-	0.1	0.3	3.0
	El Paso . . . . .	50	1.3	0.9	0.4	0.4	T	-	-	-	-	-	0.9	1.8	5.7
	Houston . . . . .	55	0.2	0.2	0.0	0.0	-	-	-	-	-	-	T	0.0	0.4
UT	Salt Lake City . . . . .	61	13.1	9.6	9.8	5.0	1	T	-	-	0.1	1.3	6.4	12.0	57.9
VT	Burlington . . . . .	46	18.9	16.5	12.0	3.7	0.2	-	T	-	T	0.2	6.8	18.9	77.1
VA	Norfolk . . . . .	41	2.9	3.1	1.1	-	-	-	-	-	-	-	-	0.9	8.0
	Richmond . . . . .	52	5.2	4.3	2.5	0.1	T	-	-	-	-	T	0.4	2.1	14.6
WA	Seattle-Tacoma . . . . .	45	5.4	1.5	1.5	0.1	T	-	T	-	T	-	1.3	2.5	12.3
	Spokane . . . . .	42	16.5	7.6	4.1	0.6	0.1	T	-	-	-	0.4	6.3	15.1	50.7
WV	Charleston . . . . .	42	10.5	9.0	4.6	0.9	-	-	-	T	T	0.1	2.3	5.1	32.5
WI	Milwaukee . . . . .	49	12.8	9.7	8.9	1.8	-	-	T	T	T	0.2	3.0	10.5	46.9
WY	Cheyenne . . . . .	54	6.2	5.8	11.9	9.1	3.5	0.3	T	T	0.8	3.5	6.8	6.2	54.1
PR	San Juan . . . . .	34	-	-	-	-	-	-	-	-	-	-	-	-	-

<sup>1</sup> City office data.Source: U.S. National Oceanic and Atmospheric Administration, *Comparative Climatic Data*, annual.

**No. 382. Sunshine, Average Wind Speed, Mean Number of Days Minimum Temperature Below 32 Degrees Fahrenheit, and Average Relative Humidity—Selected Cities**

[Airport data, except as noted. For period of record through 1989, except as noted. M—morning, A—afternoon]

STATE	STATION	AVERAGE PERCENTAGE OF POSSIBLE SUNSHINE		AVERAGE WIND SPEED (m.p.h.)				MINIMUM TEMPERATURE 32 DEGREES OR LESS		AVERAGE RELATIVE HUMIDITY (percent)						
		Length of record (yr.)	Annual	Length of record (yr.)	Annual	Jan.	July	Length of record (yr.)	Mean number (days)	Length of record (yr.)	Annual		Jan.		July	
											M	A	M	A	M	A
AL	Mobile	139	159	41	9.0	10.4	7.0	27	23	27	86	57	81	60	89	60
AK	Juneau	233	230	44	8.3	8.3	7.5	45	142	23	84	73	79	76	83	70
AZ	Phoenix	94	85	44	6.3	5.3	7.2	29	8	29	51	23	67	32	45	20
AR	Little Rock	32	62	47	7.9	8.6	6.7	29	61	29	84	57	80	61	88	57
CA	Los Angeles	332	373	41	7.5	6.7	7.8	30	(2)	30	79	64	69	59	86	68
	Sacramento	41	77	40	8.0	7.2	9.0	39	16	29	83	46	90	71	76	28
	San Diego	49	68	49	6.9	5.9	7.3	29	(2)	29	76	62	70	56	82	66
	San Francisco	438	466	62	10.6	7.1	13.6	30	2	30	84	62	86	66	86	59
CO	Denver	40	70	41	8.7	8.7	8.3	29	157	29	67	40	63	49	68	34
CT	Hartford	35	57	35	8.5	9.0	7.5	30	136	30	76	52	71	56	78	51
DE	Wilmington	539	557	41	9.1	9.9	7.7	42	101	42	78	55	75	60	79	54
DC	Washington	41	56	41	9.3	10.0	8.2	29	71	29	74	53	69	55	76	53
FL	Jacksonville	38	62	40	8.0	8.2	7.1	48	15	53	88	56	87	57	88	58
	Miami	13	73	40	9.3	9.5	8.0	25	(2)	25	84	61	84	59	84	63
GA	Atlanta	54	61	51	9.1	10.5	7.6	29	55	29	82	56	78	59	88	60
HI	Honolulu	37	68	40	11.4	9.6	13.3	20		20	72	56	81	62	67	51
ID	Boise	47	64	50	8.8	8.0	8.4	50	124	50	69	43	80	71	54	22
IL	Chicago	9	55	31	10.3	11.6	8.1	31	133	31	80	60	76	67	82	57
	Peoria	46	56	46	10.1	11.2	7.8	30	129	30	83	61	78	68	86	59
IN	Indianapolis	45	55	41	9.6	10.9	7.4	30	119	30	83	62	80	70	87	60
IA	Des Moines	39	59	40	10.9	11.8	9.0	28	135	28	79	60	75	67	82	57
KS	Wichita	36	65	36	12.3	12.2	11.2	36	112	36	80	55	79	63	78	48
KY	Louisville	42	56	42	8.3	9.7	6.7	29	90	29	81	59	76	64	85	58
LA	New Orleans	16	60	41	8.2	9.4	6.1	43	13	41	87	63	85	66	91	66
ME	Portland	49	57	49	8.8	9.2	7.6	49	158	49	79	59	76	61	80	59
MD	Baltimore	39	57	39	9.2	9.8	7.9	39	98	36	77	54	71	57	81	53
MA	Boston	54	58	32	12.5	13.9	11.0	25	99	25	72	58	66	57	74	56
MI	Detroit	24	53	31	10.3	11.9	8.4	31	137	31	81	60	79	69	82	53
	Sault Ste. Marie	48	47	48	9.3	9.8	7.8	48	181	48	85	67	81	75	89	61
MN	Duluth	39	52	40	11.1	11.7	9.5	28	185	28	80	63	76	70	84	59
	Minneapolis-St. Paul	51	58	51	10.6	10.5	9.4	30	156	30	78	59	73	67	80	53
MS	Jackson	25	60	26	7.4	8.6	6.0	26	51	26	91	58	87	64	93	59
MO	Kansas City	17	62	17	10.7	11.4	9.3	17	110	17	81	60	75	63	84	56
	St. Louis	30	57	40	9.7	10.6	7.9	29	102	29	83	59	82	66	85	56
MT	Great Falls	45	61	48	12.8	15.2	10.2	28	157	28	66	45	66	60	65	29
NE	Omaha	53	60	53	10.6	10.9	8.9	25	141	25	81	59	77	65	84	57
NV	Reno	41	79	47	6.5	5.6	7.0	26	175	26	70	32	79	51	63	18
NH	Concord	48	54	47	6.7	7.3	5.7	24	174	24	81	54	75	58	84	52
NJ	Atlantic City	29	55	31	10.1	11.1	8.5	25	110	25	81	56	77	58	83	57
NM	Albuquerque	50	76	50	9.0	8.1	9.1	29	119	29	60	29	70	40	60	27
NY	Albany	51	52	51	8.9	9.8	7.4	24	150	24	80	57	77	63	81	55
	Buffalo	46	49	50	12.0	14.3	10.3	29	133	29	80	63	79	72	78	55
	New York	103	58	58	9.4	10.7	7.6	76	80	61	72	56	68	60	75	55
NC	Charlotte	39	63	40	7.4	7.9	6.5	29	68	29	83	54	78	56	87	57
	Raleigh	35	59	40	7.8	8.5	6.6	25	80	25	85	54	78	55	89	58
ND	Bismarck	50	59	50	10.2	10.0	9.2	30	186	30	80	57	74	68	83	47
OH	Cincinnati	6	53	42	9.1	10.7	7.1	27	109	27	81	59	78	67	85	57
	Cleveland	46	49	48	10.6	12.3	8.6	29	124	29	79	62	77	69	81	57
	Columbus	38	50	40	8.5	10.1	6.7	30	119	30	80	59	76	67	84	56
OK	Oklahoma City	35	68	41	12.4	12.8	10.9	24	78	24	79	54	78	59	80	49
OR	Portland	40	48	41	7.9	9.9	7.6	49	43	49	86	60	86	75	82	45
PA	Philadelphia	47	56	49	9.5	10.3	8.0	30	98	30	76	55	73	59	79	54
	Pittsburgh	37	46	37	9.1	10.6	7.2	30	124	29	78	57	75	65	82	53
RI	Providence	36	58	36	10.6	11.2	9.5	26	119	26	75	54	70	56	77	56
SC	Columbia	36	64	41	6.9	7.2	6.3	23	62	23	87	51	82	54	89	54
SD	Sioux Falls	747	762	41	11.1	11.1	9.8	26	168	26	81	60	76	67	82	53
TN	Memphis	35	64	41	8.9	10.1	7.5	48	57	50	81	57	78	63	84	57
	Nashville	47	56	48	8.0	9.2	6.5	24	77	24	84	57	79	63	90	57
TX	Dallas-Fort Worth	11	64	36	10.9	11.2	9.6	26	41	26	82	56	79	60	80	48
	El Paso	47	83	47	8.9	8.4	8.3	29	65	29	57	27	65	35	62	29
	Houston	20	56	20	7.9	8.2	6.9	20	22	20	90	59	85	64	93	58
UT	Salt Lake City	51	66	60	8.8	7.6	9.5	30	125	30	67	43	79	69	52	22
VT	Burlington	46	49	46	8.9	9.7	7.9	25	126	24	77	59	71	63	78	53
VA	Norfolk	25	81	41	10.7	11.6	8.9	41	55	41	78	57	74	59	82	59
	Richmond	39	62	41	7.6	8.1	6.8	60	85	55	83	53	80	57	85	56
WA	Seattle-Tacoma	23	46	41	9.0	9.7	8.3	30	31	30	83	62	81	74	81	49
	Spokane	41	54	42	8.9	8.7	8.6	30	139	30	77	52	85	79	63	27
WV	Charleston	883	849	40	6.4	7.6	5.1	42	100	42	82	56	77	62	90	60
WI	Milwaukee	49	54	49	11.6	12.7	9.6	29	142	29	80	64	75	68	82	61
WY	Cheyenne	50	65	32	12.9	15.3	10.4	30	171	30	65	44	57	50	69	38
PR	San Juan	34	66	34	8.4	8.5	9.6	34	-	34	79	65	81	64	79	67

- Represents zero. Z Less than one-half a day. <sup>1</sup> Recording site is in Montgomery, AL. <sup>2</sup> For period of record through 1984. <sup>3</sup> For period of record through 1976. <sup>4</sup> For period of record through 1973. <sup>5</sup> For period of record through 1978. <sup>6</sup> city office data. <sup>7</sup> Recording site is in Rapid City, SD. <sup>8</sup> Recording site is in Parkersburg, WV.

Source: U.S. National Oceanic and Atmospheric Administration, *Comparative Climatic Data*, annual.

### No. 383. Normal Monthly and Seasonal Heating Degree Days, 65 Degree Base—Selected Cities

[Airport data, except as noted. Based on standard 30-year period, 1951 through 1980. For definition of "degree day," see text, section 6]

STATE	STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Seasonal
AL	Mobile . . . . .	469	342	191	43	-	-	-	-	-	50	218	382	1,695
AK	Juneau . . . . .	1,339	1,042	1,048	777	574	369	288	322	474	719	969	1,184	9,105
AZ	Phoenix . . . . .	394	269	187	52	-	-	-	-	-	13	159	368	1,442
AR	Little Rock . . . . .	778	585	417	124	18	-	-	-	8	132	414	676	3,152
CA	Los Angeles . . . . .	286	233	240	180	106	54	17	12	18	55	139	255	1,595
	Sacramento . . . . .	611	412	366	229	83	21	-	-	7	82	360	601	2,772
	San Diego . . . . .	258	196	193	124	71	40	5	-	7	32	118	240	1,284
	San Francisco . . . . .	512	375	378	306	226	139	103	89	80	148	315	490	3,011
CO	Denver . . . . .	1,101	879	837	528	253	74	-	-	135	414	789	1,004	6,014
CT	Hartford . . . . .	1,234	1,047	874	486	197	20	-	8	102	391	702	1,113	6,174
DE	Wilmington . . . . .	1,048	890	719	378	130	6	-	-	36	282	582	915	4,966
DC	Washington . . . . .	924	770	595	257	68	-	-	-	13	197	489	809	4,122
FL	Jacksonville . . . . .	396	302	166	21	-	-	-	-	-	21	164	332	1,402
	Miami . . . . .	76	62	14	-	-	-	-	-	-	-	5	42	199
GA	Atlanta . . . . .	716	563	400	133	37	5	-	-	7	130	394	636	3,021
HI	Honolulu . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-
ID	Boise . . . . .	1,088	809	732	492	253	83	-	23	134	406	759	1,023	5,802
IL	Chicago . . . . .	1,352	1,092	899	486	224	38	-	9	75	368	756	1,156	6,455
	Peoria . . . . .	1,349	1,070	859	411	176	22	-	5	64	361	756	1,153	6,226
IN	Indianapolis . . . . .	1,209	983	775	382	158	15	-	-	63	330	696	1,039	5,650
IA	Des Moines . . . . .	1,438	1,134	927	435	156	17	-	-	80	357	792	1,218	6,554
KS	Wichita . . . . .	1,097	837	656	275	89	7	-	-	37	219	621	949	4,787
KY	Louisville . . . . .	1,008	815	624	264	98	5	-	-	32	250	567	862	4,525
LA	New Orleans . . . . .	423	318	171	25	-	-	-	-	-	31	186	336	1,490
ME	Portland . . . . .	1,349	1,176	1,020	666	378	107	22	54	201	515	798	1,215	7,501
MD	Baltimore . . . . .	1,001	848	673	334	115	-	-	-	29	261	561	884	4,706
MA	Boston . . . . .	1,097	960	825	489	218	25	-	6	80	329	594	970	5,593
MI	Detroit . . . . .	1,290	1,099	930	528	247	36	5	12	106	414	765	1,132	6,563
	Sault Ste. Marie . . . . .	1,603	1,420	1,274	807	480	210	101	123	306	611	966	1,404	9,305
MN	Duluth . . . . .	1,820	1,484	1,305	801	456	179	71	115	334	645	1,104	1,587	9,901
	Minneapolis-St. Paul . . . . .	1,668	1,330	1,110	570	238	41	12	16	160	488	954	1,420	8,007
MS	Jackson . . . . .	611	482	303	77	9	-	-	-	-	98	316	513	2,389
MO	Kansas City . . . . .	1,212	921	729	314	112	12	-	-	42	258	657	1,026	5,283
	St. Louis . . . . .	1,122	874	676	279	110	12	-	-	40	258	612	955	4,938
MT	Great Falls . . . . .	1,435	1,072	1,042	669	369	141	20	66	268	536	930	1,218	7,766
NE	Omaha . . . . .	1,389	1,058	859	390	130	16	-	-	73	342	765	1,172	6,194
NV	Reno . . . . .	1,017	773	756	558	333	124	16	59	171	456	759	1,008	6,030
NH	Concord . . . . .	1,398	1,198	1,020	627	314	67	20	39	191	521	831	1,256	7,482
NJ	Atlantic City . . . . .	1,029	890	744	420	165	26	-	-	27	298	582	905	5,086
NM	Albuquerque . . . . .	936	717	583	302	81	-	-	-	12	242	630	911	4,414
NY	Albany . . . . .	1,361	1,165	973	552	252	38	7	15	149	450	771	1,194	6,927
	Buffalo . . . . .	1,287	1,134	992	588	294	53	9	25	130	423	741	1,122	6,798
	New York . . . . .	1,029	885	732	378	134	7	-	-	36	240	534	893	4,868
NC	Charlotte . . . . .	760	619	459	155	50	-	-	-	10	166	429	694	3,342
	Raleigh . . . . .	787	655	496	181	53	-	-	-	9	187	450	713	3,531
ND	Bismarck . . . . .	1,807	1,414	1,209	675	324	100	18	57	255	586	1,092	1,538	9,075
OH	Cincinnati . . . . .	1,119	921	719	350	143	12	-	-	52	316	648	967	5,247
	Cleveland . . . . .	1,225	1,053	880	507	244	33	8	11	99	371	696	1,051	6,178
	Columbus . . . . .	1,175	986	775	408	178	19	-	5	78	355	687	1,020	5,686
OK	Oklahoma City . . . . .	902	678	506	184	41	-	-	-	15	145	486	778	3,735
OR	Portland . . . . .	809	610	592	438	263	118	35	51	111	332	585	747	4,691
PA	Philadelphia . . . . .	1,048	893	719	363	127	-	-	-	33	273	576	915	4,947
	Pittsburgh . . . . .	1,187	1,014	822	447	201	28	-	13	101	393	702	1,042	5,950
RI	Providence . . . . .	1,141	1,000	856	513	239	31	-	6	94	366	648	1,014	5,908
SC	Columbia . . . . .	637	508	346	87	22	-	-	-	-	123	339	567	2,629
SD	Sioux Falls . . . . .	1,631	1,285	1,073	561	240	52	14	15	161	489	960	1,404	7,885
TN	Memphis . . . . .	787	602	433	126	25	-	-	-	9	137	415	673	3,207
	Nashville . . . . .	865	689	510	186	55	-	-	-	19	193	492	747	3,756
TX	Dallas-Fort Worth . . . . .	651	469	313	85	-	-	-	-	-	56	300	533	2,407
	El Paso . . . . .	645	465	318	93	-	-	-	-	-	96	408	639	2,664
	Houston . . . . .	442	314	175	32	-	-	-	-	-	36	201	349	1,549
UT	Salt Lake City . . . . .	1,128	865	753	474	220	53	-	-	97	377	759	1,076	5,802
VT	Burlington . . . . .	1,500	1,313	1,110	669	326	64	23	50	202	530	852	1,314	7,953
VA	Norfolk . . . . .	778	669	512	219	53	-	-	-	9	146	393	667	3,446
	Richmond . . . . .	880	731	552	226	65	-	-	-	24	221	483	778	3,960
WA	Seattle-Tacoma . . . . .	803	622	645	489	313	169	76	97	169	388	606	744	5,121
	Spokane . . . . .	1,218	913	849	576	339	140	17	63	209	539	903	1,116	6,882
WV	Charleston . . . . .	995	823	626	298	125	16	-	-	51	301	591	871	4,697
WI	Milwaukee . . . . .	1,435	1,176	1,020	612	334	84	11	25	117	444	831	1,237	7,326
WY	Cheyenne . . . . .	1,206	1,000	1,020	696	397	139	24	37	235	543	908	1,107	7,310
PR	San Juan . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-

- Represents zero. <sup>1</sup> City office data.

Source: U.S. National Oceanic and Atmospheric Administration, *Climatology of the United States*, No. 81, Sept. 1982.

# No. 384. Normal Monthly and Seasonal Cooling Degree Days, 65 Degree Base—Selected Cities

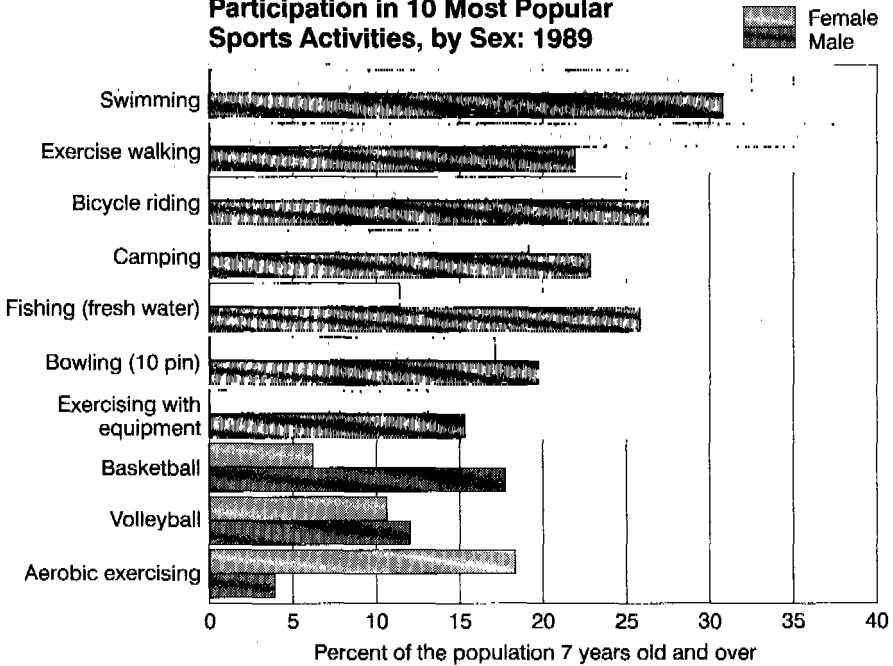
[Airport data, except as noted. Based on standard 30-year period, 1951 through 1980. For definition of "degree day," see text, section 6]

STATE	STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual avg.
AL	Mobile	29	23	39	133	307	465	533	521	396	158	26	13	2,643
AK	Juneau	-	-	-	-	-	-	-	-	-	-	-	-	-
AZ	Phoenix	-	20	51	142	376	645	846	772	588	273	27	6	3,746
AR	Little Rock	-	-	20	46	188	405	530	496	287	73	-	-	2,045
CA	Los Angeles	7	12	-	15	25	72	141	176	153	95	25	7	728
	Sacramento	-	-	-	25	80	207	329	301	208	48	-	-	1,198
	San Diego	-	11	7	10	21	79	170	226	187	109	22	-	842
	San Francisco	-	-	-	-	-	13	16	27	47	12	-	-	115
CO	Denver	-	-	-	-	11	134	261	203	63	8	-	-	680
CT	Hartford	-	-	-	-	24	128	260	203	51	-	-	-	666
DE	Wilmington	-	-	-	-	43	192	341	304	123	12	-	-	1,015
DC	Washington	-	-	-	8	99	285	431	391	196	20	-	-	1,430
FL	Jacksonville	30	25	51	102	282	420	505	496	396	160	38	15	2,520
	Miami	141	140	222	309	419	480	539	552	504	400	239	150	4,095
GA	Atlanta	-	-	12	37	170	329	422	409	247	44	-	-	1,670
HI	Honolulu	236	221	291	321	388	423	468	496	468	450	348	279	4,389
ID	Boise	-	-	-	-	17	107	288	240	80	-	-	-	742
IL	Chicago	-	-	-	-	41	146	252	223	66	12	-	-	740
	Peoria	-	-	-	-	71	208	314	256	82	17	-	-	948
IN	Indianapolis	-	-	-	-	80	213	313	257	111	14	-	-	988
IA	Des Moines	-	-	-	-	66	215	354	279	83	22	-	-	1,019
KS	Wichita	-	-	8	14	117	340	508	456	205	36	-	-	1,684
KY	Louisville	-	-	7	12	110	266	391	353	179	24	-	-	1,342
LA	New Orleans	32	30	59	136	307	459	530	518	405	161	36	13	2,686
ME	Portland	-	-	-	-	-	23	118	104	9	-	-	-	254
MD	Baltimore	-	-	-	-	66	221	366	329	146	10	-	-	1,138
MA	Boston	-	-	-	-	17	115	266	220	68	13	-	-	699
MI	Detroit	-	-	-	-	33	117	219	183	55	8	-	-	615
	Sault Ste. Marie	-	-	-	-	6	12	55	58	-	-	-	-	131
MN	Duluth	-	-	-	-	-	11	80	59	-	-	-	-	150
	Minneapolis-St. Paul	-	-	-	-	36	134	263	190	28	11	-	-	662
MS	Jackson	13	17	34	80	241	426	524	502	342	98	13	-	2,290
MO	Kansas City	-	-	-	8	99	270	423	363	144	26	-	-	1,333
	St. Louis	-	-	-	12	128	306	431	372	181	38	-	-	1,468
MT	Great Falls	-	-	-	-	-	48	153	144	40	6	-	-	391
NE	Omaha	-	-	-	6	77	256	394	320	97	16	-	-	1,166
NV	Reno	-	-	-	-	11	46	156	117	27	-	-	-	357
NH	Concord	-	-	-	-	10	58	160	111	14	-	-	-	353
NJ	Atlantic City	-	-	-	-	26	152	291	248	75	-	-	-	792
NM	Albuquerque	-	-	-	-	59	285	428	344	132	6	-	-	1,254
NY	Albany	-	-	-	-	19	89	206	145	35	-	-	-	494
	Buffalo	-	-	-	-	18	83	186	146	43	-	-	-	476
	New York	-	-	-	-	56	199	363	322	135	14	-	-	1,089
NC	Charlotte	-	-	7	14	149	304	419	400	220	33	-	-	1,546
	Raleigh	-	-	9	16	121	270	394	372	189	23	-	-	1,394
ND	Bismarck	-	-	-	-	10	79	186	174	24	-	-	-	473
OH	Cincinnati	-	-	-	8	101	230	344	310	144	22	-	-	1,159
	Cleveland	-	-	-	-	33	111	213	178	72	5	-	-	612
	Columbus	-	-	-	-	66	175	273	235	102	11	-	-	862
OK	Oklahoma City	-	-	13	40	147	360	530	499	264	61	-	-	1,814
OR	Portland	-	-	-	-	6	43	119	122	42	-	-	-	332
PA	Philadelphia	-	-	-	-	59	202	357	319	129	9	-	-	1,075
	Pittsburgh	-	-	-	-	37	121	222	186	74	5	-	-	645
RI	Providence	-	-	-	-	10	85	235	195	49	-	-	-	574
SC	Columbia	8	6	20	51	223	381	496	471	297	74	6	-	2,033
SD	Sioux Falls	-	-	-	-	29	154	293	226	41	6	-	-	749
TN	Memphis	-	-	20	54	211	411	530	484	285	72	-	-	2,067
	Nashville	-	-	14	24	151	328	446	415	238	45	-	-	1,661
TX	Dallas-Fort Worth	-	7	37	112	275	510	660	636	408	146	18	-	2,809
	El Paso	-	-	11	51	218	474	543	474	273	52	-	-	2,096
	Houston	20	20	51	143	307	468	561	546	402	81	54	8	2,781
UT	Salt Lake City	-	-	-	-	28	152	368	311	97	5	-	-	981
VT	Burlington	-	-	-	-	22	61	165	115	16	-	-	-	379
VA	Norfolk	-	-	-	15	96	282	415	394	225	31	-	-	1,458
	Richmond	-	-	-	13	99	258	397	366	180	23	-	-	1,336
WA	Seattle-Tacoma	-	-	-	-	-	25	70	70	19	-	-	-	184
	Spokane	-	-	-	-	8	41	162	159	41	-	-	-	411
WV	Charleston	-	-	-	7	91	196	295	270	129	19	-	-	1,007
WI	Milwaukee	-	-	-	-	18	81	182	158	24	7	-	-	470
WY	Cheyenne	-	-	-	-	-	49	145	93	22	-	-	-	309
PR	San Juan	357	325	388	414	474	501	527	533	507	508	438	394	5,366

- Represents zero. <sup>1</sup> City office data.

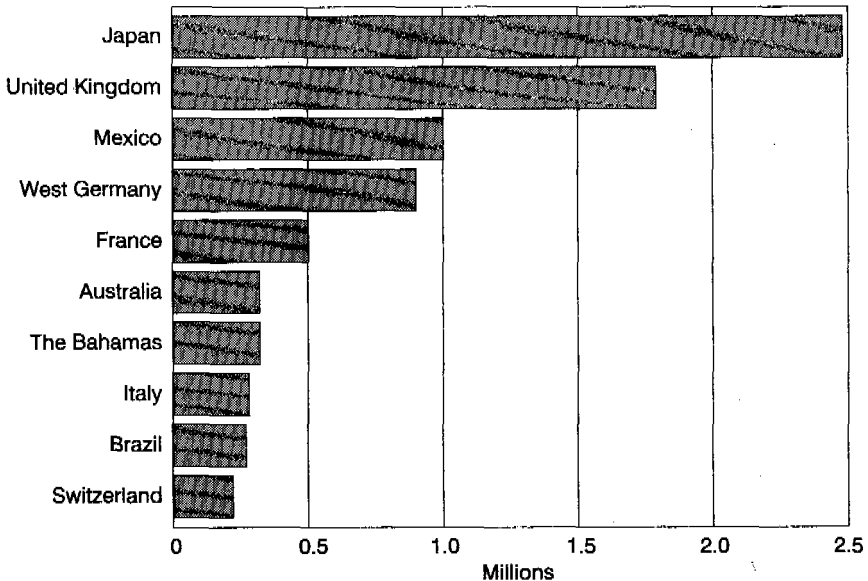
Source: U.S. National Oceanic and Atmospheric Administration, *Climatology of the United States*, No. 81, Sept. 1982.

Figure 7.1

**Participation in 10 Most Popular Sports Activities, by Sex: 1989**

Source: Chart prepared by U.S. Bureau of the Census. For data, see table 405.

Figure 7.2

**Foreign Visitors for Pleasure Admitted, by Country of Last Residence—Top 10 Countries: 1989**

Source: Chart prepared by U.S. Bureau of the Census. For data, see table 425.



## Section 7

# Parks, Recreation, and Travel

This section presents data on national parks and forests, State parks, recreational activities, the arts and humanities, and domestic and foreign travel.

**Parks and recreation.**—The Department of the Interior has responsibility for administering the national parks. As part of this function, it compiles data and issues reports relating to the usage of public parks for recreation purposes. The National Park Service publishes information on visits to national park areas in its annual report, *National Park Statistical Abstract*. The *National Parks: Index (year)* is a biannual report which has appeared under a variety of *Index* titles prior to 1985. Beginning with the 1985 edition, the report has appeared under the current title. The *Index* contains brief descriptions, with acreages, of each area administered by the Service, plus certain "related" areas. A brief statistical summary of Service-administered areas is also presented. The annual *Federal Recreation Fee Report* summarizes the prior year's recreation fee receipts and recreation visitation statistics for seven Federal land managing agencies.

Statistics for State parks are compiled by the National Association of State Park Directors which issues its annual *Information Exchange*. The Bureau of Land Management, in its *Public Land Statistics*, also issues data on recreational use of its lands. The Department of Agriculture's Forest Service, in its *Report of the Forest Service*, issues data on recreational uses of the national forests.

Statistics on recreation other than usage of public lands have not generally been compiled and published in a systematic way. In general, more data are available in the files of public and private bodies than have been published; and much of what is published is in forms not physically permanent nor likely to be preserved in libraries and other reference sources. The series presented here represent only the more readily available data.

**Visitation.**—Statistics presented on visitation to reporting areas are collected by several different agencies and groups. The methodology used to collect these results may vary accordingly, from visual counts and estimates to the use of electromagnetic traffic counters. Many factors, besides the methodology, may affect the results such as multiple or random access points, irregular boundaries, and many other general factors that may affect usage. In using and comparing these data, one should also be aware of several different definitions that follow: Recreation visit, which is the entry of any person into an area for recreation purposes; nonrecreation visits, which include visits going to and from inholdings, through traffic, tradespeople and personnel with business in the area; and visitor hour, which constitutes the presence of a person in a recreation area or site for recreational purposes for periods of time aggregating 60 minutes.

**Recreation and leisure activities.**—Statistics on the participation in various recreation and leisure time activities are based on several sample surveys. Data on participation in fishing, hunting, and other forms of wildlife-associated recreation are published every five years by the U.S. Department of Interior, Fish and Wildlife Service. The most recent data are from the 1985 survey. Data on participation in various sports recreation activities are published by the National Sporting Goods Association.

**Travel.**—Information on foreign travel and personal expenditures abroad, as well as expenditures by foreign citizens traveling in the United States, is compiled annually by the U.S. Bureau of Economic Analysis and published in selected issues of the monthly *Survey of Current Business*. Statistics on arrivals to and departures from the United States by air are reported by the Department of Transportation in cooperation with the U.S. Immigration and Naturalization Service in *International Air Travel Statistics*. Data on domestic travel, business receipts and employment of the travel industry, and travel expenditures are published by the U.S. Travel Data Center, the national nonprofit center for travel and tourism research which is located in Washington, DC. Other data on household transportation characteristics may be found in section 21.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

### No. 385. Visitation to Federal Recreation Areas, by Administering Federal Agency: 1978 to 1988

[In millions of visitor hours. For years ending September 30, except as indicated. Covers persons entering and using a recreation area over a specified period of time. For definition of visitor hour, see text, section 7]

ADMINISTERING FEDERAL AGENCY	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
All areas	7,094	6,718	6,367	6,522	6,640	6,668	6,252	6,403	6,858	7,402	7,490
Fish and Wildlife Service	84	25	17	23	12	63	60	65	67	72	81
Forest Service	2,622	2,642	2,819	2,829	2,801	2,733	2,731	2,705	2,718	2,861	2,908
U.S. Army Corps of Engineers	2,071	1,961	1,926	1,488	1,632	1,638	1,652	1,721	2,068	2,176	2,290
National Park Service	1,154	1,066	1,042	1,198	1,216	1,276	1,240	1,298	1,348	1,394	1,375
Bureau of Land Management	634	525	68	444	341	596	208	246	284	515	461
Bureau of Reclamation	431	411	407	461	558	285	282	289	296	306	294
Tennessee Valley Authority	97	88	87	80	80	78	79	79	77	78	81

<sup>1</sup> Beginning 1986, not comparable with previous years. <sup>2</sup> Data not comparable for all years.

Source: 1978-1980, U.S. Heritage Conservation and Recreation Service, *Federal Recreation Fee Report*, annual; thereafter, U.S. National Park Service.

### No. 386. National Park System—Summary: 1981 to 1988

[For fiscal years ending in year shown, except as noted; see text, section 10. Includes data for five areas in Puerto Rico and Virgin Islands, one area in American Samoa, and one area in Guam. See also *Historical Statistics, Colonial Times to 1970*, series H 806-828]

ITEM	1981	1982	1983	1984	1985	1986	1987	1988
<b>Finances (mil. dol.):</b> <sup>1</sup>								
Expenditures reported	715.3	709.7	779.6	843.6	848.1	818.3	909.3	941.2
Salaries and wages	297.0	310.6	343.8	354.6	369.4	372.2	401.5	395.6
Improvements, maintenance	82.3	98.3	102.4	136.4	127.4	119.6	144.1	159.2
Construction	123.2	73.0	87.5	93.3	84.7	125.9	102.6	122.7
Other	212.8	227.8	245.9	259.3	266.6	200.6	261.1	263.7
Funds available	945.9	1,024.4	1,191.7	1,215.8	1,248.2	1,271.5	1,276.0	1,338.1
Appropriations	546.8	715.2	828.9	785.9	821.6	769.3	846.2	874.7
Other	399.1	309.2	362.8	429.9	426.6	502.2	429.8	463.4
Revenue from operations	22.9	25.5	33.1	36.2	50.6	50.7	70.8	77.2
<b>Recreation visits (millions):</b> <sup>2</sup>								
All areas	238.6	244.1	243.6	248.6	263.4	281.1	287.2	282.5
National parks	50.4	49.6	50.0	49.7	50.0	53.5	56.6	56.4
National monuments	15.9	16.2	16.2	15.8	15.9	21.2	23.5	23.2
National historical, commemorative, archeological and military areas	58.4	62.3	57.3	63.6	61.9	65.5	68.6	61.2
National parkways	34.9	36.1	37.7	37.9	40.0	41.6	39.3	42.0
National recreation areas	47.7	49.7	48.9	45.7	49.4	54.8	56.5	54.5
National seashores and lakeshores	17.8	17.2	19.0	21.2	25.3	23.0	21.9	23.2
National Capital Parks	6.7	5.3	6.3	7.2	8.3	6.9	8.1	9.0
Miscellaneous other areas	6.8	7.7	8.2	7.5	12.6	14.5	12.7	12.9
Recreation overnight stays (millions) <sup>3</sup>	16.4	16.4	15.7	16.0	15.8	16.0	17.1	17.0
In commercial lodgings	3.4	3.3	3.3	3.5	3.5	3.5	3.7	3.8
In Park Service campgrounds	8.9	8.8	7.8	7.7	7.3	7.2	8.0	7.9
In tents	4.2	4.2	3.6	3.7	3.6	3.5	4.0	3.9
In recreation vehicles	4.7	4.6	4.2	3.9	3.8	3.8	4.0	3.9
In backcountry	2.3	2.4	2.6	2.0	1.7	1.6	1.6	1.6
Other	1.8	1.9	2.0	2.8	3.2	3.6	3.8	3.7
<b>Land (1,000 acres):</b> <sup>5</sup>								
Total	73,665	74,800	74,846	74,913	75,749	75,863	75,970	76,176
Parks	44,470	45,414	45,427	45,454	45,739	45,791	45,875	45,955
Recreation areas	3,327	3,313	3,317	3,322	3,335	3,337	3,339	3,339
Other	25,868	26,073	26,102	26,137	26,675	26,735	26,756	26,882
Acquisition, gross	70	40	50	44	34	177	134	38
By purchase	60	37	43	42	29	69	27	37
By gift	6	3	1	(Z)	2	20	(Z)	(Z)
By transfer or exchange	4	(Z)	6	2	3	88	107	1
Exclusion	(Z)	(Z)	2	2	(Z)	4	(Z)	(Z)
Acquisition, net	70	40	48	42	34	173	134	38

<sup>2</sup> Less than 500 acres. <sup>1</sup> Financial data are those associated with the National Park System. Certain other functions of the National Park Service (principally the activities absorbed from the former Heritage Conservation and Recreation Service in 1981) are excluded. <sup>2</sup> Includes funds carried over from prior years. <sup>3</sup> For calendar year. <sup>4</sup> Combined data for North Cascades National Park and two adjacent National Recreation Areas are included in National Parks total. <sup>5</sup> Federal land only, as of Dec. 31. Federal land acreages, in addition to National Park Service administered lands, also include lands within national park system area boundaries but under the administration of other agencies. Year-to-year changes in the federal lands figures include changes in the acreages of these other lands and hence often differ from "net acquisition."

Source: U.S. National Park Service, Visits, *National Park Statistical Abstract*, annual, and unpublished data. Other data are unpublished.



**No. 387. National Park System—Type of Area: 1988**

[As of December 31, Totals include five areas in Puerto Rico and Virgin Islands, one area in American Samoa, and one area in Guam. See also *Historical Statistics, Colonial Times to 1970*, series H 806-828]

TYPE OF AREA	Number of areas	Federal acreage <sup>1</sup>	Recreation visits (mil.)	TYPE OF AREA	Number of areas	Federal acreage <sup>1</sup>	Recreation visits (mil.)
<b>National Park System.</b>	<b>354</b>	<b>76,176,427</b>	<b>282.5</b>	Parkways . . . . .	4	161,332	42.0
National parks . . . . .	50	45,955,102	56.4	National lakeshores . . . . .	4	143,743	3.9
National historical parks . . . . .	29	96,075	23.3	National rivers . . . . .	14	256,993	4.4
National monuments . . . . .	79	4,637,117	23.2	National Capital Parks <sup>2</sup> . . . . .	1	6,469	9.0
National military parks . . . . .	9	33,133	4.4	Parks, other . . . . .	10	32,118	7.4
National battlefields . . . . .	11	9,539	1.7	National recreation areas . . . . .	18	3,339,091	54.5
National battlefield parks . . . . .	3	8,047	1.8	National trails . . . . .	3	92,863	(NA)
National battlefield site . . . . .	1	1	(NA)	National preserves . . . . .	14	20,904,031	0.1
National historic sites . . . . .	68	16,520	11.7	National Mall . . . . .	1	146	(NA)
National memorials . . . . .	23	7,865	18.3	White House . . . . .	1	18	1.1
National seashores . . . . .	10	476,224	19.3	Other . . . . .	1	(NA)	(NA)

NA Not available. <sup>1</sup> Includes 199,297 acres in which the Federal Government has a less-than-fee interest. <sup>2</sup> 346 units in DC, MD, and VA. Not all report visits.

Source: U.S. National Park Service, *The National Parks: Index*, biannual; and *National Park Statistical Abstract*, annual.

**No. 388. Selected National Park Service Areas—Acreage, 1988, and Visits and Overnight Stays, 1986 to 1988**

[Calendar year data, except acreage as of December 31. Area selection based on minimum of 4 million visits or 200,000 overnight stays in 1988. For information on methodology and definition of "visits", see text, section 7]

AREA	Federal acres, 1988 <sup>1</sup> (1,000)	RECREATION VISITS (mil.)			RECREATION OVERNIGHT STAYS <sup>2</sup> (1,000)		
		1986	1987	1988	1986	1987	1988
<b>Total, all areas <sup>3</sup></b>	<b>76,176</b>	<b>281.1</b>	<b>287.2</b>	<b>282.5</b>	<b>15,997</b>	<b>17,123</b>	<b>17,011</b>
Acadia National Park, ME . . . . .	41	3.9	4.3	4.5	206	212	221
Big Bend National Park, TX . . . . .	708	0.2	0.2	0.2	221	225	212
Blue Ridge Parkway, NC, VA . . . . .	79	17.1	18.6	20.0	249	246	246
Cape Cod National Seashore, MA . . . . .	27	4.0	4.9	5.2	16	16	19
Death Valley National Monument, CA, NV . . . . .	2,049	0.6	0.7	0.7	328	314	346
Gateway National Recreation Area, NY, NJ . . . . .	20	8.9	9.4	6.2	26	6	2
George Washington Memorial Parkway, VA, MD . . . . .	7	9.1	9.6	9.5	-	-	-
Glacier National Park, MT . . . . .	1,013	1.6	1.7	1.8	287	307	326
Glen Canyon National Recreation Area, AZ, UT . . . . .	1,194	2.4	2.9	3.5	1,965	2,062	1,929
Golden Gate National Recreation Area, CA . . . . .	28	21.6	21.8	21.8	112	112	117
Grand Canyon National Park, AZ . . . . .	1,179	3.0	3.5	3.9	631	866	868
Grand Teton National Park, WY . . . . .	307	1.3	1.5	1.2	421	453	428
Great Smoky Mountain National Park, NC, TN . . . . .	520	9.8	10.2	8.8	460	495	494
Gulf Island National Seashore, MS, FL . . . . .	99	7.6	4.8	5.2	171	174	186
Independence National Historical Park, PA . . . . .	(Z)	5.0	7.3	5.4	-	-	-
Kings Canyon National Park, CA . . . . .	462	1.0	1.1	1.0	267	284	287
Lake Mead National Recreation Area, AZ, NY . . . . .	1,469	7.8	8.1	8.3	1,389	1,302	1,409
Mesa Verde National Park, CO . . . . .	52	0.7	0.7	0.8	181	217	229
Natchez Trace Parkway, MS, TN, AL . . . . .	52	14.4	9.9	11.7	20	23	21
National Capital Parks, DC, MD . . . . .	6	6.6	8.1	9.0	-	-	-
Olympic National Park, WA . . . . .	911	2.9	2.8	3.0	366	372	424
Ozark National Scenic Riverways . . . . .	61	1.4	1.3	1.5	205	198	233
Rocky Mountain National Park, CO . . . . .	265	2.4	2.5	2.5	197	205	215
Sequoia National Park, CA . . . . .	402	1.1	1.1	1.0	383	442	359
Shenandoah National Park, VA . . . . .	195	1.8	1.8	1.9	362	354	358
Valley Forge National Historical Park, PA . . . . .	3	4.2	4.3	4.2	-	-	2
Virgin Island National Park, VI . . . . .	13	0.8	0.8	0.8	218	203	222
Yellowstone National Park, ID, MT, WY . . . . .	2,220	2.4	2.6	2.2	1,308	1,398	1,109
Yosemite National Park, CA . . . . .	759	2.9	3.2	3.2	1,884	2,199	2,286
Zion National Park, UT . . . . .	143	1.7	1.8	1.9	236	263	287

- Represents zero. Z Less than 500 acres. <sup>1</sup> See footnote 1, table 387. <sup>2</sup> The passing of one night by a visitor within a park, and occurs each night a visitor remains in the park. <sup>3</sup> Includes areas not shown separately.

Source: U.S. National Park Service, *National Park Statistical Abstract*, annual, and unpublished data.

### No. 389. National Forest Recreation Use—Summary, 1980 to 1989, and by Activity and States and Other Areas, 1989

[For year ending September 30. Estimated. Represents recreational use of National Forest land and water in States which have a Forest Service recreation program. See also *Historical Statistics, Colonial Times to 1970*, series H 829-835]

YEAR AND ACTIVITY	Recreation visitor-days <sup>1</sup> (1,000)	Per- cent	STATE	Recreation visitor-days <sup>1</sup> 1989 (1,000)	STATE OR OTHER AREA	Recreation visitor-days <sup>1</sup> 1989 (1,000)
1980	233,549	100.0	U.S.	252,495	NV.	3,082
1981	235,709	100.0			NH.	2,684
1982	233,438	100.0	AL	686	NM.	7,466
1983	227,708	100.0	AK	4,636	NY.	22
1984	227,554	100.0	AZ	18,998	NC.	5,036
1985	225,407	100.0	AR	2,377	ND.	184
1986	226,533	100.0	CA	63,685	OH.	430
1987	238,458	100.0	CO	23,238	OK.	341
1988	242,316	100.0	FL	2,852	OR.	18,231
			GA	2,715	PA.	2,605
1989, total	252,495	100.0	ID	11,738	SC.	974
			IL	960	SD.	2,737
	81,266	32.2	IN	588	TN.	2,655
Camping, picnicking and swimming	72,263	28.6	KS	48	TX.	2,057
Hiking, horseback riding and water travel	21,277	8.4	KY	2,327	UT.	13,313
Hunting	16,053	6.4	LA	513	VT.	1,352
Winter sports	17,369	6.9	MA	53	WA.	3,946
Fishing	15,717	6.2	MI	4,725	WI.	18,018
Resorts, cabins and organization camps	14,682	5.8	MN	5,148	WV.	1,146
Nature studies	1,814	0.7	MS	1,237	WY.	1,979
Other <sup>2</sup>	12,054	4.8	MO	1,705		6,068
			MT	9,412		
			NE	142	PR.	396

<sup>1</sup> One recreation visitor-day is the recreation use of National Forest land or water that aggregates 12 visitor-hours. This may entail 1 person for 12 hours, 12 persons for 1 hour, or any equivalent combination of individual or group use, either continuous or intermittent. <sup>2</sup> Includes team sports, gathering forest products, attending talks and programs, and other uses.

Source: U.S. Forest Service, unpublished data.

### No. 390. Recreational Use of Public Lands Administered by Bureau of Land Management, 1982 to 1989, and by State, 1989

[In thousands. For year ending Sept. 30. Beginning 1987, increase due to an estimated longer length of stay per visit, especially in California. See text, section 7]

YEAR AND STATE	Number of visits	TYPE OF RECREATION USE (visitor hours)										Snow- and ice-based recreational activity, winter sports
		Total	Land-based recreation activities						Water-based recreation activities			
			Motorized travel		Site based							
			Off-road vehicle travel	Other motor-ized travel	Non-motor-ized travel	Camp-ing	Hunting	Other	Fishing	Boating	Other	
1982	58,135	316,959	19,471	32,646	11,237	63,928	108,996	44,587	19,287	10,101	1,043	5,663
1983	56,270	334,010	24,397	35,534	12,237	84,066	92,974	39,734	20,290	16,869	4,992	2,917
1984	59,228	271,373	21,348	25,433	9,579	73,032	73,898	37,650	14,263	11,184	2,092	2,894
1985	51,739	244,612	36,995	24,053	10,047	65,397	51,842	23,098	14,254	11,710	2,193	5,023
1986	54,253	284,142	49,688	25,866	14,397	95,196	35,570	19,331	18,227	15,881	3,951	6,025
1987	56,427	514,716	123,325	34,325	19,172	195,315	57,624	38,412	22,932	15,140	5,212	3,259
1988	57,460	492,756	122,014	35,748	19,761	178,703	55,285	38,340	21,617	13,294	4,979	3,015
1989, total	60,957	493,214	65,808	74,075	36,676	173,597	46,760	45,871	23,392	18,491	5,425	3,119
AK	242	5,170	43	263	94	3,718	413	77	339	161	4	58
AZ	3,970	36,693	1,010	119	237	29,052	2,356	1,262	538	1,598	519	2
CA	30,534	290,009	51,263	51,433	26,204	98,708	15,852	34,254	5,048	3,806	3,042	399
CO	3,001	17,492	929	2,669	626	3,642	5,974	621	1,538	1,245	26	222
ID	2,328	14,998	1,012	1,106	857	4,235	1,781	1,142	2,071	1,338	495	961
MT <sup>1</sup>	2,448	12,289	1,929	1,756	493	3,234	2,061	289	1,711	438	56	322
NV	2,767	17,665	2,943	1,912	1,361	5,600	2,660	830	1,871	234	155	99
NM	2,981	13,352	2,389	822	718	2,979	2,855	1,588	1,176	772	51	2
OR <sup>2</sup>	6,283	41,509	794	6,500	1,101	12,137	6,063	2,505	7,287	3,637	948	537
UT	4,504	33,883	3,151	6,419	4,677	8,450	3,655	1,758	488	4,998	105	182
WY	1,899	10,154	345	1,076	308	1,842	3,090	1,545	1,325	264	24	335

<sup>1</sup> Includes North Dakota and South Dakota. <sup>2</sup> Includes Washington.

Source: U.S. Bureau of Land Management, *Public Land Statistics*, annual.

**No. 391. State Parks and Recreation Areas—States: 1989**

[For year ending June 30. Data are shown as reported by State park directors. In some States, park agency has under its control forests, fish and wildlife areas and/or other areas. In other States, agency is responsible for State parks only]

DIVISION AND STATE	Acreage (1,000)	VISITORS (1,000)		REVENUE		DIVISION AND STATE	Acreage (1,000)	VISITORS (1,000)		REVENUE	
		Total <sup>1</sup>	Day	Total (\$1,000)	Percent of operating budget			Total <sup>1</sup>	Day	Total (\$1,000)	Percent of operating budget
<b>U.S. . . .</b>	<b>11,061</b>	<b>726,842</b>	<b>668,535</b>	<b>400,540</b>	<b>40.8</b>	<b>WV . . .</b>	207	8,767	8,019	11,633	66.5
<b>N. Eng:</b>						<b>NC . . .</b>	129	7,938	7,577	1,467	21.5
ME . . .	70	2,217	2,000	1,399	36.8	<b>SC . . .</b>	79	8,392	7,325	9,503	64.3
NH . . .	33	4,439	4,241	6,910	89.1	<b>GA . . .</b>	62	14,351	10,763	10,850	48.2
VT . . .	170	982	603	3,671	93.2	<b>FL . . .</b>	419	15,147	14,113	15,381	42.7
MA . . .	269	14,133	13,235	7,324	37.0	<b>E.S.C:</b>					
RI . . .	9	6,167	5,979	1,959	40.8	KY . . .	42	26,192	25,189	34,158	63.6
CT . . .	170	8,612	8,254	2,525	16.2	<b>TN . . .</b>	133	26,060	24,964	16,432	49.6
<b>M.A:</b>						<b>AL . . .</b>	49	5,775	4,770	21,656	87.5
NY . . .	258	56,056	53,043	25,041	23.5	<b>MS . . .</b>	23	4,385	3,800	4,430	45.8
NJ . . .	301	10,620	10,164	4,754	19.9	<b>W.S.C:</b>					
PA . . .	276	36,324	34,754	21,000	52.9	AR . . .	48	6,660	6,007	10,023	57.9
<b>E.N.C:</b>						<b>LA . . .</b>	38	1,028	732	1,525	26.9
OH . . .	208	65,571	63,216	11,439	27.8	<b>OK . . .</b>	96	16,817	14,547	11,324	56.7
IN . . .	57	9,397	7,787	8,324	69.4	<b>TX . . .</b>	433	20,828	18,504	11,625	30.6
IL . . .	401	35,452	34,920	2,622	9.5	<b>Mt:</b>					
MI . . .	262	24,707	19,099	15,717	73.4	MT . . .	51	4,195	3,636	300	12.1
WI . . .	120	11,563	10,220	6,812	60.2	ID . . .	47	2,130	1,901	1,337	44.0
<b>W.N.C:</b>						<b>WY . . .</b>	119	1,798	1,349	136	3.9
MN . . .	200	7,687	6,880	5,805	43.6	<b>CO . . .</b>	230	7,912	7,524	9,293	98.2
IA . . .	83	10,767	10,276	2,014	24.2	<b>NM . . .</b>	119	4,826	2,179	2,660	37.6
MO . . .	109	14,375	13,350	2,631	16.4	<b>AZ . . .</b>	39	2,017	1,696	1,846	28.9
ND . . .	17	1,006	876	826	45.7	<b>UT . . .</b>	116	4,894	4,400	2,709	24.5
SD . . .	92	5,470	5,087	3,678	73.4	<b>NV . . .</b>	142	2,981	2,812	775	20.2
NE . . .	149	8,739	7,443	14,414	218.9	<b>Pac:</b>					
KS . . .	30	5,109	3,337	2,458	45.5	WA . . .	231	40,637	38,459	6,646	26.6
<b>So. Atl:</b>						<b>OR . . .</b>	90	39,030	36,926	7,564	39.0
DE . . .	12	1,742	1,548	3,447	69.9	<b>CA . . .</b>	1,287	77,307	70,920	42,112	28.0
MD . . .	222	8,907	8,551	6,372	32.5	<b>AK . . .</b>	3,237	5,520	4,886	530	11.1
VA . . .	52	3,873	3,419	2,030	21.5	<b>HI . . .</b>	25	17,340	17,254	1,251	21.9

<sup>1</sup> Includes overnight visitors.

Source: National Association of State Park Directors, Austin, TX, 1990 Annual Information Exchange.

**No. 392. Personal Consumption Expenditures for Recreation: 1970 to 1989**

[In billions of dollars, except percent. Represents market value of purchases of goods and services by individuals and nonprofit institutions]

TYPE OF PRODUCT OR SERVICE	1970	1980	1983	1984	1985	1986	1987	1988	1989
<b>Total recreation expenditures . . . . .</b>	<b>42.7</b>	<b>115.0</b>	<b>152.1</b>	<b>168.3</b>	<b>185.7</b>	<b>201.2</b>	<b>223.2</b>	<b>245.1</b>	<b>264.4</b>
Percent of total personal consumption <sup>1</sup>	6.7	6.6	6.8	6.9	7.1	7.2	7.4	7.6	7.7
Books and maps . . . . .	2.9	5.6	7.2	7.8	8.1	8.6	9.5	10.5	11.4
Magazines, newspapers, and sheet music . . . . .	4.1	10.4	12.0	12.7	13.2	13.9	15.4	17.0	18.5
Nondurable toys and sport supplies . . . . .	5.5	14.6	18.0	19.7	21.1	23.1	26.2	28.0	30.2
Wheel goods, durable toys, sports equipment <sup>2</sup> . . . . .	5.2	17.2	20.4	24.8	26.7	29.7	33.2	35.4	36.2
Radio and television receivers, records, and musical instruments . . . . .	8.5	19.9	28.2	31.5	37.0	38.8	41.6	47.1	51.1
Radio and television repair . . . . .	1.4	2.6	2.8	2.8	3.2	3.3	3.7	3.9	4.2
Flowers, seeds, and potted plants . . . . .	1.8	4.0	4.8	5.2	5.5	5.8	7.0	7.5	8.1
Admissions to specified spectator amusements . . . . .	3.3	6.5	8.6	9.5	9.5	10.2	11.3	12.1	13.4
Motion picture theaters . . . . .	1.6	2.7	3.6	3.9	3.6	3.9	4.2	4.4	5.0
Legitimate theaters and opera, and entertainments of nonprofit institutions <sup>3</sup> . . . . .	0.5	1.8	2.4	2.7	3.0	3.3	4.0	4.5	4.9
Spectator sports <sup>4</sup> . . . . .	1.1	2.0	2.6	2.9	2.9	2.9	3.0	3.2	3.5
Clubs and fraternal organizations except insurance <sup>5</sup> . . . . .	1.5	3.0	4.2	4.5	4.8	5.0	5.5	5.9	6.3
Commercial participant amusements <sup>6</sup> . . . . .	2.4	9.7	13.6	14.1	15.1	16.0	17.1	18.7	20.2
Pari-mutuel net receipts . . . . .	1.1	2.1	2.3	2.6	2.6	2.6	2.7	2.8	2.8
Other . . . . .	5.1	19.4	30.0	33.1	38.9	44.1	50.0	56.2	61.9

<sup>1</sup> See table 704. <sup>2</sup> Includes boats and pleasure aircraft. <sup>3</sup> Except athletic. <sup>4</sup> Consists of admissions to professional and amateur athletic events and to racetracks, including horse, dog and auto. <sup>5</sup> Consists of dues and fees excluding insurance premiums. <sup>6</sup> Consists of billiard parlors; bowling alleys; dancing, riding, shooting, skating, and swimming places; amusement devices and parks; golf courses; sightseeing buses and guides; private flying operations and other commercial participant amusements. <sup>7</sup> Consists of net receipts of lotteries and expenditures for purchase of pets and pet care services, cable TV, film processing, photographic studios, sporting and recreation camps, and recreational services, not elsewhere classified.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-1982*; and *Survey of Current Business*, July issues.

### No. 393. Average Annual Expenditures of All Consumer Units for Entertainment and Reading, 1984 to 1988, and by Selected Characteristics, 1988

[In dollars, except as indicated. Based on Consumer Expenditure Survey; see text, section 14, for description of survey. See also headnote, table 719. For composition of regions, see fig. 1, inside front cover]

YEAR AND CHARACTERISTIC	ENTERTAINMENT AND READING		ENTERTAINMENT <sup>1</sup>				Reading
	Total	Percent of total expenditures	Total	Fees and admissions	Television, radios, and sound equipment	Other equipment and services <sup>2</sup>	
1984 . . . . .	1,187	5.4	1,055	313	322	420	132
1985 . . . . .	1,311	5.6	1,170	320	371	479	141
1986 . . . . .	1,289	5.4	1,149	308	371	470	140
1987 . . . . .	1,335	5.5	1,193	323	379	491	142
<b>1988, all consumer . . . . .</b>	<b>1,479</b>	<b>5.7</b>	<b>1,329</b>	<b>353</b>	<b>416</b>	<b>560</b>	<b>150</b>
Age of reference person:							
Under 25 years old . . . . .	1,041	6.4	961	247	349	364	80
25 to 34 years old . . . . .	1,527	5.9	1,396	310	442	644	131
35 to 44 years old . . . . .	2,158	6.5	1,975	514	597	865	183
45 to 54 years old . . . . .	1,802	5.4	1,615	485	479	651	187
55 to 64 years old . . . . .	1,300	5.0	1,136	340	350	446	164
65 to 74 years old . . . . .	1,032	5.1	881	262	284	335	151
75 years old and over . . . . .	451	3.4	351	101	141	109	100
Region of residence: Northeast							
Midwest . . . . .	1,413	5.4	1,232	385	414	432	181
South . . . . .	1,407	5.7	1,255	348	412	495	152
West . . . . .	1,367	5.5	1,246	290	398	558	121
Size of consumer unit: One person . . . . .	1,819	6.3	1,657	431	450	777	162
Two persons . . . . .	925	5.9	813	247	282	284	112
Two or more persons . . . . .	1,419	5.4	1,254	345	366	542	165
Three persons . . . . .	1,695	5.7	1,530	394	468	668	165
Four persons . . . . .	1,737	5.7	1,575	384	515	675	162
Five persons or more . . . . .	2,244	6.5	2,062	478	590	994	182
Income before taxes:	1,649	5.0	1,505	435	512	557	144
Complete income reporters <sup>3</sup>							
Under \$5,000 . . . . .	1,501	5.7	1,349	352	422	574	152
\$5,000 to \$9,999 . . . . .	487	4.5	428	126	156	147	59
\$10,000 to \$14,999 . . . . .	546	4.7	469	110	221	137	77
\$15,000 to \$19,999 . . . . .	895	5.3	802	139	297	367	93
\$20,000 to \$29,999 . . . . .	970	5.0	856	186	322	348	114
\$30,000 to \$39,999 . . . . .	1,333	5.4	1,191	310	416	465	142
\$40,000 to \$49,999 . . . . .	1,695	5.4	1,510	420	494	597	185
\$50,000 and over . . . . .	2,225	5.9	1,995	526	576	892	230
	3,435	6.6	3,148	880	788	1,480	287

<sup>1</sup> Some expenditures for vacation trips are not included in this category, such as food, lodging, and vehicle expenses.

<sup>2</sup> Other equipment and services includes pets, toys, and playground equipment. <sup>3</sup> A complete reporter is a consumer unit providing values for at least one of the major sources of income.

Source: U.S. Bureau of Labor Statistics, *Consumer Expenditure Survey*, annual.

### No. 394. Quantity of Books Sold and Value of U.S. Domestic Consumer Expenditures, by Type of Publication and Market Area: 1982 to 1989

[Includes all titles released by publishers in the U.S. and imports which appear under the imprints of American publishers. Multi-volume sets, such as encyclopedias, are counted as one unit]

TYPE OF PUBLICATION AND MARKET AREA	UNITS SOLD (mil.)						CONSUMER EXPENDITURES (mil. dol.)					
	1982	1985	1986	1987	1988	1989, prel.	1982	1985	1986	1987	1988	1989, prel.
<b>Total <sup>1</sup></b>	<b>1,723</b>	<b>1,788</b>	<b>1,798</b>	<b>1,804</b>	<b>1,871</b>	<b>2,003</b>	<b>9,889</b>	<b>12,611</b>	<b>13,333</b>	<b>14,671</b>	<b>16,111</b>	<b>18,036</b>
Hardbound, total . . . . .	647	694	710	738	757	827	6,190	7,969	8,480	9,326	10,055	11,243
Softbound, total . . . . .	1,076	1,094	1,088	1,066	1,114	1,177	3,699	4,642	4,853	5,345	6,056	6,793
Trade . . . . .	459	553	563	577	610	685	2,484	3,660	3,878	4,453	5,070	6,040
Adult . . . . .	315	360	352	357	365	404	2,028	2,871	2,969	3,399	3,806	4,520
Juvenile . . . . .	144	193	210	220	244	281	456	789	910	1,054	1,264	1,520
Religious . . . . .	144	134	133	128	121	124	706	926	987	1,104	1,168	1,274
Professional . . . . .	106	110	117	120	125	128	1,630	2,043	2,208	2,350	2,573	2,769
Bookclubs . . . . .	133	130	126	121	112	109	510	582	591	660	671	684
Elit text . . . . .	233	234	228	207	202	213	1,067	1,415	1,534	1,633	1,716	1,909
College text . . . . .	115	110	111	119	130	136	1,388	1,575	1,670	1,803	1,998	2,144
Mail order publications . . . . .	133	121	124	128	138	152	581	650	672	679	720	822
Mass market paperbacks-rack sized . . . . .	382	382	381	391	419	441	1,102	1,244	1,249	1,411	1,556	1,693
General retailers . . . . .	756	829	845	864	914	994	3,743	5,103	5,392	6,117	6,875	7,914
College stores . . . . .	224	225	225	230	243	253	1,910	2,309	2,430	2,636	2,904	3,164
Libraries and institutions <sup>2</sup> . . . . .	80	80	81	81	82	87	888	1,090	1,161	1,252	1,361	1,500
Schools <sup>2</sup> . . . . .	262	260	255	236	233	246	1,313	1,685	1,820	1,946	2,065	2,290
Direct to consumers . . . . .	319	300	299	299	302	316	1,889	2,214	2,309	2,477	2,638	2,859
Other . . . . .	82	94	94	95	97	108	146	210	220	244	267	309

<sup>1</sup> Types of publications include university press publications and subscription reference works, not shown separately. <sup>2</sup> Elit libraries included in schools.

Source: Book Industry Study Group, Inc., New York, NY, *Book Industry Trends*, annual. (Copyright.)

**No. 395. New Books and Editions Published, and Imports, by Subject: 1980 to 1989**

[Covers listings in Bowker's Weekly Record in year shown, plus titles issued in that year which were listed in following 6 months. Comprises new books (published for first time) and new editions (with changes in text or format). Excludes government publications; books sold only by subscription; dissertations; periodicals and quarterlies; and pamphlets under 49 pages. See also *Historical Statistics, Colonial Times to 1970*, series R 191-216]

SUBJECT	NEW BOOKS AND NEW EDITIONS						IMPORTS					
	1980	1985	1986	1987	1988	1989, prel.	1980	1985	1986	1987	1988	1989, prel.
<b>Total</b> .....	<b>42,377</b>	<b>50,070</b>	<b>52,637</b>	<b>56,057</b>	<b>55,483</b>	<b>45,718</b>	<b>5,390</b>	<b>7,304</b>	<b>7,749</b>	<b>8,229</b>	<b>8,722</b>	<b>6,161</b>
Agriculture .....	461	536	564	652	666	469	104	118	124	135	129	82
Art .....	1,691	1,545	1,697	1,693	1,602	1,320	157	166	168	128	154	113
Biography .....	1,891	1,953	2,152	2,259	2,250	1,886	126	216	188	173	190	112
Business .....	1,185	1,518	1,604	1,462	1,647	1,361	74	196	159	154	194	125
Education .....	1,011	1,085	1,029	1,081	1,113	892	133	211	220	276	239	209
Fiction .....	2,835	5,105	5,578	6,298	5,564	5,103	71	171	247	291	287	93
General works .....	1,643	2,905	2,484	2,620	2,475	1,939	132	329	346	382	372	268
History .....	2,220	2,327	2,471	2,882	3,260	2,227	296	395	384	482	509	312
Home economics .....	879	1,228	1,103	1,168	1,057	814	40	41	42	39	36	26
Juvenile .....	2,859	3,801	4,516	4,642	4,954	4,735	58	92	112	109	104	59
Language .....	529	632	688	699	628	504	134	216	334	201	206	160
Law .....	1,102	1,349	1,385	1,544	1,343	915	112	170	190	225	191	140
Literature .....	1,686	1,964	2,145	2,358	2,272	1,991	183	267	261	295	330	233
Medicine .....	3,292	3,579	3,445	3,995	3,900	2,939	671	598	665	757	779	588
Music .....	357	364	356	352	329	335	35	70	66	66	74	67
Philosophy, psychology .....	1,429	1,559	1,669	1,845	1,955	1,776	218	267	263	331	275	297
Poetry and drama .....	1,179	1,166	1,278	1,236	1,270	992	120	220	216	180	224	131
Religion .....	2,055	2,564	2,788	2,850	2,746	2,151	94	173	141	163	162	137
Science .....	3,109	3,304	3,360	3,658	3,743	2,795	1,069	1,242	1,214	1,302	1,396	1,012
Sociology, economics .....	7,152	7,441	7,912	8,115	8,247	6,835	1,050	1,559	1,635	1,736	1,825	1,348
Sports, recreation .....	971	1,154	1,192	1,263	1,099	905	85	107	110	97	97	68
Technology .....	2,337	2,526	2,698	2,756	2,694	2,251	373	419	618	651	897	545
Travel .....	504	465	543	629	669	586	55	61	46	56	52	33

<sup>1</sup> Increase is due largely to a major improvement in the recording of paperbound books. <sup>2</sup> Revised since originally published.

Source: R. R. Bowker Co., New York, NY, *Publishers Weekly*. (Copyright by Reed Publishing.)

**No. 396. Books and Periodicals—Average (Mean) Retail Prices: 1980 to 1989**

[See headnote, table 395. For definition of mean, see Guide to Tabular Presentation]

SUBJECT	BOOKS (per vol.)				SUBJECT	PERIODICALS <sup>3</sup>			
	1980	1985	1988	1989, prel.		1980	1985	1988	1989
<b>Hardcover <sup>1</sup></b> .....	<b>\$24.64</b>	<b>\$31.46</b>	<b>\$39.00</b>	<b>\$40.10</b>	<b>Total</b> .....	<b>\$34.54</b>	<b>\$59.70</b>	<b>\$77.93</b>	<b>\$85.37</b>
Agriculture .....	27.55	36.77	49.36	51.62	Agriculture .....	15.24	26.05	33.56	36.62
Art .....	27.70	35.15	39.96	52.17	Business and economics .....	25.42	44.41	53.89	57.93
Biography .....	19.77	22.20	25.99	27.37	Chemistry and physics .....	137.45	238.43	329.99	367.99
Business .....	22.45	28.84	37.51	37.86	Children's periodicals .....	7.85	13.31	16.39	16.95
Education .....	17.01	27.28	33.55	37.48	Engineering .....	49.15	84.38	114.83	128.37
Fiction .....	12.46	15.29	17.63	18.66	Fine and applied arts .....	18.67	27.03	32.43	35.07
General reference .....	29.84	37.91	50.35	48.73	History .....	15.77	25.55	30.16	32.27
History .....	22.78	27.02	33.44	35.43	Home economics .....	24.63	41.04	54.73	60.92
Home economics .....	13.31	17.50	21.38	22.11	Industrial arts .....	20.70	35.09	44.20	48.68
Juvenile .....	8.16	9.95	11.79	12.13	Journalism, communications .....	27.34	46.08	53.39	58.13
Language .....	22.16	28.68	40.42	49.43	Labor and industrial relations .....	18.84	34.75	44.06	50.65
Law .....	33.25	41.70	50.85	57.33	Law .....	23.00	35.15	43.33	46.01
Literature .....	18.70	24.53	30.85	31.69	Library and information science .....	23.25	40.66	51.61	54.45
Medicine .....	34.28	44.36	66.59	69.70	Literature and languages .....	15.30	24.18	28.04	29.41
Music .....	21.79	28.79	36.95	41.69	Mathematics, botany, geology, and general science .....	67.54	116.93	159.33	173.21
Philosophy, psychology .....	21.70	28.11	34.75	36.12	Medicine .....	73.37	137.92	180.67	199.22
Poetry and drama .....	17.85	22.14	28.02	30.76	Philosophy and religion .....	14.73	24.30	27.09	28.62
Religion .....	17.61	19.13	26.73	27.87	Education .....	23.45	37.81	47.95	51.43
Science .....	37.45	51.19	66.91	68.35	Physical education and recreation .....	13.83	23.72	28.60	30.16
Sociology, economics .....	31.76	33.33	37.25	41.09	Political science .....	19.30	32.72	41.55	45.03
Sports, recreation .....	15.92	23.43	27.33	29.91	Psychology .....	41.95	76.34	100.57	114.52
Technology .....	33.64	50.37	65.26	69.86	Sociology and anthropology .....	27.56	50.87	64.27	66.73
Travel .....	16.80	24.66	26.22	31.93	Zoology .....	44.58	90.75	127.33	142.13
<b>Paperbacks:</b> .....					General interest periodicals .....	19.87	26.41	28.29	29.69
Mass market <sup>2</sup> .....	(NA)	3.63	4.55	4.38					
Trade or other .....	8.60	13.98	15.01	16.60					

NA Not available. <sup>1</sup> Excludes publications of U.S. and other governmental units, books sold only by subscription, and dissertations. <sup>2</sup> "Pocket-sized" books sold primarily through magazine and news outlets, supermarkets, variety stores, etc. <sup>3</sup> Average annual subscription prices.

Source: R. R. Bowker Co., New York, NY, *Books, Publishers Weekly*, March 1990; *Bowker Annual: Library and Book Trade Almanac*; Periodicals, *Library Journal*, April 15, 1990, and earlier issues. (Copyright by Reed Publishing.)

### No. 397. Phonograph Records and Other Recording Media—Manufacturers' Shipments and Value: 1975 to 1989

[Domestic shipments based on reports of manufacturers representing more than 85 percent of the market. Domestic value data based on list prices of records and other media. Minus sign (-) indicates returns greater than shipments]

TYPE OF MEDIA	UNIT SHIPMENTS <sup>1</sup> (mil.)					MANUFACTURERS' VALUE (mil. dol.)				
	1975	1980	1985	1988	1989	1975	1980	1985	1988	1989
<b>Total</b> <sup>2</sup>	<b>531.8</b>	<b>683.7</b>	<b>653.0</b>	<b>761.6</b>	<b>800.7</b>	<b>2,378.3</b>	<b>3,862.4</b>	<b>4,387.8</b>	<b>6,253.0</b>	<b>6,464.1</b>
Phonograph records	421.0	487.1	287.7	138.0	71.2	1,696.5	2,559.6	1,561.5	712.7	336.7
Long-playing albums <sup>3</sup>	257.0	322.8	167.0	72.4	34.6	1,485.0	2,290.3	1,280.5	532.3	220.3
Singles	164.0	164.3	120.7	65.6	36.6	211.5	269.3	281.0	180.4	116.4
Pre-recorded	110.8	196.6	342.6	472.6	522.5	681.8	1,302.8	2,436.8	3,442.4	3,540.4
8-track cartridges	94.6	86.4	3.5	-	-	583.0	526.4	25.3	(X)	(X)
Cassettes	16.2	110.2	339.1	450.1	446.3	98.8	776.4	2,411.5	3,385.1	3,345.8
Cassette singles	(X)	(X)	(X)	22.5	76.2	(X)	(X)	(X)	57.3	194.6
Compact disks (CD's)	(X)	(X)	22.6	149.7	207.2	(X)	(X)	389.5	2,089.9	2,587.7
CD singles	(X)	(X)	(X)	1.5	-0.1	(X)	(X)	(X)	8.0	-0.7
Music video	(X)	(X)	(X)	0.1	6.0	(X)	(X)	(X)	1.7	115.4

- Rounds to zero. X Not applicable. <sup>1</sup> Units net after returns. <sup>2</sup> Excludes music video. <sup>3</sup> Includes extended play albums.

Source: Recording Industry Association of America, Inc., Washington, DC, *Inside the Recording Industry: A Statistical Overview—1989 Update* (copyright), and earlier issues.

### No. 398. Household Camera and Video Equipment Use, by Selected Characteristic: 1985 and 1988

[As of January, except as indicated. Based on surveys and subject to sampling error; for details, see source]

CHARACTERISTIC	TOTAL HOUSEHOLDS <sup>1</sup> (1,000)		PERCENT OWNING—						PERCENT USING VIDEO TRANSFER SERVICE <sup>2</sup>	
			Camera		Video equipment					
					Video cassette recorder		Video camera/camcorder			
	1985	1988	1985	1988	1985	1988	1985	1988	1985	1988
<b>Total</b>	<b>85,407</b>	<b>89,479</b>	<b>85.1</b>	<b>91.9</b>	<b>20.9</b>	<b>66.5</b>	<b>2.2</b>	<b>7.2</b>	<b>1.2</b>	<b>5.5</b>
Age of householder:										
Under 25 years old	2,985	4,255	93.0	95.1	18.2	66.9	-	3.6	-	4.9
25 to 34 years old	17,841	24,698	92.3	95.5	24.7	74.5	3.4	7.9	0.8	4.8
35 to 44 years old	17,638	20,056	94.5	96.0	34.2	81.0	4.2	10.2	2.7	7.1
45 to 54 years old	14,042	13,569	90.7	94.5	23.7	69.8	1.0	9.3	1.0	7.9
55 years old and over	32,901	26,900	74.2	83.5	10.5	45.3	1.2	3.9	0.8	3.7
Educational attainment of householder:										
Some high school or less	11,329	6,249	72.5	81.2	6.6	46.0	1.1	3.2	1.2	2.4
High school graduate	33,240	27,466	83.0	90.2	17.8	58.6	1.2	6.8	0.4	4.0
Some college	18,384	25,978	90.4	93.1	24.0	69.4	3.0	5.9	1.8	4.8
College graduate or more	22,454	29,787	90.0	94.8	29.6	75.4	3.9	9.8	1.5	8.0
Household income:										
Under \$10,000	14,178	14,373	65.6	79.7	6.7	30.8	-	1.8	1.0	1.9
\$10,000 to \$19,999	15,467	17,705	82.9	90.1	7.0	50.5	0.4	0.9	-	3.2
\$20,000 to \$29,999	13,635	16,634	87.1	94.1	17.9	72.5	0.5	5.6	0.5	5.4
\$30,000 to \$44,999	18,723	19,223	93.5	95.8	38.0	78.4	4.7	10.0	1.4	5.9
\$45,000 or more	23,404	21,544	89.2	96.1	26.1	85.9	3.8	14.6	2.3	9.4

- Represents or rounds to zero. <sup>1</sup> As of March the prior year. <sup>2</sup> Anytime during the prior year.

Source: Photo Marketing Association International, Jackson, MI, *Consumer Photographic Survey, 1985 and 1988*. (Copyright.)

### No. 399. Floral and Nursery Products—Grower Cash Receipts, Imports, and Consumption: 1987 to 1989

[In millions of dollars, except per capita. Based on ERS estimates and a survey of 28 commercial floriculture states. For details, see source]

ITEM	Total	Cut flowers	OTHER NURSERY ORNAMENTALS				
			Potted flowering plants	Foliage plants	Bedding plants	Cut cultivated greens	Other <sup>1</sup>
<b>Wholesale value:</b>							
1987	6,655	494	647	606	821	99	3,988
1988	6,969	514	643	567	839	102	4,304
1989, prel	7,295	527	661	560	964	111	4,471
<b>Imports:</b>							
1987	376	244	14	22	(NA)	24	72
1988	429	284	16	22	(NA)	22	86
1989, prel	526	316	20	28	(NA)	16	147
<b>Consumption:</b>							
1987	6,945	719	637	603	821	118	4,046
1988	7,292	778	626	557	839	116	4,378
1989, prel	7,677	815	636	545	964	116	4,601
<b>Per capita (dol.):<sup>2</sup></b>							
1987	28.53	2.95	2.62	2.48	3.37	0.49	16.62
1988	29.67	3.17	2.55	2.27	3.41	0.47	17.81
1989, prel	30.92	3.32	2.59	2.22	3.92	0.47	18.72

NA Not available. <sup>1</sup> Includes annuals and perennials (except Christmas trees), for example, bulbs, live plants, turfgrass.

<sup>2</sup> Based on U.S. Bureau of the Census estimated resident population as of July 1.  
Source: U.S. Department of Agriculture, Economic Research Service, *Floriculture and Environmental Horticulture Products: A Production and Marketing Statistical Review: 1960 to 1988*, 1990 and unpublished data.

### No. 400. Household Participation in Lawn and Garden Activities—Summary: 1985 to 1989

[Based on national sample survey conducted by the Gallup Organization. For the 1989 survey, a total of 2,053 households were personally interviewed at home. For composition of region, see fig. 1, inside front cover. Subject to sampling variability, see source]

ACTIVITY	1985	1986	1987	1988	1989	CHARACTERISTIC OF RESPONDENT	1989, PERCENT DISTRIBUTION	
							Households	Sales
Number of households (mil.)	87.9	88.5	89.5	91.1	92.8	<b>Total</b> . . . . .	<b>100</b>	<b>100</b>
Percent of households engaged in—						18-29 years old . . . . .	21	21
Lawn care . . . . .	64	58	59	58	57	30-49 years old . . . . .	41	46
Indoor houseplants . . . . .	42	41	41	41	37	50 years old and over . . . . .	38	33
Flower gardening . . . . .	41	44	43	42	41	Northeast . . . . .	23	24
Vegetable gardening . . . . .	37	38	33	34	32	Midwest . . . . .	28	27
Shrub care . . . . .	30	31	33	34	29	South . . . . .	29	25
Insect control . . . . .	27	33	30	32	29	West . . . . .	20	24
Landscaping . . . . .	23	22	24	22	22	City . . . . .	23	20
Tree care . . . . .	20	24	25	23	23	Suburb . . . . .	35	38
Flower bulbs . . . . .	19	24	27	24	23	Small town . . . . .	12	10
Fruit trees . . . . .	17	17	18	16	14	Rural . . . . .	30	32
Raising transplants <sup>1</sup> . . . . .	11	13	15	11	11			
Growing berries . . . . .	7	8	9	8	7			
Ornamental gardening . . . . .	7	6	8	6	5			
Herb gardening . . . . .	(NA)	6	7	5	7			
Container gardening . . . . .	(NA)	12	12	11	11			
Total retail sales (mil. dol.)	12,026	14,206	17,491	15,518	16,285			

NA Not available. <sup>1</sup> Starting plants in advance of planting in ground.

Source: The National Gardening Association, Burlington, VT, *National Gardening Survey*, annual. (Copyright.)

### No. 401. Sport Fishing and Hunting Licenses—Number and Cost: 1970 to 1988

[For fiscal years ending in year shown; see text, section 9. See also *Historical Statistics, Colonial Times to 1970*, series H 875-876]

ITEM	Unit	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988
<b>Fishing licenses: Sales</b> . . . . .	<b>Million</b>	<b>31.1</b>	<b>34.7</b>	<b>35.2</b>	<b>37.2</b>	<b>37.8</b>	<b>36.1</b>	<b>35.7</b>	<b>35.9</b>	<b>36.5</b>	<b>36.8</b>
Resident . . . . .	Million	26.8	30.0	30.1	32.1	32.5	31.0	30.5	30.4	31.0	31.3
Nonresident . . . . .	Million	4.3	4.7	5.1	5.1	5.3	5.1	5.2	5.4	5.5	5.5
Paid license holders . . . . .	Million	24.4	27.5	28.0	29.6	29.1	29.0	29.7	30.4	30.3	31.4
Cost to anglers . . . . .	Mil. dol.	91	142	196	227	244	260	282	302	315	330
<b>Hunting licenses: Sales</b> . . . . .	<b>Million</b>	<b>22.2</b>	<b>25.9</b>	<b>27.0</b>	<b>28.3</b>	<b>28.9</b>	<b>28.5</b>	<b>27.7</b>	<b>27.9</b>	<b>28.8</b>	<b>30.0</b>
Resident . . . . .	Million	21.0	24.7	25.6	26.7	27.2	26.8	26.1	26.3	27.1	27.7
Nonresident . . . . .	Million	1.2	1.3	1.4	1.6	1.7	1.7	1.6	1.7	1.7	2.0
Paid license holders <sup>1</sup> . . . . .	Million	15.4	16.6	16.3	16.7	16.4	16.0	15.9	15.8	15.8	15.9
Cost to hunters . . . . .	Mil. dol.	102	155	222	259	277	292	301	323	345	381
<b>Federal duck stamps sold</b> . . . . .	<b>1,000</b>	<b>2,072</b>	<b>2,222</b>	<b>2,090</b>	<b>1,907</b>	<b>1,926</b>	<b>1,868</b>	<b>1,914</b>	<b>1,780</b>	<b>1,794</b>	<b>1,662</b>

<sup>1</sup> Resident and nonresident. Includes multiple counting of license holders who bought nonresident licenses as well as a home State license. "Licenses" includes licenses, tags, permits and stamps.

Source: U.S. Fish and Wildlife Service, *Federal Aid in Fish and Wildlife Restoration*, annual.

### No. 402. Household Pet Ownership: 1983 and 1987

[Based on a sample survey of 40,000 households in 1987 and 20,000 in 1983; for details, see source]

ITEM	Unit	DOG		CAT		PET BIRD		HORSE	
		1983	1987	1983	1987	1983	1987	1983	1987
Households owning companion pets <sup>1</sup> . . . . .	Million	36.1	34.7	24.2	27.7	4.2	5.2	2.4	2.6
Percent of all households . . . . .	Percent	42.5	38.2	28.4	30.5	5.0	5.7	2.8	2.8
Average number owned . . . . .	Number	1.5	1.5	2.2	2.0	2.5	2.5	3.0	2.6
Total companion pet population <sup>1</sup> . . . . .	Million	55.6	52.4	52.2	54.6	10.4	12.9	7.0	6.6
Households obtaining veterinary care <sup>2</sup> . . . . .	Percent	74	78	47	60	8	8	43	47
Average visits per year . . . . .	Number	1.8	2.4	1.0	1.6	0.1	0.2	1.4	1.9
Average annual cost . . . . .	Dollars	66.87	82.86	36.83	54.26	(NA)	4.47	(NA)	120.75
Total expenditures . . . . .	Mil. dol.	2,564	3,012	955	1,573	(NA)	26	180	330
<b>PERCENT DISTRIBUTION OF HOUSEHOLDS OWNING PETS</b>									
Annual household income: Under \$10,000 . . . . .	Percent	19	14	20	14	21	17	16	14
\$10,000 to \$19,999 . . . . .	Percent	53	19	53	20	54	20	53	22
\$20,000 to \$29,999 . . . . .	Percent	23	18	27	19	25	18	20	20
\$30,000 to \$44,999 . . . . .	Percent	28	23	27	22	25	21	31	21
\$45,000 and over . . . . .	Percent	26	26	27	25	24	24	23	23
Family size: <sup>1</sup> One person . . . . .	Percent	12	13	15	16	13	14	8	10
Two persons . . . . .	Percent	30	30	30	30	24	24	26	27
Three persons . . . . .	Percent	22	23	20	21	20	20	24	23
Four or more persons . . . . .	Percent	36	34	35	33	43	42	42	40

NA Not available. <sup>1</sup> As of December for 1987; as of May for 1983. <sup>2</sup> During 1987 for 1987; for 1983, between May 1982-1983.

Source: American Veterinary Medical Association, Schaumburg, IL, *The Veterinary Services Market for Companion Animals, July 1983 and August 1988* (copyright).

## No. 403. Selected Spectator Sports: 1980 to 1989

[See also *Historical Statistics, Colonial Times to 1970*, series H 865-870 and H 872]

SPORT	Unit	1980	1982	1983	1984	1985	1986	1987	1988	1989
Baseball, major leagues: <sup>1</sup>										
Attendance . . . . .	1,000 . .	43,746	45,415	46,269	45,262	47,742	48,452	53,182	53,800	55,661
Regular season . . . . .	1,000 . .	43,014	44,587	45,540	44,742	46,824	47,506	52,011	52,999	55,173
National League . . . . .	1,000 . .	21,124	21,507	21,549	20,781	22,292	22,333	24,734	24,499	25,324
American League . . . . .	1,000 . .	21,890	23,080	23,991	23,961	24,532	25,173	27,277	28,500	29,849
Playoffs . . . . .	1,000 . .	407	443	425	248	591	624	784	541	265
World Series . . . . .	1,000 . .	325	385	304	272	327	322	387	260	223
Players' salaries: <sup>2</sup>										
Average . . . . .	\$1,000 . .	144	241	289	329	371	413	412	439	497
Basketball: <sup>3 4</sup>										
Men's:										
College:										
Teams . . . . .	Number . .	1,258	1,264	1,266	1,260	1,266	1,265	1,270	1,277	1,264
Attendance . . . . .	1,000 . .	30,692	31,106	31,471	31,684	32,057	31,645	31,911	32,504	33,020
Women's:										
College:										
Teams . . . . .	Number . .	(NA)	1,095	1,114	1,147	1,166	1,188	1,188	1,190	1,190
Attendance . . . . .	1,000 . .	(NA)	2,397	2,502	2,870	2,944	3,020	3,121	3,301	3,576
Pro: <sup>5</sup>										
Teams . . . . .	Number . .	22	23	23	23	23	23	23	23	25
Attendance, total <sup>6</sup> . . . . .	1,000 . .	10,697	10,712	10,262	11,128	11,534	12,210	13,190	14,070	16,586
Regular season . . . . .	1,000 . .	9,938	9,965	9,638	10,015	10,506	11,215	12,065	12,654	15,465
Average per game . . . . .	Number . .	11,017	10,593	10,220	10,620	11,141	11,893	12,765	13,419	15,088
Playoffs . . . . .	1,000 . .	740	727	606	1,096	985	979	1,091	1,397	1,077
Players' salaries:										
Average . . . . .	\$1,000 . .	170	212	249	275	325	375	440	510	600
Football:										
College: <sup>4</sup>										
Teams . . . . .	Number . .	642	649	651	654	661	666	667	673	673
Attendance . . . . .	1,000 . .	35,541	36,539	36,302	36,652	36,312	36,388	36,463	35,581	36,406
National Football League: <sup>7</sup>										
Teams . . . . .	Number . .	28	28	28	28	28	28	28	28	28
Attendance, total <sup>8</sup> . . . . .	1,000 . .	14,092	14,504	13,953	14,053	14,058	17,304	15,180	17,024	17,399
Regular season . . . . .	1,000 . .	13,392	13,367	13,277	13,398	13,345	13,588	14,106	13,539	13,625
Average per game . . . . .	Number . .	59,787	58,472	59,273	59,813	59,567	60,663	54,315	60,446	60,829
Postseason games <sup>10</sup> . . . . .	1,000 . .	700	1,137	676	655	711	734	656	658	685
Players' salaries:										
Average . . . . .	\$1,000 . .	79	102	127	158	193	203	212	239	300
Median base salary . . . . .	\$1,000 . .	70	80	90	110	140	150	175	180	200
National Hockey league: <sup>12</sup>										
Regular season attendance . . . . .	1,000 . .	10,534	10,710	11,021	11,359	11,633	11,621	12,116	12,418	12,579
Playoffs attendance . . . . .	1,000 . .	977	1,058	1,008	1,107	1,109	1,152	1,336	1,323	1,424
Players' salaries: <sup>13</sup>										
Average . . . . .	\$1,000 . .	108	124	130	145	150	158	172	188	210
Horseracing: <sup>14 15</sup>										
Racing days . . . . .	Number . .	13,133	13,523	13,545	13,683	13,745	13,853	14,208	14,285	14,240
Attendance . . . . .	1,000 . .	74,690	76,858	75,693	74,076	73,346	70,580	70,105	69,949	69,551
Pari-mutuel turnover . . . . .	Mil. dol . .	11,218	11,888	11,733	12,032	12,222	12,421	13,122	13,616	13,867
Revenue to government . . . . .	Mil. dol . .	713	653	639	650	625	587	608	596	585
Greyhound: <sup>14</sup>										
Total performances . . . . .	Number . .	5,855	6,499	8,257	8,661	9,590	10,654	11,156	12,904	13,393
Attendance . . . . .	1,000 . .	20,874	21,375	22,140	22,076	23,853	25,759	26,215	26,477	33,818
Pari-mutuel turnover . . . . .	Mil. dol . .	2,064	2,179	2,306	2,421	2,702	3,005	3,193	3,291	3,278
Revenue to government . . . . .	Mil. dol . .	152	160	170	177	201	215	221	230	239
Jai alai: <sup>16</sup>										
Total performances . . . . .	Number . .	1,616	2,107	2,795	2,721	2,736	2,761	2,906	3,615	3,835
Games played . . . . .	Number . .	25,349	32,947	44,425	42,842	32,260	36,276	38,476	47,716	49,871
Attendance . . . . .	1,000 . .	3,939	4,948	4,829	4,878	4,722	6,757	6,816	6,414	5,227
Pari-mutuel turnover . . . . .	Mil. dol . .	(NA)	622.8	619.8	665.9	664.0	667.6	707.5	663.6	553.0
Revenue to government . . . . .	Mil. dol . .	35	45	45	48	50	50	51	44	39
Professional rodeo: <sup>17</sup>										
Rodeos . . . . .	Number . .	631	643	650	643	617	616	637	707	741
Performances . . . . .	Number . .	1,921	1,936	1,964	1,936	1,887	1,868	1,832	2,037	2,128
Members . . . . .	Number . .	5,114	5,461	5,353	5,324	5,239	5,603	5,342	5,479	5,580
Permit-holders (rookies) . . . . .	Number . .	4,038	4,105	2,929	2,911	2,534	2,700	2,746	3,310	3,584

NA Not available. <sup>1</sup> Source: The National League of Professional Baseball Clubs, New York, NY, *National League Book*; and The American League of Professional Baseball Clubs, New York, NY, *American League Book*. <sup>2</sup> Source: Major League Baseball Players Association, New York, NY. <sup>3</sup> Season ending in year shown. <sup>4</sup> Source: National Collegiate Athletic Assn., Mission, KS. For women's attendance total, excludes double-headers with men's teams. <sup>5</sup> Source: National Basketball Assn., New York, NY. <sup>6</sup> Includes All-Star game, not shown separately. <sup>7</sup> Source: National Football League, New York, NY. <sup>8</sup> Beginning 1986, includes preseason attendance, not shown separately. <sup>9</sup> Season was interrupted by a strike. <sup>10</sup> Includes Pro Bowl, a non-championship game and Super Bowl. <sup>11</sup> Source: National Football League Players Association, Washington, DC. <sup>12</sup> Source: National Hockey League, Montreal, Quebec. <sup>13</sup> Source: National Hockey League Players Association, Toronto, Canada. <sup>14</sup> Source: Association of Racing Commissioners International, Inc., Lexington, KY. <sup>15</sup> Includes thoroughbred, harness, quarter horse, and fairs. <sup>16</sup> Florida, Connecticut, and Rhode Island only; data not available for Nevada. <sup>17</sup> Source: National Association of Jai-alai Frontons, Inc., Daytona Beach, FL. <sup>18</sup> Source: Professional Rodeo Cowboys Association, Colorado Springs, CO, *Official Professional Rodeo Media Guide*, annual. (Copyright.)

Source: Compiled from sources listed in footnotes.



## No. 404. Selected Recreational Activities: 1970 to 1989

[See also *Historical Statistics, Colonial Times to 1970*, series H 862-864, H 871, H 874, and H 877]

ACTIVITY	Unit	1970	1975	1980	1984	1985	1986	1987	1988	1989
Softball, amateur: <sup>1</sup>										
Total participants <sup>2</sup>	Million	16	26	30	35	41	41	41	41	41
Youth participants	1,000	255	450	650	700	712	717	720	722	840
Adult teams	1,000	29	66	110	146	152	172	178	182	184
Youth teams <sup>3</sup>	1,000	2	9	18	29	31	35	38	40	43
Golfers (one round or more) <sup>4</sup>	1,000	11,245	13,036	15,112	17,009	17,520	20,200	21,700	23,400	24,700
Golf rounds played	1,000	286,169	308,562	357,701	402,603	414,777	421,000	434,000	487,000	474,000
Golf facilities	Number	10,188	11,370	12,005	12,278	12,346	12,384	12,407	12,582	12,658
Classification:										
Private	Number	4,619	4,770	4,839	4,831	4,861	4,885	4,898	4,897	4,862
Daily fee	Number	4,248	5,014	5,372	5,566	5,573	5,587	5,583	5,748	5,833
Municipal	Number	1,321	1,586	1,794	1,881	1,912	1,912	1,926	1,937	1,963
Tennis: <sup>5</sup>										
Players	1,000	10,655	<sup>6</sup> 29,201	(NA)	<sup>8</sup> 19,456	<sup>8</sup> 18,951	<sup>8</sup> 18,017	<sup>8</sup> 16,911	<sup>8</sup> 17,314	<sup>8</sup> 18,844
Courts	1,000	(NA)	130	(NA)	220	220	220	220	220	220
Indoor	1,000	(NA)	8	(NA)	14	14	14	14	14	14
Tenpin bowling:										
Participants, total <sup>9</sup>	Million	51.8	62.5	72.0	67.0	67.0	67.0	68.0	68.0	71.0
Male	Million	24.8	29.9	34.0	32.0	32.0	32.0	33.1	33.1	35.4
Female	Million	27.0	32.6	38.0	35.0	35.0	35.0	34.9	34.9	35.6
Establishments <sup>10</sup>	Number	9,140	8,577	8,591	8,351	8,275	8,149	8,031	7,923	7,764
Lanes <sup>10</sup>	1,000	141	141	154	155	155	153	151	150	148
Membership, total <sup>10 11</sup>	1,000	7,733	8,751	9,595	8,401	8,064	7,839	7,421	7,167	6,866
American Bowling Congress	1,000	4,210	4,300	4,688	3,791	3,657	3,625	3,424	3,313	3,165
Women's Bowling Congress	1,000	2,988	3,692	4,118	3,866	3,714	3,551	3,351	3,189	3,026
Young American Bowling Alliance <sup>12</sup>	1,000	535	759	789	744	693	663	646	665	675
Motion picture theaters <sup>13 14</sup>	1,000	14	15	18	20	21	23	24	23	23
Four-wall	1,000	10	11	14	17	18	20	21	22	22
Drive-in	1,000	4	4	4	3	3	3	3	2	1
Receipts, box office	Mill. dol	1,225	2,115	2,749	4,031	3,749	3,778	4,253	4,458	5,033
Admission, average price	Dollars	1.55	2.05	2.69	3.36	3.55	3.71	3.91	4.11	4.45
Attendance	Million	921	1,033	1,022	1,199	1,056	1,017	1,089	1,085	1,133
Bicycles: <sup>15</sup>										
Domestic shipments	Million	5.0	5.6	6.9	5.9	5.8	5.3	5.2	4.5	5.3
Imports	Million	1.9	1.7	2.0	4.2	5.6	7.0	7.4	5.4	5.4
Boating: <sup>16</sup>										
Recreational boats owned	Million	8.8	9.7	11.8	13.5	13.8	14.3	14.5	15.1	15.6
Outboard boats	Million	5.2	5.7	6.8	7.3	7.4	7.6	7.5	7.7	7.9
Inboard boats	Million	0.8	0.8	1.2	1.4	1.4	1.5	1.7	1.8	1.9
Sailboats	Million	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.3	1.3
Canoes	Million	2.4	2.4	1.3	1.7	1.8	1.9	2.0	2.1	2.2
Rowboats and other	Million			1.5	1.8	1.8	1.9	2.1	2.2	2.3
Expenditures, total <sup>17</sup>	Bil. dol.	3.4	4.8	7.4	12.3	13.3	14.5	16.5	17.9	17.1
Outboard motors in use	1,000	7,215	7,649	8,241	9,400	9,733	10,081	10,469	10,860	11,225
Motors sold	1,000	430	435	315	411	392	410	444	460	430
Value, retail	Mill. dol	281	411	554	1,294	1,319	1,464	1,726	1,828	1,764
Outboard boats sold	1,000	276	328	290	317	305	314	342	355	291
Value, retail	Mill. dol	177	263	408	708	759	835	1,001	1,225	1,134
Inboard/outdrive boats sold	1,000	43	70	56	108	115	120	144	148	133
Value, retail	Mill. dol	182	420	616	1,442	1,663	1,861	2,450	2,585	2,354
All terrain vehicles:										
Vehicles in use or owned <sup>18</sup>	1,000	(NA)	(NA)	(NA)	1,600	2,000	2,300	2,475	2,517	2,393
Imports <sup>19</sup>	1,000	(NA)	(NA)	(NA)	635	683	498	317	209	121

NA Not available. <sup>1</sup> Source: Amateur Softball Association, Oklahoma City, OK. <sup>2</sup> Amateur Softball Association teams and other amateur softball teams. <sup>3</sup> Amateur Softball Association teams only. <sup>4</sup> Source: National Golf Foundation, Jupiter, FL. <sup>5</sup> Source: U.S. Tennis Association, Princeton, NJ. <sup>6</sup> Survey by A. C. Nielsen Co. <sup>7</sup> 1976 data. <sup>8</sup> Based on National Sporting Goods Association Sports Participation Survey. <sup>9</sup> For season ending in year shown. Persons 5 years old and over. Source: National Bowling Council, Washington, DC. <sup>10</sup> Source: American Bowling Congress, Greendale, WI. Season ending in year shown. <sup>11</sup> Membership totals are for U.S., Canada and for U.S. military personnel worldwide. <sup>12</sup> Prior to 1984, represents American Jr. Bowling Congress and ABC/WIBC Collegiate Division. <sup>13</sup> Source: Motion Picture Association of America, Inc., New York, NY. <sup>14</sup> Prior to 1975, figures represent theaters; thereafter, screens. <sup>15</sup> Source: Bicycle Manufacturers Association of America, Inc., Washington, DC. <sup>16</sup> Source: National Marine Manufacturers Association, Chicago, IL. <sup>17</sup> Represents estimated expenditures for new and used boats, motors, accessories, safety equipment, fuel, insurance, docking, maintenance, storage, repairs, and other expenses. <sup>18</sup> Source: Specialty Vehicle Institute of America, Irvine, CA. <sup>19</sup> Source: Motorcycle Industry Council, Inc., Irvine, CA.

Source: Compiled from sources listed in footnotes.

## No. 405. Participation in Sports Activities, by Selected Characteristics: 1989

[In thousands, except rank. For persons 7 years of age or older. Except as indicated, a participant plays a sport more than once in the year. Based on a sampling of 10,000 households]

ACTIVITY	ALL PERSONS			SEX		AGE								HOUSEHOLD INCOME (dol.)				
	Num- ber	Rank		Male	Female	7-11 yrs.	12-17 yrs.	18-24 yrs.	25-34 yrs.	35-44 yrs.	45-54 yrs.	55-64 yrs.	65 yrs. and over	Under 15,000	15,000- 24,999	25,000- 34,999	35,000- 49,999	Over 50,000
Total	222,551	(X)		108,000	114,551	17,886	20,127	26,556	44,042	36,536	24,883	21,546	30,975	53,397	39,253	34,475	41,507	53,917
Number participated in:																		
Aerobic exercising	25,108	9		4,173	20,935	1,047	2,181	4,950	8,228	4,644	2,089	955	1,014	4,150	3,912	3,798	5,343	7,905
Backpacking/wilderness camping	11,357	21		7,289	4,068	866	1,699	2,076	3,774	1,917	780	220	105	2,480	2,078	2,059	2,351	2,390
Baseball	15,406	17		12,132	3,273	5,014	4,365	2,131	2,084	1,256	395	159	100	3,056	2,267	2,459	3,009	4,614
Basketball	26,192	8		19,091	7,091	4,966	7,860	5,125	5,067	2,403	733	167	23	4,964	4,656	3,736	5,839	9,888
Bicycle riding	56,941	3		28,354	28,587	11,909	9,986	6,545	11,810	7,878	3,670	2,640	2,503	11,532	9,327	9,340	11,437	15,305
Bowling	40,810	6		21,252	19,556	4,244	5,147	7,550	10,617	5,972	3,139	1,933	2,108	7,760	6,614	6,964	8,519	10,732
Calisthenics <sup>1</sup>	15,141	18		6,816	8,325	1,866	2,368	2,613	3,906	2,070	934	669	714	2,637	2,324	2,367	3,113	4,700
Camping (vacation/overnight)	46,514	4		24,577	21,936	6,174	5,725	4,830	14,256	8,151	4,293	2,779	1,807	9,319	7,557	8,567	10,106	10,922
Exercise walking	86,558	2		23,680	42,879	2,308	3,177	6,164	14,258	12,640	9,920	8,213	9,877	14,664	12,206	9,922	12,554	17,213
Exercising with equipment	31,476	7		16,477	14,998	489	2,948	6,946	8,552	5,708	3,155	2,091	1,687	4,392	5,120	4,788	6,975	10,200
Fishing—fresh water	41,005	5		27,902	13,104	4,908	4,477	4,919	10,454	6,972	4,136	2,751	2,388	9,310	7,394	7,823	7,869	8,609
Fishing—salt water	11,326	22		8,311	3,015	1,012	988	1,162	2,725	1,952	1,617	923	947	1,900	1,620	1,698	2,834	3,274
Football	14,728	19		12,779	1,949	2,606	4,573	4,330	2,242	679	232	13	53	3,198	2,709	2,259	2,681	3,861
Golf	23,156	13		17,411	5,745	1,001	1,693	3,237	6,234	4,095	2,779	1,948	2,171	2,376	3,221	3,230	5,030	9,298
Hiking	23,516	12		12,605	10,910	2,366	2,467	2,774	6,400	4,420	2,571	1,492	1,026	4,968	3,982	3,585	4,845	6,136
Hunting with firearms	17,715	16		16,129	1,586	538	2,009	2,797	4,938	3,655	2,213	1,006	560	3,385	3,389	3,573	3,673	3,695
Racquetball	8,244	25		6,151	2,093	225	965	2,568	2,641	1,260	449	80	56	1,193	1,152	1,305	1,864	2,730
Running/jogging	24,803	11		14,485	10,318	2,731	4,325	5,199	6,156	3,551	1,690	628	524	4,845	4,395	4,466	4,609	7,488
Skating—alone/downhill	11,034	24		6,886	4,148	725	1,475	2,562	3,569	1,670	782	217	32	3,909	1,137	1,302	2,804	4,882
Skating—cross country	4,906	26		2,359	2,547	389	523	673	1,403	984	592	245	97	641	684	786	1,132	1,863
Soccer	11,168	23		7,450	3,718	4,708	3,518	1,214	1,106	452	123	28	18	2,204	1,156	1,581	2,213	4,015
Softball	22,092	14		13,437	8,655	3,531	4,121	4,437	6,424	2,548	767	170	93	3,862	4,060	3,411	4,975	5,784
Swimming	70,499	1		33,213	37,277	11,216	11,644	10,060	14,372	10,977	5,237	3,620	3,363	12,057	11,317	11,410	15,308	20,997
Target shooting	12,607	20		10,039	2,568	1,145	1,605	2,018	3,867	2,152	1,208	292	300	2,650	2,278	2,339	2,739	2,779
Tennis	18,844	15		10,420	8,424	1,299	3,319	4,039	5,315	2,551	1,401	643	277	2,650	2,716	2,272	4,032	2,739
Volleyball	25,071	10		12,972	12,098	2,185	5,614	5,353	7,160	3,162	1,125	381	91	5,022	4,253	4,314	5,178	6,304

X Not applicable. <sup>1</sup> Participant engaged in activity at least six times in the year.Source: National Sporting Goods Association, Mt. Prospect, IL, *Sports Participation in 1989, Series I*. (Copyright.)

**No. 406. Sporting Goods Sales, by Product Category: 1980 to 1990**

[In millions of dollars, except percent. Based on a sample survey of consumer purchases of 80,000 households, except recreational transport, which was provided by industry associations. Excludes Alaska and Hawaii]

SELECTED PRODUCT CATEGORY	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990, proj.
<b>Sales, all products</b>	<b>16,591</b>	<b>18,725</b>	<b>18,684</b>	<b>23,111</b>	<b>26,401</b>	<b>27,446</b>	<b>30,614</b>	<b>33,942</b>	<b>42,093</b>	<b>44,371</b>	<b>45,996</b>
Annual percent change <sup>1</sup>	-1.4	12.2	5.8	23.7	14.2	4.0	11.5	10.9	24.0	5.4	3.7
Percent of retail sales	1.7	1.8	1.7	2.0	2.1	2.0	2.1	2.2	2.6	2.6	(NA)
<b>Athletic and sport clothing</b> <sup>2</sup>	<b>3,127</b>	<b>3,201</b>	<b>3,014</b>	<b>3,226</b>	<b>3,432</b>	<b>3,376</b>	<b>3,931</b>	<b>4,645</b>	<b>10,736</b>	<b>11,557</b>	<b>12,286</b>
<b>Athletic and sport footwear</b> <sup>3</sup>	<b>1,731</b>	<b>1,785</b>	<b>1,900</b>	<b>2,189</b>	<b>2,381</b>	<b>2,610</b>	<b>3,199</b>	<b>3,524</b>	<b>3,772</b>	<b>5,246</b>	<b>5,583</b>
Walking shoes	(NA)	(NA)	(NA)	(NA)	(NA)	263	368	512	752	1,237	1,422
Gym shoes, sneakers	465	616	659	639	669	656	642	693	783	1,125	1,193
Jogging and running shoes	397	372	421	557	591	572	476	475	460	515	526
Tennis shoes	359	284	287	340	371	470	448	367	353	508	543
Aerobic shoes	(NA)	(NA)	10	29	54	178	333	401	327	425	404
Basketball shoes	86	80	81	119	159	185	187	169	226	293	319
Golf shoes	68	78	99	115	110	109	120	130	128	129	138
<b>Athletic and sport equipment</b> <sup>3</sup>	<b>6,487</b>	<b>6,762</b>	<b>7,114</b>	<b>7,925</b>	<b>8,317</b>	<b>8,922</b>	<b>9,477</b>	<b>9,900</b>	<b>10,705</b>	<b>11,249</b>	<b>11,752</b>
Firearms and hunting	1,351	1,454	1,567	1,666	1,620	1,699	1,675	1,804	1,894	2,033	2,093
Exercise equipment	(NA)	(NA)	723	960	1,055	1,216	1,206	1,191	1,452	1,728	1,836
Golf	386	413	493	633	630	730	828	946	1,111	1,168	1,261
Camping	646	663	735	790	699	724	833	858	945	990	1,029
Bicycles (10-12-15-18+ speed)	(NA)	(NA)	656	761	765	975	1,089	930	819	843	(NA)
Fishing tackle	539	689	586	606	616	681	773	830	766	738	760
Snow skiing	379	307	332	386	502	593	622	661	710	589	613
Tennis	237	254	277	293	315	273	260	238	264	315	337
Archery	149	169	168	179	212	212	214	224	235	244	254
Baseball and softball	158	157	154	173	153	176	180	173	174	193	198
Water skis	123	123	106	133	146	125	132	148	160	96	96
Bowling accessories	107	107	103	106	108	106	114	129	129	132	136
<b>Recreational transport</b>	<b>5,345</b>	<b>6,977</b>	<b>6,656</b>	<b>9,771</b>	<b>12,271</b>	<b>12,539</b>	<b>14,007</b>	<b>15,873</b>	<b>16,880</b>	<b>16,319</b>	<b>16,375</b>
Pleasure boats	2,718	3,656	3,684	4,612	6,209	6,753	7,372	8,906	9,637	9,269	9,270
Recreational vehicles	1,178	1,820	1,701	3,368	4,082	3,515	3,940	4,507	4,839	4,481	4,392
Bicycles and supplies	1,233	1,299	1,148	1,638	1,840	2,109	2,518	2,272	2,131	2,259	2,372
Snowmobiles	216	202	123	153	140	162	177	188	273	310	341

NA Not available. <sup>1</sup> Change from prior year shown; for 1980, change from 1979. Minus sign (-) indicates decrease. For explanation of average annual percent change, see Guide to Tabular Presentation. <sup>2</sup> Category expanded in 1988; not comparable with earlier years. <sup>3</sup> Includes other products not shown separately.

Source: National Sporting Goods Association, Mt. Prospect, IL, *The Sporting Goods Market in 1989*, and prior issues. (Copyright.)

**No. 407. Consumer Purchases of Sporting Goods, by Consumer Characteristics: 1989**

[In percent. Based on sample survey of consumer purchases of 80,000 households. Excludes Alaska and Hawaii]

CHARACTERISTIC	Total households	FOOTWEAR				EQUIPMENT					
		Aerobic shoes	Gym shoes/sneakers	Jogging/running shoes	Walking shoes	Bicycles	Camping equipment	Exercise equipment	Rifles	Shot-guns	Golf equipment
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Age of user:											
Under 14 years old	20.3	4.7	34.6	8.3	2.8	22.4	9.0	1.0	1.0	3.3	1.0
14 to 17 years old	5.4	5.4	13.8	10.5	1.9	6.3	5.0	3.0	2.5	7.1	3.0
18 to 24 years old	10.7	11.5	9.7	10.0	3.3	10.7	8.0	6.0	11.6	11.6	4.0
25 to 34 years old	17.7	30.9	16.9	28.5	12.9	21.8	29.0	24.0	34.5	22.3	30.0
35 to 44 years old	14.7	22.5	10.3	24.0	19.7	16.1	21.0	25.0	21.3	23.4	18.0
45 to 64 years old	18.7	17.6	10.7	15.2	35.7	7.2	12.0	30.0	20.3	20.1	31.0
65 years old and over	12.5	7.4	4.0	3.5	29.7	1.3	3.0	8.0	5.8	10.5	8.0
Multiple ages	-	-	-	-	-	14.2	12.0	3.0	3.0	1.7	6.0
Sex of user:											
Male	48.8	15.7	53.0	64.9	33.0	56.9	64.0	47.0	91.8	93.9	78.0
Female	51.2	84.3	47.0	35.1	67.0	30.8	21.0	46.0	7.1	5.1	15.0
Both sexes	-	-	-	-	-	12.3	15.0	6.0	1.1	1.0	7.0
Education of household head:											
Less than high school	12.7	6.8	7.6	4.7	10.7	5.0	6.0	13.0	11.2	5.0	13.0
High school	30.5	25.5	32.2	22.0	28.2	19.8	25.0	30.0	33.3	26.3	30.0
Some college	27.2	29.9	27.5	27.3	27.5	30.4	29.0	27.0	33.9	38.1	27.0
College graduate	29.6	37.8	32.7	46.0	33.6	44.8	40.0	30.0	21.6	30.6	30.0
Annual household income:											
Under \$15,000	24.9	14.1	13.6	9.8	20.4	12.3	11.0	8.0	11.0	12.3	25.0
\$15,000 to \$24,999	18.2	15.2	16.1	12.4	16.7	14.0	15.0	15.0	25.2	12.6	18.0
\$25,000 to \$34,999	16.1	16.4	17.3	16.3	15.8	16.8	16.0	12.0	19.3	18.6	16.0
\$35,000 to \$49,999	18.8	20.0	22.9	20.8	18.0	23.9	24.0	23.0	32.0	22.4	19.0
\$50,000 and over	22.0	34.3	30.1	40.7	29.1	33.0	34.0	42.0	12.5	34.1	22.0

- Represents or rounds to zero. <sup>1</sup> 10-12-15-18+ speed.

Source: National Sporting Goods Association, Mt. Prospect, IL, *The Sporting Goods Market in 1989*, and prior issues. (Copyright.)

**No. 408. Merchandise Lines—Establishments and Sales, by Kind of Business: 1987**

[Includes only establishments with payroll. Based on the 1987 Census of Service Industries; see Appendix III]

1987 SIC code <sup>1</sup>	MERCHANDISE LINE AND KIND OF BUSINESS	Estab- lish- ments (1,000)	Sales (mil. dol.)	1987 SIC code <sup>1</sup>	MERCHANDISE LINE AND KIND OF BUSINESS	Estab- lish- ments (1,000)	Sales (mil. dol.)
(X)	Sewing, knitting and needlework goods <sup>2</sup>	37.3	4,155	(X)	Toys, hobby goods, and games <sup>2</sup>	105.9	12,917
531	Department stores	5.6	964	531	Department stores	8.8	3,638
531 pt.	Discount <sup>3</sup>	5.3	888	531 pt.	Discount <sup>3</sup>	5.6	3,036
533	Variety stores	7.5	273	5945	Hobby, toy, and game shops	9.6	5,246
5949	Sewing, needlework and piece goods stores	9.6	2,468	(X)	Sporting goods <sup>2</sup>	72.8	21,190
(X)	TV, video recorders, and tapes <sup>2</sup>	66.0	13,380	531	Department stores	7.7	3,573
531	Department stores	6.2	3,618	555	Discount <sup>3</sup>	5.7	2,905
531 pt.	Discount <sup>3</sup>	3.2	1,159	5941	Boat dealers	5.2	6,194
572	Household appliance stores	5.6	1,294		Sporting goods stores and bicycle shops	21.6	7,553
5731	Radio, TV, and electronic	16.2	5,329	(X)	Recreational vehicles	8.7	6,092
(X)	Audio equipment <sup>2</sup>	85.9	16,944	556	Recreational vehicle dealers	3.0	4,996
531	Department stores	8.3	2,270	(X)	Lawn and garden equipment and supplies <sup>2</sup>	118.6	16,847
531 pt.	Discount <sup>3</sup>	5.6	1,461	521	Lumber/other bldg. materials dealers	9.2	1,735
573	Radio, TV, computer, and music stores	28.3	11,104	526	Retail nurseries, lawn/garden supply	10.7	4,294
5731	Radio, TV, and electronics	17.2	5,423	531	Department stores	7.2	2,850
5735	Record and prerecorded tape stores	6.2	3,530	531 pt.	Discount <sup>3</sup>	5.7	1,766
(X)	Photo. equip. and supplies <sup>2</sup>	63.7	5,381	5992	Florists	26.7	4,124
531	Department stores	7.3	1,647	(X)	Pets, pet foods, and supplies <sup>2</sup>	81.9	5,009
531 pt.	Discount <sup>3</sup>	5.2	1,181	541	Grocery stores	57.0	3,301
591	Drug stores	20.3	904	5999 pt.	Pet shops	5.5	1,322
5946	Camera and photographic supply stores	3.8	1,661				

(X) Not applicable. <sup>1</sup> See footnote 1, table 409. <sup>2</sup> Includes other kinds of businesses, not shown separately. <sup>3</sup> Or mass merchandising. <sup>4</sup> Includes musical instruments and supplies.

Source: U.S. Bureau of the Census, 1987 Census of Retail Trade, RC87-S-3.

**No. 409. Amusement and Recreation Services—Summary: 1987**

[Represents establishments with payroll of firms subject to Federal income tax]

1987 SIC <sup>1</sup> code	KIND OF BUSINESS	Number of estab- lish- ments	Annual payroll (mil. dol.)	Paid employ- ees <sup>2</sup>	RECEIPTS		
					Total (mil. dol.)	Per estab- lishment (\$1,000)	Per employee (dol.)
78,79,84	Amusement and recreation services	99,480	15,474	1,094,396	57,638	579	52,666
781.2	Motion picture production, distribution, and services	11,242	4,973	171,328	19,917	1,772	116,249
783	Motion picture theaters	7,776	584	94,086	3,977	511	42,271
7832	Motion picture theaters, except drive-in	6,777	551	89,613	3,809	562	42,507
7833	Drive-in motion picture theaters	999	34	4,473	168	168	37,529
784	Video tape rental	16,824	581	79,559	2,687	160	33,775
792	Theatrical producers (except motion picture) <sup>3</sup>	7,847	1,607	55,226	4,904	625	88,803
7922	Theatrical producers and misc. services	3,253	745	31,534	2,543	782	80,656
7929	Bands, orchestras, actors	4,594	862	23,692	2,361	514	99,647
793	Bowling centers	6,671	702	99,780	2,540	381	25,452
79 ex.							
792,3,84	Commercial sports and other services	49,120	7,026	594,417	23,613	481	39,752
794	Commercial sports	3,184	2,047	75,523	5,023	1,578	66,512
7941	Professional sports clubs and promoters <sup>5</sup>	807	1,354	26,566	1,904	2,360	71,685
7941 pt.	Baseball clubs	139	436	6,192	501	3,606	80,949
7941 pt.	Football clubs	31	488	3,330	307	9,889	92,064
7948	Racing, including track operation <sup>5</sup>	2,377	693	48,957	3,119	1,312	63,705
7948 pt.	Auto racetrack operation	436	48	3,833	321	736	83,692
7948 pt.	Horse racetrack operation	136	386	24,792	1,781	13,097	71,847
7948 pt.	Dog racetrack operation	55	102	9,004	462	8,407	51,352
79 ex.							
792,3,4,84	Other amusement and recreation services	45,936	4,979	518,894	18,590	405	35,826
791	Dance studios, schools and halls	4,016	112	19,759	383	95	19,406
7991	Physical fitness facilities	9,376	745	104,917	2,571	274	24,502
7992	Public golf courses	2,736	299	24,239	1,113	407	45,903
7993	Coin-operated amusement devices	4,450	297	24,924	1,396	314	56,023
7996	Amusement parks	744	820	60,414	3,470	4,664	57,434
7997	Membership sports and recreational clubs	7,659	1,173	112,724	3,700	483	32,822
7999 pt.	Concession operators of amusement devices and rides	925	48	5,085	229	248	45,046
7999 pt.	Carnivals, circuses, and fairs	515	49	4,780	313	608	65,553
7999 pt.	Billiard and pool establishments	781	21	3,130	97	124	30,836
84	Museums, art galleries, and botanical <sup>6</sup>	328	34	2,799	123	376	44,073
7999 pt.	Roller skating rinks	1,741	68	16,079	272	156	16,911
7999 pt.	Ice skating rinks	193	17	2,567	70	363	27,265
7999 pt.	Other amusement and recreation services	12,472	1,296	137,477	4,853	389	35,299

<sup>1</sup> 1987 Standard Industrial Classification Code; See text section 13. <sup>2</sup> For pay period including March 12. <sup>3</sup> Includes orchestras and entertainers. <sup>4</sup> Includes other entertainers and entertainment groups. <sup>5</sup> Includes other industries, not shown separately. <sup>6</sup> Includes zoological gardens.

Source: U.S. Bureau of the Census, 1987 Census of Services Industries, SC87-A-52.

**No. 410. Boy Scouts and Girl Scouts—Membership and Units: 1970 to 1989**

[In thousands. Boy Scouts as of Dec. 31; Girl Scouts as of Sept. 30. Current age requirements for each category are in parentheses. Includes Puerto Rico and outlying areas]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>BOY SCOUTS OF AMERICA</b>												
<b>Membership</b>	<b>6,287</b>	<b>5,318</b>	<b>4,318</b>	<b>4,355</b>	<b>4,542</b>	<b>4,689</b>	<b>4,755</b>	<b>4,845</b>	<b>5,171</b>	<b>5,347</b>	<b>5,364</b>	<b>5,356</b>
Boys	4,683	3,933	3,207	3,244	3,425	3,567	3,657	3,755	4,037	4,180	4,228	4,247
Tiger cubs (6 yr. old)	(X)	(X)	(X)	(X)	84	124	145	169	260	291	314	332
Cub Scouts (7-10 yr. old)	2,438	1,997	1,696	1,643	1,609	1,569	1,493	1,499	1,714	1,819	1,834	1,824
Boy Scouts (11-17 yr. old)	1,916	1,503	1,064	1,101	1,126	1,116	1,078	1,063	1,042	1,032	1,025	1,008
Explorers (14-20 yr. old)	329	434	447	499	606	758	941	1,024	1,021	1,037	1,055	1,083
Adults	1,604	1,385	1,110	1,111	1,117	1,122	1,098	1,090	1,134	1,168	1,136	1,109
Total units (packs, troops, posts)	157	150	129	130	132	134	135	134	132	131	131	130
<b>GIRL SCOUTS OF THE U.S.A.</b>												
<b>Membership</b>	<b>3,922</b>	<b>3,234</b>	<b>2,784</b>	<b>2,829</b>	<b>2,819</b>	<b>2,888</b>	<b>2,871</b>	<b>2,802</b>	<b>2,917</b>	<b>2,947</b>	<b>3,052</b>	<b>3,166</b>
Girls <sup>2</sup>	3,248	2,723	2,250	2,276	2,247	2,281	2,247	2,172	2,248	2,274	2,345	2,415
Daisies (5-6 yr. old)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	61	114	137	162	175
Brownies (6-8 yr. old)	1,259	1,160	1,115	1,110	1,120	1,163	1,172	1,128	1,166	1,167	1,243	1,276
Juniors (8-11 yr. old)	1,509	1,188	894	916	874	847	801	735	725	705	739	759
Cadettes (11-17 yr. old)	395	301	172	170	169	176	170	151	143	132	144	149
Seniors (14-17 yr. old)	85	74	46	45	41	40	40	40	41	38	43	42
Adults	674	511	534	553	572	607	624	630	669	673	707	751
Total units (troops, groups)	164	159	154	157	160	165	166	166	174	180	189	196

X Not applicable. <sup>1</sup> Both girls and boys are members. <sup>2</sup> Beginning 1980, includes girls registered in other categories, not shown separately.

Source: Boy Scouts of America, National Council, Irving, TX, *Annual Report*; and Girl Scouts of the United States of America, New York, NY, *Annual Report*.

**No. 411. Performing Arts—Selected Data: 1970 to 1989**

[Receipts and expenditures in millions of dollars. For season ending in year shown, except as indicated]

ITEM	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>Legitimate theater:</b> <sup>1</sup>											
Broadway shows:											
New productions	62	59	67	53	50	36	31	33	40	31	29
Playing weeks <sup>2,3</sup>	1,047	1,101	1,541	1,461	1,259	1,119	1,062	1,049	1,031	1,114	1,097
Number of tickets sold (1,000)	(NA)	(NA)	9,380	10,694	8,102	7,898	7,156	6,527	6,968	8,142	7,966
Gross box office receipts	53.3	57.4	143.4	221.2	263.1	226.5	208.0	190.6	207.2	253.4	262.0
Road shows:											
Playing weeks <sup>3</sup>	1,024	799	1,351	1,317	990	1,057	993	983	901	893	869
Gross box office receipts	48.0	50.9	181.2	249.5	184.3	206.2	225.9	235.6	224.2	222.9	255.5
<b>Opera companies</b> <sup>4</sup>	<b>648</b>	<b>807</b>	<b>986</b>	<b>993</b>	<b>1,031</b>	<b>1,051</b>	<b>1,123</b>	<b>1,176</b>	<b>1,224</b>	<b>1,250</b>	<b>1,285</b>
Major <sup>5</sup>	35	54	109	133	144	154	168	170	174	187	209
Expenditures	36.5	(NA)	133.6	191.1	212.4	236.7	256.5	270.3	321.1	352.3	403.8
Other companies	266	335	458	416	488	491	576	602	658	654	658
Workshops <sup>6</sup>	347	418	419	444	399	406	379	404	392	409	418
Opera performances	4,779	6,428	9,391	9,510	10,693	10,421	10,642	11,080	11,794	12,361	15,098
Operas performed	341	387	497	571	590	576	578	660	622	658	731
Musical performances <sup>7</sup>	(NA)	(NA)	1,397	2,233	2,749	2,787	4,983	6,993	7,759	8,836	9,825
Musicals performed	(NA)	(NA)	104	122	120	129	242	301	278	296	279
World premieres	17	16	79	94	96	101	121	116	129	141	165
Attendance (mil.)	4.6	8.0	10.7	10.1	12.7	13.0	14.1	14.4	16.4	17.7	21.4
<b>Symphony orchestras</b> <sup>8</sup>	<b>1,441</b>	<b>1,463</b>	<b>1,572</b>	<b>1,572</b>	<b>1,572</b>	<b>1,572</b>	<b>1,572</b>	<b>1,572</b>	<b>1,572</b>	<b>1,572</b>	<b>1,666</b>
College <sup>9</sup>	298	300	385	385	386	380	371	371	365	350	422
Community <sup>10</sup>	1,019	1,003	928	919	920	937	946	927	936	903	924
Urban	24	41	85	94	101	89	89	93	92	103	103
Metropolitan	72	90	115	110	98	96	96	107	102	123	121
Regional <sup>(1)</sup>	(1)	(1)	29	34	37	40	40	43	45	57	59
Major	28	29	32	30	30	30	30	31	32	36	37
Concerts	6,599	14,171	22,229	19,204	19,167	19,086	19,969	20,272	20,059	17,774	(NA)
Attendance (mil.)	12.7	18.3	22.6	22.0	22.0	23.2	23.7	25.4	25.1	23.6	(NA)
Gross income	73.3	124.5	246.3	325.5	348.9	379.0	435.4	480.5	523.6	561.8	(NA)
Earned income	43.1	70.9	141.2	187.6	201.8	220.2	250.7	282.4	305.9	332.9	(NA)
Contributed income	30.2	53.6	105.1	137.9	147.1	158.8	184.7	198.1	217.7	228.9	(NA)
Gross expenses	76.4	129.5	252.1	315.3	352.2	389.8	441.8	491.2	525.4	571.3	612.9

NA Not available. <sup>1</sup> Source: *Variety*, New York, NY, various June issues (copyright). <sup>2</sup> All shows (new productions and holdovers from previous seasons). <sup>3</sup> Eight performances constitute one playing week. <sup>4</sup> Source: Central Opera Service, New York, NY, *Central Opera Service Bulletin*, periodic. <sup>5</sup> Companies with budgets of over \$100,000 and issue American Guild of Musical Artists (AGMA) contracts to soloists. <sup>6</sup> Workshops are primarily college and university opera groups. <sup>7</sup> Covers not-for-profit companies only. <sup>8</sup> Source: American Symphony Orchestra League, Inc., Washington, DC. For years ending Aug. 31. Orchestras other than college groups are principally defined by their annual budgets: For 1987 and 1988, community, under \$135,000; urban, \$135,000-\$280,000; metropolitan, \$280,000-\$1,000,000; regional, \$1,000,000-\$3,600,000; and major, over \$3,600,000. Prior to 1987, other budget classifications were in effect. <sup>9</sup> Includes youth orchestras. <sup>10</sup> Beginning 1980, includes youth and chamber groups with budgets under \$70,000. <sup>11</sup> Classification began in 1976.

Source: Compiled from sources listed in footnotes.

### No. 412. Financial Support of the Arts by Private Corporate Business—Summary: 1984 to 1988

[In millions of dollars]

TYPE OF ART CATEGORY	1984	1985	1988	TYPE OF ART CATEGORY	1984	1985	1988
<b>Direct cash support . . . . .</b>	<b>482.4</b>	<b>559.0</b>	<b>634.0</b>	Historic and cultural preservation projects . . . . .	9.7	11.3	(NA)
Museums . . . . .	104.5	133.2	101.4	Libraries . . . . .	4.8	8.8	44.4
Symphony orchestra . . . . .	66.8	79.8	101.4	Commercial TV and radio, cultural programming . . . . .	6.5	5.6	(NA)
Performing arts and cultural facilities . . . . .	52.0	59.4	31.7	Public TV and radio, general support . . . . .	16.5	4.5	25.4
Theaters . . . . .	67.2	49.5	76.1	Crafts . . . . .	2.3	1.8	(NA)
Art funds—general support . . . . .	28.5	37.9	(NA)	Artist-in-residence programs . . . . .	1.1	1.0	(NA)
Other music . . . . .	25.3	30.2	44.4	Poetry and writing . . . . .	1.4	1.0	(NA)
Dance . . . . .	20.7	25.4	50.7	Video projects (non-commercial) . . . . .	0.2	0.2	(NA)
Public TV and radio, program underwriting . . . . .	17.9	23.6	25.4	Folk art . . . . .	-	-	(NA)
Opera . . . . .	24.8	22.7	50.7	Other (excluding commercial activities) . . . . .	12.7	38.0	63.4
Films (non-commercial) . . . . .	15.7	13.2	(NA)				
Arts-in-education programs . . . . .	3.8	11.8	19.0				

- Represents or rounds to zero. NA Not available.

Source: Business Committee for the Arts, New York, NY, press release.

### No. 413. Arts and Humanities—Selected Federal Aid Programs: 1970 to 1989

[In millions of dollars, except as indicated. For fiscal years ending in year shown, see text, section 9]

TYPE OF FUND AND PROGRAM	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
<b>National Endowment for the Arts:</b>										
Funds available <sup>1</sup> . . . . .	15.7	86.9	188.1	147.5	169.9	171.7	167.1	170.9	171.1	166.7
Program appropriation . . . . .	6.3	67.3	97.0	101.7	119.0	118.7	115.7	120.8	122.2	123.5
Matching funds <sup>2</sup> . . . . .	2.0	7.5	42.9	24.9	27.4	29.5	30.0	29.3	32.9	23.6
Grants awarded (number) . . . . .	556	3,071	5,505	5,174	5,056	4,801	4,484	4,542	4,628	4,604
Funds obligated . . . . .	12.9	81.7	166.4	127.0	147.4	149.4	146.6	151.4	156.3	148.3
Music . . . . .	2.5	14.9	13.6	12.9	15.2	15.3	14.8	15.1	15.3	15.3
State programs . . . . .	1.9	14.7	22.1	21.1	24.6	24.4	23.8	24.6	24.9	25.5
Museums . . . . .	(NA)	10.8	11.2	10.0	12.5	11.9	11.5	11.5	12.6	12.7
Theater . . . . .	2.8	6.4	8.4	9.5	10.7	10.6	10.2	10.8	10.7	10.7
Dance . . . . .	1.7	6.1	8.0	9.1	9.1	9.0	9.0	9.1	9.2	9.5
Media arts . . . . .	0.2	5.4	8.4	9.3	9.5	9.9	12.3	12.9	12.4	12.7
Challenge <sup>3</sup> . . . . .	(X)	(X)	50.8	14.0	18.8	20.7	20.7	20.8	24.8	15.4
Visual arts . . . . .	1.0	3.2	7.3	5.8	6.6	6.2	5.7	6.2	6.0	6.1
Other . . . . .	2.8	20.1	36.6	35.1	40.6	41.3	38.8	40.4	40.4	40.2
<b>National Endowment for the Humanities:</b>										
Funds available <sup>1</sup> . . . . .	13.0	86.0	186.2	<sup>4</sup> 123.5	127.3	125.6	121.1	128.4	125.2	137.1
Program appropriation . . . . .	6.1	67.3	100.3	90.4	97.8	95.2	91.9	95.8	96.7	108.3
Matching funds <sup>2</sup> . . . . .	2.0	6.5	38.4	27.9	29.5	30.4	27.3	28.5	28.5	28.7
Grants awarded (number) . . . . .	542	1,390	2,917	1,928	2,523	2,241	2,297	2,668	2,113	2,285
Funds obligated . . . . .	10.5	73.1	185.5	123.3	127.6	125.7	121.1	128.4	125.2	137.1
Education programs . . . . .	4.2	17.1	18.3	14.7	19.3	17.9	14.8	16.4	16.5	16.5
State programs . . . . .	(X)	(X)	26.0	24.0	26.0	24.4	24.1	25.0	25.3	29.0
Research grants . . . . .	2.0	13.4	32.0	23.1	24.1	24.4	21.0	21.7	21.9	22.1
Fellowship program . . . . .	1.7	10.9	16.0	14.1	15.0	15.3	14.4	15.3	15.3	15.3
Challenge <sup>3</sup> . . . . .	(X)	(X)	53.5	21.8	18.3	19.6	16.2	16.5	16.5	16.7
General programs . . . . .	(X)	(X)	(X)	24.9	24.3	24.1	24.7	25.4	24.9	25.1
Preservation . . . . .	(X)	(X)	(X)	(X)	(X)	(X)	4.1	4.1	4.7	12.3
National Capital Arts and Cultural Affairs Program . . . . .	(X)	(X)	(X)	(X)	(X)	(X)	1.9	4.0	(X)	(X)
Other . . . . .	2.6	31.8	37.7	0.7	0.7	(X)	(X)	(X)	(X)	(X)

NA Not available. X Not applicable. <sup>1</sup> Includes other funds, not shown separately. Excludes administrative funds. Gifts are included through 1980; excluded thereafter. <sup>2</sup> Represents Federal funds appropriated only upon receipt or certification by Endowment of matching non-Federal gifts. <sup>3</sup> Program designed to stimulate new sources and higher levels of giving to institutions for the purpose of guaranteeing long-term stability and financial independence. Program requires a match of at least 3 private dollars to each Federal dollar. Funds for challenge grants are not allocated by program area because they are awarded on a grant-by-grant basis. <sup>4</sup> Includes reappropriated funds from 1982. <sup>5</sup> Excludes National Capital Arts and Cultural Affairs Program. <sup>6</sup> Program designed to support projects which preserve and guarantee access to print and non-print media in danger of disintegration or deterioration.

Source: U.S. National Endowment for the Arts, *Annual Report*; and U.S. National Endowment for the Humanities, *Annual Report*.

**No. 414. State Legislative Appropriations for State Arts Agencies: 1987 to 1990**

[In thousands of dollars, except as indicated. For fiscal years ending in year shown. Fiscal years for most States ended June 30; see text, section 9]

STATE OR AREA	1987	1988	1989	1990		STATE OR AREA	1987	1988	1989	1990	
				Total	Per capita <sup>1</sup> (dol.)					Total	Per capita <sup>1</sup> (dol.)
<b>Total . . . .</b>	<b>216,082</b>	<b>242,842</b>	<b>270,652</b>	<b>284,101</b>	<b>1.13</b>	NE . . . . .	583	608	868	1,025	0.64
AL . . . . .	969	1,319	1,476	1,949	0.47	NV . . . . .	179	270	269	353	0.34
AK . . . . .	2,190	1,275	1,692	1,257	2.23	NH . . . . .	337	451	474	505	0.45
AZ . . . . .	1,140	1,323	1,545	2,570	0.70	NJ . . . . .	13,453	20,101	22,760	19,922	2.55
AR . . . . .	1,008	1,016	1,021	1,016	0.42	NM . . . . .	699	706	710	906	0.57
CA . . . . .	12,589	13,677	15,682	16,733	0.58	NY . . . . .	48,591	53,564	53,529	59,225	3.33
CO . . . . .	1,629	1,041	1,108	1,308	0.39	NC . . . . .	3,972	4,505	4,956	5,059	0.77
CT . . . . .	1,666	2,000	2,119	2,169	0.67	ND . . . . .	238	222	214	263	0.40
DE . . . . .	604	686	785	1,080	1.64	OH . . . . .	9,089	9,591	9,980	12,075	1.12
DC . . . . .	2,368	3,544	3,544	2,800	4.55	OK . . . . .	1,535	1,679	2,670	3,232	0.98
FL . . . . .	12,710	17,340	24,179	23,622	1.88	OR . . . . .	518	1,293	1,431	1,358	0.49
GA . . . . .	2,688	3,024	3,248	3,417	0.52	PA . . . . .	7,780	9,780	12,753	12,810	1.08
HI . . . . .	2,262	3,902	6,747	8,777	7.83	RI . . . . .	600	1,070	1,440	1,372	1.38
ID . . . . .	134	198	339	424	0.42	SC . . . . .	2,772	2,801	3,159	3,467	0.99
IL . . . . .	8,758	7,581	7,509	10,705	0.92	SD . . . . .	287	330	338	348	0.48
IN . . . . .	1,867	1,969	1,970	2,344	0.42	TN . . . . .	1,383	1,523	3,506	3,962	0.80
IA . . . . .	732	379	425	5,442	0.52	TX . . . . .	2,984	3,383	2,680	2,776	0.16
KS . . . . .	561	583	1,072	1,238	0.50	UT . . . . .	1,626	1,518	1,603	2,868	1.64
KY . . . . .	1,983	2,032	2,368	2,387	0.64	VT . . . . .	265	350	457	504	0.91
LA . . . . .	960	931	906	901	0.20	VA . . . . .	2,980	3,017	3,771	5,285	0.87
ME . . . . .	483	515	636	733	0.61	WA . . . . .	1,706	1,704	2,063	2,230	0.48
MD . . . . .	4,776	5,157	5,971	6,332	1.36	WV . . . . .	2,130	1,811	6,133	6,675	0.90
MA . . . . .	18,266	21,148	19,539	12,370	2.11	WI . . . . .	1,149	1,276	1,725	2,254	0.47
MI . . . . .	11,426	12,611	12,466	12,428	1.34	WY . . . . .	172	203	206	231	0.46
MN . . . . .	2,768	3,030	3,184	4,185	0.97	Am. Samoa . . . . .	47	30	30	30	0.79
MS . . . . .	412	421	496	487	0.19	Guam . . . . .	323	339	561	618	4.76
MO . . . . .	4,194	4,660	4,913	5,008	0.97	No. Marianas . . . . .	40	60	101	115	5.73
MT . . . . .	844	730	726	781	0.97	PR . . . . .	10,535	8,111	11,013	10,929	3.32
						VI . . . . .	104	104	85	231	2.18

- Represents zero. <sup>1</sup> Based on estimated resident population as of July 1, 1988. <sup>2</sup> Includes \$1,000,000 to be generated by the Arizona Arts Trust Fund. <sup>3</sup> Includes \$250,000 one-time appropriation. <sup>4</sup> Includes \$140,000 one-time lottery funds. <sup>5</sup> Includes \$220,000 lottery funds. <sup>6</sup> Excludes administrative expenses. <sup>7</sup> Includes \$250,000 one-time Governor's Award.

Source: National Assembly of State Arts Agencies, Washington, DC, unpublished data.

**No. 415. Annual Travel Expenditures of Consumer Units, by Age of Householder: 1987**

[Based on the Consumer Expenditure Interview Survey; see text, section 14]

ITEM	Unit	All consumer units	AGE OF REFERENCE PERSON						
			Under 25 years old	25 to 34 years old	35 to 44 years old	45 to 54 years old	55 to 64 years old	65 to 74 years old	75 years old and over
Consumer units . . . . .	1,000 . .	94,150	7,811	21,345	18,747	13,395	13,080	11,578	8,194
Income after taxes . . . . .	Dollars .	24,871	11,693	25,322	32,666	33,064	28,137	17,637	12,280
Size of consumer unit . . . . .	Number .	2.6	1.8	2.8	3.4	2.9	2.4	1.9	1.5
Age of reference person . . . . .	Years . .	47.0	21.6	29.6	39.1	49.2	59.6	69.1	80.2
Number in consumer unit:									
Earners . . . . .	Number .	1.4	1.2	1.5	1.8	2.0	1.4	0.6	0.2
Children under 18 . . . . .	Number .	0.7	0.4	1.1	1.5	0.6	0.3	0.1	-
Persons 65 years old and over . . . . .	Number .	0.3	-	-	-	-	0.1	1.3	1.3
Vehicles . . . . .	Number .	2.0	1.2	1.9	2.4	2.7	2.3	1.6	0.9
Average annual expenditures . . . . .	Dollars .	23,242	13,996	22,974	29,948	30,246	24,408	18,062	11,418
Vacation and pleasure trips . . . . .	Dollars .	850	481	668	1,004	1,127	1,106	929	349
Amount spent for—									
Transportation . . . . .	Dollars .	334	215	275	387	409	425	366	163
Gas and oil for own vehicles . . . . .	Dollars .	90	68	87	101	118	106	82	31
Plane fares . . . . .	Dollars .	189	119	155	225	227	250	203	82
Other . . . . .	Dollars .	55	28	33	61	65	69	81	49
Food and beverages . . . . .	Dollars .	239	132	191	281	335	311	252	80
Lodging . . . . .	Dollars .	186	78	124	222	257	259	219	83
Other . . . . .	Dollars .	91	55	78	114	126	110	91	24
Distribution: Trips . . . . .	Percent .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Transportation . . . . .	Percent .	39.3	44.7	41.2	38.5	36.3	38.4	39.4	46.7
Gas and oil for own vehicles . . . . .	Percent .	10.6	14.1	13.0	10.1	10.5	9.6	8.8	8.9
Plane fares . . . . .	Percent .	22.2	24.7	23.2	22.4	20.1	22.6	21.9	23.5
Other . . . . .	Percent .	6.5	5.8	4.9	6.1	5.8	6.2	8.7	14.0
Food and beverages . . . . .	Percent .	28.1	27.4	28.6	28.0	29.7	28.1	27.1	22.9
Lodging . . . . .	Percent .	21.9	16.2	18.6	22.1	22.8	23.4	23.6	23.8
Other . . . . .	Percent .	10.7	11.4	11.7	11.4	11.2	9.9	9.8	6.9

- Represents or rounds to zero. <sup>1</sup> Entertainment, recreation, admission fees, souvenirs, passports, visas etc.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, June 1990.

**No. 416. Travel by U.S. Residents, by Selected Trip Characteristics: 1985 to 1989**

[In millions. See headnote, table 417]

CHARACTERISTIC	TRIPS					PERSON-TRIPS <sup>1</sup>				
	1985	1986	1987	1988	1989	1985	1986	1987	1988	1989
<b>Total</b> . . . . .	<b>558.4</b>	<b>592.3</b>	<b>636.3</b>	<b>656.1</b>	<b>664.3</b>	<b>1,077.6</b>	<b>1,121.5</b>	<b>1,191.1</b>	<b>1,232.5</b>	<b>1,260.1</b>
Purpose:										
Visit friends and relatives . . . . .	206.8	214.9	210.5	213.8	231.4	430.8	442.5	437.1	425.8	476.5
Other pleasure . . . . .	177.6	200.3	234.4	241.5	225.9	376.0	418.9	464.6	502.1	469.3
Business or convention . . . . .	133.3	140.0	157.5	155.6	169.7	185.2	189.0	206.2	211.7	232.0
Other . . . . .	40.7	37.1	33.9	45.2	37.3	85.6	71.1	83.2	92.9	82.3
Mode of transport:										
Auto, truck, recreation vehicle . . . . .	376.1	405.6	433.7	472.6	479.8	797.7	832.1	889.4	952.2	982.7
Airplane . . . . .	140.5	143.4	160.7	154.6	154.6	217.3	231.0	239.9	238.6	234.3
Other . . . . .	41.8	43.3	41.9	28.9	29.9	62.6	58.4	61.8	41.7	43.1
Vacation trip . . . . .	339.8	354.3	366.2	396.2	416.7	728.7	752.4	775.2	830.9	878.3
Weekend trip . . . . .	224.0	252.0	274.4	271.7	282.4	470.1	513.5	559.4	560.0	582.1

<sup>1</sup> A count of times each person (child or adult) goes on a trip.Source: US Travel Data Center, Washington, DC, *National Travel Survey*, annual. (Copyright.)**No. 417. Characteristics of Business Trips and Pleasure Trips: 1980 to 1989**

[Represents trips to places 100 miles or more from home by one or more household members traveling together. Based on a monthly telephone survey of 1,500 U.S. adults. For details, see source]

CHARACTERISTIC	Unit	BUSINESS TRIPS				PLEASURE TRIPS			
		1980	1985	1988	1989	1980	1985	1988	1989
Total trips . . . . .	Millions	97.1	133.3	155.6	169.7	342.8	384.4	455.3	457.3
Average household members on trip . . . . .	Number	1.5	1.4	1.3	1.4	2.2	2.1	2.1	2.0
Average nights per trip <sup>1</sup> . . . . .	Nights	(NA)	3.6	3.1	3.2	(NA)	5.6	4.6	4.4
Average miles per trip <sup>2</sup> . . . . .	Miles	(NA)	1,180	1,100	1,090	(NA)	1,010	940	950
Traveled primarily by auto/truck/RTV <sup>3</sup> . . . . .	Percent	56	51	54	57	80	73	77	76
rental car . . . . .	Percent	42	44	44	39	16	21	18	19
Used a rental car while on trip . . . . .	Percent	25	20	17	16	7	6	6	7
Stayed in a hotel while on trip . . . . .	Percent	66	62	67	65	34	39	39	38
Used a travel agent . . . . .	Percent	21	28	20	20	10	13	11	12
Also a vacation trip . . . . .	Percent	10	13	8	17	75	80	80	81
Male travelers . . . . .	Percent	(NA)	67	71	72	(NA)	48	54	49
Female travelers . . . . .	Percent	(NA)	33	29	28	(NA)	52	46	51
Household income:									
Less than \$40,000 . . . . .	Percent	(NA)	58	44	44	(NA)	73	69	65
\$40,000 or more . . . . .	Percent	(NA)	42	56	56	(NA)	27	31	35

NA Not available. <sup>1</sup> Includes no overnight stays. <sup>2</sup> U.S. only. <sup>3</sup> Recreational vehicle.Source: US Travel Data Center, Washington, DC, *National Travel Survey*, annual. (Copyright.)**No. 418. Domestic Travel Expenditures, by State: 1987**

[Represents U.S. spending on domestic overnight trips and day trips of 100 miles or more away from home. Excludes spending by foreign visitors and by U.S. residents in U.S. territories and abroad]

STATE	Total (mil. dol.)	Share of total (per-cent)	Rank	STATE	Total (mil. dol.)	Share of total (per-cent)	Rank	STATE	Total (mil. dol.)	Share of total (per-cent)	Rank
<b>U.S. total</b>	<b>275,158</b>	<b>100.0</b>	<b>(X)</b>	KS . . . . .	2,168	0.8	31	ND . . . . .	647	0.2	49
AL . . . . .	2,042	0.8	34	KY . . . . .	2,428	0.9	30	OH . . . . .	7,535	2.7	10
AK . . . . .	857	0.3	45	LA . . . . .	3,845	1.4	24	OK . . . . .	2,927	1.1	28
AZ . . . . .	5,635	2.1	15	ME . . . . .	2,154	0.8	32	OR . . . . .	2,794	1.0	29
AR . . . . .	1,909	0.7	38	MD . . . . .	5,322	1.9	18	PA . . . . .	11,673	4.3	6
CA . . . . .	35,797	13.0	1	MA . . . . .	6,721	2.5	13	RI . . . . .	571	0.2	51
CO . . . . .	5,455	2.0	17	MI . . . . .	8,620	3.1	8	SC . . . . .	4,294	1.6	23
CT . . . . .	3,108	1.1	27	MN . . . . .	5,551	2.0	16	SD . . . . .	626	0.2	50
DE . . . . .	725	0.3	48	MS . . . . .	1,331	0.5	43	TN . . . . .	4,585	1.7	20
DC . . . . .	1,442	0.5	40	MO . . . . .	5,291	1.9	19	TX . . . . .	15,720	5.7	4
FL . . . . .	24,340	8.9	2	MT . . . . .	728	0.3	47	UT . . . . .	2,148	0.8	33
GA . . . . .	5,709	2.1	14	NE . . . . .	1,359	0.5	42	VT . . . . .	1,576	0.6	39
HI . . . . .	3,301	1.2	25	NV . . . . .	8,246	3.0	9	VA . . . . .	6,852	2.5	11
ID . . . . .	1,061	0.4	44	NH . . . . .	2,002	0.7	35	WA . . . . .	4,469	1.6	21
IL . . . . .	10,609	3.9	7	NJ . . . . .	13,289	4.8	5	WV . . . . .	1,432	0.5	41
IN . . . . .	3,289	1.2	26	NY . . . . .	1,918	0.7	37	WI . . . . .	4,386	1.6	22
IA . . . . .	1,996	0.7	36	NC . . . . .	17,193	6.3	3	WY . . . . .	760	0.3	46

X Not applicable.

Source: US Travel Data Center, Washington, DC, *Impact of Travel on State Economies, 1987*. (Copyright.)



### No. 419. Business Receipts and Employment of Selected Travel Industry Sectors: 1975 to 1989

YEAR	BUSINESS RECEIPTS (mil. dol.)						EMPLOYMENT (1,000)						
	Travel industry, total	Transportation <sup>1</sup>			Motel, hotel	Eating and drinking places	Amusement and recreation services	Travel industry, total	Transportation		Eating and drinking places	Hotels, motels, and tourist courts	Amusement and recreation services
		Air <sup>2</sup>	Bus	Rail <sup>3</sup>					Intercity highway passengers	Air			
1975 . . . . .	94,539	10,301	1,172	237	13,002	51,067	18,760	5,228.5	39.9	362.8	3,379.5	849.5	596.8
1980 . . . . .	171,785	23,405	1,709	372	26,832	90,058	29,409	6,918.3	37.9	453.4	4,625.8	1,037.7	763.5
1982 . . . . .	199,774	25,488	1,854	429	32,749	104,593	34,661	7,205.6	38.8	443.6	4,831.2	1,092.8	799.2
1983 . . . . .	215,523	27,519	1,965	461	35,897	112,495	37,186	7,481.3	35.5	455.2	5,041.8	1,131.1	817.7
1984 . . . . .	231,961	31,437	2,035	516	38,917	119,572	39,484	7,938.7	37.3	488.5	5,388.0	1,221.3	803.6
1985 . . . . .	243,082	33,343	1,989	544	41,837	122,949	42,420	8,396.4	34.9	522.0	5,709.2	1,289.9	840.4
1986 . . . . .	264,559	38,846	1,890	576	43,300	139,415	45,532	8,717.6	33.2	566.7	5,918.2	1,337.6	863.9
1987 . . . . .	291,806	37,555	1,826	604	48,200	153,461	50,160	9,058.7	30.1	603.3	6,105.8	1,427.0	892.5
1988 . . . . .	317,682	41,963	2,036	701	52,400	165,511	55,071	9,377.0	29.0	644.3	6,281.8	1,503.0	918.3
1989, prel.	340,627	45,320	2,100	801	57,100	173,527	61,779	9,615.9	29.7	691.8	6,369.9	1,548.9	975.6

<sup>1</sup> Passenger transport service. <sup>2</sup> U.S. certificated carriers in domestic service. <sup>3</sup> Covers fiscal years October 1 through September 30.

Source: U.S. Travel Data Center, Washington, DC, *The 1989-90 Economic Review of Travel in America*. (Copyright.)

### No. 420. International Travelers and Expenditures—Summary: 1970 to 1989

[For coverage, see tables 421 and 423. Beginning 1984, receipts, payments, and fares not comparable with previous years. See source for details. Minus sign (-) indicates deficit. See also *Historical Statistics, Colonial Times to 1970*, series H 921, 928, 941, and 945]

YEAR	TRAVEL AND PASSENGER FARE (mil. dol.)				U.S. net travel and passenger payments (mil. dol.)	U.S. travelers abroad (1,000)	Foreign visitors to the U.S. (1,000)
	Payments by U.S. travelers		Receipts from foreign visitors				
	Total <sup>1</sup>	Expenditures abroad	Total <sup>1</sup>	Travel receipts			
1970	5,195	3,980	2,708	2,331	-2,487	5,260	2,288
1975	8,680	6,417	5,464	4,697	-3,216	6,354	3,674
1980	14,004	10,397	12,650	10,588	-1,354	8,183	8,200
1982	17,166	12,394	15,085	12,393	-2,081	8,510	8,761
1983	19,152	13,149	14,044	10,947	-5,108	9,628	7,873
1984	29,183	23,305	21,064	17,050	-8,119	11,755	7,527
1985	31,805	25,155	21,986	17,663	-9,819	12,766	7,538
1986	33,412	26,746	25,730	20,273	-7,682	12,119	8,860
1987	37,433	30,022	30,232	23,366	-7,201	13,711	10,434
1988	41,030	33,098	37,706	28,935	-3,324	14,546	12,513
1989	43,499	34,977	44,533	34,432	1,034	14,900	13,999

<sup>1</sup> Includes passenger fares not shown separately.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, June 1990, and earlier issues.

### No. 421. U.S. Travel to Foreign Countries—Travelers and Expenditures: 1984 to 1989

[Travelers in thousands; expenditures in millions of dollars. Covers residents of the United States, its territories and possessions. See source for details. See also *Historical Statistics, Colonial Times to 1970*, series H 921-940]

ITEM AND AREA	1984	1985	1986	1987	1988	1989, prel.
<b>Total overseas travelers <sup>1</sup></b>	<b>11,755</b>	<b>12,766</b>	<b>12,119</b>	<b>13,711</b>	<b>14,546</b>	<b>14,900</b>
Europe	5,964	6,987	5,829	6,826	7,466	7,785
Latin America	4,817	4,938	5,107	5,568	5,823	5,780
Other	2,736	2,953	3,084	3,528	3,618	3,860
<b>Expenditures abroad</b>	<b>23,305</b>	<b>25,155</b>	<b>26,746</b>	<b>30,022</b>	<b>33,098</b>	<b>34,977</b>
Canada	2,228	2,503	3,030	2,935	3,228	3,390
Mexico	3,358	3,280	3,579	3,975	4,828	5,668
<b>Total overseas</b>	<b>17,719</b>	<b>19,372</b>	<b>20,137</b>	<b>23,112</b>	<b>25,042</b>	<b>25,919</b>
Europe	7,917	8,382	9,186	10,209	11,313	11,754
Latin America	3,771	3,884	4,195	4,663	4,988	5,180
Other	6,031	6,108	6,756	8,240	8,741	8,985
<b>Fares to foreign carriers</b>	<b>5,878</b>	<b>6,650</b>	<b>6,666</b>	<b>7,411</b>	<b>7,932</b>	<b>8,522</b>

<sup>1</sup> Excludes the following: Travel to Canada and Mexico; cruise travelers; military personnel and other Government employees and their dependents stationed abroad, and U.S. citizens residing abroad. Sum of components may exceed total because total excludes travel to Canada and Mexico, while components include such travel.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, June 1990, and earlier issues.

**No. 422. Air Travel Between the United States and Foreign Countries: 1980 to 1989**

[In thousands. Covers passengers on international commercial flights arriving at and departing from U.S. airports. Excludes traffic between U.S. and Canada, border crossers, crewmen, and military personnel. Travelers between U.S. ports in the 50 States, Puerto Rico, Guam, or the Virgin Islands; and any other outlying area are included. Data compiled from flight reports of U.S. Immigration and Naturalization Service. Selection of countries based on minimum of 145,000 arrivals in 1987, except for Greece, which declined from earlier years. For related data, see *Historical Statistics, Colonial Times to 1970*, series C 296-331]

FLAG OF CARRIER AND COUNTRY	ARRIVALS					DEPARTURES				
	1980	1985	1987	1988	1989	1980	1985	1987	1988	1989
<b>Total passengers.</b>	<b>20,262</b>	<b>24,154</b>	<b>28,644</b>	<b>31,387</b>	<b>33,219</b>	<b>19,256</b>	<b>22,467</b>	<b>26,664</b>	<b>29,421</b>	<b>31,154</b>
<b>Flag of carrier:</b>										
United States	10,031	11,797	14,313	16,492	17,175	9,369	10,696	12,853	14,981	15,687
Foreign	10,231	12,357	14,331	14,896	16,044	9,886	11,791	13,811	14,440	15,467
<b>Country of embarkation or debarkation:</b> <sup>1</sup>										
Antigua	63	186	153	156	165	57	86	134	146	145
Australia	227	277	378	431	433	245	232	349	421	466
Bahamas, The	1,123	1,503	1,828	1,737	1,596	1,006	1,151	1,265	1,318	1,288
Barbados	135	216	238	255	221	126	204	233	259	221
Belgium	242	281	227	224	305	231	249	180	186	294
Bermuda	497	434	516	476	451	467	389	367	302	283
Brazil	300	352	418	458	501	291	322	396	438	495
China: Taiwan	113	206	249	282	229	90	187	240	233	245
Colombia	315	279	264	215	284	299	294	279	296	291
Costa Rica	111	140	160	169	204	107	130	146	164	189
Denmark	267	241	302	328	356	254	254	295	306	313
Dominican Republic	468	606	817	906	934	443	528	710	818	838
Ecuador	130	120	148	156	168	131	92	141	140	138
France	689	955	1,181	1,366	1,570	635	894	1,095	1,309	1,494
Grand Cayman	121	173	222	229	226	112	161	189	200	199
Greece	208	187	125	146	128	190	210	128	140	124
Guatemala	165	107	161	203	255	149	116	192	249	264
Haiti	133	192	190	232	234	124	169	181	225	224
Hong Kong	228	270	319	334	347	152	238	270	298	315
Ireland	220	274	291	353	436	212	233	291	302	299
Israel	189	294	230	226	206	186	255	277	282	256
Italy	537	662	665	710	749	495	660	637	661	681
Jamaica	429	707	938	914	899	362	607	858	912	798
Japan	1,624	2,435	3,088	3,748	4,118	1,602	2,255	2,937	3,580	4,081
Mexico	2,886	2,719	3,534	3,621	3,816	2,886	2,674	3,456	3,482	3,657
Netherlands	427	583	621	663	753	409	562	607	647	714
Netherlands Antilles	327	407	524	610	593	282	395	432	511	494
New Zealand	151	145	225	227	263	145	171	284	287	278
Panama	150	180	165	152	111	142	209	168	141	131
Philippines	194	145	182	242	239	160	165	162	200	209
Portugal	119	129	146	162	172	110	122	134	146	166
South Korea	234	390	521	503	666	186	333	459	444	559
Spain	312	419	389	466	503	273	397	382	445	484
Switzerland	312	452	532	587	648	306	434	527	595	655
United Kingdom	2,973	3,460	3,884	4,289	4,638	2,840	3,322	3,696	4,171	4,528
Venezuela	533	248	329	410	415	518	245	320	391	395
West Germany	1,175	1,582	1,962	2,145	2,135	1,178	1,539	1,911	2,152	2,064
Other	1,935	2,198	2,512	3,046	3,242	1,835	2,003	2,335	2,738	2,849

<sup>1</sup> Country where passenger boarded/deboarded a direct flight to/from the U.S.

Source: U.S. Dept. of Transportation, Transportation Systems Center, Cambridge, MA, *U.S. International Travel Statistics*, annual.

**No. 423. Foreign Travel to the U.S.—Travelers and Receipts: 1984 to 1989**

[Travelers in thousands; receipts in millions of dollars. Includes travelers for business and pleasure, foreigners in transit through the United States, and students; excludes travel by foreign government personnel and foreign businessmen employed in the United States. Travelers from overseas excludes Canada and Mexico. See source for details. See also *Historical Statistics, Colonial Times to 1970*, series H 946-951]

AREA OF ORIGIN	1984	1985	1986	1987	1988	1989
<b>Travelers from overseas</b>	<b>7,527</b>	<b>7,538</b>	<b>8,860</b>	<b>10,434</b>	<b>12,513</b>	<b>13,999</b>
Europe	2,981	2,904	3,722	4,663	5,772	6,251
Latin America	1,767	1,796	2,049	2,176	2,367	2,627
Other	2,779	2,838	3,089	3,595	4,374	5,121
<b>Total receipts</b>	<b>17,050</b>	<b>17,663</b>	<b>20,273</b>	<b>23,366</b>	<b>28,935</b>	<b>34,432</b>
Canada	2,612	2,571	2,689	3,294	3,986	4,856
Mexico	1,905	2,013	1,942	2,040	2,652	3,391
Total overseas	12,533	13,079	15,642	18,032	22,297	26,185
Europe	4,411	4,772	5,836	7,585	9,762	10,846
Latin America	3,122	3,122	3,611	3,501	3,726	4,288
Other	5,000	5,185	6,195	6,946	8,809	11,051
Fares to U.S. carriers	4,014	4,323	5,457	6,866	8,771	10,101

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, June 1990, and earlier issues.

## No. 424. Nonimmigrants Admitted, by Class of Admission: 1970 to 1989

(In thousands, except as noted. For fiscal years ending in year shown; see text, section 9. Nonimmigrants are non-resident aliens (non-U.S. citizens) admitted to the U.S. for a temporary period. Included in this group are visitors for business and pleasure, students and their spouses and children, foreign government officials, exchange visitors and their spouses and children, international representatives, treaty traders and investors, representatives of foreign information media, fiancées of U.S. citizens and their children, officials of the North Atlantic Treaty Organization (NATO) and aliens in transit. Most classes include spouses and unmarried minor (or dependent) children accompanying or following to join the alien. Excluded are border crossers, crewmen, and insular travelers. See also *Historical Statistics, Colonial Times to 1970*, series C 149-157.)

CLASS OF ADMISSION	1970	1975	1984	1985	1986	1987	1988	1989
<b>Nonimmigrants</b>	<b>4,431.9</b>	<b>7,083.9</b>	<b>9,426.8</b>	<b>9,675.7</b>	<b>10,607.2</b>	<b>12,421.1</b>	<b>14,784.1</b>	<b>16,373.1</b>
Temporary visitors, total	3,345.2	5,587.4	8,218.0	8,405.4	9,279.9	11,019.3	13,196.7	14,667.4
Percent of total	75.5	78.9	87.2	86.9	87.5	88.7	89.3	89.6
For pleasure	3,020.4	5,060.0	6,594.6	6,608.6	7,342.0	8,887.3	10,821.2	12,114.7
For business	324.8	527.4	1,623.4	1,796.8	1,937.9	2,132.0	2,375.6	2,552.7
Returning resident aliens	493.5	600.0	(X)	(X)	(X)	(X)	(X)	(X)
Transit aliens	231.9	273.0	238.4	236.5	243.9	264.1	299.1	293.4
Foreign government officials	50.5	68.4	89.4	90.2	93.7	91.7	98.9	101.6
Treaty traders and investors	19.2	35.0	90.5	96.5	103.7	114.1	125.6	139.9
Students	107.3	118.0	256.5	285.5	288.4	288.0	337.9	360.8
Representatives to international organizations	23.8	32.6	56.6	57.2	59.4	57.3	58.9	61.4
Temporary workers and industrial trainees	86.5	67.3	79.6	87.5	99.1	113.5	133.1	165.2
Workers of distinguished merit and ability	11.1	15.6	42.5	47.3	54.4	65.5	77.9	89.9
Other temporary workers	69.3	37.5	23.4	24.5	28.0	28.9	33.0	49.2
Industrial trainees	5.3	3.8	2.9	3.0	2.9	3.0	2.5	2.3
Their spouses and children	4.7	10.6	10.8	12.6	13.7	16.2	19.7	23.8
Representatives of foreign information media	66.6	63.4	120.9	141.2	163.0	183.0	202.9	217.5
Exchange visitors	2.3	4.0	7.8	8.3	7.0	7.3	8.5	8.8
NATO officials	0.1	6.4	7.1	7.8	8.1	6.8	6.6	6.5
Fiancées(ees) of U.S. citizens	0.4	22.3	103.6	106.9	108.0	106.8	101.7	100.7
Intracompany transferees	(X)	(X)	47.8	47.5	45.9	63.2	94.9	106.8
Parolees	(X)	(X)	68.5	68.0	51.2	66.8	80.4	101.1
Refugees	(X)	(X)	23.1	20.3	39.1	20.6	17.3	20.7
Other	(X)	(X)						

X Not applicable. <sup>1</sup> For 1970 and 1975, returning resident aliens who had once been counted as immigrants were included with nonimmigrants. Since 1981, data no longer collected. <sup>2</sup> Includes foreign government officials and their spouses and (unmarried minor or dependent) children, in transit. <sup>3</sup> Includes spouses and children. <sup>4</sup> Includes children of fiancées(ees) of U.S. citizens. <sup>5</sup> Aliens allowed to enter the U.S. for a temporary period of time on emergency conditions or when the entry is determined to be in the public interest (e.g., witness in court).

Source: U.S. Immigration and Naturalization Service, *Statistical Yearbook*, annual.

## No. 425. Foreign Visitors for Pleasure Admitted, by Country of Last Residence: 1985 to 1989

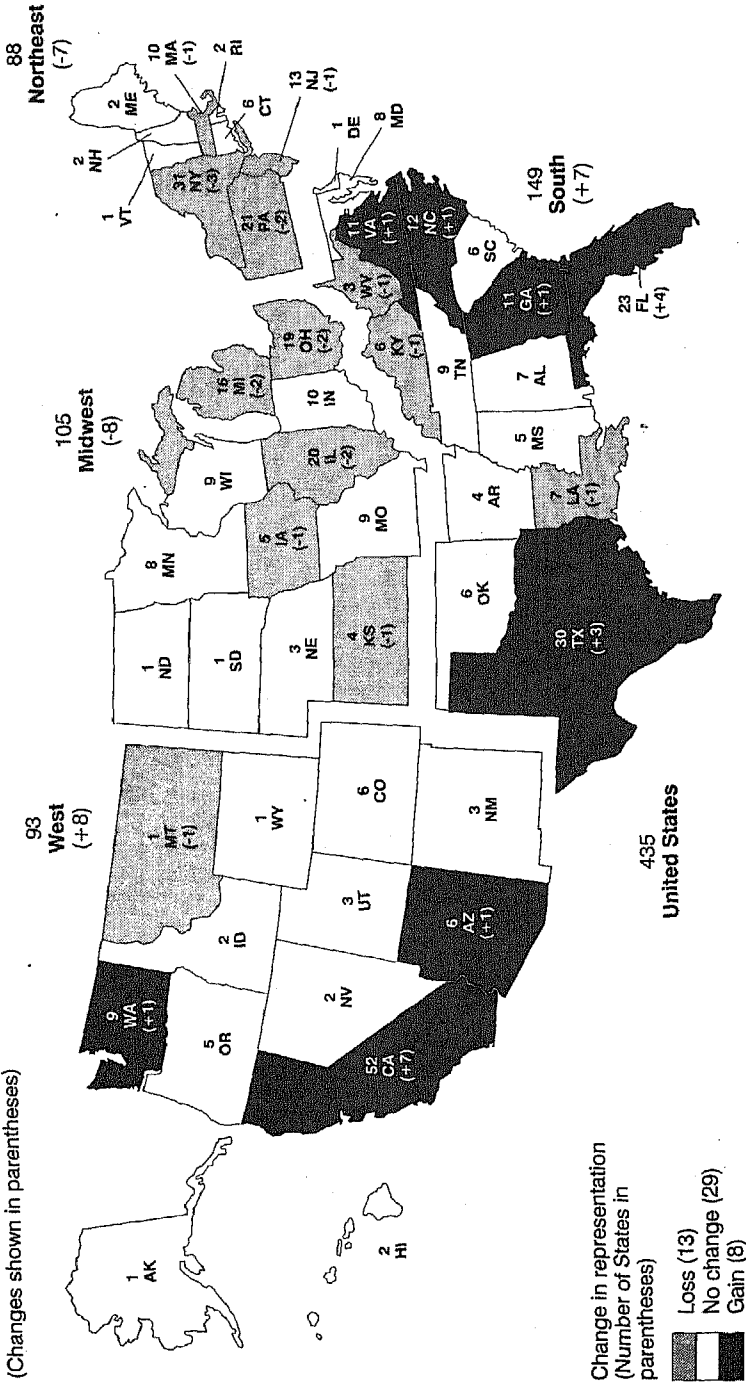
(In thousands. For years ending September 30. See headnote, table 424.)

COUNTRY	1985	1987	1988	1989	COUNTRY	1985	1987	1988	1989
<b>Total</b> <sup>1</sup>	<b>6,609</b>	<b>8,887</b>	<b>10,821</b>	<b>12,115</b>	<b>Africa</b> <sup>2</sup>	<b>101</b>	<b>99</b>	<b>103</b>	<b>108</b>
Europe <sup>2</sup>	2,048	3,486	4,459	4,967	Egypt	16	15	16	16
Austria	34	68	85	82	Nigeria	25	16	15	14
Belgium	39	70	82	80	Oceania <sup>2</sup>	282	330	430	497
Denmark	36	69	78	86	Australia	195	208	265	324
Finland	24	36	50	67	New Zealand	74	106	138	144
France	226	405	473	497	North America	1,664	1,776	2,013	2,293
Greece	34	40	42	43	Canada	79	73	84	101
Ireland	55	81	94	91	Mexico	773	737	820	999
Italy	155	239	271	276	Caribbean <sup>2</sup>	584	711	824	899
Netherlands	82	139	176	190	Bahamas, the	211	274	310	316
Norway	41	62	76	81	Barbados	17	23	28	32
Poland	40	44	43	52	Cayman Islands	18	22	27	28
Soviet Union	2	5	19	38	Dominican Republic	57	70	90	114
Spain	64	96	130	160	Haiti	56	56	63	63
Sweden	71	123	168	207	Jamaica	74	99	121	134
Switzerland	110	181	227	221	Netherlands Antilles	27	27	24	26
United Kingdom	598	1,003	1,397	1,790	Trinidad and Tobago	71	69	77	82
West Germany	373	737	942	897	Central America <sup>2</sup>	228	254	285	294
Asia <sup>2</sup>	1,866	2,414	2,985	3,317	Costa Rica	41	45	46	50
China (Mainland China and Taiwan)	83	87	105	136	El Salvador	38	38	40	46
Hong Kong	64	73	84	97	Guatemala	53	62	78	86
India	52	66	73	73	Panama	38	44	46	41
Israel	80	104	119	121	South America <sup>2</sup>	606	745	796	896
Japan	1,277	1,779	2,247	2,483	Argentina	66	133	98	106
Korea	26	27	35	75	Brazil	148	192	233	272
Philippines	59	63	73	69	Chile	28	31	43	57
Saudi Arabia	31	28	31	33	Colombia	123	115	119	122
Singapore	23	24	30	30	Ecuador	42	53	46	52
					Peru	44	60	63	74
					Venezuela	122	111	137	162

<sup>1</sup> Includes countries unknown or not reported. <sup>2</sup> Includes countries not shown separately.

Source: U.S. Immigration and Naturalization Service, *Statistical Yearbook*, annual.

Figure 8.1  
Congressional Representation in 1990 and Changes Since 1980 for States  
(Changes shown in parentheses)



Source: Chart prepared by U.S. Bureau of the Census.



## Section 8 Elections

This section relates primarily to Presidential, congressional, and gubernatorial elections. Also presented are summary tables on congressional legislation; State legislatures; Black, Hispanic, and female officeholders; population of voting age; voter participation; and campaign finances.

Official statistics on Federal elections, collected by the Clerk of the House, are published biennially in *Statistics of the Presidential and Congressional Election* and *Statistics of the Congressional Election*. Federal and State elections data appear also in *America Votes*, a biennial volume of the Elections Research Center, Washington, DC. Federal elections data also appear in the U.S. Congress, *Congressional Directory*, and in official State documents. Data on reported registration and voting for social and economic groups are obtained by the U.S. Bureau of the Census as part of the Current Population Survey (CPS) and are published in *Current Population Reports*, series P-20 (see text, section 1).

Almost all Federal, State, and local governmental units in the United States conduct elections for political offices and other purposes. The conduct of elections is regulated by State laws or, in some cities and counties, by local charter. An exception is that the U.S. Constitution prescribes the basis of representation in Congress and the manner of electing the President, and grants to Congress the right to regulate the times, places, and manner of electing Federal officers. Amendments to the Constitution have prescribed national criteria for voting eligibility. The 15th Amendment, adopted in 1870, gave all citizens the right to vote regardless of race, color, or previous condition of servitude. The 19th Amendment, adopted in 1919, further extended the right to vote to all citizens regardless of sex. The payment of poll taxes as a prerequisite to voting in Federal elections was banned by the 24th Amendment in 1964. In 1971, as a result of the 26th Amendment, eligibility to vote in national elections was extended to all citizens, 18 years old and over.

**Presidential election.**—The Constitution specifies how the President and Vice President are selected. Each State elects, by popular vote, a group of electors equal in number to its total of members of Congress. The 23d Amendment, adopted in 1961, grants the District of Columbia three presidential electors, a number equal to that of the least populous State. Subsequent to the election, the electors meet in their respective States to vote for President and Vice President. Usually, each elector votes for the candidate receiving the most popular votes in his or her State. A majority vote of all electors is necessary to elect the President and Vice President. If no candidate receives a majority, the House of Representatives, with each State having one vote, is empowered to elect the President and Vice President, again, with a majority of votes required.

The 22d Amendment to the Constitution, adopted in 1951, limits presidential tenure to two elective terms of 4 years each, or to one elective term for any person who, upon succession to the Presidency, has held the office or acted as President for more than 2 years.

**Congressional election.**—The Constitution provides that Representatives be apportioned among the States according to their population; that a census of population be taken every 10 years as a basis for apportionment; and that each State have at least one Representative. At the time of each apportionment, Congress decides what the total number of Representatives will be. Since 1912, the total has been 435, except during 1960 to 1962 when it increased to 437, adding one Representative each for Alaska and Hawaii. The total reverted to 435 after reapportionment following the 1960 census. Members are elected for 2-year terms, all terms covering the same period. The District of Columbia, American Samoa, Guam, and the Virgin Islands each elect one nonvoting Delegate and Puerto Rico elects a nonvoting Resident Commissioner.

The Senate is composed of 100 members, two from each State, who are elected to serve for a term of 6 years. One-third of the Senate is elected every 2 years. Senators were originally chosen by the State legislatures. The 17th Amendment to the Constitution, adopted in 1913, prescribed that Senators be elected by popular vote.

**Voter eligibility and participation.**—The Census Bureau publishes estimates of the population of voting age and the percent casting votes in each State for Presidential and congressional election years. These voting-age estimates include a number of persons who meet the age

requirement but are not eligible to vote, (e.g. aliens and some institutionalized persons). In addition, since 1964, voter participation and voter characteristics data have been collected during November of election years as part of the CPS. These survey data include noncitizens in the voting age population estimates, but exclude members of the Armed Forces and the institutional population.

**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

### No. 426. Vote Cast for President, by Major Political Party: 1920 to 1988

(Prior to 1960, excludes Alaska and Hawaii; prior to 1964, excludes DC. Vote cast for major party candidates include the votes of minor parties cast for those candidates. See also *Historical Statistics, Colonial Times to 1970*, series Y 79-83 and Y 135)

YEAR	CANDIDATES FOR PRESIDENT		VOTE CAST FOR PRESIDENT						
	Democratic	Republican	Total popular vote <sup>1</sup> (1,000)	Democratic			Republican		
				Popular vote		Elec- toral vote	Popular vote		Elec- toral vote
				Number (1,000)	Per- cent		Number (1,000)	Per- cent	
1920	Cox	Harding	26,768	9,133	34.1	127	16,153	60.3	404
1924	Davis	Coolidge	29,095	8,387	28.8	136	15,720	54.0	382
1928	Smith	Hoover	36,606	15,006	40.8	87	21,437	58.2	444
1932	F. D. Roosevelt	Hoover	39,758	22,829	57.4	472	15,760	39.6	59
1936	F. D. Roosevelt	Landon	45,654	27,757	60.8	523	16,684	36.5	8
1940	F. D. Roosevelt	Willkie	49,900	27,313	54.7	449	22,348	44.8	82
1944	F. D. Roosevelt	Dewey	47,977	25,613	53.4	432	22,018	45.9	99
1948	Truman	Dewey	48,794	24,179	49.6	303	21,991	45.1	189
1952	Stevenson	Eisenhower	61,551	27,315	44.4	89	33,936	55.1	442
1956	Stevenson	Eisenhower	62,027	26,023	42.0	73	35,590	57.4	457
1960	Kennedy	Nixon	68,838	34,227	49.7	303	34,108	49.5	219
1964	Johnson	Goldwater	70,645	43,130	61.1	486	27,178	38.5	52
1968	Humphrey	Nixon	73,212	31,275	42.7	191	31,785	43.4	301
1972	McGovern	Nixon	77,719	29,170	37.5	17	47,170	60.7	520
1976	Carter	Ford	81,556	40,831	50.1	297	39,148	48.0	240
1980	Carter	Reagan	86,515	35,484	41.0	49	43,904	50.7	489
1984	Mondale	Reagan	92,853	37,577	40.6	13	54,455	58.8	525
1988	Dukakis	Bush	91,595	41,809	45.6	111	48,886	53.4	426

<sup>1</sup> Include votes for minor party candidates, independents, unpledged electors, and scattered write-in votes.

Source: Elections Research Center, Washington, DC, *America at the Polls*, 1965, and *America Votes*, biennial, (copyright).

### No. 427. Vote Cast for Leading Minority Party Candidates for President: 1920 to 1988

[See headnote, table 426]

YEAR	Candidate	Party	Popu- lar vote (1,000)	Candidate	Party	Popu- lar vote (1,000)
1920	Eugene Debs	Socialist	915	P.P. Christensen	Farmer-Labor	265
1924	Robert LaFollette	Progressive	4,833	Herman P. Farris	Prohibition	56
1928	Norman Thomas	Socialist	266	Verne L. Reynolds	Socialist Labor	22
1932	Norman Thomas	Socialist	885	William Z. Foster	Communist	103
1936	William Lemke	Union	892	Norman Thomas	Socialist	188
1940	Norman Thomas	Socialist	116	Roger Babson	Prohibition	59
1944	Norman Thomas	Socialist	79	Claude Watson	Prohibition	75
1948	Strom Thurmond	States' Rights	1,176	Henry Wallace	Progressive	1,157
1952	Vincent Hallinan	Progressive	140	Stuart Hamblen	Prohibition	73
1956	T. Coleman Andrews	States' Rights	111	Eric Hass	Socialist Labor	44
1960	Eric Hass	Socialist Labor	48	Rutherford Decker	Prohibition	46
1964	Eric Hass	Socialist Labor	45	Clifton DeBrye	Socialist Workers	33
1968	George Wallace	American Independent	9,906	Henning Blomen	Socialist Labor	53
1972	John Schmitz	American	1,099	Benjamin Spock	People's	79
1976	Eugene McCarthy	Independent	757	Roger McBride	Libertarian	173
1980	John Anderson	Independent	5,720	Ed Clark	Libertarian	921
1984	David Bergland	Libertarian	228	Lyndon H. LaRouche	Independent	79
1988	Ron Paul	Libertarian	432	Lenora B. Fulani	New Alliance	217

Source: Elections Research Center, Washington, DC, *America at the Polls*, 1965, and *America Votes*, biennial, (copyright).

### No. 428. Electoral Vote Cast for President, by Major Political Party—States: 1948 to 1988

[D=Democratic, R=Republican. For composition of regions, see fig. 1, inside front cover. See also *Historical Statistics, Colonial Times to 1970, series Y 84-134*]

REGION, DIVISION, AND STATE	1948 <sup>1</sup>	1952	1956 <sup>2</sup>	1960 <sup>3</sup>	1964	1968 <sup>4</sup>	1972 <sup>5</sup>	1976 <sup>6</sup>	1980	1984	1988 <sup>7</sup>
Democratic	303	89	73	303	486	191	17	297	49	13	111
Republican	189	442	457	219	52	301	520	240	489	525	426
Northeast: Democratic	20	-	-	121	126	102	14	86	4	-	53
Republican	118	133	133	12	-	24	108	36	118	113	60
Midwest: Democratic	101	-	13	71	149	31	-	58	10	10	29
Republican	54	153	140	82	-	118	145	87	135	127	108
South: Democratic	117	89	60	101	121	45	3	149	31	3	8
Republican	11	77	105	50	47	77	165	20	138	174	168
West: Democratic	65	-	-	10	90	13	-	4	4	-	21
Republican	6	79	79	75	5	82	102	97	98	111	90
New England: ME	R-5	R-5	R-5	R-5	D-4	D-4	R-4	R-4	R-4	R-4	R-4
NH	R-4	R-4	R-4	R-4	D-4	R-4	R-4	R-4	R-4	R-4	R-4
VT	R-3	R-3	R-3	R-3	D-3	R-3	R-3	R-3	R-3	R-3	R-3
MA	D-16	R-16	R-16	D-16	D-14	D-14	D-14	R-14	R-14	R-13	D-13
RI	D-4	R-4	R-4	D-4	D-4	R-4	R-4	D-4	R-4	R-4	D-4
CT	R-8	R-8	R-8	D-8	D-8	D-8	R-8	R-8	R-8	R-8	R-8
Middle Atlantic: NY	R-47	R-45	R-45	D-45	D-43	D-43	R-41	D-41	R-41	R-36	D-36
NJ	R-16	R-16	R-16	D-16	D-17	R-17	R-17	R-17	R-17	R-16	R-16
PA	R-35	R-32	R-32	D-32	D-29	D-29	R-27	D-27	R-27	R-25	R-25
East North Central: OH	D-25	R-25	R-25	R-25	D-26	R-26	R-25	D-25	R-25	R-23	R-23
IN	R-13	R-13	R-13	R-13	D-13	R-13	R-13	R-13	R-13	R-12	R-12
IL	D-28	R-27	R-27	D-27	D-26	R-26	R-26	R-26	R-26	R-24	R-24
MI	R-19	R-20	R-20	D-20	D-21	D-21	R-21	R-21	R-21	R-20	R-20
WI	D-12	R-12	R-12	D-12	D-12	R-12	R-11	D-11	R-11	R-11	D-11
West North Central: MN	D-11	R-11	R-11	D-11	D-10	D-10	R-10	D-10	D-10	D-10	D-10
IA	D-10	R-10	R-10	R-10	D-9	R-9	R-8	R-8	R-8	R-8	D-8
MO	D-15	R-13	D-13	D-13	D-12	R-12	R-12	D-12	R-12	R-11	R-11
ND	R-4	R-4	R-4	R-4	D-4	R-4	R-3	R-3	R-3	R-3	R-3
SD	R-4	R-4	R-4	R-4	D-4	R-4	R-4	R-4	R-4	R-3	R-3
NE	R-6	R-6	R-6	R-6	D-5	R-5	R-5	R-5	R-5	R-5	R-5
KS	R-8	R-8	R-8	R-8	D-7	R-7	R-7	R-7	R-7	R-7	R-7
South Atlantic: DE	R-3	R-3	R-3	D-3	D-3	R-3	R-3	D-3	R-3	R-3	R-3
MD	R-8	R-9	R-9	D-9	D-10	D-10	R-10	D-10	D-10	R-10	R-10
DC	(X)	(X)	(X)	(X)	D-3	D-3	D-3	D-3	D-3	D-3	D-3
VA	D-11	R-12	R-12	R-12	D-12	R-12	<sup>5</sup> R-11	R-12	R-12	R-12	R-12
WV	D-8	D-8	R-8	D-8	D-7	D-7	R-6	D-6	D-6	R-6	<sup>7</sup> D-5
NC	D-14	D-14	D-14	D-14	D-13	<sup>4</sup> R-12	R-13	D-13	R-13	R-13	R-13
SC	( <sup>1</sup> )	D-8	D-8	D-8	R-8	R-8	R-8	D-8	R-8	R-8	R-8
GA	D-12	D-12	D-12	D-12	R-12	( <sup>1</sup> )	R-12	D-12	D-12	R-12	R-12
FL	D-8	R-10	R-10	R-10	D-14	R-14	R-17	D-17	R-17	R-21	R-21
East South Central: KY	D-11	D-10	R-10	R-10	D-9	R-9	R-9	D-9	R-9	R-9	R-9
TN	<sup>1</sup> D-11	R-11	R-11	R-11	D-11	R-11	R-10	D-10	R-10	R-11	R-11
AL	( <sup>1</sup> )	D-11	<sup>2</sup> D-10	<sup>3</sup> D-5	R-10	( <sup>1</sup> )	R-9	D-9	R-9	R-9	R-9
MS	( <sup>1</sup> )	D-8	D-8	( <sup>3</sup> )	R-7	( <sup>1</sup> )	R-7	D-7	R-7	R-7	R-7
West South Central: AR	D-9	D-8	D-8	D-8	D-6	( <sup>1</sup> )	R-6	D-6	R-6	R-6	R-6
LA	( <sup>1</sup> )	D-10	R-10	D-10	R-10	( <sup>1</sup> )	R-10	D-10	R-10	R-10	R-10
OK	D-10	R-8	R-8	<sup>3</sup> R-7	D-8	R-8	R-8	R-8	R-8	R-8	R-8
TX	D-23	R-24	R-24	D-24	D-25	D-25	R-26	D-26	R-26	R-29	R-29
Mountain: MT	D-4	R-4	R-4	R-4	D-4	R-4	R-4	R-4	R-4	R-4	R-4
ID	D-4	R-4	R-4	R-4	D-4	R-4	R-4	R-4	R-4	R-4	R-4
WY	D-3	R-3	R-3	R-3	D-3	R-3	R-3	R-3	R-3	R-3	R-3
CO	D-6	R-6	R-6	R-6	D-6	R-6	R-7	R-7	R-7	R-8	R-8
NM	D-4	R-4	R-4	D-4	D-4	R-4	R-4	R-4	R-4	R-5	R-5
AZ	D-4	R-4	R-4	R-4	R-5	R-5	R-6	R-6	R-6	R-7	R-7
UT	D-4	R-4	R-4	R-4	D-4	R-4	R-4	R-4	R-4	R-5	R-5
NV	D-3	R-3	R-3	D-3	D-3	R-3	R-3	R-3	R-3	R-4	R-4
Pacific: WA	D-8	R-9	R-9	R-9	D-9	D-9	<sup>6</sup> R-8	R-8	R-9	R-10	D-10
OR	R-6	R-6	R-6	R-6	D-6	R-6	R-6	R-6	R-6	R-7	D-7
CA	D-25	R-32	R-32	R-32	D-40	R-40	R-45	R-45	R-45	R-47	R-47
AK	(X)	(X)	(X)	R-3	D-3	R-3	R-3	R-3	R-3	R-3	R-3
HI	(X)	(X)	(X)	D-3	D-4	D-4	R-4	D-4	D-4	R-4	D-4

- Represents zero. X Not applicable. <sup>1</sup> Excludes 39 electoral votes cast for States' Rights Democratic candidates as follows: AL 11; LA 10; MS 9; SC 8; and TN 1. <sup>2</sup> Excludes 1 electoral vote cast for Walter B. Jones in Alabama. <sup>3</sup> Excludes 15 electoral votes cast for Harry F. Byrd as follows: AL 6; MS 8; and OK 1. <sup>4</sup> Excludes 46 electoral votes cast for George C. Wallace as follows: AL 10; AR 6; GA 12; LA 10; MS 7; NC 1. <sup>5</sup> Excludes 1 electoral vote cast for John Hospers in Virginia. <sup>6</sup> Excludes 1 electoral vote cast for Ronald Reagan in Washington. <sup>7</sup> Excludes 1 electoral vote cast for Lloyd Bentsen for President in West Virginia.

Source: 1948-1972, U.S. Congress, Clerk of the House, *Statistics of the Presidential and Congressional Election*, quadrennial; 1976-1988, Elections Research Center, Washington, DC, *America Votes*, biennial. (Copyright.)

# No. 429. Popular Vote Cast for President, by Political Party—States: 1980 to 1988

[In thousands, except percent. D=Democratic, R=Republican. Leading party vote refers to the party vote representing either a majority or a plurality for the victorious party in the area shown. See also *Historical Statistics, Colonial Times to 1970*, series Y 135-186]

REGION, DIVISION, AND STATE	1980				1984				1988			
	Total <sup>1</sup>	Democrat Party	Republican Party	Percent for leading party	Total <sup>1</sup>	Democrat Party	Republican Party	Percent for leading party	Total <sup>1</sup>	Democrat Party	Republican Party	Percent for leading party
<b>United States . . .</b>	<b>86,515</b>	<b>35,484</b>	<b>43,904</b>	<b>R-50.7</b>	<b>92,653</b>	<b>37,577</b>	<b>54,455</b>	<b>R-58.8</b>	<b>91,595</b>	<b>41,809</b>	<b>48,886</b>	<b>R-53.4</b>
<b>Northeast . . . . .</b>	<b>19,206</b>	<b>8,019</b>	<b>9,147</b>	<b>R-47.6</b>	<b>20,483</b>	<b>9,046</b>	<b>11,336</b>	<b>R-55.3</b>	<b>19,852</b>	<b>9,689</b>	<b>9,961</b>	<b>R-50.2</b>
<b>N.E. . . . .</b>	<b>5,467</b>	<b>2,206</b>	<b>2,446</b>	<b>R-44.7</b>	<b>5,614</b>	<b>2,437</b>	<b>3,153</b>	<b>R-56.2</b>	<b>5,730</b>	<b>2,826</b>	<b>2,836</b>	<b>R-49.5</b>
ME . . . . .	523	221	239	R-45.6	553	215	337	R-60.8	555	244	307	R-55.3
NH . . . . .	384	109	222	R-57.7	389	120	267	R-68.6	451	164	282	R-62.4
VT . . . . .	213	82	95	R-44.4	235	96	136	R-57.9	243	116	124	R-51.1
MA . . . . .	2,524	1,054	1,058	R-41.9	2,559	1,240	1,311	R-51.2	2,633	1,401	1,195	D-53.2
RI . . . . .	416	198	155	D-47.7	410	197	212	R-51.7	405	225	178	D-55.6
CT . . . . .	1,406	542	677	R-48.2	1,467	570	891	R-60.7	1,443	677	750	R-52.0
<b>M.A. . . . .</b>	<b>13,739</b>	<b>5,813</b>	<b>6,703</b>	<b>R-48.8</b>	<b>14,870</b>	<b>6,609</b>	<b>8,183</b>	<b>R-55.0</b>	<b>14,121</b>	<b>6,863</b>	<b>7,125</b>	<b>R-50.5</b>
NY . . . . .	6,202	2,728	2,894	R-46.7	6,807	3,120	3,665	R-53.8	6,486	3,348	3,082	D-51.6
NJ . . . . .	2,976	1,147	1,547	R-52.0	3,218	1,261	1,934	R-60.1	3,100	1,320	1,743	R-56.2
PA . . . . .	4,562	1,938	2,262	R-49.6	4,845	2,228	2,584	R-53.3	4,536	2,195	2,300	R-60.7
<b>Midwest . . . . .</b>	<b>25,178</b>	<b>10,291</b>	<b>12,827</b>	<b>R-50.9</b>	<b>25,441</b>	<b>10,511</b>	<b>14,761</b>	<b>R-58.0</b>	<b>24,663</b>	<b>11,556</b>	<b>12,915</b>	<b>R-52.4</b>
<b>E.N.C. . . . .</b>	<b>17,458</b>	<b>7,221</b>	<b>8,825</b>	<b>R-50.5</b>	<b>17,613</b>	<b>7,279</b>	<b>10,213</b>	<b>R-58.0</b>	<b>16,982</b>	<b>7,819</b>	<b>9,038</b>	<b>R-53.2</b>
OH . . . . .	4,284	1,752	2,207	R-51.5	4,548	1,825	2,679	R-58.9	4,394	1,940	2,417	R-55.0
IN . . . . .	2,242	844	1,256	R-56.0	2,233	841	1,377	R-61.7	2,169	861	1,298	R-59.8
IL . . . . .	4,750	1,981	2,358	R-49.6	4,819	2,086	2,707	R-56.2	4,559	2,216	2,311	R-50.7
MI . . . . .	3,910	1,662	1,915	R-49.0	3,802	1,530	2,252	R-59.2	3,669	1,676	1,965	R-53.6
WI . . . . .	2,273	982	1,089	R-47.9	2,212	996	1,199	R-54.2	2,192	1,127	1,047	D-51.4
<b>W.N.C. . . . .</b>	<b>7,719</b>	<b>3,070</b>	<b>4,002</b>	<b>R-51.8</b>	<b>7,828</b>	<b>3,232</b>	<b>4,548</b>	<b>R-58.1</b>	<b>7,681</b>	<b>3,737</b>	<b>3,677</b>	<b>R-50.5</b>
MN . . . . .	2,052	954	873	D-46.5	2,084	1,036	1,033	D-49.7	2,097	1,109	962	D-52.9
IA . . . . .	1,318	509	676	R-51.3	1,320	606	703	R-53.3	1,226	671	545	D-54.7
MO . . . . .	2,100	931	1,074	R-51.2	2,123	849	1,274	R-60.0	2,094	1,002	1,085	R-51.8
ND . . . . .	302	79	194	R-64.2	309	104	200	R-64.8	297	128	167	R-56.0
SD . . . . .	328	104	198	R-60.5	318	116	200	R-63.0	313	146	165	R-52.8
NE . . . . .	641	167	420	R-65.5	652	188	460	R-70.6	661	259	398	R-60.2
KS . . . . .	980	326	567	R-57.9	1,022	333	677	R-66.3	993	423	554	R-55.8
<b>South . . . . .</b>	<b>25,813</b>	<b>11,554</b>	<b>13,118</b>	<b>R-50.8</b>	<b>28,833</b>	<b>10,998</b>	<b>17,699</b>	<b>R-61.4</b>	<b>28,558</b>	<b>12,004</b>	<b>16,327</b>	<b>R-57.2</b>
<b>S.A. . . . .</b>	<b>12,589</b>	<b>5,698</b>	<b>6,198</b>	<b>R-49.2</b>	<b>14,124</b>	<b>5,519</b>	<b>8,565</b>	<b>R-60.6</b>	<b>14,234</b>	<b>5,927</b>	<b>8,207</b>	<b>R-57.7</b>
DE . . . . .	236	106	111	R-47.2	255	102	152	R-59.8	250	109	140	R-55.9
MD . . . . .	1,540	726	681	D-47.1	1,676	788	880	R-52.5	1,714	826	876	R-51.1
DC . . . . .	175	131	24	D-74.8	211	180	29	D-85.4	193	159	28	D-82.6
VA . . . . .	1,866	752	990	R-53.0	2,147	796	1,337	R-62.3	2,192	860	1,309	R-59.7
WV . . . . .	738	367	334	D-49.8	736	328	405	R-55.1	653	341	310	D-52.2
NC . . . . .	1,856	876	915	R-49.3	2,175	824	1,346	R-61.9	2,134	890	1,237	R-58.0
SC . . . . .	894	430	442	R-49.4	969	344	616	R-63.6	986	371	606	R-61.5
GA . . . . .	1,597	891	654	D-55.8	1,776	707	1,069	R-60.2	1,810	715	1,081	R-59.8
FL . . . . .	3,687	1,419	2,047	R-55.5	4,180	1,449	2,730	R-65.3	4,302	1,657	2,619	R-60.9
<b>E.S.C. . . . .</b>	<b>5,147</b>	<b>2,465</b>	<b>2,518</b>	<b>R-48.9</b>	<b>5,464</b>	<b>2,155</b>	<b>3,267</b>	<b>R-59.8</b>	<b>5,269</b>	<b>2,174</b>	<b>3,055</b>	<b>R-58.0</b>
KY . . . . .	1,295	616	635	R-49.1	1,369	540	822	R-60.0	1,323	580	734	R-55.5
TN . . . . .	1,618	783	788	R-48.7	1,712	712	990	R-57.8	1,636	680	947	R-57.9
AL . . . . .	1,342	637	654	R-48.8	1,442	552	873	R-60.5	1,378	550	816	R-59.2
MS . . . . .	893	429	441	R-49.4	941	352	582	R-61.9	932	364	558	R-59.9
<b>W.S.C. . . . .</b>	<b>8,078</b>	<b>3,389</b>	<b>4,403</b>	<b>R-54.5</b>	<b>9,244</b>	<b>3,325</b>	<b>5,867</b>	<b>R-63.5</b>	<b>9,054</b>	<b>3,903</b>	<b>5,065</b>	<b>R-55.9</b>
AR . . . . .	838	398	403	R-48.1	884	339	535	R-60.5	828	349	467	R-56.4
LA . . . . .	1,549	708	793	R-51.2	1,707	652	1,037	R-60.8	1,628	717	884	R-54.3
OK . . . . .	1,150	402	696	R-60.5	1,256	385	862	R-68.6	1,171	483	678	R-57.9
TX . . . . .	4,542	1,881	2,511	R-55.3	5,398	1,949	3,433	R-63.6	5,427	2,353	3,037	R-56.0
<b>West . . . . .</b>	<b>16,318</b>	<b>5,620</b>	<b>8,813</b>	<b>R-54.0</b>	<b>17,895</b>	<b>7,022</b>	<b>10,659</b>	<b>R-59.6</b>	<b>18,522</b>	<b>8,560</b>	<b>9,683</b>	<b>R-52.3</b>
<b>MT . . . . .</b>	<b>4,346</b>	<b>1,251</b>	<b>2,637</b>	<b>R-60.7</b>	<b>4,736</b>	<b>1,546</b>	<b>3,131</b>	<b>R-66.1</b>	<b>5,014</b>	<b>2,043</b>	<b>2,887</b>	<b>R-57.6</b>
MT . . . . .	364	118	207	R-56.8	384	147	232	R-60.5	366	169	190	R-52.1
ID . . . . .	437	110	291	R-66.5	411	109	298	R-72.4	409	147	254	R-62.1
WY . . . . .	177	49	111	R-62.6	189	53	133	R-70.5	177	67	107	R-60.5
CO . . . . .	1,184	368	652	R-55.1	1,295	455	822	R-63.4	1,372	621	728	R-53.1
NM . . . . .	457	168	251	R-54.9	514	202	307	R-59.7	521	244	270	R-51.8
AZ . . . . .	874	247	530	R-60.6	1,026	334	681	R-66.4	1,172	454	703	R-60.0
UT . . . . .	604	124	440	R-72.8	630	155	469	R-74.5	647	207	428	R-66.2
NV . . . . .	248	67	155	R-62.5	287	92	189	R-65.8	350	133	206	R-58.9
<b>Pac . . . . .</b>	<b>11,973</b>	<b>4,369</b>	<b>6,177</b>	<b>R-51.6</b>	<b>13,159</b>	<b>5,476</b>	<b>7,528</b>	<b>R-57.2</b>	<b>13,509</b>	<b>6,517</b>	<b>6,797</b>	<b>R-50.3</b>
WA . . . . .	1,742	650	865	R-49.7	1,884	807	1,052	R-55.8	1,865	934	904	D-50.0
OR . . . . .	1,182	457	571	R-48.3	1,227	536	686	R-55.9	1,202	616	580	D-51.3
CA . . . . .	8,587	3,084	4,525	R-52.7	9,505	3,923	5,467	R-57.5	9,887	4,702	5,055	R-51.1
AK . . . . .	158	42	86	R-54.3	208	62	138	R-66.7	200	73	119	R-59.6
HI . . . . .	303	136	130	D-44.8	336	147	185	R-55.1	354	192	159	D-54.3

<sup>1</sup>Includes other parties.

Source: Elections Research Center, Washington, DC, *America Votes*, biennial. (Copyright.)



**No. 430. Votes Cast in Presidential Preference Primaries, by Party and Leading Candidates: 1988**

[In thousands. Covers only those States with Democratic or Republican presidential primaries]

STATE	Primary date	DEMOCRATIC							REPUBLICAN				
		Total <sup>1</sup>	Duka-kis	Gep-hardt	Gore	Hart	Jack-son	Simon	Total <sup>1</sup>	Bush	Dole	Kemp	Rob-ertson
New Hampshire	Feb. 16	124	44	25	8	5	10	21	158	58	45	20	15
South Dakota	Feb. 23	72	22	31	6	4	4	4	93	17	52	4	18
Vermont	Mar. 1	51	28	4	-	2	13	3	48	24	19	2	2
South Carolina	Mar. 5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	195	95	40	22	37
Alabama	Mar. 8	406	31	30	152	8	177	3	214	138	35	11	30
Arkansas	Mar. 8	498	94	60	186	19	85	9	68	32	18	3	13
Florida	Mar. 8	1,273	521	183	161	36	255	28	901	560	191	42	96
Georgia	Mar. 8	623	97	41	201	16	248	8	401	216	95	23	65
Kentucky	Mar. 8	319	59	29	146	12	50	9	121	72	28	4	14
Louisiana	Mar. 8	624	96	66	175	26	222	5	145	84	26	8	26
Maryland	Mar. 8	531	242	42	46	10	153	17	201	107	65	12	13
Massachusetts	Mar. 8	713	418	73	32	11	133	26	241	141	63	17	11
Mississippi	Mar. 8	359	30	20	120	14	161	2	159	105	27	5	21
Missouri	Mar. 8	528	61	305	15	8	106	21	400	169	164	14	45
North Carolina	Mar. 8	680	138	38	236	16	224	8	274	124	107	11	27
Oklahoma	Mar. 8	393	66	83	163	14	52	7	209	78	73	11	44
Rhode Island	Mar. 8	49	34	2	2	1	7	1	16	10	4	1	1
Tennessee	Mar. 8	576	19	8	417	5	119	3	254	153	55	11	32
Texas	Mar. 8	1,767	580	240	358	82	433	34	1,015	648	141	51	155
Virginia	Mar. 8	365	80	16	81	6	165	7	234	125	61	11	32
Illinois	Mar. 15	1,501	245	35	77	13	484	635	859	469	309	13	59
Connecticut	Mar. 29	241	140	1	19	6	68	3	104	74	21	3	3
Wisconsin	Apr. 5	1,015	483	8	177	7	286	48	359	295	28	5	25
New York	Apr. 19	1,575	801	3	158	-	585	17	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Pennsylvania	Apr. 26	1,508	1,002	7	45	20	411	10	871	687	104	-	79
Indiana	May 3	646	449	17	22	-	145	13	438	352	43	14	29
Ohio	May 3	1,384	870	-	30	28	379	16	795	644	95	-	56
District of Columbia	May 3	86	15	(Z)	1	-	69	1	7	6	(Z)	-	(Z)
Nebraska	May 10	169	106	5	3	4	43	2	204	139	46	8	10
West Virginia	May 10	340	254	6	12	9	46	2	143	111	16	4	10
Oregon	May 17	389	221	7	5	-	148	5	274	200	49	-	21
Idaho	May 24	51	38	-	2	-	8	1	68	55	-	-	6
California	June 7	3,139	1,911	-	57	-	1,102	44	2,240	1,856	289	-	95
Montana	June 7	122	84	3	2	-	27	2	86	63	17	-	-
New Jersey	June 7	654	415	-	18	-	214	-	241	241	-	-	-
New Mexico	June 7	189	115	-	5	7	53	3	89	69	9	-	5
North Dakota	June 14	3	3	-	-	-	1	-	39	37	-	-	-

- Represents zero. Z Less than 500. <sup>1</sup> Includes votes for other candidates, not shown separately. <sup>2</sup> No primary held.

Source: Elections Research Center, Washington, DC, *America Votes*, biennial. (Copyright.)

**No. 431 Democratic and Republican Percentages of Two-Party Presidential Vote, by Selected Characteristics of Voters: 1984 and 1988**

[In percent. Covers citizens of voting-age living in private housing units in the contiguous U.S. Percentages for Democratic Presidential vote are computed by subtracting the percentage Republican vote from 100 percent; third party votes are not included as valid data. Data are from the National Election Studies and are based on a sample (for 1988, 2,040 respondents) and subject to sampling variability; for details, see source]

CHARACTERISTIC	1984		1988		CHARACTERISTIC	1984		1988	
	Democ-ratic	Repub-lican	Democ-ratic	Repub-lican		Democ-ratic	Repub-lican	Democ-ratic	Repub-lican
Total <sup>1</sup>	42	58	47	53	Race:				
Year of birth:					White	37	63	41	59
1959 or later	42	58	48	52	Black	91	9	92	8
1943 to 1958	41	59	47	53	Education:				
1927 to 1942	40	60	49	51	Grade school	62	38	61	39
1911 to 1926	44	56	44	56	High school	42	58	51	49
1895 to 1910	42	58	47	53	College	38	62	42	58
Sex:					Union household	57	43	59	41
Male	38	62	44	57	Non-union household	37	63	44	56
Female	45	55	50	50					

<sup>1</sup> Includes other characteristics, not shown separately.

Source: Center for Political Studies, University of Michigan, Ann Arbor, MI. Data are published in Warren E. Miller and Santa A. Traugott, *American National Election Studies Data Sourcebook, 1952-1986*, Harvard University Press, Cambridge, MA, 1989 (copyright).

# No. 432. Vote Cast for United States Senators, by Major Political Party—States: 1986 to 1990

[In thousands, except percent]

DIVISION AND STATE	1986				1988				1990 <sup>2</sup>			
	Total <sup>1</sup>	Democratic	Republican	Percent for leading party	Total <sup>1</sup>	Democratic	Republican	Percent for leading party	Total <sup>1</sup>	Democratic	Republican	Percent for leading party
<b>N. Eng.:</b>												
ME	(X)	(X)	(X)	(X)	557	453	105	81.2	501	194	307	61.3
NH	245	79	154	62.9	(X)	(X)	(X)	(X)	281	92	189	87.3
VT	197	124	68	63.2	240	71	163	68.0	(X)	(X)	(X)	(X)
MA	(X)	(X)	(X)	(X)	2,606	1,693	884	65.0	2,073	1,180	893	56.9
RI	(X)	(X)	(X)	(X)	398	181	217	54.6	350	216	134	61.8
CT	977	633	340	64.8	1,384	688	678	49.8	(X)	(X)	(X)	(X)
<b>Mid. Atl.:</b>												
NY	4,179	1,723	2,378	56.9	6,041	4,049	1,876	67.0	(X)	(X)	(X)	(X)
NJ	(X)	(X)	(X)	(X)	2,988	1,600	1,350	53.6	1,888	972	916	51.5
PA	3,378	1,448	1,907	56.4	4,367	1,417	2,902	66.5	(X)	(X)	(X)	(X)
<b>E. No. Cent.:</b>												
OH	3,121	1,949	1,172	62.5	4,353	2,480	1,873	57.0	(X)	(X)	(X)	(X)
IN	1,546	595	936	60.6	2,099	669	1,431	68.1	3,479	3,685	3,794	353.7
IL	3,123	2,034	1,054	65.1	(X)	(X)	(X)	(X)	3,196	2,075	1,120	64.9
MI	(X)	(X)	(X)	(X)	3,506	2,117	1,348	60.4	2,486	1,450	1,036	58.3
WI	1,483	703	755	50.9	2,168	1,129	1,030	52.1	(X)	(X)	(X)	(X)
<b>W. No. Cent.:</b>												
MN	(X)	(X)	(X)	(X)	2,094	857	1,178	56.2	1,618	833	785	51.5
IA	892	299	588	66.0	(X)	(X)	(X)	(X)	872	525	447	54.0
MO	1,477	700	778	52.6	2,079	660	1,407	67.7	(X)	(X)	(X)	(X)
ND	289	144	142	49.8	289	172	113	59.4	(X)	(X)	(X)	(X)
SD	296	153	143	51.6	(X)	(X)	(X)	(X)	258	116	135	52.4
NE	(X)	(X)	(X)	(X)	668	379	278	56.7	580	343	237	59.1
KS	824	247	577	70.0	(X)	(X)	(X)	(X)	781	206	575	73.6
<b>So. Atl.:</b>												
DE	(X)	(X)	(X)	(X)	243	92	151	62.1	177	112	65	63.4
MD	1,113	675	437	60.7	1,617	999	618	61.8	(X)	(X)	(X)	(X)
VA	(X)	(X)	(X)	(X)	2,069	1,474	594	71.2	1,069	-	873	81.6
WV	(X)	(X)	(X)	(X)	635	411	224	64.8	401	275	126	68.5
NC	1,591	824	768	51.8	(X)	(X)	(X)	(X)	2,039	969	1,070	52.5
SC	738	466	263	63.1	(X)	(X)	(X)	(X)	717	242	475	66.3
GA	1,225	624	601	50.9	(X)	(X)	(X)	(X)	(NA)	(X)	(X)	(X)
FL	3,430	1,878	1,552	54.7	4,068	2,017	2,051	50.4	(X)	(X)	(X)	(X)
<b>E. So. Cent.:</b>												
KY	677	504	173	74.4	(X)	(X)	(X)	(X)	913	436	477	52.2
TN	(X)	(X)	(X)	(X)	1,567	1,020	541	65.1	757	527	230	69.6
AL	1,212	609	603	50.3	(X)	(X)	(X)	(X)	1,157	702	455	60.7
MS	(X)	(X)	(X)	(X)	947	436	510	53.9	(NA)	(X)	(X)	(X)
<b>W. So. Cent.:</b>												
AR	695	433	262	62.3	(X)	(X)	(X)	(X)	(NA)	(X)	(X)	(X)
LA	1,370	724	646	52.8	(X)	(X)	(X)	(X)	(X)	734	148	83.2
OK	894	400	493	55.2	(X)	(X)	(X)	(X)	882	734	148	83.2
TX	(X)	(X)	(X)	(X)	5,323	3,150	2,129	59.2	3,718	1,425	2,293	61.7
<b>Mt.:</b>												
MT	(X)	(X)	(X)	(X)	365	176	189	51.9	311	217	94	69.8
ID	382	185	197	51.6	(X)	(X)	(X)	(X)	291	113	179	61.3
WY	(X)	(X)	(X)	(X)	181	90	91	50.4	157	57	101	64.0
CO	1,061	529	513	49.9	(X)	(X)	(X)	(X)	994	426	568	57.2
NM	(X)	(X)	(X)	(X)	509	322	187	63.3	404	109	294	72.9
AZ	863	341	522	60.5	1,165	660	478	56.7	(X)	(X)	(X)	(X)
UT	435	116	315	72.3	641	203	430	67.1	(X)	(X)	(X)	(X)
NV	262	131	117	50.0	350	176	161	50.2	(X)	(X)	(X)	(X)
<b>Pac.:</b>												
WA	1,337	677	651	50.7	1,849	904	944	51.1	(X)	(X)	(X)	(X)
OR	1,043	376	656	63.0	(X)	(X)	(X)	(X)	1,004	463	541	53.6
CA	7,399	3,647	3,542	49.3	9,744	4,287	5,143	52.8	(X)	(X)	(X)	(X)
AK	181	80	98	54.0	(X)	(X)	(X)	(X)	158	52	106	67.2
HI	329	242	87	73.6	324	248	67	76.6	7350	7189	7156	754.0

- Represents zero. NA Not available. X Not applicable. <sup>1</sup> Includes vote cast for minor parties. <sup>2</sup> Nearly complete unofficial returns compiled by source. Source: Congressional Quarterly, Inc., *Congressional Quarterly Weekly Report*, vol. 48, No. 45, November 10, 1990. (Copyright). <sup>3</sup> Special election to fill the unexpired term of Vice-President Quayle. <sup>4</sup> The winning Democratic candidate was unopposed. <sup>5</sup> The winning Republican candidate was unopposed. <sup>6</sup> Louisiana holds an open-primary election with candidates from all parties running on the same ballot. Any candidate who receives a majority is elected; if no candidate receives 50 percent, there is a run-off election in November between the top two finishers. <sup>7</sup> Special election to fill the unexpired term of Senator Matsunaga.

Source: Except as noted, Elections Research Center, Washington, DC, *America Votes*, biennial. (Copyright.)

### No. 433. Vote Cast for United States Representatives, by Major Political Party—States: 1984 to 1988

[In thousands, except percent. In each State, totals represent the sum of votes cast in each Congressional District or votes cast for Representative at Large in States where only one member is elected. In all years there are numerous districts within the State where either the Republican or Democratic party had no candidate. In some States the Republican and Democratic vote includes votes cast for the party candidate by endorsing parties. See also *Historical Statistics, Colonial Times to 1970*, series Y 211-214]

REGION, DIVISION, AND STATE	1984				1986				1988			
	Total <sup>1</sup>	Democrat	Republican	Per cent for leading party	Total <sup>1</sup>	Democrat	Republican	Per cent for leading party	Total <sup>1</sup>	Democrat	Republican	Per cent for leading party
<b>United States<sup>2</sup></b>	<b>83,231</b>	<b>43,539</b>	<b>38,956</b>	<b>D-52.3</b>	<b>59,619</b>	<b>32,540</b>	<b>26,532</b>	<b>D-54.6</b>	<b>81,788</b>	<b>43,662</b>	<b>37,175</b>	<b>D-53.4</b>
<b>Northeast</b>	<b>19,179</b>	<b>10,116</b>	<b>8,916</b>	<b>D-52.8</b>	<b>12,405</b>	<b>6,820</b>	<b>5,363</b>	<b>D-55.0</b>	<b>17,806</b>	<b>9,490</b>	<b>7,989</b>	<b>D-53.3</b>
N.E.	5,309	2,622	2,435	D-53.2	3,641	2,122	1,433	D-58.3	5,327	3,086	2,066	D-57.4
ME	542	162	375	R-69.2	422	165	249	R-59.1	555	276	278	R-50.2
NH	373	119	251	R-67.2	241	84	156	R-64.9	429	178	252	R-58.6
VT	226	60	148	R-65.4	189	-	168	R-89.1	240	45	99	R-41.2
MA	2,346	1,618	704	D-69.0	1,503	1,198	250	D-79.7	2,371	1,787	509	R-75.4
RI	390	195	315	R-50.0	306	130	176	R-57.8	391	140	251	R-64.1
CT	1,432	668	762	R-53.2	980	545	434	D-55.6	1,341	660	677	R-50.5
<b>M.A.</b>	<b>13,670</b>	<b>7,294</b>	<b>6,481</b>	<b>D-52.6</b>	<b>8,764</b>	<b>4,698</b>	<b>3,930</b>	<b>D-53.6</b>	<b>12,479</b>	<b>6,403</b>	<b>5,923</b>	<b>D-53.3</b>
NY	6,218	3,255	2,898	D-52.4	3,904	2,132	1,665	D-54.6	5,506	2,950	2,441	D-53.6
NJ	2,992	1,508	1,471	D-50.4	1,554	803	739	D-51.7	2,776	1,336	1,412	R-50.9
PA	4,660	2,531	2,112	D-54.3	3,306	1,763	1,526	D-53.3	4,197	2,117	2,070	D-50.4
<b>Midwest</b>	<b>24,171</b>	<b>12,230</b>	<b>11,813</b>	<b>D-50.6</b>	<b>16,981</b>	<b>8,954</b>	<b>7,968</b>	<b>D-52.7</b>	<b>23,639</b>	<b>12,270</b>	<b>11,205</b>	<b>D-52.1</b>
<b>E.N.C.</b>	<b>16,616</b>	<b>8,417</b>	<b>8,110</b>	<b>D-50.7</b>	<b>11,350</b>	<b>5,969</b>	<b>5,331</b>	<b>D-52.6</b>	<b>16,111</b>	<b>8,360</b>	<b>7,715</b>	<b>D-51.9</b>
OH	4,332	2,134	2,159	R-49.8	3,067	1,512	1,536	R-50.1	4,155	2,087	2,068	D-50.2
IN	2,180	1,022	1,147	R-52.6	1,556	788	756	D-50.7	2,120	1,097	1,023	D-51.7
IL	4,579	2,367	2,204	D-51.7	3,017	1,623	1,393	D-53.8	4,344	2,317	2,023	D-53.3
MI	3,452	1,861	1,567	D-53.9	2,327	1,342	977	D-57.7	3,456	1,824	1,605	D-52.8
WI	2,075	1,033	1,033	D-49.8	1,383	704	669	D-50.9	2,035	1,035	997	D-50.9
<b>W.N.C.</b>	<b>7,553</b>	<b>3,813</b>	<b>3,703</b>	<b>D-50.5</b>	<b>5,631</b>	<b>2,985</b>	<b>2,637</b>	<b>D-53.0</b>	<b>7,429</b>	<b>3,910</b>	<b>3,490</b>	<b>D-52.6</b>
MN	1,975	1,061	902	D-53.7	1,393	832	558	D-59.7	1,969	1,149	810	D-58.3
IA	1,269	595	673	R-53.1	890	428	461	R-51.9	1,189	580	607	R-51.0
MO	2,040	1,130	903	D-55.4	1,430	828	600	D-57.9	2,070	1,148	910	D-55.5
ND	309	243	66	D-78.7	286	216	67	D-75.5	300	213	84	D-70.9
SD	316	181	135	D-57.4	290	171	118	D-59.2	312	224	88	D-71.7
NE	650	168	482	R-74.2	555	197	358	R-64.5	656	230	426	R-64.9
KS	994	435	542	R-54.5	787	313	475	R-60.3	932	367	565	R-60.6
<b>South<sup>2</sup></b>	<b>22,904</b>	<b>13,226</b>	<b>9,526</b>	<b>D-57.7</b>	<b>16,451</b>	<b>9,819</b>	<b>6,519</b>	<b>D-59.7</b>	<b>22,979</b>	<b>12,951</b>	<b>9,826</b>	<b>D-56.4</b>
<b>S.A.<sup>2</sup></b>	<b>11,486</b>	<b>6,414</b>	<b>5,003</b>	<b>D-55.8</b>	<b>8,284</b>	<b>4,991</b>	<b>3,249</b>	<b>D-60.2</b>	<b>12,121</b>	<b>6,660</b>	<b>5,420</b>	<b>D-54.9</b>
DE	243	142	101	D-58.5	161	106	54	D-66.2	235	158	76	D-67.5
MD	1,495	955	536	D-63.9	1,063	669	394	D-62.9	1,581	937	624	D-60.0
DC	162	155	-	D-95.6	127	102	18	D-80.1	171	122	23	D-71.3
VA	1,838	795	1,003	R-54.6	1,043	545	467	D-52.2	1,891	802	1,077	R-57.0
WV	704	429	275	D-60.9	398	299	97	D-75.5	569	437	132	D-76.8
NC	2,158	1,131	1,026	D-52.4	1,573	890	682	D-56.6	1,985	1,108	876	D-55.8
SC	928	471	441	D-50.7	717	453	261	D-63.2	991	550	439	D-55.4
GA	1,521	1,091	430	D-71.7	1,062	773	289	D-72.8	1,672	1,115	557	D-66.7
FL <sup>6,7</sup>	2,437	1,245	1,191	D-51.1	2,142	1,154	987	D-53.9	3,047	1,431	1,616	R-53.0
<b>E.S.C.</b>	<b>4,522</b>	<b>2,728</b>	<b>1,753</b>	<b>D-60.3</b>	<b>3,375</b>	<b>2,006</b>	<b>1,348</b>	<b>D-59.4</b>	<b>4,611</b>	<b>2,707</b>	<b>1,841</b>	<b>D-58.7</b>
KY	1,188	657	529	D-55.3	630	375	253	D-59.5	1,105	534	564	R-51.1
TN	1,316	726	589	D-55.2	1,105	636	449	D-57.6	1,409	844	536	D-59.9
AL	1,149	822	308	D-71.5	1,116	679	436	D-60.8	1,178	722	432	D-61.3
MS	869	523	327	D-60.2	524	316	208	D-60.3	918	607	308	D-66.1
<b>W.S.C.<sup>6,8</sup></b>	<b>6,896</b>	<b>4,084</b>	<b>2,770</b>	<b>D-59.2</b>	<b>4,792</b>	<b>2,822</b>	<b>1,924</b>	<b>D-58.9</b>	<b>6,248</b>	<b>3,583</b>	<b>2,565</b>	<b>D-57.3</b>
AR	463	341	91	D-73.7	666	387	268	D-58.1	606	353	253	D-58.3
LA <sup>9</sup>	642	402	239	D-62.7	391	288	102	D-73.8	205	89	116	R-56.8
OK <sup>6,10</sup>	1,111	646	458	D-58.1	725	430	291	D-59.4	767	406	362	D-52.9
TX	4,680	2,695	1,982	D-57.6	3,010	1,717	1,263	D-57.0	4,670	2,736	1,834	D-58.6
<b>West</b>	<b>16,978</b>	<b>7,964</b>	<b>8,703</b>	<b>R-51.3</b>	<b>13,786</b>	<b>6,949</b>	<b>6,680</b>	<b>D-50.4</b>	<b>17,461</b>	<b>8,952</b>	<b>8,165</b>	<b>D-51.3</b>
<b>Mt.</b>	<b>4,527</b>	<b>1,672</b>	<b>2,778</b>	<b>R-61.3</b>	<b>3,748</b>	<b>1,591</b>	<b>2,142</b>	<b>R-57.2</b>	<b>4,793</b>	<b>2,062</b>	<b>2,664</b>	<b>R-55.6</b>
MT	371	187	179	D-50.5	318	172	146	D-54.1	365	193	172	D-52.9
ID	405	185	240	R-59.3	376	163	208	R-55.4	407	198	203	R-49.9
WY	188	46	138	R-73.6	160	49	111	R-69.5	178	57	118	R-66.6
CO	1,248	436	780	R-62.5	1,018	450	566	R-55.6	1,315	645	667	R-50.7
NM	500	201	294	R-58.9	386	179	207	R-53.6	449	209	236	R-52.6
AZ	943	320	603	R-63.9	804	260	540	R-67.2	1,125	322	766	R-68.1
UT	601	208	387	R-64.5	429	197	230	R-53.6	609	260	341	R-56.0
NV	271	109	155	R-57.3	257	121	134	R-52.0	344	177	160	D-51.4
<b>Pac.</b>	<b>12,451</b>	<b>6,292</b>	<b>5,927</b>	<b>D-50.5</b>	<b>10,038</b>	<b>5,358</b>	<b>4,538</b>	<b>D-53.4</b>	<b>12,669</b>	<b>6,891</b>	<b>5,492</b>	<b>D-54.4</b>
WA	1,808	997	800	D-55.1	1,295	768	527	D-59.3	1,731	988	743	D-57.1
OR	1,203	655	548	D-54.4	1,032	585	446	D-56.7	1,024	665	358	D-64.9
CA	8,958	4,327	4,424	R-49.4	7,200	3,744	3,328	D-52.0	9,381	4,945	4,174	D-52.7
AK	206	86	114	R-55.0	180	74	102	R-56.5	193	72	121	R-62.5
HI	276	41	41	D-82.5	331	187	135	D-56.4	340	221	87	D-66.1

- Represents zero. <sup>1</sup> Includes vote cast for minor parties. <sup>2</sup> Includes vote cast for non-voting Delegate at Large in District of Columbia. <sup>3</sup> Total vote for Republican candidates was 195,077; for Democratic candidates, 194,942. <sup>4</sup> Includes votes cast by other endorsing parties for Democratic and Republican candidates. <sup>5</sup> Total vote for Democratic candidates was 1,033,033; for Republican candidates, 1,032,948. <sup>6</sup> State law does not require tabulation of votes for unopposed candidates. <sup>7</sup> In 1984 Districts 1, 2, 3, 5, 12, 13, and 17 were unopposed; in 1986 Districts 3, 4, 5, 7, 8, 15, and 17 were unopposed; in 1988 Districts 3, 5, 7, 12, 17, and 18 were unopposed. <sup>8</sup> In 1984 District 3 was unopposed; in 1988 District 1 was unopposed. <sup>9</sup> 1984 data are for September open primary because there were no general election runoffs. 1986 data are for general election runoffs in two districts. 1988 open primary totals-total, 755,680; Democratic, 599,291; Republican, 148,007. 1988 data are for a general election runoff in one district. 1988 open primary totals-total, 550,370; Democratic 337,724; Republican, 212,646. <sup>10</sup> In 1986 District 6 was unopposed; in 1988 Districts 3 and 4 were unopposed.

### No. 434. Vote Cast for United States Representatives by Major Political Party— Congressional Districts: 1990

[Nearly complete, unofficial vote returns as compiled by source. In some States the Democratic and Republican vote includes votes cast for the party candidate by endorsing parties]

STATE AND DIS- TRICT	Total vote cast (1,000)	DEMOCRATIC CANDIDATE		REPUBLICAN CANDIDATE		STATE AND DIS- TRICT	Total vote cast (1,000)	DEMOCRATIC CANDIDATE		REPUBLICAN CANDIDATE	
		Name	Per- cent of total	Name	Per- cent of total			Name	Per- cent of total	Name	Per- cent of total
<b>AL</b> .....	(NA)	(X)	(X)	(X)	(X)	<b>CO</b> .....	<b>992</b>	(X)	(X)	(X)	(X)
1st .....	(NA)	(X)	(X)	(X)	(NA)	1st .....	129	Schroeder	64	Roemer	36
2d .....	170	Baggiano	49	Callahan	51	2d .....	173	Skaggs	61	Lewis	39
3d .....	135	Browder	74	Sledge	26	3d .....	177	Campbell	72	Ellis	28
4th .....	(NA)	Bevill	(NA)	(X)	(X)	4th .....	165	Bond	46	Allard	54
5th .....	167	Cramer	67	McDonald	33	5th .....	186	Johnston	31	Hefley	89
6th .....	141	Erdreich	93	(X)	(X)	6th .....	163	Jarrett	35	Schaefer	65
7th .....	166	Harris	71	Barker	29	<b>CT</b> .....	<b>1,022</b>	(X)	(X)	(X)	(X)
<b>AK</b> .....	141	Devens	49	Young	51	1st .....	175	Kennelly	71	Garvey	29
<b>AZ</b> .....	(NA)	(X)	(X)	(X)	(X)	2d .....	174	Gelden- son	80	Ragsdale	40
1st .....	(NA)	(X)	(X)	(X)	(NA)	3d .....	168	DeLauro	53	Scott	47
2d .....	114	Udall	66	Sweeney	34	4th .....	139	Smith	24	Shays	76
3d .....	233	Hartstone	43	Stump	57	5th .....	177	Moffett	47	Franks	52
4th .....	227	Ivey	39	Kyl	61	6th .....	187	Kulas	26	Johnson	74
5th .....	214	Phillips	35	Kolbe	65	<b>DE</b> .....	174	Carper	67	Williams	33
<b>AR</b> .....	634	(X)	(X)	(X)	(X)	<b>FL</b> .....	(NA)	(X)	(X)	(X)	(X)
1st .....	141	Alexander	64	Hayes	36	1st .....	161	Hutto	52	Ketchel	48
2d .....	169	Thornton	60	Keet	40	2d .....	178	Peterson	57	Grant	43
3d .....	181	Ivory	29	Hammer- schmidt	71	3d .....	111	Bennett	73	Sullivan	27
4th .....	143	Anthony	72	Rood	28	4th .....	160	Hughes	44	James	56
<b>CA</b> .....	(NA)	(X)	(X)	(X)	(X)	5th .....	157	Fletcher	40	McCollum	60
1st .....	213	Bosco	42	Riggs	43	6th .....	231	Johnson	41	Stearns	59
2d .....	202	Rush	31	Herger	64	7th .....	142	Gibbons	68	Prout	32
3d .....	203	Matsui	60	Landowski	35	8th .....	(NA)	(X)	(X)	Young	(NA)
4th .....	197	Fazio	55	Baughman	39	9th .....	243	Knapp	42	Billakis	58
5th .....	145	Pelosi	78	Nichols	22	10th .....	(NA)	(X)	(X)	Ireland	(NA)
6th .....	188	Boxer	68	Boerum	32	11th .....	233	Bacchus	52	Tolley	48
7th .....	188	Miller	61	Payton	39	12th .....	(NA)	(X)	(X)	Lewis	(NA)
8th .....	180	Dellums	62	Galewski	38	13th .....	(NA)	(X)	(X)	Goss	(NA)
9th .....	152	Stark	59	Romero	41	14th .....	236	Johnston	66	Shore	34
10th .....	122	Edwards	63	Patross	37	15th .....	(NA)	(X)	(X)	Shaw	(NA)
11th .....	142	Lantos	68	Quarishi	28	16th .....	(NA)	(X)	(X)	Lehman	(X)
12th .....	189	Palmer	34	Campbell	35	17th .....	95	Lehman	78	Rodney	22
13th .....	158	Mineta	58	Smith	51	18th .....	90	Anscher	38	Ros- Lahtinen	62
14th .....	218	Mailberg	49	Doolittle	34	19th .....	141	Fascell	62	Allen	38
15th .....	126	Condit	68	Burris	22	<b>GA</b> .....	<b>1,372</b>	(X)	(X)	(X)	(X)
16th .....	165	Panetta	74	Reiss	45	1st .....	113	Thomas	71	Moredith	29
17th .....	140	Dooley	55	Pashayan	45	2d .....	101	Hatcher	73	Waters	27
18th .....	(NA)	Lehman	(NA)	(X)	(X)	3d .....	112	Ray	63	Brown	37
19th .....	139	Ferguson	46	Lagomar- sino	54	4th .....	178	Jones	53	Linder	47
20th .....	168	M.Thomas	35	B.Thomas	59	5th .....	114	Lewis	76	Tibbs	24
21st .....	186	Freiman	34	Galleghy	58	6th .....	156	Worley	50	Gingrich	50
22d .....	164	Bayer	35	Moorhead	59	7th .....	159	Darden	60	Beverly	40
23d .....	152	Beilenson	62	Salomon	34	8th .....	117	Rowland	69	Cunning- ham	31
24th .....	95	Waxman	69	Cowles	25	9th .....	169	Jenkins	56	Hoffman	44
25th .....	83	Roybal	71	Renshaw	24	10th .....	152	Barnard	58	Jones	42
26th .....	118	Berman	61	Dahlson	35	<b>HI</b> .....	<b>333</b>	(X)	(X)	(X)	(X)
27th .....	144	Levine	59	Cohen	37	1st .....	161	Aber- crombie	61	Liu	39
28th .....	89	Dixon	73	Adams	22	2d .....	173	Mink	68	Poepoe	32
29th .....	61	Waters	80	DeWitt	18	<b>ID</b> .....	<b>290</b>	(X)	(X)	(X)	(X)
30th .....	72	Martinez	59	Franco	37	1st .....	145	LaRocco	53	Smyser	47
31st .....	79	Dymally	68	Sato	32	2d .....	145	Stallings	63	McDevitt	37
32d .....	103	Anderson	62	Kahn	38	<b>IL</b> .....	<b>2,795</b>	(X)	(X)	(X)	(X)
33d .....	147	Webb	32	Dreier	63	1st .....	100	Hayes	94	Peyton	6
34th .....	85	Torres	61	Eastman	39	2d .....	96	Savage	78	Hespel	22
35th .....	194	Norton	33	Lewis	60	3d .....	150	Russo	71	Klein	29
36th .....	130	Brown	53	Hammock	47	4th .....	130	Sangmeis- ter	59	Hoffman	41
37th .....	211	Walte	45	McCand- less	49	5th .....	104	Lipinski	68	Shestokas	32
38th .....	85	Jackson	42	Dornan	58	6th .....	144	Cassidy	33	Hyde	67
39th .....	144	Hoffman	31	Danne- meyer	65	7th .....	97	Collins	80	Dooley	20
40th .....	167	Gratz	33	Cox	67	8th .....	85	Rosten- kowski	79	(X)	(X)
41st .....	193	Kripke	44	Lowery	48	9th .....	129	Yates	71	Sohn	29
42d .....	162	Kim- brough	37	bacher	59	10th .....	151	McNamara	31	Porter	69
43d .....	193	(X)	(X)	Packard	68	11th .....	145	Annunzio	54	Dudycz	46
44th .....	100	Bates	45	Cunning- ham	46	12th .....	136	(X)	(X)	Crane	82
45th .....	153	(X)	(X)	Hunter	73	13th .....	175	Thomas	34	Fawell	66

See footnotes at end of table.

**No. 434. Vote Cast for United States Representatives, by Major Political Party—  
Congressional Districts: 1990—Continued**

[See headnote, p. 256]

STATE AND DIS- TRICT	Total vote cast (1,000)	DEMOCRATIC CANDIDATE		REPUBLICAN CANDIDATE		STATE AND DIS- TRICT	Total vote cast (1,000)	DEMOCRATIC CANDIDATE		REPUBLICAN CANDIDATE	
		Name	Per- cent of total	Name	Per- cent of total			Name	Per- cent of total	Name	Per- cent of total
<b>IL-Con.</b>						5th.	201	Atkins . . .	52	MacGovern	48
14th.	168	Westphal . .	33	Hastert . . .	67	6th.	210	Mavroules . .	66	Kelley . . .	34
15th.	(NA)	( <sup>1</sup> )	( <sup>1</sup> )	Madigan . .	(NA)	7th.	(NA)	Markay . . .	(NA)	( <sup>1</sup> )	( <sup>1</sup> )
16th.	152	Cox . . . . .	55	Hallock . . .	45	8th.	126	Kennedy . . .	75	Fiscus . . .	25
17th.	153	Evans . . . .	67	Lee . . . . .	33	9th.	(NA)	Moakley . . .	71	( <sup>1</sup> )	( <sup>1</sup> )
18th.	(NA)	( <sup>1</sup> )	( <sup>1</sup> )	Michel . . .	(NA)	10th.	212	Studds . . .	52	Bryan . . .	48
19th.	172	Bruce . . . .	66	Kerans . . .	32	11th.	(NA)	Donnelly . . .	(NA)	( <sup>1</sup> )	( <sup>1</sup> )
20th.	196	Durbin . . .	66	Jurgens . . .	34	<b>MI.</b>	(NA)	(X)	(X)	(X)	(X)
21st.	144	Costello . .	66	Gaffner . . .	34	1st.	84	Conyers . . .	91	Shoulders .	9
22d.	165	Poshard . . .	84	( <sup>1</sup> )	( <sup>1</sup> )	2d.	120	White . . . .	36	Pursell . . .	64
<b>IN.</b>	1,502	(X)	(X)	(X)	(X)	3d.	142	Wolpe . . . .	58	Haskins . . .	42
1st.	104	Visclosky . .	66	Costas . . .	34	4th.	131	McFarland . .	42	Upton . . .	58
2d.	156	Sharp . . . .	59	Pence . . . .	41	5th.	167	Trzynski . . .	25	Henry . . .	75
3d.	158	Roemer . . .	51	Hiler . . . .	49	6th.	(NA)	Carr . . . . .	(NA)	( <sup>1</sup> )	( <sup>1</sup> )
4th.	161	Long . . . .	61	Hawks . . .	39	7th.	132	Kildee . . .	68	Morrill . . .	32
5th.	153	Jontz . . . .	53	Johnson . .	47	8th.	143	Traxler . . .	68	White . . .	32
6th.	181	Fadely . . .	37	Burton . . .	63	9th.	163	Greene . . .	45	Vander . . .	
7th.	154	Riley . . . .	42	Myers . . .	58					Jagt . . . .	55
8th.	179	McCloskey .	55	Mourdock . .	45	10th.	151	Dennison . .	34	Camp . . .	66
9th.	156	Hamilton . .	69	Coates . . .	31	11th.	154	Gould . . . .	39	Davis . . .	61
10th.	100	Jacobs . . .	66	Horvath . . .	34	12th.	149	Bonior . . .	66	Dingeman .	34
<b>IA.</b>	(NA)	(X)	(X)	(X)	(X)	13th.	61	Collins . . .	88	Edwards . .	12
1st.	(NA)	( <sup>1</sup> )	( <sup>1</sup> )	Leach . . .	(NA)	14th.	109	Hertel . . .	66	McNealy . .	34
2d.	163	Tabor . . . .	50	Nussle . . .	50	15th.	89	Ford . . . . .	63	Adkins . . .	37
3d.	(NA)	Nagle . . . .	(NA)	( <sup>1</sup> )	( <sup>1</sup> )	16th.	131	Dingell . . .	67	Beaumont .	33
4th.	(NA)	Smith . . . .	(NA)	( <sup>1</sup> )	( <sup>1</sup> )	17th.	113	Levin . . . .	68	Lankford .	32
5th.	148	Powell . . .	33	Lightfoot . .	67	18th.	191	Briggs . . .	34	Broomfield .	66
6th.	156	Earl . . . .	28	Grandy . . .	72	<b>MN.</b>	1,581	(X)	(X)	(X)	(X)
<b>KS.</b>	779	(X)	(X)	(X)	(X)	1st.	168	Penny . . . .	78	Andersen . .	22
1st.	163	West . . . .	38	Roberts . . .	62	2d.	193	Stone . . . .	38	Weber . . .	62
2d.	158	Slaterry . .	63	Morgan . . .	37	3d.	250	DeMars . . .	34	Ramstad . .	66
3d.	148	Jones . . . .	40	Meyers . . .	60	4th.	219	Vento . . . .	65	Miltland . .	35
4th.	158	Glickman . .	71	Grund . . .	29	5th.	189	Sabo . . . .	73	Gilbertson .	27
5th.	153	Wingert . .	41	Nichols . . .	59	6th.	237	Sikorski . . .	64	Anderson . .	36
<b>KY.</b>	(NA)	(X)	(X)	(X)	(X)	7th.	177	Peterson . . .	54	Stange- land . . .	46
1st.	(NA)	Hubbard . .	87	( <sup>1</sup> )	( <sup>1</sup> )						
2d.	115	Natcher . . .	66	Tori . . . .	34	8th.	148	Oberstar . .	71	Shuster . . .	29
3d.	139	Mazzoli . . .	61	Brown . . .	39	<b>MS.</b>	(NA)	(X)	(X)	(X)	(X)
4th.	146	Martin . . .	31	Bunning . . .	69	1st.	67	Whitten . . .	65	Bowlin . . .	35
5th.	(NA)	( <sup>1</sup> )	( <sup>1</sup> )	Rogers . . .	(NA)	2d.	69	Espy . . . .	84	Benford . .	16
6th.	(NA)	( <sup>1</sup> )	( <sup>1</sup> )	Hopkins . . .	(NA)	3d.	(NA)	Montgom- ery . . . .	(NA)	( <sup>1</sup> )	( <sup>1</sup> )
7th.	120	Perkins . . .	51	Scott . . . .	49						
<b>LA.</b>	(NA)	(X)	(X)	(X)	(X)	4th.	71	Parker . . . .	81	Parks . . .	19
1st.	(X)	(X)	(X)	Living- ston . . .	(X)	5th.	110	Taylor . . . .	81	Smith . . .	19
					(X)	<b>MO.</b>	1,351	(X)	(X)	(X)	(X)
2d.	(X)	Jefferson . .	52	(X)	(X)	1st.	103	Clay . . . .	61	Piotrowski .	39
3d.	(X)	Tauzin . . .	(X)	(X)	(X)	2d.	189	Horn . . . .	50	Buechner . .	50
4th.	(X)	(X)	(X)	McCrery . .	(X)	3d.	157	Gephardt . .	57	Holekamp . .	43
5th.	(X)	Huckaby . .	(X)	(X)	(X)	4th.	171	Skelton . . .	62	Eyerly . . .	38
6th.	(X)	(X)	(X)	Baker . . .	(X)	5th.	116	Wheat . . .	62	Gardner . .	38
7th.	(X)	Hayes . . .	(X)	(X)	(X)	6th.	152	McClure . . .	48	Coleman . .	52
8th.	(X)	(X)	(X)	Holloway . .	(X)	7th.	160	Deaton . . .	48	Hancock . .	52
<b>ME.</b>	494	(X)	(X)	(X)	(X)	8th.	141	Carnahan . .	43	Emerson . .	57
1st.	264	Andrews . .	61	Emery . . .	39	9th.	163	Volkmer . . .	58	Curtis . . .	42
2d.	230	McGowan . .	49	Snowe . . .	51	<b>MT.</b>	317	(X)	(X)	(X)	(X)
<b>MD.</b>	1,052	(X)	(X)	(X)	(X)	1st.	164	Williams . . .	61	Johnson . .	39
1st.	151	Dyson . . .	43	Gilchrest . .	57	2d.	153	Burris . . .	37	Marlenee . .	63
2d.	151	Bowers . . .	26	Bentley . . .	74	<b>NE.</b>	573	(X)	(X)	(X)	(X)
3d.	115	Cardin . . .	70	Nichols . . .	30	1st.	197	Hall . . . .	35	Bereuter . .	65
4th.	142	McMillen . .	59	Duckworth .	41	2d.	189	Hoagland . .	58	Milder . . .	42
5th.	103	Hoyer . . .	81	Breuer . . .	19	3d.	187	Scotfield . .	49	Barrett . . .	51
6th.	158	Byron . . .	65	Fiores . . .	35	<b>NV.</b>	294	(X)	(X)	(X)	(X)
7th.	68	Mfume . . .	85	Kondner . .	15	1st.	132	Bilbray . . .	64	Dickinson .	36
8th.	164	Walker . . .	23	Morella . . .	77	2d.	162	Wisdom . . .	37	Vucano- vich . . .	63
<b>MA.</b>	(NA)	(X)	(X)	(X)	(X)						
1st.	166	Arden . . . .	22	Conte . . .	78	<b>NH.</b>	288	(X)	(X)	(X)	(X)
2d.	(NA)	Neal . . . .	(NA)	( <sup>1</sup> )	( <sup>1</sup> )	1st.	145	Keefe . . . .	45	Zeliff . . .	55
3d.	(NA)	Early . . . .	(NA)	( <sup>1</sup> )	( <sup>1</sup> )	2d.	143	Swett . . . .	53	Douglas . .	47
4th.	208	Frank . . . .	66	Soto . . . .	34						

See footnotes at end of table.

# No. 434. Vote Cast for United States Representatives, by Major Political Party— Congressional Districts: 1990—Continued

[See headnote, p. 256]

STATE AND DIS- TRICT	Total vote cast (1,000)	DEMOCRATIC CANDIDATE		REPUBLICAN CANDIDATE		STATE AND DIS- TRICT	Total vote cast (1,000)	DEMOCRATIC CANDIDATE		REPUBLICAN CANDIDATE	
		Name	Per- cent of total	Name	Per- cent of total			Name	Per- cent of total	Name	Per- cent of total
<b>NJ</b> . . . .	<b>1,761</b>	(X)	(X)	(X)	(X)	<b>ND</b> . . . .	<b>227</b>	Dorgan . . . .	65	Schafer . . . .	35
1st . . . .	130	Andrews . . . .	56	Mangini . . . .	44	<b>OH</b> . . . .	(NA)	(X)	(X)	(X)	(X)
2d . . . .	111	Hughes . . . .	88	( )	( )	1st . . . .	163	Lukens . . . .	51	Blackwell . . . .	49
3d . . . .	152	Pallone . . . .	51	Kapalko . . . .	49	2d . . . .	160	Yates . . . .	36	Gradison . . . .	64
4th . . . .	155	Setaro . . . .	35	Smith . . . .	65	3d . . . .	(NA)	Hall . . . .	(NA)	( )	( )
5th . . . .	153	Olsen . . . .	23	Roukema . . . .	77	4th . . . .	166	Burkhart . . . .	38	Oxley . . . .	62
6th . . . .	118	Dwyer . . . .	52	Daniel- czyk . . . .	48	5th . . . .	156	Mange . . . .	27	Gillmor . . . .	73
7th . . . .	129	Bergen . . . .	24	Rinaldo . . . .	76	6th . . . .	163	Mitchell . . . .	29	McEwen . . . .	71
8th . . . .	73	Roe . . . .	77	( )	( )	7th . . . .	155	Schira . . . .	38	Hobson . . . .	62
9th . . . .	142	Toricelli . . . .	58	Russo . . . .	42	8th . . . .	162	Jolivet . . . .	39	Boehner . . . .	61
10th . . . .	51	Payne . . . .	83	Berkeley . . . .	17	9th . . . .	150	Kaptur . . . .	78	Lammers . . . .	22
11th . . . .	139	Gordon . . . .	34	Gallo . . . .	66	10th . . . .	166	Buchanan . . . .	37	Miller . . . .	63
12th . . . .	160	Chandler . . . .	33	Zimmer . . . .	67	11th . . . .	169	Eckart . . . .	66	Mueller . . . .	34
13th . . . .	167	Adler . . . .	40	Saxton . . . .	60	12th . . . .	180	Gelpi . . . .	28	Kasich . . . .	72
14th . . . .	81	Guarini . . . .	69	Theemling . . . .	31	13th . . . .	153	Pease . . . .	60	Nielsen . . . .	40
<b>NM</b> . . . .	(NA)	(X)	(X)	(X)	(X)	14th . . . .	163	Sawyer . . . .	60	Bender . . . .	40
1st . . . .	139	Vigil-Giron . . . .	30	Schiff . . . .	70	15th . . . .	166	Erney . . . .	41	Wylie . . . .	59
2d . . . .	(NA)	( )	( )	Skeen . . . .	(NA)	16th . . . .	171	Menden- hall . . . .	41	Regula . . . .	59
3d . . . .	137	Richardson . . . .	74	Archu- letta . . . .	26	17th . . . .	170	Traffant . . . .	78	DeJulio . . . .	22
<b>NY</b> . . . .	(NA)	(X)	(X)	(X)	(X)	18th . . . .	161	Applegate . . . .	74	Hales . . . .	26
1st . . . .	131	Hoch- bruck- ner . . . .	56	Creighton . . . .	35	19th . . . .	204	Feighan . . . .	65	Lawko . . . .	35
2d . . . .	100	Downey . . . .	55	Bugler . . . .	37	20th . . . .	148	Oaker . . . .	73	Smith . . . .	27
3d . . . .	135	Mrazek . . . .	53	Prevodi . . . .	43	21st . . . .	128	Stokes . . . .	80	Roski . . . .	20
4th . . . .	129	Goban . . . .	32	Lent . . . .	61	<b>OK</b> . . . .	<b>854</b>	(X)	(X)	(X)	(X)
5th . . . .	132	Epstein . . . .	41	McGrath . . . .	55	1st . . . .	135	Glassco . . . .	44	Inhofe . . . .	56
6th . . . .	61	Flake . . . .	72	Sampol . . . .	23	2d . . . .	147	Synar . . . .	81	Gorham . . . .	39
7th . . . .	(NA)	Ackerman . . . .	(NA)	( )	( )	3d . . . .	134	Brewster . . . .	80	Miller . . . .	20
8th . . . .	76	Scheuer . . . .	72	Reifen- kugel . . . .	28	4th . . . .	136	McCurdy . . . .	74	Bell . . . .	26
9th . . . .	54	Manton . . . .	65	Darby . . . .	24	5th . . . .	165	Baggett . . . .	30	Edwards . . . .	70
10th . . . .	74	Schumer . . . .	80	Kinsella . . . .	20	6th . . . .	138	English . . . .	80	Burns . . . .	20
11th . . . .	38	Towns . . . .	93	( )	( )	<b>OR</b> . . . .	<b>961</b>	(X)	(X)	(X)	(X)
12th . . . .	42	Owens . . . .	95	( )	( )	1st . . . .	212	AuCoin . . . .	64	Molander . . . .	30
13th . . . .	59	Solarz . . . .	80	Ramos . . . .	20	2d . . . .	182	Smiley . . . .	32	Smith . . . .	68
14th . . . .	95	Pocchia . . . .	35	Molinari . . . .	60	3d . . . .	191	Wyden . . . .	81	Mooney . . . .	19
15th . . . .	87	Reiter . . . .	37	Green . . . .	58	4th . . . .	176	DeFazio . . . .	86	( )	( )
16th . . . .	55	Rangel . . . .	97	( )	( )	5th . . . .	200	Kopetski . . . .	55	Smith . . . .	45
17th . . . .	95	Weiss . . . .	80	Koeppel . . . .	15	<b>PA</b> . . . .	(NA)	(X)	(X)	(X)	(X)
18th . . . .	40	Serrano . . . .	93	Chiavaro . . . .	3	1st . . . .	88	Foglietta . . . .	79	Jackson . . . .	21
19th . . . .	72	Engel . . . .	61	Gouldman . . . .	23	2d . . . .	99	Gray . . . .	92	Bakove . . . .	8
20th . . . .	119	Lowey . . . .	62	Bellito . . . .	28	3d . . . .	142	Borski . . . .	59	McColgan . . . .	41
21st . . . .	126	Barbuto . . . .	24	Fish . . . .	71	4th . . . .	132	Kolter . . . .	56	Johnston . . . .	44
22d . . . .	134	Dow . . . .	27	Gilman . . . .	68	5th . . . .	131	Stretton . . . .	38	Schulze . . . .	57
23d . . . .	179	McNulty . . . .	64	Buhrmaster . . . .	36	6th . . . .	128	Yatron . . . .	57	Hicks . . . .	43
24th . . . .	174	Lawrence . . . .	32	Solomon . . . .	68	7th . . . .	162	Innelli . . . .	35	Weldon . . . .	65
25th . . . .	100	( )	( )	Boehlert . . . .	84	8th . . . .	150	Kostmayer . . . .	57	Schaller . . . .	43
26th . . . .	(NA)	( )	( )	Martin . . . .	(NA)	9th . . . .	(NA)	( )	( )	Shuster . . . .	(NA)
27th . . . .	150	Murray . . . .	35	Walsh . . . .	63	10th . . . .	(NA)	( )	( )	McDade . . . .	(NA)
28th . . . .	136	McHugh . . . .	65	Krieger . . . .	35	11th . . . .	(NA)	Kanjorski . . . .	(NA)	( )	( )
29th . . . .	137	Eber . . . .	25	Horton . . . .	63	12th . . . .	130	Murtha . . . .	62	Choby . . . .	38
30th . . . .	161	Slaughter . . . .	59	Regan . . . .	41	13th . . . .	146	Tomkin . . . .	40	Coughlin . . . .	60
31st . . . .	158	Gaughan . . . .	44	Paxon . . . .	56	14th . . . .	107	Coyne . . . .	72	Caligiuri . . . .	28
32d . . . .	123	LaFalce . . . .	54	Waring . . . .	32	15th . . . .	127	Orloski . . . .	40	Ritter . . . .	60
33d . . . .	109	Nowak . . . .	77	Kepfer . . . .	17	16th . . . .	129	Guyll . . . .	34	Walker . . . .	66
34th . . . .	127	Leahey . . . .	30	Houghton . . . .	69	17th . . . .	(NA)	( )	( )	Gekas . . . .	(NA)
<b>NC</b> . . . .	<b>1,983</b>	(X)	(X)	(X)	(X)	18th . . . .	166	Walgren . . . .	49	Santorum . . . .	51
1st . . . .	164	Jones . . . .	65	Moye . . . .	35	19th . . . .	(NA)	( )	( )	Goodling . . . .	(NA)
2d . . . .	171	Valentine . . . .	75	Sharpe . . . .	25	20th . . . .	125	Gaydos . . . .	66	Lee . . . .	34
3d . . . .	140	Lancaster . . . .	60	Davis . . . .	40	21st . . . .	(NA)	( )	( )	Ridge . . . .	(NA)
4th . . . .	238	Price . . . .	58	Carrington . . . .	42	22d . . . .	124	Murphy . . . .	63	Hayden . . . .	37
5th . . . .	185	Neal . . . .	60	Bell . . . .	40	23d . . . .	131	Shannon . . . .	41	Clinger . . . .	59
6th . . . .	189	Allegre . . . .	33	Coble . . . .	67	<b>RI</b> . . . .	<b>333</b>	(X)	(X)	(X)	(X)
7th . . . .	144	Rose . . . .	65	Anderson . . . .	35	1st . . . .	157	Wolf . . . .	45	Machtley . . . .	55
8th . . . .	179	Hefner . . . .	55	Blanton . . . .	45	2d . . . .	176	Reed . . . .	59	Coxe . . . .	41
9th . . . .	212	McKnight . . . .	38	McMillan . . . .	62	<b>SC</b> . . . .	(NA)	(X)	(X)	(X)	(X)
10th . . . .	163	Green . . . .	38	Ballenger . . . .	62	1st . . . .	121	Platt . . . .	35	Ravenel . . . .	65
11th . . . .	199	Clarke . . . .	49	Taylor . . . .	51	2d . . . .	102	( )	( )	Spence . . . .	89
						3d . . . .	124	Derrick . . . .	58	Haskett . . . .	42
						4th . . . .	132	Patterson . . . .	61	Haskins . . . .	39
						5th . . . .	(NA)	Spratt . . . .	(NA)	( )	( )
						6th . . . .	(NA)	Tallon . . . .	(NA)	( )	( )

See footnotes at end of table.

**No. 434. Vote Cast for United States Representatives, by Major Political Party—  
Congressional Districts: 1990—Continued**

[See headnote, p. 256]

STATE AND DIS- TRICT	Total vote cast (1,000)	DEMOCRATIC CANDIDATE		REPUBLICAN CANDIDATE		STATE AND DIS- TRICT	Total vote cast (1,000)	DEMOCRATIC CANDIDATE		REPUBLICAN CANDIDATE	
		Name	Per- cent of total	Name	Per- cent of total			Name	Per- cent of total	Name	Per- cent of total
<b>SD</b> . . . .	255	Johnson	67	Frankenfeld	33	1st . . .	152	Brunsdale	46	Hansen	54
<b>TN</b> . . . .	(NA)	(X)	(X)	(X)	(X)	2d . . .	144	Owens	59	Atwood	41
1st . . .	(NA)	( )	( )	Quillen	(NA)	3d . . .	128	Orton	62	Snow	38
2d . . .	77	( )	( )	Duncan	81	<b>VT</b> <sup>5</sup>	202	Sandoval	3	Smith	40
3d . . .	67	( )	( )	Rhoden	43	<b>VA</b> <sup>6</sup>	(NA)	(X)	(X)	(X)	(X)
4th . . .	75	Lloyd	57	Sanders	31	1st . . .	141	Fox	49	Bateman	51
5th . . .	76	Cooper	69	( )	( )	2d . . .	71	Pickett	78	( )	( )
6th . . .	87	Clement	72	Cochran	30	3d . . .	118	Starke	31	Bliley	66
7th . . .	106	Gordon	70	( )	( )	4th . . .	91	Sisisky	78	( )	( )
8th . . .	(NA)	worth	38	Sundquist	62	5th . . .	(NA)	Payne	(NA)	( )	( )
9th . . .	74	Tanner	(NA)	( )	( )	6th . . .	109	Olin	84	( )	( )
<b>TX</b> . . . .	(NA)	Ford	65	Davis	35	7th . . .	140	Smith	42	Slaughter	58
1st . . .	145	(X)	(X)	(X)	(X)	8th . . .	171	Moran	52	Parris	45
2d . . .	138	Chapman	61	Hodges	39	9th . . .	(NA)	Boucher	(NA)	( )	( )
3d . . .	(NA)	Wilson	55	Peterson	45	10th . .	166	Canter	34	Wolf	62
4th . . .	(NA)	( )	( )	Bartlett	(NA)	<b>WA</b> <sup>7</sup>	1,144	(X)	(X)	(X)	(X)
5th . . .	106	Hall	(NA)	( )	( )	1st . . .	171	Sullivan	49	Miller	51
6th . . .	190	Bryant	61	Fucker	39	2d . . .	152	Swift	55	Smith	45
7th . . .	(NA)	Welch	33	Barton	67	3d . . .	161	Unsoeld	54	Williams	46
8th . . .	(NA)	( )	( )	Archer	(NA)	4th . . .	132	Hougen	29	Morrison	71
9th . . .	137	( )	( )	Fields	(NA)	5th . . .	149	Foley	69	Derby	31
10th . .	226	Brooks	58	Meyers	42	6th . . .	103	Dicks	62	Mueller	38
11th . .	137	Pickle	67	Beilharz	33	7th . . .	127	McDer-			
12th . .	137	Edwards	54	Shine	46	8th . . .	148	mott	76	Penberthy	24
13th . .	137	Geren	71	McGinn	29	<b>WV</b> <sup>8</sup>	(NA)	(X)	44	Chandler	56
14th . .	145	Sarpalius	56	Waterfield	44	1st . . .	108	Giles	(X)	(X)	(X)
15th . .	163	Laughlin	55	Dial	45	2d . . .	113	Mollohan	87	Tuck	33
16th . .	(NA)	de la	( )	( )	( )	3d . . .	(NA)	Staggers	55	Luck	45
17th . .	(NA)	Garza	(NA)	( )	( )	4th . . .	76	Wise	(NA)	( )	( )
18th . .	(NA)	Coleman	(NA)	( )	( )	<b>WI</b> <sup>9</sup>	(NA)	Rahall	52	Brewster	48
19th . .	(NA)	Stenholm	(NA)	( )	( )	1st . . .	(NA)	(X)	(X)	(X)	(X)
20th . .	(NA)	Washing-	(NA)	( )	( )	2d . . .	182	Aspin	(NA)	( )	( )
21st . .	189	ton	( )	Combest	(NA)	3d . . .	154	Kasten-	47	Klug	53
22d . .	131	Gonzalez	(NA)	( )	( )	4th . . .	139	meier	39	Gunderson	61
23d . .	110	Roberts	25	Smith	75	5th . . .	109	Ziegeweld	69	Cook	31
24th . .	(NA)	Director	29	DeLay	71	6th . . .	(NA)	Kiecicka	71	Hammer-	
25th . .	(NA)	Busta-	63	Gonzales	37	7th . . .	160	moody	( )	smith	29
26th . .	210	mante	(NA)	( )	( )	8th . . .	179	Obey	62	Petri	(NA)
27th . .	(NA)	Frost	(NA)	( )	( )	9th . . .	(NA)	Sistine	46	McEwen	38
<b>UT</b> . . . .	424	Andrews	(NA)	( )	( )			( )	46	Roth	54
		Caton	30	Armey	70			( )	( )	Sensen-	
		Ortiz	(NA)	( )	( )			( )	( )	brenner	(NA)
		(X)	(X)	(X)	(X)	<b>WY</b> . . .	158	Maxfield	45	Thomas	55

NA Not available. X Not applicable. <sup>1</sup> No candidate. <sup>2</sup> The winning Republican candidate received 78,643 votes; the Democratic candidate, 77,480. <sup>3</sup> The winning Republican candidate received 82,116 votes; the Democratic candidate, 80,811. <sup>4</sup> Louisiana holds an open-primary election with candidates from all parties running on the same ballot. Any candidate who receives a majority is elected; if no candidate receives 50 percent, there is a run-off election in November between the top two finishers. <sup>5</sup> Candidate listed won seat in open-primary. <sup>6</sup> Both candidates in run-off election were Democrats. <sup>7</sup> The winning Democratic candidate received 94,300 votes; the Republican candidate, 94,248. <sup>8</sup> The winning candidate was Sanders, an Independent, who received 56 percent of the vote.

Source: Congressional Quarterly, Inc., Washington, DC, *Congressional Quarterly Weekly Report*, vol. 48, No. 45, Nov. 10, 1990. (Copyright.)

**No. 435. Representatives Elected, by Percent of Vote Cast for Winner and Major Party, 1970 to 1990, and by State, 1990**

YEAR, REGION, DIVISION, AND STATE	TOTAL REPRESENTATIVES ELECTED				DEMOCRATS ELECTED				REPUBLICANS ELECTED				REPRESENTATIVES ELECTED WITH NO MAJOR PARTY OPPOSITION		
	Total	Percentage of vote			Total	Percentage of vote			Total	Percentage of vote			Total	Democrats	Republicans
		Under 55	55-59.9	60 and over		Under 55	55-59.9	60 and over		Under 55	55-59.9	60 and over			
1970	435	59	64	312	255	28	26	201	180	31	38	111	63	58	5
1980	435	78	83	294	243	35	35	173	192	43	28	121	54	39	15
1982	435	76	73	286	269	40	38	196	166	36	40	90	56	46	10
1984	435	58	56	321	253	39	38	182	182	25	18	139	68	54	14
1986	435	46	41	348	258	22	18	218	177	24	23	130	75	57	18
1988	435	37	34	364	260	21	15	224	175	16	19	140	80	60	20
1990, total	2435	249	68	318	267	25	40	202	167	23	28	116	81	48	33
<b>Northeast</b>	265	212	17	66	56	8	10	38	38	3	7	28	15	11	4
<b>N.E.</b>	224	27	3	14	18	4	1	11	7	2	2	3	5	5	
ME	2	1	-	1	1	-	-	1	1	1	-	-	-	-	-
NH	2	1	1	-	1	1	-	-	1	-	-	1	-	-	-
VT	21	21	-	-	-	-	-	-	-	-	-	-	-	-	-
MA	11	2	-	9	10	2	-	8	1	-	-	1	5	5	-
RI	2	-	2	-	1	-	1	-	1	-	1	-	-	-	-
CT	6	2	-	4	3	1	-	2	3	1	-	2	-	-	-
<b>M.A.</b>	71	5	14	52	40	4	9	27	31	1	5	25	10	6	4
NY	34	2	6	26	21	2	3	16	13	3	10	5	3	2	-
NJ	14	2	2	10	8	2	2	4	6	-	-	6	2	2	-
PA	23	1	6	16	11	-	4	7	12	1	2	9	3	1	2
<b>Midwest</b>	113	12	15	86	68	6	8	54	45	6	7	32	13	7	6
<b>E.N.C.</b>	80	6	10	64	49	4	5	40	31	2	5	24	10	5	5
OH	21	1	2	18	11	1	-	10	10	2	2	8	1	1	-
IN	10	2	3	5	8	2	2	4	2	-	1	1	-	-	-
IL	22	1	2	19	15	1	2	12	7	-	-	5	2	3	-
MI	18	-	3	15	11	-	1	10	7	-	2	5	1	1	-
WI	9	2	-	7	4	-	-	4	5	2	-	3	3	1	2
<b>W.N.C.</b>	33	6	5	22	19	2	3	14	14	4	2	8	3	2	1
MN	8	1	-	7	6	1	-	-	2	1	-	2	-	-	-
IA	6	1	-	5	2	-	-	2	4	1	-	3	3	2	1
MO	9	3	3	3	6	1	2	3	3	2	1	-	-	-	-
ND	1	-	-	1	1	-	-	1	-	-	-	-	-	-	-
SD	1	-	-	1	1	-	-	1	-	1	-	1	-	-	-
NE	3	1	1	1	1	-	1	-	2	1	-	1	-	-	-
KS	5	-	1	4	2	-	-	2	3	-	1	2	-	-	-
<b>South</b>	142	12	19	111	95	8	13	74	47	4	6	37	47	28	19
<b>S.A.</b>	69	8	13	48	45	5	8	32	24	3	5	16	15	9	6
DE	1	-	-	1	1	-	-	1	1	-	-	2	-	-	-
MD	8	-	2	6	5	-	1	4	3	-	1	2	-	5	-
VA	10	2	1	7	6	1	-	5	4	1	1	2	-	1	-
WV	4	1	1	2	4	1	1	2	4	-	-	3	-	-	-
NC	11	1	2	8	7	-	2	5	4	1	-	2	3	2	1
SC	6	-	1	5	4	1	1	3	2	-	-	2	-	-	-
GA	10	2	2	6	9	1	2	6	10	1	3	7	6	1	5
FL	19	2	4	13	9	2	1	6	10	-	-	7	11	6	5
<b>E.S.C.</b>	28	2	1	25	20	1	1	18	8	1	-	3	4	1	2
KY	7	1	-	6	4	1	-	3	3	-	-	3	3	2	2
TN	9	-	1	8	5	-	1	5	2	-	-	1	3	2	1
AL	7	1	-	6	5	-	-	5	2	1	-	1	1	1	-
MS	5	-	-	5	5	-	-	5	-	-	-	-	-	-	-
<b>W.S.C.</b>	45	2	5	38	30	2	4	24	15	-	1	14	21	13	8
AR	4	-	-	4	3	-	-	3	1	-	-	1	-	-	-
LA	8	1	-	7	4	1	-	3	4	-	-	4	8	4	4
OK	6	-	1	5	4	-	-	4	2	-	1	1	-	-	-
TX	27	1	4	22	19	1	4	14	8	-	-	8	13	9	4
<b>West</b>	85	13	17	55	48	3	9	36	37	10	8	19	6	2	4
<b>Mt.</b>	24	3	3	18	11	1	1	9	13	2	2	9	2	-	2
MT	2	-	-	2	1	-	-	1	1	-	-	1	-	-	-
ID	2	1	-	1	2	1	-	-	1	-	-	1	-	-	-
WY	1	-	1	-	-	-	-	-	1	-	-	-	-	-	-
CO	6	1	-	5	3	-	-	3	3	1	-	2	-	-	-
NM	3	-	-	3	1	-	-	1	2	-	-	2	1	-	1
AZ	5	-	1	4	1	-	-	1	4	-	1	3	1	-	-
UT	3	1	1	1	2	-	1	1	1	1	-	1	-	-	-
NV	2	-	-	2	1	-	-	1	1	-	-	1	-	-	-
<b>Pac.</b>	61	10	14	37	37	2	8	27	24	8	6	10	4	2	2
WA	8	2	2	4	5	1	1	3	3	1	1	1	1	1	-
OR	5	-	1	4	4	-	1	3	1	-	-	1	1	1	-
CA	45	7	11	27	26	1	6	19	19	6	5	8	3	3	2
AK	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-
HI	2	-	-	2	2	-	-	-	2	-	-	-	-	-	-

- Represents zero. <sup>1</sup> Based on nearly complete, unofficial vote returns as compiled by source. <sup>2</sup> Includes one Representative elected as an independent.

Source: Compiled by U.S. Bureau of the Census from Elections Research Center, Washington, DC, *America Votes*, biennial and Congressional Quarterly, Inc., Washington, DC, *Congressional Quarterly Weekly Report*, vol. 48, No. 45, Nov. 10, 1990 (copyright).



**No. 436. Composition of Congress, by Political Party: 1961 to 1991**

[D=Democratic, R=Republican. Data for beginning of first session of each Congress. Excludes vacancies at beginning of session. See also *Historical Statistics, Colonial Times to 1970*, series Y 204-210]

YEAR	Party and President	Congress	HOUSE			SENATE		
			Majority party	Minority party	Other	Majority party	Minority party	Other
1961	D (Kennedy)	87th	D-263	R-174	-	D-65	R-35	-
1963	D (Kennedy)	88th	D-258	R-177	-	D-67	R-33	-
1965	D (Johnson)	89th	D-295	R-140	-	D-68	R-32	-
1967	D (Johnson)	90th	D-247	R-187	-	D-64	R-36	-
1969	R (Nixon)	91st	D-243	R-192	-	D-57	R-43	-
1971	R (Nixon)	92d	D-254	R-180	-	D-54	R-44	2
1973	R (Nixon)	93d	D-239	R-192	1	D-56	R-42	2
1975	R (Ford)	94th	D-291	R-144	-	D-60	R-37	2
1977	D (Carter)	95th	D-292	R-143	-	D-61	R-38	1
1979	D (Carter)	96th	D-276	R-157	-	D-58	R-41	1
1981	R (Reagan)	97th	D-243	R-192	-	R-53	D-46	1
1983	R (Reagan)	98th	D-269	R-165	-	R-54	D-46	-
1985	R (Reagan)	99th	D-252	R-182	-	R-53	D-47	-
1987	R (Reagan)	100th	D-258	R-177	-	D-55	R-45	-
1989	R (Bush)	101st	D-259	R-174	-	D-55	R-45	-
1991	R (Bush)	102nd	D-267	R-167	1	D-56	R-43	-

- Represents zero. <sup>1</sup> Senate had 1 Independent and 1 Conservative-Republican. <sup>2</sup> House had 1 Independent-Democrat. <sup>3</sup> Senate had 1 Independent, 1 Conservative-Republican, and 1 undecided (New Hampshire). <sup>4</sup> Senate had 1 Independent.

Source: U.S. Congress, Joint Committee on Printing, *Congressional Directory*, annual; beginning 1977, biennial.

**No. 437. U.S. Congress—Measures Introduced and Enacted and Time in Session: 1973 to 1989**

[Excludes simple and concurrent resolutions. See also *Historical Statistics, Colonial Times to 1970*, series Y 189-198]

ITEM	93rd Cong., 1973-74	94th Cong., 1975-76	95th Cong., 1977-78	96th Cong., 1979-80	97th Cong., 1981-82	98th Cong., 1983-84	99th Cong., 1985-86	100th Cong., 1987-88	101st Cong., 1989
Measures introduced	23,396	21,096	19,387	12,583	11,490	11,156	9,885	9,588	6,534
Bills	21,950	19,762	18,045	11,722	10,582	10,134	8,697	8,515	5,846
Joint resolutions	1,446	1,334	1,342	861	908	1,022	1,188	1,073	688
Measures enacted	774	729	803	736	529	677	493	761	242
Public	651	586	633	613	473	623	466	713	240
Private	123	141	170	123	56	54	17	48	2
HOUSE OF REPRESENTATIVES									
Number of days	318	311	323	326	303	266	281	298	147
Number of hours	1,487	1,788	1,898	1,876	1,420	1,705	1,794	1,659	749
Number of hours per day	4.7	5.7	5.9	5.8	4.7	6.4	6.4	5.6	5.1
SENATE									
Number of days	334	320	337	333	312	281	313	307	136
Number of hours	2,028	2,210	2,510	2,324	2,158	1,951	2,531	2,341	1,003
Number of hours per day	6.1	6.9	7.4	7.0	6.9	6.9	8.1	7.6	7.4

Source: U.S. Congress, *Congressional Record*, vol. 136, No. 1, *Daily Digest*, January 23, 1990 and prior issues.

**No. 438. Congressional Bills Vetoed: 1961 to 1989**

[See also *Historical Statistics, Colonial Times to 1970*, series Y 199-203]

PERIOD	President	Total vetoes	Regular vetoes	Pocket vetoes	Vetoes sustained	Bills passed over veto
1961-1963	Kennedy	21	12	9	21	-
1963-1969	Johnson	30	16	14	30	-
1969-1974	Nixon	42	24	18	36	6
1974-1977	Ford	72	53	19	60	12
1977-1981	Carter	31	13	18	29	2
1981-1989	Reagan	78	39	39	69	9
1989	Bush	10	9	1	10	-

- Represents zero.

Source: U.S. Congress, Senate Library, *Presidential Vetoes ... 1789-1968*; U.S. Congress, *Calendars of the U.S. House of Representatives and History of Legislation*, annual.

## No. 439. Composition of Congress, by Political Party Affiliation—States: 1985 to 1991

[Figures are for the beginning of the first session. Dem.=Democratic; Rep.=Republican]

REGION, DIVISION, AND STATE	REPRESENTATIVES								SENATORS							
	99th Cong., 1985		100th Cong., 1987		101st Cong., 1989		102nd Cong., 1991		99th Cong., 1985		100th Cong., 1987		101st Cong., 1989		102nd Cong., 1991	
	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.
U.S. ....	252	182	258	177	259	174	267	167	47	53	55	45	55	45	56	43
Northeast ....	54	41	55	40	55	40	56	38	9	9	9	9	10	8	10	8
N.E. ....	14	10	15	9	14	10	16	7	6	6	6	6	7	5	7	5
ME ....	-	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NH ....	-	2	-	2	-	2	1	1	-	2	-	2	-	2	-	2
VT ....	-	1	-	1	-	1	-	-	1	1	1	1	1	1	1	1
MA ....	10	1	10	1	10	1	10	1	2	-	2	-	2	-	2	-
RI ....	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1
CT ....	3	3	3	3	3	3	3	3	1	1	1	1	2	-	2	-
M.A. ....	40	31	40	31	41	30	40	31	3	3	3	3	3	3	3	3
NY ....	19	15	20	14	21	13	21	13	1	1	1	1	1	1	1	1
NJ ....	8	6	8	6	8	6	8	6	2	-	2	-	2	-	2	-
PA ....	13	10	12	11	12	11	11	12	-	2	-	2	-	2	-	2
Midwest ....	61	51	62	51	64	46	68	45	12	12	13	11	13	11	14	10
E.N.C. ....	44	35	46	34	47	32	49	31	7	3	7	3	7	3	7	3
OH ....	11	10	11	10	11	10	11	10	2	-	2	-	2	-	2	-
IN ....	4	5	6	4	6	3	8	2	-	2	-	2	-	2	-	2
IL ....	13	9	13	9	14	8	15	7	2	-	2	-	2	-	2	-
MI ....	11	7	11	7	11	7	11	7	2	-	2	-	2	-	2	-
WI ....	5	4	5	4	5	4	5	4	1	1	1	1	1	1	1	1
W.N.C. ....	17	16	16	17	17	16	19	14	5	9	6	8	6	8	7	7
MN ....	5	3	5	3	5	3	6	2	-	2	-	2	-	2	-	2
IA ....	2	4	2	4	2	4	2	4	1	1	1	1	1	1	1	1
MO ....	6	3	5	4	5	4	6	3	1	1	2	-	2	-	2	-
ND ....	1	-	1	-	1	-	1	-	1	1	2	-	2	-	2	-
SD ....	1	-	1	-	1	-	1	-	2	-	2	-	2	-	2	-
NE ....	-	3	-	3	-	3	2	1	2	-	2	-	2	-	2	-
KS ....	2	3	2	3	2	3	2	3	-	2	-	2	-	2	-	2
South ....	93	49	96	46	95	46	95	47	18	14	23	9	22	10	22	10
S.A. ....	44	25	46	21	47	22	45	24	7	9	11	5	11	5	11	5
DE ....	1	1	1	-	1	-	1	-	1	1	1	1	1	1	1	1
MD ....	6	2	6	2	6	2	5	3	1	1	2	-	2	-	2	-
VA ....	4	6	5	5	5	5	6	4	-	2	-	2	-	2	-	2
WV ....	4	-	4	-	4	-	4	-	2	-	2	-	2	-	2	-
NC ....	6	5	8	3	8	3	7	4	-	2	-	2	-	2	-	2
SC ....	3	3	4	2	4	2	4	2	1	1	1	1	1	1	1	1
GA ....	8	2	8	2	9	1	9	1	1	1	2	-	2	-	2	-
FL ....	12	7	12	7	10	9	9	10	1	1	2	-	2	-	2	-
E.S.C. ....	18	10	19	9	18	9	20	8	5	3	6	2	5	3	5	3
KY ....	4	3	4	3	4	3	4	3	1	1	1	1	1	1	1	1
TN ....	6	3	6	3	6	3	6	3	2	-	2	-	2	-	2	-
AL ....	5	2	5	2	4	2	5	2	1	1	2	-	2	-	2	-
MS ....	3	2	4	1	4	1	5	-	1	1	1	1	-	2	-	2
W.S.C. ....	31	14	29	16	30	15	30	15	6	2	6	2	6	2	6	2
AR ....	3	1	3	1	3	1	3	1	2	-	2	-	2	-	2	-
LA ....	6	2	5	3	4	4	4	4	2	-	2	-	2	-	2	-
OK ....	5	1	4	2	4	2	4	2	1	1	1	1	1	1	1	1
TX ....	17	10	17	10	19	8	19	8	1	1	1	1	1	1	1	1
West ....	44	41	45	40	45	40	48	37	8	18	10	16	10	16	10	15
Mt. ....	7	17	9	15	9	15	11	13	5	11	6	10	6	10	6	10
MT ....	1	1	1	1	1	1	1	1	2	-	2	-	2	-	2	-
ID ....	1	1	1	1	1	1	2	-	-	2	-	2	-	2	-	2
WY ....	-	1	-	1	-	1	-	1	-	2	-	2	-	2	-	2
CO ....	2	4	3	3	3	3	3	3	1	1	1	1	1	1	1	1
NM ....	1	2	1	2	1	2	1	2	1	1	1	1	1	1	1	1
AZ ....	1	4	1	4	1	4	1	4	1	1	1	1	1	1	1	1
UT ....	-	3	-	2	-	2	-	2	-	2	-	2	-	2	-	2
NV ....	1	1	1	1	1	1	1	1	-	2	1	1	2	-	2	-
Pac ....	37	24	38	25	36	25	37	24	3	7	4	6	4	6	4	5
WA ....	5	3	5	3	5	3	5	3	-	2	1	1	1	1	1	1
OR ....	3	2	3	2	3	2	4	1	-	2	-	2	-	2	-	2
CA ....	27	18	27	18	27	18	26	19	1	1	1	1	1	1	1	1
AK ....	-	1	-	1	-	1	-	1	-	2	-	2	-	2	-	2
HI ....	2	-	1	-	1	-	2	-	2	-	2	-	2	-	2	-

- Represents zero. <sup>1</sup> Indiana had one vacancy. <sup>2</sup> Alabama had one vacancy. <sup>3</sup> Vermont had one independent Representative. <sup>4</sup> Source: Congressional Quarterly, Inc., Washington, DC, *Congressional Quarterly Weekly Report*, vol. 48, No. 45, November 10, 1990. (Copyright.) <sup>5</sup> California had one vacancy.

Source: Except as noted, U.S. Congress, Joint Committee on Printing, *Congressional Directory*, biennial; and unpublished data.

## No. 440. Members of Congress—Incumbents Re-elected: 1964 to 1988

ITEM	PRESIDENTIAL-YEAR ELECTIONS							MIDTERM ELECTIONS					
	1964	1968	1972	1976	1980	1984	1988	1966	1970	1974	1978	1982	1986
<b>Representatives:</b>													
Incumbent candidates . . . .	397	409	390	384	398	412	409	411	401	391	382	393	394
Re-elected . . . . .	344	396	365	368	361	393	402	362	379	343	358	354	385
Percent of candidates . . . .	86.6	96.8	93.6	95.8	90.7	95.4	98.3	88.1	94.5	87.7	93.7	90.1	97.7
Defeated: In primaries . . . .	8	4	12	3	6	3	1	8	10	8	5	10	3
In general elections . . . . .	45	9	13	13	31	16	6	41	12	40	19	29	6
<b>Senators:</b>													
Incumbent candidates . . . .	33	28	27	25	29	29	27	32	31	27	25	30	28
Re-elected . . . . .	28	20	20	16	16	26	23	28	24	23	15	28	21
Percent of candidates . . . .	84.8	71.4	74.1	64.0	55.2	89.7	85.2	87.5	77.4	85.2	60.0	93.3	75.0
Defeated: In primaries . . . .	1	4	2	4	4	4	4	3	1	2	3	2	7
In general elections . . . . .	4	4	5	9	9	3	4	1	6	2	7	2	7

- Represents zero. <sup>1</sup> Six incumbents defeated in primaries by other incumbents due to redistricting.

Source: 1964-1982, Ornstein, Norman J., Thomas E. Mann, and Michael J. Malbin, *Vital Statistics on Congress, 1989-1990*, Congressional Quarterly, Inc., Washington, DC, 1990 and Congressional Quarterly, Inc., Washington, DC, *Congressional Quarterly Weekly Report*, vol. 46, No. 18, May 6, 1989 and selected prior issues. (Copyright.)

## No. 441. Members of Congress—Selected Characteristics: 1977 to 1990

[As of beginning of first session of each Congress, except as noted. Figures for Representatives exclude vacancies]

MEMBERS OF CONGRESS AND YEAR	Male	Female	Black	Hispanic <sup>1</sup>	AGE (in years)						SENIORITY <sup>2</sup>					
					Under 40	40-49	50-59	60-69	70-79	80 and over	Less than 2 years	2-9 years	10-19 years	20-29 years	30 years or more	
REPRESENTATIVES																
95th Cong., 1977 . . . . .	417	18	16	5	81	121	147	71	15	-	71	207	116	33	8	
96th Cong., 1979 . . . . .	417	16	16	5	86	125	145	63	14	-	80	206	105	32	10	
97th Cong., 1981 . . . . .	416	19	17	6	94	142	132	54	12	1	77	231	96	23	8	
98th Cong., 1983 . . . . .	413	21	21	8	86	145	132	57	13	1	83	224	88	28	11	
99th Cong., 1985 . . . . .	412	22	20	10	71	154	131	59	17	2	49	237	104	34	10	
100th Cong., 1987 . . . . .	412	23	23	11	63	153	137	56	24	2	51	221	114	37	12	
101st Cong., 1989 . . . . .	408	25	24	10	41	163	133	74	20	2	39	207	139	35	13	
101st Cong., 1990 <sup>3</sup> . . . .	405	27	24	10	34	159	132	84	19	4	44	206	133	37	12	
SENATORS																
95th Cong., 1977 . . . . .	100	-	1	-	6	26	35	21	10	2	18	41	24	12	5	
96th Cong., 1979 . . . . .	99	1	-	-	10	31	33	17	8	1	20	41	23	12	4	
97th Cong., 1981 . . . . .	98	2	-	-	9	35	36	14	6	-	19	51	17	11	2	
98th Cong., 1983 . . . . .	98	2	-	-	7	28	39	20	3	3	5	61	21	10	3	
99th Cong., 1985 . . . . .	98	2	-	-	4	27	38	25	4	2	8	56	27	7	2	
100th Cong., 1987 . . . . .	98	2	-	-	5	30	36	22	5	2	14	41	36	7	2	
101st Cong., 1989 . . . . .	98	2	-	-	-	30	40	22	6	2	23	22	43	10	2	
101st Cong., 1990 <sup>3</sup> . . . .	98	2	-	-	-	25	45	22	6	2	11	34	43	10	2	

- Represents zero. <sup>1</sup> Source: National Association of Latino Elected and Appointed Officials, Washington, DC, *National Roster of Hispanic Elected Officials*, annual. <sup>2</sup> Represents consecutive years of service. <sup>3</sup> As of beginning of second session.

Source: Except as noted, compiled by U.S. Bureau of the Census from data published in *Congressional Directory*, biennial.

## No. 442. Congressional Staff, by Location of Employment: 1957 to 1987

[Excludes those persons employed in Congressional support agencies such as the U.S. General Accounting Office, the Library of Congress, and the Congressional Budget Office]

YEAR	PERSONAL STAFF		YEAR	STANDING COMMITTEE STAFF		LOCATION OF EMPLOYMENT	1979	1981	1983	1985	1987
	House	Senate		House	Senate						
1957 . . . . .	2,441	1,115	1960 . . . . .	440	470	<b>Total . . . . .</b>	<b>16,803</b>	<b>17,422</b>	<b>17,963</b>	<b>18,136</b>	<b>18,124</b>
1967 . . . . .	4,055	1,749	1965 . . . . .	571	509	House of Representatives . . . . .	10,743	11,217	11,537	11,636	11,703
1972 . . . . .	5,260	2,426	1970 . . . . .	702	635	Committee staff <sup>2</sup> . . . . .	2,027	1,917	2,068	2,146	2,136
1976 . . . . .	6,939	3,251	1976 . . . . .	1,680	1,201	Personal staff . . . . .	7,067	7,487	7,606	7,528	7,584
1977 . . . . .	6,942	3,554	1977 . . . . .	1,776	1,028	Leadership staff . . . . .	162	127	135	144	138
1978 . . . . .	6,944	3,266	1978 . . . . .	1,844	1,151	Officers of House, staff . . . . .	1,487	1,686	1,728	1,818	1,845
1979 . . . . .	7,067	3,593	1979 . . . . .	1,909	1,269	Senate . . . . .	5,922	6,079	6,303	6,369	6,289
1980 . . . . .	7,371	3,746	1980 . . . . .	1,917	1,191	Committee staff <sup>2</sup> . . . . .	1,410	1,150	1,176	1,178	1,207
1981 . . . . .	7,487	3,945	1981 . . . . .	1,843	1,022	Personal staff . . . . .	3,593	3,945	4,059	4,097	4,075
1982 . . . . .	7,511	4,041	1982 . . . . .	1,839	1,047	Leadership staff . . . . .	91	108	120	118	103
1983 . . . . .	7,606	4,059	1983 . . . . .	1,970	1,075	Officers of Senate, staff . . . . .	828	878	948	976	904
1984 . . . . .	7,985	3,949	1984 . . . . .	1,944	1,095	Joint committee staff . . . . .	138	126	123	131	132
1985 . . . . .	7,528	4,037	1985 . . . . .	2,009	1,080						
1986 . . . . .	7,920	3,774	1986 . . . . .	1,954	1,075						
1987 . . . . .	7,584	4,075	1987 . . . . .	2,024	1,074						

<sup>1</sup> House figure is average for year and Senate figure only covers period following implementation of Gramm-Rudman budget reductions. <sup>2</sup> Covers standing, select and special committees.

Source: Ornstein, Norman J., Thomas E. Mann, and Michael J. Malbin, *Vital Statistics on Congress, 1989-1990*, Congressional Quarterly, Inc., Washington, DC, 1990 (copyright).

**No. 443. Number of Governors, by Political Party Affiliation: 1970 to 1991**

(Reflects results of elections in previous year and holdover incumbents)

YEAR	Democrat	Republican	Independent	YEAR	Democrat	Republican	Independent	YEAR	Democrat	Republican	Independent
1970.....	18	32	-	1982.....	27	23	-	1987.....	26	24	-
1975.....	36	13	1	1983.....	34	16	-	1988.....	27	23	-
1979.....	32	18	-	1984.....	35	15	-	1989.....	28	22	-
1980.....	31	19	-	1985.....	34	16	-	1990.....	29	21	-
1981.....	27	23	-	1986.....	34	16	-	1991.....	28	20	2

- Represents zero. <sup>1</sup> Reflects result of runoff election in AZ in February 1991.Source: National Governors' Association, Washington, DC, *Directory of Governors of the American States, Commonwealths & Territories*, annual. (Copyright.)**No. 444. Vote Cast for and Governor Elected, by State: 1984 to 1990**

(In thousands, except percent. D=Democratic, R=Republican)

DIVISION AND STATE	1984		1985		1988		1990 <sup>2</sup>		Candidate elected at most recent election <sup>2</sup>
	Total vote <sup>1</sup>	Percent leading party	Total vote <sup>1</sup>	Percent leading party	Total vote <sup>1</sup>	Percent leading party	Total vote <sup>1</sup>	Percent leading party	
<b>N. Eng.:</b>									
ME.....	(X)	(X)	427	R-39.9	(X)	(X)	500	R-46.6	John R. McKernan Jr.
NH.....	384	R-66.8	251	R-53.7	442	R-60.4	277	R-63.5	Judd Gregg
VT.....	234	D-50.0	187	D-47.0	243	D-55.4	204	R-52.1	Richard A. Snelling
MA.....	(X)	(X)	1,684	D-68.7	(X)	(X)	2,050	R-51.6	William F. Weld
RI.....	408	R-60.0	323	R-64.7	401	R-50.8	343	D-74.4	Bruce Sundlun
CT.....	(X)	(X)	994	D-57.9	(X)	(X)	1,132	I-40.5	Lowell P. Weicker Jr.
<b>Mid. Atl.:</b>									
NY.....	(X)	(X)	4,294	D-64.6	(X)	(X)	3,948	D-53.2	Mario M. Cuomo
NJ <sup>3</sup> .....	1,973	R-69.6	(X)	(X)	2,254	D-61.2	(X)	(X)	James J. Florio
PA.....	(X)	(X)	3,388	D-50.7	(X)	(X)	3,043	D-67.6	Robert P. Casey
<b>E. No. Cent.:</b>									
OH.....	(X)	(X)	3,067	D-60.6	(X)	(X)	3,451	R-55.8	George V. Voinovich
IN.....	2,198	R-52.2	(X)	(X)	2,141	D-53.2	(X)	(X)	Evan Bayh
IL.....	(X)	(X)	3,144	R-52.7	(X)	(X)	3,170	R-51.5	Jim Edgar
MI.....	(X)	(X)	2,397	D-68.1	(X)	(X)	2,494	R-50.3	John Engler
WI.....	(X)	(X)	1,527	R-52.7	(X)	(X)	1,376	R-58.2	Tommy G. Thompson
<b>W. No. Cent.:</b>									
MN.....	(X)	(X)	1,416	D-55.8	(X)	(X)	1,434	R-51.2	Arne Carlson
IA.....	(X)	(X)	911	R-51.9	(X)	(X)	960	R-60.8	Terry E. Branstad
MO.....	2,108	R-56.7	(X)	(X)	2,086	R-64.2	(X)	(X)	John Ashcroft
ND.....	314	D-55.3	(X)	(X)	299	D-59.9	(X)	(X)	George Sinner
SD.....	(X)	(X)	294	R-51.8	(X)	(X)	256	R-58.9	George S. Mickelson
NE.....	(X)	(X)	564	R-52.9	(X)	(X)	569	D-50.3	Ben Nelson
KS.....	(X)	(X)	841	R-51.9	(X)	(X)	712	D-53.4	Joan Finney
<b>So. Atl.:</b>									
DE.....	244	R-55.5	(X)	(X)	240	R-70.7	(X)	(X)	Michael N. Castle
MD.....	(X)	(X)	1,101	D-82.4	(X)	(X)	1,080	D-59.7	William Donald Schaefer
VA <sup>3</sup> .....	1,343	D-55.2	(X)	(X)	1,789	D-50.1	(X)	(X)	Douglas Wilder
WV.....	742	R-53.3	(X)	(X)	650	D-58.9	(X)	(X)	Gaston Caperton
NC.....	2,227	R-54.3	(X)	(X)	2,180	R-56.1	(X)	(X)	James G. Martin
SC.....	(X)	(X)	754	R-51.0	(X)	(X)	730	R-71.3	Carroll A. Campbell Jr.
GA.....	(X)	(X)	1,175	D-70.5	(X)	(X)	1,433	D-52.9	Zell Miller
FL.....	(X)	(X)	3,386	R-54.6	(X)	(X)	3,425	D-56.6	Lawton Chiles
<b>E. So. Cent.:</b>									
KY <sup>4</sup> .....	1,031	D-54.5	781	D-64.6	(X)	(X)	(X)	(X)	Wallace G. Wilkinson
TN.....	(X)	(X)	1,210	D-54.2	(X)	(X)	764	D-62.5	Ned McWherter
AL.....	(X)	(X)	1,236	R-56.3	(X)	(X)	1,199	R-51.8	Guy Hunt
MS <sup>4</sup> .....	743	D-55.1	722	D-53.4	(X)	(X)	(X)	(X)	Ray Mabus
<b>W. So. Cent.:</b>									
AR.....	887	D-62.6	689	D-63.9	(X)	(X)	662	D-57.2	Bill Clinton
LA.....	5,161	D-62.3	5,159	D-53.1	(X)	(X)	(X)	(X)	Charles Roemer
OK.....	(X)	(X)	910	R-47.5	(X)	(X)	821	D-63.9	David Walters
TX.....	(X)	(X)	3,441	R-52.7	(X)	(X)	3,727	D-51.3	Ann W. Richards
<b>Mt.:</b>									
MT.....	379	D-70.3	(X)	(X)	367	R-51.9	(X)	(X)	Stan Stephens
ID.....	(X)	(X)	387	D-49.9	(X)	(X)	296	D-67.5	Cecil D. Andrus
WY.....	(X)	(X)	165	D-54.0	(X)	(X)	180	D-65.3	Mike Sullivan
CO.....	(X)	(X)	1,059	D-58.2	(X)	(X)	987	D-83.3	Roy Romer
NM.....	(X)	(X)	395	R-53.0	(X)	(X)	411	D-54.4	Bruce King
AZ.....	(X)	(X)	887	R-39.7	(X)	(X)	941	R-52.4	Fife Symington
UT.....	630	R-55.9	(X)	(X)	649	R-40.1	(X)	(X)	Norman H. Bangert
NV.....	(X)	(X)	260	D-71.9	(X)	(X)	312	D-66.5	Bob Miller
<b>Pac.:</b>									
WA.....	1,889	D-53.3	(X)	(X)	1,875	D-62.2	(X)	(X)	Booth Gardner
OR.....	(X)	(X)	1,060	D-51.9	(X)	(X)	1,019	D-46.1	Barbara Roberts
CA.....	(X)	(X)	7,444	R-60.5	(X)	(X)	7,001	R-48.7	Pete Wilson
AK.....	(X)	(X)	180	D-47.3	(X)	(X)	164	I-38.8	Walter J. Hickel
HI.....	(X)	(X)	334	D-52.0	(X)	(X)	270	D-61.6	John Waihee III

X Not applicable. <sup>1</sup> Includes minor party and scattered votes. <sup>2</sup> Unofficial vote returns compiled by Congressional Quarterly from various sources, including The Associated Press. Source: Congressional Quarterly, Inc., Washington, DC, *Congressional Quarterly Weekly Report*, vol. 48, No. 45, Nov. 10, 1990. (Copyright.) <sup>3</sup> Voting years 1985 and 1989. <sup>4</sup> Voting years 1983 and 1987. <sup>5</sup> Primary elections in Oct. 1983 and Oct. 1987, held on a non-party basis. Winner was Democratic. Runner-up in 1987 withdrew from runoff. <sup>6</sup> Result of runoff election in February 1991.

Source: Except as noted, Elections Research Center, Washington, DC, *America Votes*, biennial and unpublished data. (Copyright.)

## No. 445. Composition of State Legislatures, by Political Party Affiliation: 1982 to 1988

[Data reflect election results in year shown for most States; and, except as noted, results in previous year for other States. Figures reflect immediate results of elections, including holdover members in State houses which do not have all of their members running for re-election. Dem. = Democrat, Rep. = Republican. In general, Lower House refers to body consisting of State Representatives; Upper House, of State Senators]

STATE	LOWER HOUSE								UPPER HOUSE							
	1982 <sup>1 2</sup>		1984 <sup>3 4</sup>		1986 <sup>5 6</sup>		1988 <sup>7 8</sup>		1982 <sup>1 9</sup>		1984 <sup>3 10</sup>		1986 <sup>5 11</sup>		1988 <sup>7 12</sup>	
	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.
U.S. ....	3,429	2,006	3,136	2,316	3,294	2,164	3,277	2,176	1,210	725	1,187	753	1,177	762	1,192	751
AL <sup>13</sup> .....	97	8	87	12	89	16	85	17	32	3	28	4	30	5	28	6
AK <sup>14</sup> .....	19	21	21	18	24	16	23	17	9	11	9	11	8	12	8	12
AZ <sup>15</sup> .....	21	39	22	38	24	36	26	34	12	18	12	18	11	19	13	17
AR <sup>14</sup> .....	93	7	91	9	91	9	88	11	32	3	31	4	31	4	31	4
CA <sup>14</sup> .....	48	32	47	33	44	36	46	33	25	14	25	15	23	15	24	15
CO <sup>14</sup> .....	25	40	18	47	25	40	26	39	21	11	14	24	10	25	11	24
CT <sup>15</sup> .....	87	64	66	85	92	59	89	63	23	13	12	24	25	11	23	13
DE <sup>14</sup> .....	24	17	19	22	19	22	18	23	13	8	13	8	13	8	13	8
FL <sup>14</sup> .....	84	36	77	43	75	45	73	47	32	8	32	8	25	15	23	17
GA <sup>15</sup> .....	156	24	154	26	153	27	144	36	49	7	47	9	46	10	45	11
HI <sup>14</sup> .....	43	8	40	11	40	10	45	6	20	5	21	4	20	5	22	3
ID <sup>15</sup> .....	19	51	17	67	20	64	20	64	14	21	14	28	16	26	19	23
IL <sup>14</sup> .....	70	48	67	51	67	51	67	51	33	26	31	28	31	28	31	28
IN <sup>14</sup> .....	43	57	39	61	48	52	50	50	18	32	20	30	19	30	24	26
IA <sup>14</sup> .....	60	40	60	40	58	42	61	39	28	22	29	21	30	20	30	20
KS <sup>14</sup> .....	53	72	49	76	51	74	58	67	16	24	16	24	16	24	18	22
KY <sup>14</sup> .....	76	24	74	26	71	29	72	28	28	10	28	10	29	9	30	8
LA <sup>13</sup> .....	93	11	91	14	87	15	86	17	38	1	38	1	34	5	34	5
ME <sup>15</sup> .....	92	59	85	66	86	65	97	54	23	10	24	11	20	15	20	15
MD <sup>13</sup> .....	124	17	124	17	124	17	125	16	41	6	41	6	40	7	40	7
MA <sup>15</sup> .....	129	29	126	34	127	33	128	32	33	7	32	8	32	8	32	8
MI <sup>14</sup> .....	63	47	57	53	64	46	61	49	20	18	18	19	18	20	18	20
MN <sup>14</sup> .....	77	57	65	69	83	51	80	53	42	25	42	24	47	20	44	23
MS <sup>13</sup> .....	116	5	116	6	113	9	112	9	49	3	49	3	45	7	44	8
MO <sup>14</sup> .....	110	53	108	55	111	52	104	58	22	12	21	13	21	13	22	12
MT <sup>14</sup> .....	55	45	50	50	49	51	52	48	24	26	28	22	25	25	23	27
NE <sup>14</sup> .....	(16)	(16)	(16)	(16)	(16)	(16)	(16)	(16)	(16)	(16)	(16)	(16)	(16)	(16)	(16)	(16)
NV <sup>14</sup> .....	23	19	17	25	29	13	30	12	17	4	13	8	9	12	8	13
NH <sup>15</sup> .....	158	237	102	297	132	268	119	281	9	15	6	18	8	16	8	16
NJ <sup>14</sup> .....	44	36	30	50	39	41	44	36	23	17	23	17	24	16	22	17
NM <sup>14</sup> .....	46	24	42	28	47	23	45	25	23	19	21	21	21	21	26	16
NY <sup>15</sup> .....	97	52	94	56	92	56	92	56	26	35	26	35	25	36	27	34
NC <sup>15</sup> .....	102	18	82	38	84	36	74	46	44	6	38	12	40	10	37	13
ND <sup>14</sup> .....	55	51	42	64	45	61	45	61	21	32	24	29	27	26	32	21
OH <sup>14</sup> .....	62	37	58	40	60	39	59	40	17	16	15	18	15	18	14	19
OK <sup>14</sup> .....	76	25	69	32	70	31	68	32	34	14	34	14	30	17	33	15
OR <sup>14</sup> .....	36	24	34	26	31	29	32	28	21	9	18	12	17	13	19	11
PA <sup>14</sup> .....	103	100	103	100	103	100	104	99	23	27	23	27	23	26	23	27
RI <sup>15</sup> .....	85	15	77	21	80	20	83	17	29	21	38	12	38	12	41	9
SC <sup>14</sup> .....	103	20	96	27	92	32	87	37	39	6	36	10	36	10	35	11
SD <sup>15</sup> .....	16	54	13	57	22	48	24	46	9	26	10	25	11	24	15	20
TN <sup>14</sup> .....	60	37	62	37	61	38	59	40	22	11	23	10	23	10	22	11
TX <sup>14</sup> .....	114	36	98	52	94	56	93	57	26	5	25	6	25	6	23	8
UT <sup>14</sup> .....	17	58	14	61	27	48	28	47	5	24	6	23	8	21	7	22
VT <sup>15</sup> .....	65	83	72	78	74	75	74	76	13	17	18	12	19	11	16	14
VA <sup>14</sup> .....	65	34	65	33	64	35	59	39	32	8	31	8	30	10	30	10
WA <sup>14</sup> .....	54	44	53	45	61	37	63	35	26	23	27	22	25	24	24	25
WV <sup>14</sup> .....	87	13	73	27	78	22	81	19	31	3	30	4	27	7	29	5
WI <sup>14</sup> .....	59	40	52	47	54	45	56	43	19	14	19	14	20	11	20	13
WY <sup>14</sup> .....	25	38	18	46	20	44	23	41	11	19	11	19	11	19	11	19

<sup>1</sup> Status as of August 1983, except for KY, LA, MS, NJ, and VA which are as of Jan. 1984 and reflect elections held in 1983.  
<sup>2</sup> Excludes 1 Independent each for LA, TN, VA, and WY; 2 Independents for NH; 1 vacancy each for MS, NY, SC, and TN; 2 vacancies each for MA and VT; and 3 vacancies for NH.  
<sup>3</sup> Status as of Jan. 1985, except for NJ and VA which are as of Jan. 1986 and reflect elections held in 1985.  
<sup>4</sup> Excludes 1 Independent for RI; 2 Independents for VA; 5 Independents for AL; 1 Libertarian for AK; and 1 vacancy each for AL, NH, OH, RI, and SC.  
<sup>5</sup> Status as of Jan. 1, 1987, except for KY, LA, MS, NJ, and VA which are as of Jan. 1988 and reflect elections held in 1987.  
<sup>6</sup> Excludes 1 Independent each for VT and NJ; 2 Liberals for NY; 1 vacancy each for HI and KY; and 3 vacancies for LA.  
<sup>7</sup> Status as of Jan. 1989, except for NJ and VA which are as of Jan. 1990.  
<sup>8</sup> Excludes 1 Independent for AR; 2 Independents for VA; 1 Independent Democrat for MS; 1 vacancy each for CA, MN, MO and OK; 2 vacancies for LA; and 3 vacancies for AL.  
<sup>9</sup> Excludes 1 Independent for CA and 1 vacancy for SC.  
<sup>10</sup> Excludes 3 Independents for AL, and 1 vacancy each for MI, MN, and VA.  
<sup>11</sup> Excludes 1 Independent for CA; 1 vacancy each for CA, IN, OK, and PA; and 2 vacancies for WI.  
<sup>12</sup> Excludes 1 Independent for CA and 1 vacancy each for AL and NJ.  
<sup>13</sup> Members of both houses serve 4-year terms.  
<sup>14</sup> Upper House members serve 4-year terms and Lower House members serve 2-year terms.  
<sup>15</sup> Members of both houses serve 2-year terms.  
<sup>16</sup> Single chamber (unicameral body) of 49 members, elected without party designation.

Source: The Council of State Governments, Lexington, KY, 1982-1984, *Book of the States*, biennial; beginning 1986, *State Elective Officials and the Legislatures*, biennial. (Copyright.)

**No. 446. Political Party Control of State Legislatures, by Party: 1961 to 1990**

[As of beginning of year. Until 1972 there were two non-partisan legislatures in Minnesota and Nebraska. Since then only Nebraska has had a non-partisan legislature]

YEAR	LEGISLATURES UNDER—			YEAR	LEGISLATURES UNDER—			YEAR	LEGISLATURES UNDER—		
	Democrat- ic control	Split control or tie	Repub- lican control		Democrat- ic control	Split control or tie	Repub- lican control		Democrat- ic control	Split control or tie	Repub- lican control
1961...	27	6	15	1973...	27	6	16	1985...	27	11	11
1963...	25	7	16	1975...	37	7	5	1987...	28	12	9
1965...	32	10	6	1977...	36	8	5	1989 <sup>2</sup> ...	28	13	8
1967...	24	8	16	1979...	30	7	12	1990...	29	11	9
1969...	20	8	20	1981...	28	6	15				
1971...	23	9	16	1983 <sup>1</sup> ...	34	4	11				

<sup>1</sup> Two 1984 mid-term recall elections resulted in a change in control of the Michigan State senate. At the time of the 1984 election, therefore, Democrats controlled 33 legislatures. <sup>2</sup> A party change during the year by a Democratic representative broke the tie in the Indiana House of Representatives, giving the Republicans control of both chambers.

Source: National Conference of State Legislatures, Denver, CO, *State Legislatures*, May 1990.

**No. 447. Black Elected Officials, by Office, 1970 to 1990, and by Region and State, 1990**

[As of January 1990, no Black elected officials had been identified in Idaho, Montana, or North Dakota]

REGION, DIVISION, AND STATE	Total	U.S. and State legisla- tures	City and county of- fices <sup>2</sup>	Law enforce- ment <sup>3</sup>	Educa- tion <sup>4</sup>	REGION, DIVISION, AND STATE	Total	U.S. and State legisla- tures	City and county of- fices <sup>2</sup>	Law enforce- ment <sup>3</sup>	Educa- tion <sup>4</sup>
1970 (Feb.)	1,479	179	719	213	368	IA	14	1	6	1	6
1975 (Apr.)	3,522	299	1,885	387	951	MO	169	18	119	14	18
1976 (Apr.)	4,006	299	2,284	415	1,008	SD	3		3	-	-
1977 (July)	4,342	316	2,509	451	1,066	NE	4	1	1	-	2
1978 (July)	4,544	316	2,616	458	1,154	KS	23	4	9	2	8
1979 (July)	4,636	315	2,675	491	1,155	South S.A.	4,955	233	3,362	431	929
							2,070	124	1,493	112	341
1980 (July)	4,963	326	2,871	534	1,232	DE	22	3	13	1	5
1981 (July)	5,109	343	2,914	559	1,293	MD	118	28	70	16	4
1982 (July)	5,241	342	3,017	573	1,309	DC	235	1	226	-	8
1983 (July)	5,719	366	3,283	620	1,430	VA	149	11	127	11	-
1984 (Jan.)	5,865	396	3,367	657	1,445	WV	25	1	20	4	-
1985 (Jan.)	6,312	407	3,689	685	1,531	NC	453	17	324	28	84
1986 (Jan.)	6,384	410	3,800	676	1,498	SC	396	21	237	6	132
1987 (Jan.)	6,646	428	3,949	727	1,542	GA	495	31	352	23	89
1988 (Jan.)	6,793	424	4,089	738	1,542	FL	177	11	124	23	19
1989 (Jan.)	7,191	441	4,388	760	1,602	E.S.C.	1,593	63	1,126	169	235
						KY	70	2	53	5	10
1990 (Jan.)	7,335	440	4,481	769	1,645	TN	149	14	97	16	22
Northeast	725	77	279	101	268	AL	705	23	526	67	89
N.E.	119	24	66	3	26	MS	669	24	450	81	114
ME	2	-	2	-	-	W.S.C.	1,292	46	743	150	353
NH	2	-	-	-	-	AR	344	6	190	43	105
VT	2	-	-	-	-	LA	527	20	313	65	129
MA	36	6	19	1	10	OK	116	5	85	2	24
RI	11	6	4	-	1	TX	305	15	155	40	95
CT	66	8	41	2	15	West.	361	35	104	98	124
M.A.	606	53	213	98	242	Mt.	44	12	11	10	11
NY	263	25	52	48	138	WY	2	1	-	-	1
NJ	201	9	114	-	78	CO	14	4	3	5	2
PA	142	19	47	50	26	NM	6	1	3	2	1
Midwest	1,294	95	738	139	324	AZ	11	3	3	-	5
E.N.C.	1,069	70	595	117	287	UT	1	-	-	-	-
OH	209	14	123	27	45	NV	10	3	3	2	2
IN	68	7	48	4	9	Pac.	317	23	93	88	113
IL	461	25	286	24	126	WA	20	3	8	5	4
MI	309	19	129	58	103	OR	11	3	5	2	1
WI	22	5	9	4	4	CA	281	16	78	81	106
W.N.C.	225	25	141	22	37	AK	4	1	2	-	1
MN	12	1	3	5	3	HI	1	-	-	-	1

- Represents zero. <sup>1</sup> Includes elected State administrators. <sup>2</sup> County commissioners and councilmen, mayors, vice mayors, aldermen, regional officials, and other. <sup>3</sup> Judges, magistrates, constables, marshalls, sheriffs, justices of the peace, and other. <sup>4</sup> Members of State education agencies, college boards, school boards and other.

Source: Joint Center for Political Studies, Washington, DC, *Black Elected Officials: A National Roster*, annual. (Copyright.)

**No. 448. Hispanic Public Officials, by Office, 1984 to 1989, and by State, 1989**

[For States not shown, no Hispanic public officials had been identified]

REGION, DIVISION, AND STATE	Total	State execu- tives and legis- lators	County and munici- pal officials	Judicial and law enforce- ment	Educa- tion and school boards	REGION, DIVISION, AND STATE	Total	State execu- tives and legis- lators	County and munici- pal officials	Judicial and law enforce- ment	Educa- tion and school boards
1984 (July) . . . . .	3,063	110	1,276	495	1,173	South . . . . .	1,772	36	745	369	617
1985 (Sept.) . . . . .	3,147	119	1,316	517	1,185	S.A. . . . .	166	11	40	11	3
1986 (Sept.) . . . . .	3,202	122	1,352	530	1,188	DE . . . . .	2	-	2	-	-
1987 (Sept.) . . . . .	3,317	127	1,412	568	1,199	MD . . . . .	1	-	1	-	-
1988 (Sept.) . . . . .	3,380	124	1,425	574	1,228	SC . . . . .	1	-	1	-	-
1989 (Sept.) . . . . .	3,783	133	1,724	575	1,341	FL . . . . .	162	11	36	11	3
Northeast . . . . .	159	13	44	6	95	W.S.C. . . . .	1,706	25	705	358	614
N.E. . . . .	25	5	13	-	7	AR . . . . .	1	-	-	-	1
MA . . . . .	7	1	4	-	2	LA . . . . .	7	-	2	5	-
RI . . . . .	1	1	-	-	-	OK . . . . .	5	-	2	1	2
CT . . . . .	17	3	9	-	5	TX . . . . .	1,693	25	701	352	611
M.A. . . . .	134	8	31	6	88	West . . . . .	1,758	78	878	189	609
NY . . . . .	71	6	8	5	51	Mt. . . . .	1,147	68	637	131	310
NJ . . . . .	53	1	20	-	32	MT . . . . .	4	1	1	-	1
PA . . . . .	10	1	3	1	5	ID . . . . .	1	-	1	-	-
Midwest . . . . .	94	6	57	11	20	WY . . . . .	10	-	9	-	1
E.N.C. . . . .	73	4	43	9	17	CO . . . . .	208	11	141	5	51
OH . . . . .	8	-	4	2	2	NM . . . . .	1,647	45	354	82	165
IN . . . . .	9	1	6	1	1	AZ . . . . .	268	10	125	41	92
IL . . . . .	41	3	24	3	11	UT . . . . .	4	-	4	-	-
MI . . . . .	10	-	6	2	2	NV . . . . .	5	1	2	2	-
WI . . . . .	5	-	3	1	1	Pac . . . . .	1,611	10	241	58	299
W.N.C. . . . .	21	2	14	2	3	WA . . . . .	18	2	9	2	5
MN . . . . .	5	-	2	2	1	OR . . . . .	10	-	6	3	1
IA . . . . .	1	-	1	-	-	CA . . . . .	1,580	7	224	53	293
MO . . . . .	4	-	4	-	-	AK . . . . .	2	1	1	-	-
NE . . . . .	4	-	4	-	-	HI . . . . .	1	-	1	-	-
KS . . . . .	7	2	3	-	2						

- Represents zero. <sup>1</sup> Includes U.S. Representatives, not shown separately.

Source: National Association of Latino Elected and Appointed Officials, Washington, DC, *National Roster of Hispanic Elected Officials*, annual.

**No. 449. Women Holding State and Local Public Offices, by Office and State: 1985 to 1990**

[For data on women in U.S. Congress, see table 441]

STATE	State- wide execu- tive office, <sup>1,2</sup> 1990	State legisla- ture, 1990	County gov- erning boards, 1988	Mayors and municipal council members, 1985	STATE	State- wide execu- tive office, <sup>1,2</sup> 1990	State legisla- ture, 1990	County gov- erning boards, 1988	Mayors and municipal council members, 1985
U.S. . . . .	46	1,273	1,653	14,672	Missouri . . . . .	1	29	17	-
Alabama . . . . .	1	8	7	281	Montana . . . . .	2	27	18	110
Alaska . . . . .	-	12	17	233	Nebraska . . . . .	1	10	27	241
Arizona . . . . .	3	27	8	87	Nevada . . . . .	1	14	10	15
Arkansas . . . . .	2	10	71	365	New Hampshire . . . . .	-	136	8	113
California . . . . .	1	19	56	465	New Jersey . . . . .	-	13	15	451
Colorado . . . . .	2	29	18	315	New Mexico . . . . .	1	15	17	86
Connecticut . . . . .	2	41	(X)	240	New York . . . . .	-	23	131	797
Delaware . . . . .	1	10	2	57	North Carolina . . . . .	-	24	45	337
District of Columbia . . . . .	(X)	(X)	(X)	7	North Dakota . . . . .	2	24	11	174
Florida . . . . .	1	26	51	311	Ohio . . . . .	1	17	25	1,129
Georgia . . . . .	-	24	28	251	Oklahoma . . . . .	-	13	5	312
Hawaii . . . . .	-	18	8	3	Oregon . . . . .	2	18	20	344
Idaho . . . . .	1	31	14	141	Pennsylvania . . . . .	2	17	35	-
Illinois . . . . .	-	33	152	-	Rhode Island . . . . .	1	23	(X)	30
Indiana . . . . .	2	21	10	-	South Carolina . . . . .	-	15	36	184
Iowa . . . . .	2	25	35	732	South Dakota . . . . .	2	20	18	149
Kansas . . . . .	1	42	24	445	Tennessee . . . . .	-	13	117	144
Kentucky . . . . .	-	8	17	-	Texas . . . . .	1	19	30	786
Louisiana . . . . .	1	3	32	183	Utah . . . . .	-	12	2	137
Maine . . . . .	-	58	3	243	Vermont . . . . .	1	60	(X)	87
Maryland . . . . .	-	43	21	133	Virginia . . . . .	1	15	49	211
Massachusetts . . . . .	1	34	5	217	Washington . . . . .	1	43	15	341
Michigan . . . . .	1	22	123	2,779	West Virginia . . . . .	-	26	11	202
Minnesota . . . . .	2	37	37	542	Wisconsin . . . . .	-	34	241	-
Mississippi . . . . .	-	10	8	176	Wyoming . . . . .	2	22	5	86

- Represents zero. X Not applicable. <sup>1</sup> As of July. <sup>2</sup> Excludes women elected to the judiciary, women appointed to State cabinet-level positions, women elected to executive posts by the legislature, and elected members of university Board of Trustees or board of education.

Source: Center for the American Woman and Politics, Eagleton Institute of Politics, Rutgers University, New Brunswick, NJ, information releases.

# No. 450. Voting-Age Population, and Percent Reporting Registered and Voted: 1974 to 1988

[As of November. Covers civilian noninstitutional population 18 years old and over. Includes aliens. Figures are based on Current Population Survey (see text, section 1, and Appendix III) and differ from those in table 453 based on population estimates and official vote counts]

CHARACTERISTIC	VOTING-AGE POPULATION (mil.)							PERCENT REPORTING THEY REGISTERED							PERCENT REPORTING THEY VOTED									
	1974	1976	1978	1980	1982	1984	1986	Presidential election years				Congressional election years			Presidential election years				Congressional election years					
								1976	1980	1984	1988	1974	1978	1982	1986	1976	1980	1984	1988	1974	1978	1982	1986	
Total <sup>1</sup> .....	141.3	146.5	151.6	157.1	165.5	170.0	173.9	176.1	187.7	186.9	188.3	188.6	192.2	192.6	193.0	193.2	193.2	193.2	193.2	193.2	193.2	193.2	193.2	193.2
18-20 years old .....	11.6	12.1	12.2	12.3	12.1	11.2	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
21-24 years old .....	14.1	14.8	15.5	15.9	16.7	16.7	15.7	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
25-34 years old .....	29.3	31.7	33.4	35.7	38.8	40.3	41.9	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
35-44 years old .....	22.4	22.8	24.2	25.6	28.1	30.7	33.0	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
45-54 years old .....	43.0	43.3	43.4	43.6	44.2	44.3	44.8	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
55-64 years old .....	21.0	22.0	23.0	24.1	25.6	26.7	27.7	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
65 years old and over .....	66.4	69.0	71.5	74.1	76.0	80.3	82.4	84.5	87.1	86.6	87.3	85.2	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
Male .....	74.9	77.6	80.2	83.0	87.4	89.6	91.5	93.6	86.4	87.1	86.3	87.8	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
Female .....	125.1	129.3	133.4	137.7	143.6	146.8	149.9	152.9	152.9	152.9	152.9	152.9	152.9	152.9	152.9	152.9	152.9	152.9	152.9	152.9	152.9	152.9	152.9	152.9
White .....	14.2	14.9	15.6	16.4	17.6	18.4	19.0	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
Black .....	6.1	6.6	6.8	8.2	8.8	9.5	11.8	12.9	37.8	36.3	40.1	35.5	34.9	32.9	35.3	35.9	31.8	29.9	32.6	28.8	22.9	23.5	25.3	24.2
Hispanic <sup>2</sup> .....																								
Region: <sup>3</sup> .....																								
Northeast .....	33.3	33.9	35.1	35.5	36.4	36.9	37.3	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9
Midwest .....	38.1	39.2	40.3	41.5	41.9	42.1	42.8	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
South .....	44.8	47.1	48.8	50.6	55.4	57.6	59.2	60.7	64.6	64.8	66.9	65.6	59.8	60.1	61.7	63.0	54.9	55.6	56.8	54.5	38.0	39.6	41.8	44.0
West .....	25.0	26.2	27.5	29.5	31.9	33.4	34.6	36.2	63.2	63.3	64.7	63.0	59.8	59.1	60.6	60.8	57.5	57.2	58.5	55.6	48.1	47.5	50.7	48.4
School years completed:																								
8 years or less .....	24.4	24.9	23.6	22.7	22.4	20.6	19.6	19.1	54.4	53.0	53.4	47.5	54.1	53.2	52.3	50.5	44.1	42.6	42.9	36.7	34.4	34.6	35.7	32.7
High school:																								
1-3 years .....	21.7	22.2	22.3	22.5	22.3	22.1	21.4	21.1	55.6	54.6	54.9	52.8	54.3	52.9	53.3	52.4	47.2	45.6	44.4	41.3	35.9	35.1	37.7	33.8
4 years .....	51.7	55.7	58.4	61.2	65.2	67.8	68.6	70.0	66.9	66.4	67.3	64.6	61.9	62.0	62.9	62.9	59.4	58.9	58.7	54.7	44.7	45.3	47.1	44.1
College:																								
1-3 years .....	23.7	23.6	25.1	26.7	28.8	30.9	33.0	34.3	75.2	74.4	75.7	73.5	66.9	68.7	70.0	70.0	68.1	67.2	67.5	64.5	49.6	51.5	53.3	49.9
4 years or more .....	19.8	20.2	22.2	24.0	26.9	28.6	31.3	33.6	83.7	84.3	83.8	83.1	76.0	76.9	79.4	77.8	79.8	79.9	79.1	77.6	61.3	63.9	66.5	62.5
Employed .....	83.1	86.0	93.2	95.0	97.2	104.2	108.5	113.8	68.8	68.7	69.4	67.1	63.8	63.0	65.5	64.4	62.0	61.8	61.6	58.4	46.8	46.7	50.0	45.7
Unemployed .....	5.0	6.4	4.9	6.9	10.8	7.4	6.6	5.8	52.1	50.3	54.3	50.4	44.4	49.8	50.6	43.7	41.2	44.0	38.6	28.8	27.4	34.1	31.2	24.0
Not in labor force .....	53.2	54.1	53.5	55.2	57.5	58.4	58.8	58.5	65.2	65.8	68.1	67.2	61.3	63.4	64.3	65.4	56.5	57.0	56.9	57.3	43.0	46.2	48.7	48.2

<sup>1</sup> Includes other races not shown separately. <sup>2</sup> Hispanic persons may be of any race. <sup>3</sup> For composition of regions, see fig. 1, inside front cover.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 440 and earlier reports.



### No. 451. Voter Registration—Registered Voters, 1980 to 1988, and Registration Deadlines and Residency Requirements, 1988

[Registration figures are based on final and official registration statistics provided by Secretaries of State and State Registrars. The accuracy of registration figures varies according to the stringency of purges conducted in each State and locality. There is, therefore, some inflation in these figures, although the trends between years are likely to be accurate]

STATE	1980		1984		Registration deadline <sup>1</sup> (days)	Residency requirement <sup>2</sup> (days)	1988				Votes cast	
	Registered voters (1,000)	Percent registered of voting age population	Registered voters (1,000)	Percent registered of voting age population			Registered voters			Number (1,000)	Percent of registered voters	
							Total <sup>3</sup>	Percent of total registered				
								Number (1,000)	Percent of voting-age population			Democrats
U.S. . . . .	<sup>4</sup> 114,802	<sup>6</sup> 69.8	<sup>4</sup> 126,997	<sup>7</sup> 72.8	(X)	(X)	<sup>4</sup> 129,800	<sup>4</sup> 71.1	(NA)	(NA)	91,595	70.6
AL. . . . .	2,132	77.4	2,343	81.0	10	( <sup>5</sup> )	2,380	79.1	(NA)	(NA)	1,378	57.9
AK. . . . .	259	94.0	305	87.7	30	30	294	76.3	20.5	20.7	200	68.1
AZ. . . . .	1,121	57.1	1,463	64.8	50	50	1,798	69.0	42.7	45.7	1,172	65.2
AR. . . . .	1,186	72.9	1,268	74.4	20	( <sup>5</sup> )	1,203	68.3	(NA)	(NA)	828	68.8
CA. . . . .	11,361	64.8	13,074	68.5	29	29	14,005	67.1	50.4	38.6	9,887	70.6
CO. . . . .	1,434	67.6	1,621	69.1	25	32	2,030	81.5	30.5	32.9	1,372	67.6
CT. . . . .	1,706	74.1	1,806	75.0	21	( <sup>5</sup> )	1,784	71.6	39.1	27.1	1,443	80.9
DE. . . . .	301	69.7	314	68.6	( <sup>5</sup> )	( <sup>5</sup> )	318	65.0	43.6	36.1	250	78.5
DC. . . . .	289	58.5	275	56.3	30	( <sup>5</sup> )	300	61.3	79.3	8.8	193	64.3
FL. . . . .	4,810	63.6	5,574	64.6	30	( <sup>5</sup> )	6,047	62.9	54.0	39.0	4,302	71.1
GA. . . . .	2,377	61.4	2,732	64.6	30	( <sup>5</sup> )	2,941	63.1	(NA)	(NA)	1,810	61.5
HI. . . . .	403	57.9	419	55.3	30	( <sup>5</sup> )	444	53.9	(NA)	(NA)	354	79.9
ID. . . . .	581	90.1	582	84.5	10	30	572	81.7	(NA)	(NA)	409	71.4
IL. . . . .	6,230	75.7	6,470	76.7	28	30	6,357	74.4	(NA)	(NA)	4,559	71.7
IN. . . . .	2,944	75.7	3,054	76.4	29	30	2,866	70.5	(NA)	(NA)	2,169	75.7
IA. . . . .	1,717	81.9	1,729	81.5	10	( <sup>5</sup> )	1,690	81.7	38.1	31.1	1,226	72.5
KS. . . . .	1,291	74.7	1,291	72.1	20	( <sup>5</sup> )	1,266	69.2	28.5	41.3	993	78.4
KY. . . . .	1,759	67.8	2,023	75.0	30	30	2,026	73.8	67.2	29.4	1,323	65.3
LA. . . . .	2,015	69.1	2,262	72.4	24	( <sup>5</sup> )	2,228	70.2	75.2	16.4	1,628	73.1
ME. . . . .	760	93.8	811	94.7	( <sup>5</sup> )	( <sup>5</sup> )	855	95.7	(NA)	(NA)	555	64.9
MD. . . . .	2,065	67.0	2,253	69.1	29	( <sup>5</sup> )	2,310	66.2	64.2	27.6	1,714	74.2
MA. . . . .	3,153	73.7	3,254	73.0	28	( <sup>5</sup> )	3,275	72.2	(NA)	(NA)	2,633	80.4
MI. . . . .	5,726	87.7	5,889	89.4	30	30	5,953	87.7	(NA)	(NA)	3,669	61.6
MN. . . . .	2,353	80.3	2,893	94.9	( <sup>5</sup> )	20	2,917	92.3	(NA)	(NA)	2,097	71.9
MS. . . . .	1,482	86.1	1,670	92.6	30	30	1,596	85.5	(NA)	(NA)	932	58.4
MO. . . . .	2,841	79.5	2,969	80.3	20	( <sup>5</sup> )	2,942	77.0	(NA)	(NA)	2,094	71.2
MT. . . . .	496	88.7	527	89.6	30	30	506	86.3	(NA)	(NA)	366	72.3
NE. . . . .	856	75.8	903	77.2	( <sup>5</sup> )	( <sup>5</sup> )	899	77.0	42.1	50.7	661	73.6
NV. . . . .	297	49.4	356	52.0	30	30	445	57.0	47.0	42.4	350	78.7
NH. . . . .	523	77.9	544	74.1	10	10	650	79.0	30.4	38.9	451	69.3
NJ. . . . .	3,766	69.5	4,073	71.3	29	30	4,011	67.5	(NA)	(NA)	3,100	77.3
NM. . . . .	653	72.6	651	65.4	28	( <sup>5</sup> )	675	61.3	58.5	35.4	521	77.3
NY. . . . .	7,898	61.1	9,044	67.7	30	30	8,612	63.9	(NA)	(NA)	6,486	75.3
NC. . . . .	2,775	65.0	3,271	71.1	10 <sup>11</sup>	30	3,432	69.9	(NA)	(NA)	2,134	62.2
ND. . . . .	( <sup>12</sup> )	( <sup>12</sup> )	( <sup>12</sup> )	( <sup>12</sup> )	( <sup>12</sup> )	30	( <sup>12</sup> )	( <sup>12</sup> )	( <sup>12</sup> )	( <sup>12</sup> )	297	(X)
OH. . . . .	5,887	76.1	6,358	80.9	29	30	6,323	79.3	(NA)	(NA)	4,394	69.5
OK. . . . .	1,458	66.2	1,950	81.2	10	( <sup>5</sup> )	2,199	91.5	65.3	32.1	1,171	53.3
OR. . . . .	1,569	81.4	1,609	80.8	21	20	1,524	74.3	48.3	38.7	1,202	78.8
PA. . . . .	5,754	65.5	6,194	68.9	30	30	5,876	64.9	52.2	42.9	4,536	77.2
RI. . . . .	531	74.9	542	73.5	30	30	549	71.8	(NA)	(NA)	405	73.7
SC. . . . .	1,236	55.8	1,396	58.4	30	30	1,438	56.7	(NA)	(NA)	986	68.6
SD. . . . .	448	91.9	443	87.9	15	( <sup>5</sup> )	440	86.5	42.6	49.2	313	71.1
TN. . . . .	2,149	64.6	2,580	73.9	29	20	2,417	66.0	(NA)	(NA)	1,636	67.7
TX. . . . .	6,640	65.6	7,900	69.2	30	30	8,202	66.8	(NA)	(NA)	5,427	66.2
UT. . . . .	782	83.3	840	82.1	20	30	807	74.9	(NA)	(NA)	647	80.2
VT. . . . .	312	84.3	322	82.2	17	( <sup>5</sup> )	348	84.5	(NA)	(NA)	243	69.9
VA. . . . .	2,302	58.7	2,552	60.2	31	( <sup>5</sup> )	2,877	63.3	(NA)	(NA)	2,192	76.2
WA. . . . .	2,182	71.9	2,458	76.1	30	30	2,499	73.1	(NA)	(NA)	1,865	74.6
WV. . . . .	1,035	74.0	1,025	71.6	30	30	969	69.3	66.1	31.3	653	67.5
WI. . . . .	( <sup>12</sup> )	( <sup>12</sup> )	( <sup>12</sup> )	( <sup>12</sup> )	( <sup>12</sup> )	10	( <sup>12</sup> )	( <sup>12</sup> )	( <sup>12</sup> )	( <sup>12</sup> )	2,192	(X)
WY. . . . .	219	66.1	240	67.8	30	( <sup>5</sup> )	226	64.4	35.8	54.9	177	78.1

NA Not available. X Not applicable. <sup>1</sup> Number of days prior to a general election by which a prospective voter must register with State or local election officials. <sup>2</sup> Number of days a prospective voter must reside in a State to vote in a general election. <sup>3</sup> Includes voters registered with other parties and with no party (independents), not shown separately. <sup>4</sup> Estimate based on actual registration statistics from the States which keep registration records. Percentages are the actual percentages of the voting age population who registered in the States, for which actual registration figures are available. The estimates are derived from applying that percentage to the national voting age population figure. <sup>5</sup> No residency requirements. <sup>6</sup> No durational requirement. To varying degrees, States without durational residency requirements may call for proof of residency or sworn certification of resident status; enforcement of such residency certification often left to discretion of local registration officials. <sup>7</sup> Third Saturday in October. <sup>8</sup> Election day. <sup>9</sup> Second Friday before election day. <sup>10</sup> Business days. <sup>11</sup> North Dakota does not require registration. <sup>12</sup> Wisconsin does not keep statewide registration statistics.

Source: Committee for the Study of the American Electorate, Washington, DC, *Non-Voter Study*, '80-'81, '84-'85, and '88-'89.

### No. 452. Political Party Identification of the Adult Population, by Degree of Attachment, 1960 to 1988, and by Selected Characteristics, 1988

[In percent. Covers citizens of voting-age living in private housing units in the contiguous U.S. Data are from the National Election Studies and are based on a sample (for 1988, 2,040 respondents) and subject to sampling variability; for details, see source]

YEAR AND SELECTED CHARACTERISTIC	Total	Strong Democrat	Weak Democrat	Independent Democrat	Independent	Independent Republican	Weak Republican	Strong Republican	Apolitical
1960.....	100	20	25	6	10	7	14	16	3
1964.....	100	27	25	9	8	6	14	11	1
1968.....	100	20	25	10	11	9	15	10	1
1970.....	100	20	24	10	13	8	15	9	1
1972.....	100	15	26	11	13	10	13	10	1
1976.....	100	15	25	12	15	10	14	9	1
1980.....	100	18	23	11	13	12	14	9	2
1984.....	100	17	20	11	11	12	15	12	2
1988.....	100	18	22	10	12	11	15	10	2
<b>1988, total</b> <sup>1</sup> .....	<b>100</b>	<b>18</b>	<b>18</b>	<b>12</b>	<b>11</b>	<b>13</b>	<b>14</b>	<b>14</b>	<b>2</b>
Year of birth:									
1959 or later (Under 30 years old) ..	100	13	15	16	14	15	16	11	2
1943 to 1958 (30-45 years old) ..	100	14	19	12	13	15	12	14	1
1927 to 1942 (46-61 years old) ..	100	22	18	12	7	13	14	14	1
1911 to 1926 (62-77 years old) ..	100	23	18	9	7	9	15	17	2
1895 to 1910 (78-93 years old) ..	100	26	18	4	9	10	20	12	3
Sex:									
Male.....	100	14	15	13	11	17	14	15	2
Female.....	100	20	20	11	10	11	14	13	2
Race:									
White.....	100	14	16	10	12	15	15	16	1
Black.....	100	39	24	18	6	5	5	2	3
Education:									
Grade school.....	100	28	21	7	14	9	12	5	5
High school.....	100	18	19	13	13	13	12	11	2
College.....	100	15	16	12	8	15	16	19	(Z)

Z Less than .5 percent. <sup>1</sup> Includes other characteristics, not shown separately.

Source: Center for Political Studies, University of Michigan, Ann Arbor, MI, unpublished data. Data prior to 1988 published in Warren E. Miller and Santa A. Traugott, *American National Election Studies Data Sourcebook, 1952-1986*, Harvard University Press, Cambridge, MA, 1989 (copyright).

### No. 453. Participation in Elections for President and U.S. Representatives: 1932 to 1988

[As of November. Estimated resident population 21 years old and over, 1932-1970, except as noted, and 18 years old and over thereafter; includes Armed Forces. Prior to 1960, excludes Alaska and Hawaii. District of Columbia is included in votes cast for President beginning 1964 and in votes cast for Representative beginning 1972]

YEAR	Resident population (incl. aliens) of voting age (1,000)	VOTES CAST				YEAR	Resident population (incl. aliens) of voting age (1,000)	VOTES CAST			
		For Presi- dent <sup>2</sup> (1,000)	Per- cent of vot- ing- age popu- lation	For U.S. Repre- senta- tives (1,000)	Per- cent of vot- ing- age popu- lation			For Presi- dent <sup>2</sup> (1,000)	Per- cent of vot- ing- age popu- lation	For U.S. Repre- senta- tives (1,000)	Per- cent of vot- ing- age popu- lation
1932.....	75,768	39,758	52.5	37,657	49.7	1962.....	112,952	(X)	(X)	51,267	45.4
1934.....	77,997	(X)	(X)	32,256	41.4	1964.....	114,090	70,645	61.9	65,895	57.8
1936.....	80,174	45,654	56.9	42,886	53.5	1966.....	116,638	(X)	(X)	62,908	45.4
1938.....	82,354	(X)	(X)	36,236	44.0	1968.....	120,285	73,212	60.9	66,288	55.1
1940.....	84,728	49,900	58.9	46,951	55.4	1970.....	124,498	(X)	(X)	64,173	43.5
1942.....	86,465	(X)	(X)	28,074	32.5	1972.....	140,777	77,719	55.2	71,430	50.7
1944.....	85,654	47,977	56.0	45,103	52.7	1974.....	146,338	(X)	(X)	52,495	35.9
1946.....	92,659	(X)	(X)	34,398	37.1	1976.....	152,308	81,556	53.5	74,422	48.9
1948.....	95,573	48,794	51.1	45,933	48.1	1978.....	158,369	(X)	(X)	55,332	34.9
1950.....	98,134	(X)	(X)	40,342	41.1	1980.....	164,595	86,515	52.6	77,995	47.4
1952.....	99,929	61,551	61.6	57,571	57.6	1982.....	169,936	(X)	(X)	64,514	38.0
1954.....	102,075	(X)	(X)	42,580	41.7	1984.....	174,468	92,653	53.1	83,231	47.7
1956.....	104,515	62,027	59.3	58,426	55.9	1986.....	178,566	(X)	(X)	59,619	33.4
1958.....	106,447	(X)	(X)	45,818	43.0	1988.....	182,779	91,595	50.1	81,786	44.7
1960.....	109,672	68,838	62.8	64,133	58.5						

X Not applicable. <sup>1</sup> Population 18 and over in Georgia, 1944-1970, and in Kentucky, 1956-1970; 19 and over in Alaska and 20 and over in Hawaii, 1960-1970. <sup>2</sup> Source: 1932-1958, U.S. Congress, Clerk of the House, *Statistics of the Presidential and Congressional Election*, biennial.

Source: Except as noted, U.S. Bureau of the Census, *Current Population Reports*, series P-25, No. 1059; and Elections Research Center, Washington, DC, *America Votes*, biennial (copyright).

**No. 454. Resident Population of Voting-Age and Percent Casting Votes—States: 1960 to 1990**

(As of November. Estimated population, 18 years old and over. Includes Armed Forces stationed in each State, aliens, and institutional population)

REGION, DIVISION, AND STATE	VOTING AGE POPULATION (1,000)						PERCENT CASTING VOTES FOR PRESIDENTIAL ELECTORS			PERCENT CASTING VOTES FOR U.S. REPRESENTATIVES				
	1980	1982	1984	1986	1988	1990, proj. <sup>1</sup>		1980	1984	1988	1982	1984	1986	1988
						Total	Per- cent Black							
U.S. . . .	164,595	169,936	174,468	178,566	182,779	186,382	11.3	52.6	53.1	50.1	38.0	47.7	33.4	44.7
Northeast . . . .	36,287	36,943	37,582	38,064	38,590	38,893	10.3	52.9	54.5	51.4	39.6	51.0	32.6	46.1
N.E. . . . .	9,144	9,342	9,567	9,748	9,950	10,104	4.1	59.8	58.7	57.6	44.7	55.5	37.4	53.5
ME . . . . .	811	831	855	875	908	931	0.3	64.5	64.7	61.1	54.4	63.4	48.2	61.1
NH . . . . .	672	698	732	775	817	861	0.6	57.1	53.1	55.2	38.5	51.0	31.1	52.5
VT . . . . .	370	382	392	403	420	428	0.4	57.7	59.9	57.9	43.2	57.7	46.9	57.1
MA . . . . .	4,278	4,354	4,447	4,502	4,565	4,598	4.3	59.0	57.5	57.7	43.4	52.8	33.4	51.9
RI . . . . .	710	721	735	751	765	771	3.3	58.6	55.8	52.9	46.2	53.1	40.7	51.1
CT . . . . .	2,304	2,356	2,405	2,442	2,476	2,516	7.2	61.0	61.0	58.3	45.4	59.5	40.1	54.2
M.A. . . . .	27,143	27,601	28,015	28,315	28,640	28,789	12.5	50.6	53.1	49.3	37.9	49.5	31.0	43.6
NY . . . . .	12,933	13,129	13,331	13,447	13,574	13,582	14.9	48.0	51.1	47.8	35.7	46.6	29.0	40.6
NJ . . . . .	5,422	5,562	5,695	5,811	5,894	5,986	13.1	54.9	56.5	52.6	38.6	52.5	26.7	47.1
PA . . . . .	8,787	8,910	8,989	9,057	9,171	9,221	8.7	51.9	53.9	49.5	40.7	51.8	36.5	45.8
Midwest . . . .	42,194	42,728	43,240	43,704	44,403	44,736	9.1	59.7	58.8	55.5	44.7	55.9	38.9	53.0
E.N.C. . . . .	29,766	30,058	30,373	30,723	31,204	31,453	11.1	58.7	58.0	54.4	43.2	54.7	36.9	51.6
OH . . . . .	7,744	7,816	7,875	7,948	8,059	8,119	10.2	55.3	57.8	54.5	42.6	55.0	38.8	51.6
IN . . . . .	3,892	3,942	3,995	4,040	4,111	4,164	7.6	57.6	55.9	52.8	45.6	54.6	38.5	51.6
IL . . . . .	8,235	8,354	8,448	8,517	8,636	8,682	14.5	57.7	57.0	52.8	43.2	54.2	35.4	50.3
MI . . . . .	6,520	6,509	6,568	6,699	6,805	6,870	13.5	60.0	57.9	53.9	43.1	52.6	34.7	50.8
WI . . . . .	3,375	3,437	3,487	3,522	3,593	3,617	4.1	67.4	63.4	61.0	42.2	59.5	39.3	56.6
W.N.C. . . . .	12,428	12,670	12,867	12,981	13,199	13,283	4.5	62.1	60.8	58.2	48.1	58.7	43.4	56.3
MN . . . . .	2,933	3,004	3,057	3,115	3,201	3,249	1.4	70.0	68.2	65.5	58.3	64.6	44.7	61.5
IA . . . . .	2,099	2,117	2,125	2,105	2,125	2,100	1.7	62.8	62.1	57.7	47.5	59.7	42.3	56.0
MO . . . . .	3,578	3,637	3,709	3,772	3,840	3,893	9.8	58.7	57.2	54.5	42.0	55.0	37.9	53.9
ND . . . . .	467	484	484	488	484	478	0.6	64.6	62.6	61.4	53.8	62.6	58.6	62.0
SD . . . . .	488	499	509	511	518	518	0.4	67.1	62.5	60.4	55.2	62.1	56.8	60.2
NE . . . . .	1,133	1,157	1,174	1,171	1,183	1,181	3.0	56.6	55.5	55.9	44.9	55.4	47.4	55.5
KS . . . . .	1,730	1,773	1,800	1,818	1,848	1,864	5.3	56.6	56.8	53.7	42.7	55.2	43.3	50.4
South. . . .	54,558	57,184	59,257	61,004	62,470	64,272	17.1	47.3	48.7	45.7	29.4	38.7	27.0	36.8
S.A. . . . .	27,273	28,502	29,710	30,896	32,069	33,417	18.9	46.2	47.5	44.4	29.4	38.7	28.8	37.8
DE . . . . .	432	444	459	477	498	514	16.7	54.7	55.6	50.2	42.4	52.9	33.8	47.2
MD . . . . .	3,080	3,165	3,259	3,372	3,498	3,622	24.4	50.0	51.4	49.0	34.5	45.9	31.5	44.6
DC . . . . .	495	492	480	486	472	477	64.9	35.4	43.1	40.9	22.9	33.1	26.1	36.2
VA . . . . .	3,930	4,077	4,234	4,392	4,568	4,755	17.8	47.5	50.7	48.0	32.8	43.4	23.7	41.4
WV . . . . .	1,400	1,422	1,424	1,412	1,398	1,380	2.9	52.7	51.7	46.7	38.4	49.4	28.0	40.7
NC . . . . .	4,274	4,421	4,586	4,731	4,880	5,071	20.2	43.4	47.4	43.7	29.9	47.1	33.2	40.7
SC . . . . .	2,215	2,305	2,382	2,458	2,531	2,621	27.5	40.4	40.7	39.0	28.5	39.0	29.2	39.2
GA . . . . .	3,870	4,038	4,224	4,421	4,593	4,827	24.5	41.3	42.0	39.4	22.4	36.0	24.0	36.4
FL . . . . .	7,578	8,138	8,651	9,146	9,632	10,150	11.9	48.7	48.3	44.7	27.2	28.2	23.4	31.6
E.S.C. . . . .	10,399	10,662	10,879	11,065	11,254	11,488	17.9	49.5	50.2	46.8	32.6	41.5	30.5	41.0
KY . . . . .	2,596	2,656	2,695	2,720	2,752	2,778	6.9	49.9	50.8	48.1	26.4	44.1	23.2	40.2
TN . . . . .	3,323	3,408	3,489	3,569	3,660	3,773	14.7	48.7	49.1	44.7	34.5	37.7	31.0	38.5
AL . . . . .	2,757	2,827	2,892	2,947	2,997	3,060	23.2	48.7	49.9	46.0	34.0	39.7	37.9	39.3
MS . . . . .	1,723	1,771	1,803	1,827	1,845	1,877	31.7	51.8	52.2	50.5	36.2	48.2	28.7	49.8
W.S.C. . . . .	16,884	18,021	18,668	19,044	19,148	19,366	13.6	47.8	49.5	47.3	27.6	36.9	25.2	32.6
AR . . . . .	1,628	1,667	1,707	1,732	1,750	1,780	13.6	51.5	51.8	47.3	45.5	27.1	38.5	34.6
LA . . . . .	2,919	3,063	3,131	3,153	3,112	3,093	28.0	53.0	54.5	52.3	21.6	27.5	12.4	36.6
OK . . . . .	2,207	2,367	2,410	2,396	2,366	2,337	6.1	52.1	52.1	49.5	36.2	46.1	20.3	32.4
TX . . . . .	10,130	10,924	11,420	11,764	11,919	12,156	11.4	44.8	47.3	45.5	26.1	41.0	25.6	39.2
West . . . .	31,558	33,081	34,389	35,795	37,316	38,482	5.3	51.7	52.0	49.6	42.2	49.4	38.5	46.8
Mt. . . . .	8,067	8,548	8,920	9,280	9,548	9,829	2.5	53.9	53.1	52.5	41.8	50.8	40.5	50.2
MT . . . . .	580	579	591	587	586	581	0.2	65.0	65.0	62.4	54.7	62.8	54.2	62.3
ID . . . . .	646	668	687	693	703	710	0.5	67.7	59.8	58.2	48.1	59.0	54.3	57.9
WY . . . . .	332	355	355	349	339	329	0.8	53.2	53.2	52.1	44.9	53.0	45.8	52.5
CO . . . . .	2,123	2,264	2,350	2,407	2,440	2,475	3.7	55.8	55.1	56.2	41.8	53.1	42.3	53.9
NM . . . . .	900	955	1,001	1,041	1,065	1,091	1.6	50.8	51.3	48.9	41.4	50.0	37.1	42.2
AZ . . . . .	1,970	2,092	2,226	2,400	2,543	2,702	2.4	44.4	46.1	46.1	34.0	42.4	33.5	44.2
UT . . . . .	935	984	1,021	1,048	1,067	1,084	0.7	64.6	61.7	60.6	49.8	58.9	40.9	57.1
NV . . . . .	602	651	688	734	804	858	6.0	41.2	41.7	43.5	36.0	39.4	35.0	42.8
Pac. . . . .	23,491	24,533	25,469	26,536	27,768	28,652	6.3	51.0	51.7	48.6	42.3	48.9	37.8	45.6
WA . . . . .	3,040	3,145	3,226	3,329	3,491	3,597	2.3	57.3	58.4	53.4	41.6	56.0	38.9	49.6
OR . . . . .	1,929	1,959	1,984	2,022	2,086	2,128	1.5	61.2	61.8	57.3	51.8	60.6	51.0	48.9
CA . . . . .	17,548	18,387	19,152	20,043	21,008	21,709	7.7	48.9	49.6	47.1	41.3	46.8	35.9	44.7
AK . . . . .	277	314	350	358	359	365	3.5	57.3	59.4	55.7	57.7	58.9	50.3	53.8
HI . . . . .	697	728	757	784	815	854	1.8	43.5	44.4	43.5	40.9	36.5	42.2	41.7

<sup>1</sup> Series A<sub>3</sub> projections; see table 29 and text, section 1. <sup>2</sup> State law does not require tabulation of votes for unopposed candidates. See footnote 9, table 433.Source: Compiled by U.S. Bureau of the Census. Population data from U.S. Bureau of the Census, *Current Population Reports*, series P-25, No. 1059; votes cast from Elections Research Center, Washington DC, *America Votes*, biennial (copyright).

### No. 455. Presidential Primaries—Votes Cast and Percent of Voting-Age Population Casting Votes, by Party: 1988

[Presidential primaries were not held in AK, AZ, CO, DE, HI, IA, KS, ME, MI, MN, NV, UT, WA, and WY]

STATE	Voting age population (VAP) (1,000)	VOTES CAST IN DEMOCRATIC PRIMARY		VOTES CAST IN REPUBLICAN PRIMARY		STATE	Voting age population (VAP) (1,000)	VOTES CAST IN DEMOCRATIC PRIMARY		VOTES CAST IN REPUBLICAN PRIMARY	
		Total (1,000)	Percent of VAP	Total (1,000)	Percent of VAP			Total (1,000)	Percent of VAP	Total (1,000)	Percent of VAP
AL	2,997	406	13.5	214	7.1	NJ	5,894	654	11.1	241	4.1
AR	1,750	498	28.5	68	3.9	NM	1,065	189	17.7	89	8.4
CA	21,006	3,139	14.9	2,240	10.7	NY	13,574	1,575	11.6	( <sup>1</sup> )	( <sup>1</sup> )
CT	2,476	241	9.7	104	4.2	NC	4,880	680	13.9	274	5.6
DC	472	86	18.2	7	1.5	ND	484	3	0.6	39	8.1
FL	9,632	1,273	13.2	901	9.4	OH	8,059	1,384	17.2	795	9.9
GA	4,593	623	13.6	401	8.7	OK	2,366	393	16.6	209	8.8
ID	703	51	7.3	68	9.7	OR	2,096	389	18.6	274	13.1
IL	8,636	1,501	17.4	859	9.9	PA	9,171	1,508	16.4	871	9.5
IN	4,111	646	15.7	438	10.7	RI	765	49	6.4	16	2.1
IA	2,752	319	11.6	121	4.4	SC	2,531	( <sup>1</sup> )	( <sup>1</sup> )	195	7.7
KY	3,112	624	20.1	145	4.7	SD	518	72	13.9	93	18.0
MD	3,498	531	15.2	201	5.7	TN	3,660	576	15.7	254	6.9
MA	4,565	713	15.6	241	5.3	TX	11,919	1,767	14.8	1,015	8.5
MS	1,845	359	19.5	159	8.6	VT	420	51	12.1	48	11.4
MO	3,840	528	13.8	400	10.4	VA	4,568	365	8.0	234	5.1
MT	586	122	20.8	86	14.7	WV	1,398	340	24.3	143	10.2
NE	1,183	169	14.3	204	17.2	WI	3,593	1,015	28.2	359	10.0
NH	817	124	15.2	158	19.3						

<sup>1</sup> No primary held.

Source: Committee for the Study of the American Electorate, Washington, DC, *Non-Voter Study, '88-'89*.

### No. 456. Political Party Financial Activity, by Major Political Party: 1979 to 1988

[In millions of dollars. Covers financial activity during 2 year calendar period indicated. Some political party financial activities, such as building funds and state and local election spending, are not reported to the source. Also excludes contributions earmarked to federal candidates through the party organizations, since some of those funds never passed through the committees' accounts]

YEAR AND TYPE OF COMMITTEE	DEMOCRATIC				REPUBLICAN			
	Receipts, net <sup>1</sup>	Disbursements, net <sup>1</sup>	Contributions to candidates	Monies spent on behalf of party's nominees <sup>2</sup>	Receipts, net <sup>1</sup>	Disbursements, net <sup>1</sup>	Contributions to candidates	Monies spent on behalf of party's nominees <sup>2</sup>
<b>1979-1980, total</b>	<b>37.2</b>	<b>35.0</b>	<b>1.7</b>	<b>4.9</b>	<b>169.5</b>	<b>161.8</b>	<b>4.5</b>	<b>12.4</b>
National committee	15.1	14.8	(Z)	3.9	76.2	73.2	0.8	5.4
Senatorial committee	1.7	1.6	0.5	0.6	23.3	21.2	0.4	5
Congressional committee	2.1	2.0	0.6	(Z)	28.6	26.1	2.0	1.2
Conventions, other national	9.2	7.8	(Z)	-	7.6	8.7	0.5	-
State and local	9.1	8.8	0.4	0.4	33.8	32.5	0.8	0.8
<b>1981-1982, total</b>	<b>39.3</b>	<b>40.1</b>	<b>1.7</b>	<b>3.3</b>	<b>215.0</b>	<b>214.0</b>	<b>5.6</b>	<b>14.3</b>
National committee	16.4	16.5	0.1	0.1	83.5	84.3	1.7	0.2
Senatorial committee	5.6	5.6	0.5	1.9	48.9	47.7	0.6	8.7
Congressional committee	6.5	6.5	0.6	0.2	58.0	57.0	2.6	4.9
Conventions, other national	3.1	3.9	-	-	0.6	0.9	(Z)	-
State and local	7.6	7.7	0.5	1.1	24.0	24.1	0.8	0.4
<b>1983-1984, total</b>	<b>98.5</b>	<b>97.4</b>	<b>2.6</b>	<b>9.0</b>	<b>297.9</b>	<b>300.8</b>	<b>4.9</b>	<b>20.1</b>
National committee	46.6	46.6	0.9	2.7	105.9	104.6	0.8	6.8
Senatorial committee	8.9	8.7	0.4	3.9	81.7	83.6	0.6	6.7
Congressional committee	10.4	10.2	0.8	1.1	58.3	61.7	2.6	6.3
Conventions, other national	14.0	13.7	-	-	8.9	8.9	-	-
State and local	18.5	18.2	0.5	1.3	43.1	41.9	0.9	0.3
<b>1985-1986, total</b>	<b>64.8</b>	<b>65.9</b>	<b>1.7</b>	<b>9.0</b>	<b>255.2</b>	<b>258.9</b>	<b>3.4</b>	<b>14.3</b>
National committee	17.2	17.4	(Z)	0.3	83.8	86.7	0.4	(Z)
Senatorial committee	13.4	13.5	0.6	6.1	84.4	83.7	0.6	10.0
Congressional committee	12.3	12.6	0.6	1.5	39.8	40.8	1.7	4.1
Conventions, other national	7.9	8.1	(Z)	-	0.2	0.2	-	-
State and local	14.0	14.3	0.5	1.0	47.0	47.4	0.8	0.3
<b>1987-1988, total</b>	<b>135.2</b>	<b>129.1</b>	<b>1.8</b>	<b>17.9</b>	<b>267.1</b>	<b>261.0</b>	<b>3.4</b>	<b>22.7</b>
National committee	52.3	47.0	0.1	8.1	91.0	89.9	0.3	8.3
Senatorial committee	16.3	16.3	0.4	6.2	65.9	63.3	0.8	10.2
Congressional committee	12.5	12.5	0.7	2.4	34.7	33.7	1.6	4.1
Conventions, other national	19.2	19.2	-	-	9.6	9.6	-	-
State and local	35.0	34.1	0.6	1.2	65.9	64.5	0.7	0.1

- Represents zero. Z Less than \$50,000. <sup>1</sup> Excludes monies transferred between affiliated committees. <sup>2</sup> Monies spent in the general election.

Source: U.S. Federal Election Commission, *FEC Reports on Financial Activity, Final Report, Party and Non-Party Political Committees*, biennial.

# Independent Campaign Expenditures—Political Action Committees 273

## No. 457. Independent Expenditures for Presidential and Congressional Campaigns: 1979-1980 to 1987-1988

[In thousands of dollars. Covers campaign finance activity during 2 year calendar period indicated. An "independent expenditure" is money spent to support or defeat a clearly identified candidate. According to Federal election law, such an expenditure must be made without cooperation or consultation with the candidate or his/her campaign. Independent expenditures are not limited as are contributions]

TYPE OF OFFICE AND YEAR	ALL PARTIES			DEMOCRATS		REPUBLICANS		OTHERS	
	Total	For	Against	For	Against	For	Against	For	Against
<b>TOTAL</b>									
1979-1980	16,084	13,893	2,191	441	2,057	13,180	123	272	11
1981-1982	7,282	2,135	5,147	1,252	4,597	883	550	-	-
1983-1984	23,420	19,951	3,468	1,693	1,016	18,257	2,453	1	-
1985-1986	10,205	8,832	1,373	3,450	888	5,376	485	6	-
1987-1988	21,341	16,654	4,687	2,865	4,248	13,784	439	6	-
<b>PRESIDENTIAL</b>									
1979-1980	13,745	12,932	813	123	737	12,538	65	272	11
1981-1982	185	184	1	92	1	92	-	-	-
1983-1984	17,468	16,638	831	806	487	15,830	344	1	-
1985-1986	841	795	45	76	28	719	17	-	-
1987-1988	14,127	10,628	3,499	568	3,352	10,054	146	6	-
<b>SENATE</b>									
1979-1980	1,654	359	1,295	127	1,283	232	12	-	-
1981-1982	4,875	724	4,150	426	3,667	298	484	-	-
1983-1984	4,627	2,134	2,493	326	410	1,808	2,082	-	-
1985-1986	5,312	4,331	980	988	632	3,343	348	-	-
1987-1988	4,401	3,641	761	831	617	2,810	143	(Z)	-
<b>HOUSE OF REPRESENTATIVES</b>									
1979-1980	685	602	83	191	38	410	45	(Z)	-
1981-1982	2,221	1,226	995	734	929	492	66	-	-
1983-1984	1,325	1,180	145	561	118	619	27	-	-
1985-1986	4,053	3,706	347	2,386	227	1,314	120	6	-
1987-1988	2,813	2,385	427	1,466	279	920	149	(Z)	-

- Represents zero. Z Less than \$500.

Source: U.S. Federal Election Commission, *FEC Index of Independent Expenditures, 1987-88*, May 1989 and press release of May 19, 1989.

## No. 458. Political Action Committees—Financial Activity Summary by Committee Type: 1979 to 1988

[In millions of dollars. Cover financial activity during 2 year calendar period indicated. Data have not been adjusted for transfers between affiliated committees]

FINANCIAL ITEM AND YEAR	Total	Corpo- rate	Labor	Trade/ mem- bership/ health	Non- connect- ed	Cooper- ative	Corpora- tion without stock
<b>RECEIPTS</b>							
1979-1980	137.7	33.9	25.7	33.9	40.1	2.8	1.4
1981-1982	199.5	47.1	37.5	43.4	64.7	4.1	2.7
1983-1984	288.7	66.3	51.1	59.3	102.8	4.5	4.6
1985-1986	353.4	82.0	65.3	75.4	118.6	4.7	7.4
1987-1988	384.6	96.9	78.5	89.5	106.3	4.9	8.5
<b>DISBURSEMENTS <sup>1</sup></b>							
1979-1980	131.2	31.4	25.1	32.0	38.6	2.7	1.3
1981-1982	190.2	43.3	34.8	41.9	64.3	3.8	2.1
1983-1984	266.8	58.2	47.5	54.0	97.4	4.5	4.2
1985-1986	340.0	79.3	57.9	73.3	118.4	4.7	6.4
1987-1988	364.2	88.8	74.1	83.7	104.9	4.5	7.2
<b>CONTRIBUTIONS TO CANDIDATES</b>							
1979-1980	60.2	21.6	14.2	17.0	5.2	1.5	0.7
1981-1982	87.6	28.4	20.9	22.9	11.0	2.2	1.1
1983-1984	113.0	39.0	26.2	28.3	15.3	2.6	1.5
1985-1986	139.8	48.6	31.0	34.6	19.4	2.7	2.6
1987-1988	159.2	56.2	35.5	41.2	20.3	2.7	3.3
<b>INDEPENDENT EXPENDITURES, 1987-1988</b>							
<b>Total</b>	20.8	0.1	0.2	3.9	16.2	(Z)	0.3
For candidates	16.2	0.1	0.2	2.4	13.3	(Z)	0.2
Against candidates	4.6	(Z)	(Z)	1.5	2.9	-	0.1

- Represents zero. Z Less than \$50,000. <sup>1</sup> Comprises contributions to candidates, independent expenditures, and other disbursements.

Source: U.S. Federal Election Commission, *FEC Reports on Financial Activity, Final Report, Party and Non-Party Political Committees*, biennial.

**No. 459. Political Action Committees—Number, by Committee Type: 1975 to 1989**

[As of December 31, except 1975 as of November 24]

YEAR	Total	Corporate	Labor	Trade/ member- ship/ health	Non- con- nected	Coopera- tive	Corpora- tion without stock
1975	722	139	226		357		
1977	1,360	550	234	438	110	8	20
1978	1,653	785	217	453	162	12	24
1979	2,000	950	240	514	247	17	32
1980	2,551	1,206	297	576	374	42	56
1981	2,901	1,329	318	614	531	41	68
1982	3,371	1,469	380	649	723	47	103
1983	3,525	1,538	378	643	793	51	122
1984	4,009	1,682	394	698	1,053	52	130
1985	3,992	1,710	388	695	1,003	54	142
1986	4,157	1,744	384	745	1,077	56	151
1987	4,165	1,775	364	865	957	59	145
1988	4,268	1,816	354	786	1,115	59	138
1989	4,178	1,796	349	777	1,060	59	137

Source: U.S. Federal Election Commission, press release of January 17, 1990.

**No. 460. Presidential Campaign Finances—Federal Funds for General Election: 1980 to 1988**

[In millions of dollars. Based on FEC certifications, audit reports, and Dept. of Treasury reports]

1980		1984		1988	
Candidate	Amount	Candidate	Amount	Candidate	Amount
<b>Total</b>	<b>62.7</b>	<b>Total</b>	<b>80.3</b>	<b>Total</b>	<b>92.2</b>
Anderson <sup>1</sup>	4.2	Mondale	40.2	Bush	46.1
Carter	29.4	Reagan	40.1	Dukakis	46.1
Reagan	29.2				

<sup>1</sup> John Anderson, as the candidate of a new party, was permitted to raise funds privately. Total receipts for the Anderson campaign, including Federal funds, were \$17.6 million and total expenditures were \$15.6 million.

Source: U.S. Federal Election Commission, press releases of November 15, 1981, June 4, 1986, and April 9, 1989.

**No. 461. Presidential Campaign Finances—Primary Campaign Receipts and Disbursements: 1979 to 1988**

[In millions of dollars. Covers campaign finance activity during 2 year calendar period indicated. Covers candidates who received Federal matching funds or who had significant financial activity]

PARTY AND CANDIDATE	RECEIPTS			Dis- burse- ments	PARTY AND CANDIDATE	RECEIPTS			Dis- burse- ments
	Total <sup>1</sup>	Indi- vidual contri- butions	Federal match- ing funds			Total <sup>1</sup>	Indi- vidual contri- butions	Federal match- ing funds	
<b>TOTAL</b>					<b>DEMOCRATIC</b>				
1979-1980	94.2	61.0	30.9	92.3	1979-1980	35.6	23.9	10.3	35.6
1983-1984 <sup>2</sup>	105.0	62.8	34.9	103.6	1983-1984	77.5	46.2	24.6	77.4
1987-1988 <sup>3</sup>	213.8	141.1	65.7	210.7	1987-1988	91.9	59.4	30.1	90.2
<b>REPUBLICAN</b>					Babbitt	3.4	2.2	1.1	3.3
1979-1980	58.5	37.1	20.5	56.7	Dukakis	28.5	19.3	9.0	28.2
1983-1984	27.1	16.4	10.1	25.9	Gephardt	10.3	6.3	2.9	10.3
1987-1988	116.0	76.8	34.7	114.6	Gore	12.3	7.9	3.9	12.3
Bush	31.8	22.3	8.4	30.6	Hart	3.4	2.3	1.1	3.3
Dole	26.5	16.9	7.6	26.5	Jackson	20.0	12.3	7.7	19.4
DuPont	8.1	5.4	2.6	8.0	LaRouche	3.9	3.0	0.8	3.8
Haig	2.0	1.4	0.5	2.0	Simon	10.1	6.1	3.6	9.6
Kemp	16.7	10.2	5.9	16.5					
Robertson	30.9	20.6	9.7	30.9					

<sup>1</sup> Includes other types of receipts, not shown separately. <sup>2</sup> Includes Citizens Party candidate not shown separately.

<sup>3</sup> Includes a minor party candidate who sought several party nominations and a Democratic candidate who did not receive Federal matching funds, but who had significant financial activity.

Source: U.S. Federal Election Commission, *FEC Reports on Financial Activity, Final Report, Presidential Pre-Nomination Campaigns*, quadrennial.

**No. 462. Congressional Campaign Finances—Receipts and Disbursements: 1983 to 1988**

[Covers all campaign finance activity during 2-year calendar period indicated for primary, general, run-off, and special elections. For 1983-84 relates to 1,782 House of Representatives candidates and 254 Senate candidates; for 1985-86 to 1,611 House of Representatives candidates and 262 Senate candidates; for 1987-88 to 1,582 House of Representatives candidates and 210 Senate candidates. Data have been adjusted to eliminate transfers between all committees within a campaign. For further information on legal limits of contributions, see Federal Election Campaign Act of 1971, as amended]

ITEM	HOUSE OF REPRESENTATIVES						SENATE					
	Amount (mil. dol.)			Percent distribution			Amount (mil. dol.)			Percent distribution		
	1983-1984	1985-1986	1987-1988	1983-1984	1985-1986	1987-1988	1983-1984	1985-1986	1987-1988	1983-1984	1985-1986	1987-1988
<b>Total receipts</b> <sup>1</sup>	<b>222.5</b>	<b>257.7</b>	<b>278.3</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>174.7</b>	<b>214.4</b>	<b>199.3</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Individual contributions	108.0	127.6	129.9	48.5	49.5	46.7	110.3	140.1	128.1	63.1	65.3	64.3
Other committees	75.7	87.4	102.2	34.0	33.9	36.7	29.7	45.3	45.7	17.0	21.1	22.9
Candidate loans	18.0	20.9	23.2	8.1	8.1	8.3	21.4	6.2	8.2	12.2	2.9	4.1
Candidate contributions	3.4	4.8	4.9	1.5	1.9	1.8	3.7	1.9	6.8	2.1	0.9	3.4
Democrats	121.4	139.9	160.3	54.6	54.3	57.6	84.2	91.8	107.7	48.2	42.8	54.0
Republicans	100.5	117.7	117.0	45.2	45.7	42.0	90.3	122.5	91.3	51.7	57.1	45.8
Others	0.5	0.1	1.0	0.2	(Z)	0.4	0.2	0.1	0.3	0.1	(Z)	0.2
Incumbents	132.4	149.7	175.6	59.5	58.1	63.1	74.8	90.3	98.3	42.8	42.1	49.3
Challengers	55.5	49.2	52.5	25.0	19.1	18.9	38.9	67.2	58.3	22.3	31.3	28.3
Open seats	34.6	58.8	50.2	15.5	22.8	18.0	61.0	56.9	44.7	34.9	26.5	22.4
<b>Total disbursements</b>	<b>203.6</b>	<b>239.3</b>	<b>257.6</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>170.5</b>	<b>211.6</b>	<b>201.4</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Democrats	111.0	128.7	145.6	54.5	53.8	56.5	82.0	89.0	107.9	48.1	42.0	53.6
Republicans	91.8	110.5	111.0	45.1	46.2	43.1	88.3	122.6	93.1	51.8	57.9	46.3
Others	0.7	0.1	1.0	0.3	(Z)	0.4	0.2	(Z)	0.3	0.1	(Z)	0.1
Incumbents	114.9	132.5	156.6	56.5	55.4	60.8	72.1	89.3	101.2	42.3	42.2	50.3
Challengers	54.7	48.8	51.7	26.9	20.4	20.1	38.3	66.2	56.1	22.5	31.3	27.8
Open seats	33.9	58.0	49.3	16.7	24.2	19.1	60.1	56.1	44.1	35.3	26.5	21.9

Z Less than \$50,000 or .05 percent. <sup>1</sup> Includes other types of receipts, not shown separately. <sup>2</sup> Elections in which an incumbent did not seek re-election.

Source: U.S. Federal Election Commission, *FEC Reports on Financial Activity, Final Report, U.S. Senate and House Campaigns*, biennial.

**No. 463. Contributions to Congressional Campaigns by Political Action Committees (PAC), by Type of Committee: 1979 to 1988**

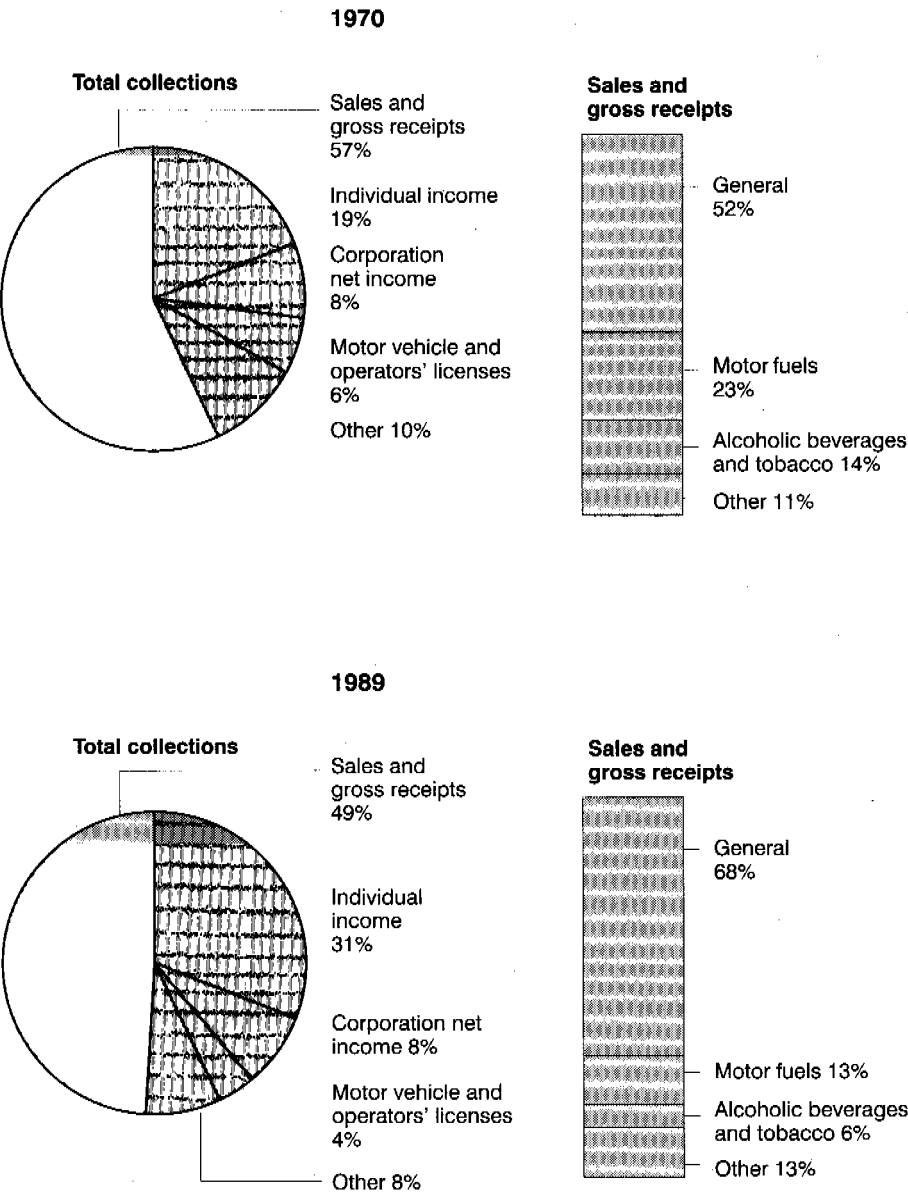
[In millions of dollars. Cover amounts given to candidates in primary, general, run-off, and special elections during the 2-year calendar period indicated. For number of political action committees, see table 459]

TYPE OF COMMITTEE	HOUSE OF REPRESENTATIVES						SENATE					
	Total	Democrats	Republicans	Incumbents	Challengers	Open seats <sup>1</sup>	Total	Democrats	Republicans	Incumbents	Challengers	Open seats <sup>1</sup>
<b>1979-80, total</b>	<b>37.9</b>	<b>20.5</b>	<b>17.2</b>	<b>24.9</b>	<b>7.9</b>	<b>5.1</b>	<b>17.3</b>	<b>8.4</b>	<b>9.0</b>	<b>8.6</b>	<b>6.6</b>	<b>2.1</b>
1981-82, total <sup>2</sup>	61.1	34.2	26.8	40.8	10.9	9.4	22.6	11.2	11.4	14.3	5.2	3.0
Corporate	18.9	7.0	12.0	14.4	2.0	2.6	8.6	2.4	6.2	5.5	1.7	1.4
Trade association	16.8	7.2	9.7	12.4	2.1	2.3	5.0	2.2	2.8	3.7	0.8	0.5
Labor	15.4	14.7	0.7	8.5	4.3	2.6	4.9	4.5	0.4	3.0	1.3	0.5
Non-connected <sup>4</sup>	7.4	3.9	3.5	3.4	2.5	1.6	3.3	1.6	1.7	1.5	1.3	0.5
<b>1983-84, total</b> <sup>2</sup>	<b>75.7</b>	<b>46.3</b>	<b>29.3</b>	<b>57.2</b>	<b>11.3</b>	<b>7.2</b>	<b>29.7</b>	<b>14.0</b>	<b>15.6</b>	<b>17.9</b>	<b>6.3</b>	<b>5.4</b>
Corporate	23.4	10.4	13.1	18.8	2.6	2.0	12.0	3.2	8.8	8.8	1.1	2.2
Trade association	20.4	10.5	9.9	16.5	2.1	1.7	6.3	2.7	3.7	4.5	0.9	1.0
Labor	19.8	18.8	1.0	14.3	3.5	2.0	5.0	4.7	0.3	1.6	2.3	1.2
Non-connected <sup>4</sup>	9.1	4.7	4.4	4.9	2.9	1.3	5.4	3.0	2.4	2.4	2.0	1.0
<b>1985-86, total</b> <sup>2</sup>	<b>87.4</b>	<b>54.7</b>	<b>32.6</b>	<b>65.9</b>	<b>9.1</b>	<b>12.4</b>	<b>45.3</b>	<b>20.2</b>	<b>25.1</b>	<b>23.7</b>	<b>10.2</b>	<b>11.4</b>
Corporate	26.9	12.9	14.0	22.9	1.0	3.0	19.2	4.8	14.4	11.7	2.7	4.9
Trade association	23.4	12.3	11.2	19.3	1.3	2.8	9.5	3.8	5.7	5.7	1.6	2.1
Labor	22.6	21.1	1.6	14.7	4.3	3.6	7.2	6.6	0.6	2.2	3.2	1.9
Non-connected <sup>4</sup>	11.1	6.6	4.5	6.1	2.4	2.6	7.7	4.2	3.4	3.1	2.4	2.2
<b>1987-88, total</b>	<b>102.2</b>	<b>67.4</b>	<b>34.7</b>	<b>82.2</b>	<b>10.0</b>	<b>10.0</b>	<b>45.7</b>	<b>24.2</b>	<b>21.5</b>	<b>28.7</b>	<b>8.0</b>	<b>9.0</b>
Corporate	31.6	16.3	15.4	28.6	1.1	1.9	18.8	7.2	11.6	12.7	2.4	3.7
Trade association	28.6	16.5	12.0	24.6	1.5	2.5	10.4	4.8	5.6	7.1	1.3	2.0
Labor	26.8	24.8	2.0	18.3	5.1	3.3	7.1	6.5	0.5	3.6	2.2	1.3
Non-connected <sup>4</sup>	11.4	7.4	3.9	7.3	2.2	1.9	7.8	4.8	3.0	4.2	2.0	1.6
Cooperative	2.0	1.3	0.7	1.8	0.1	0.1	0.6	0.3	0.3	0.4	0.1	0.1
Corporation without stock	1.9	1.1	0.7	1.6	0.1	0.2	1.0	0.5	0.5	0.7	0.1	0.2

<sup>1</sup> Elections in which an incumbent did not seek re-election. <sup>2</sup> Includes other types of political action committees not shown separately. <sup>3</sup> Includes membership organizations and health organizations. <sup>4</sup> Represents "ideological" groups as well as other issue groups not necessarily ideological in nature.

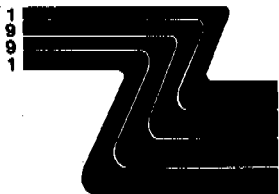
Source: U.S. Federal Election Commission, *FEC Reports on Financial Activity, Final Report, U.S. Senate and House Campaigns*, biennial.

Figure 9.1  
State Government Tax Collections, by Type: 1970 and 1989



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 480.





## Section 9

# State and Local Government Finances and Employment

This section presents data on revenues, expenditures, debt, and government employment of State and local governments. Nationwide statistics relating to State and local governments, their numbers, finances, and employment, are compiled primarily by the Bureau of the Census through a program of censuses and surveys. Every fifth year (for years ending in "2" and "7") the Bureau conducts a Census of Governments involving collection of data for all governmental units in the United States. In addition, the Bureau conducts annual surveys which cover all the State governments and a sample of local governments.

Publications issued annually by the Bureau of the Census include a report on governmental finances which presents figures for the Federal Government, nationwide totals for State and local governments by type and State-local data by States. Also issued annually are a series of publications on State, city, county, and school finances, and on city, county, and other public employment. Financial data are published in the GF publication series; employment data in the GE series. There is also a series of quarterly reports covering tax revenue, and of finances of major public employee retirement systems, as well as a series (GSS) of special studies.

Basic information for Census Bureau statistics on governments is obtained by mail canvass from State and local officials; however, financial data for each of the State governments and for many of the large local governments are compiled from their official records and reports by Census Bureau personnel. In over half of the States, all or part of local government financial data are obtained through central collection arrangements with State governments. Financial data on the Federal Government is based on the *Budget* published by the Office of Management and Budget (see page 313).

**Governmental units.**—The governmental structure of the United States includes, in addition to the Federal Government and the States, thousands of local governments—counties, municipalities, townships, school districts, and numerous kinds of "special districts." As shown by table 464, almost 83,200 local governments were identified by the 1987 Census of Governments. As defined by the census, governmental units include all agencies or bodies having an organized existence, governmental character, and substantial autonomy. While most of these governments can impose taxes, many of the special districts—such as independent public housing authorities, the New York Port Authority, and numerous local irrigation, power, and other types of districts—are financed from rentals, charges for services, benefit assessments, grants from other governments, toll charges, and other nontax sources. The count of governments excludes semi-autonomous agencies through which States, cities, and counties sometimes provide for certain functions—for example, "dependent" school systems, State institutions of higher education, and certain other "authorities" and special agencies which are under the administrative or fiscal control of an established governmental unit.

**Finances.**—Unless otherwise stated, financial data relate to fiscal years ending in the year shown. Most States end their fiscal year June 30; however Alabama and Michigan end their fiscal years Sept. 30; New York, March 31; and Texas, Aug. 31. The Federal Government ended the fiscal year June 30 until 1976 when its fiscal year, by an act of Congress, was revised to extend from Oct. 1 to Sept. 30. A 3-month quarter (July 1 to Sept. 30, 1976) bridged the transition. Beginning 1963, local government figures are for fiscal years which close at various dates during the 12 months ended June 30 of the year specified (exceptions are school districts in Alabama, which close Sept. 30 of the specified year; school districts in Texas, which close Aug. 31 of year cited; and Washington, DC which ends its fiscal year Sept. 30); figures for 1962 and earlier years are for fiscal years ended during the calendar year.

Nationwide government finance statistics have been classified and presented in terms of uniform concepts and categories, rather than according to the highly diverse terminology, organization, and fund structure utilized by individual governments. Accordingly, financial statistics which appear here for the Federal Government and for individual States or local governments have been standardized and may not agree directly with figures appearing in the original sources.

Statistics on governmental finances distinguish among general government, utilities, liquor stores, and insurance trusts. *General government* comprises all activities except utilities, liquor stores, and insurance trusts. Utilities include government water supply, electric light and power, gas supply, and transit systems. Liquor stores are operated by 17 States and by local governments in 5 States. Insurance trusts relate to employee retirement, unemployment compensation, and other social insurance systems administered by the Federal, State, and local governments.

Data for cities relate only to municipal corporations and their dependent agencies and do not include amounts for other local governments overlying city areas. Therefore, expenditure figures for "education" do not include spending by the separate school districts which administer public schools within most municipal areas. Variations in the assignment of governmental responsibility for public assistance, health, hospitals, public housing, and other functions to a lesser degree also have an important effect upon reported amounts of city expenditure, revenue, and debt. Therefore, any intercity comparisons based upon these figures should be made with caution and with due recognition of variations that exist among urban areas in the relative role of the municipal corporation.

**Employment and payrolls.**—These data are based mainly on mail canvassing of State and local governments. Payroll includes all salaries, wages, and individual fee payments for the month specified, and employment relates to all persons on governmental payrolls during a pay period of the month covered—including paid officials, temporary help, and (unless otherwise specified) part-time as well as full-time personnel. Beginning 1986, statistics for full-time equivalent employment have been computed with a formula using hours worked by part-time employees. A payroll based formula was used prior to 1985. Full-time equivalent employment statistics were not computed for 1985. Figures shown for individual governments cover major dependent agencies such as institutions of higher education, as well as the basic central departments and agencies of the government.

**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

#### No. 464. Number of Governmental Units, by Type of Government: 1942 to 1987

[See text, section 9]

TYPE OF GOVERNMENT	1942	1952 <sup>1</sup>	1957 <sup>1</sup>	1962	1967	1972	1977	1982	1987
<b>Total</b> . . . . .	<b>155,116</b>	<b>116,807</b>	<b>102,392</b>	<b>91,237</b>	<b>81,299</b>	<b>78,269</b>	<b>79,913</b>	<b>81,831</b>	<b>83,237</b>
U.S. Government . . . . .	1	1	1	1	1	1	1	1	1
State government . . . . .	48	50	50	50	50	50	50	50	50
Local governments . . . . .	155,067	166,756	102,341	91,186	81,248	78,218	79,862	81,780	83,186
County . . . . .	3,050	3,052	3,050	3,043	3,049	3,044	3,042	3,041	3,042
Municipal . . . . .	16,220	16,807	17,215	18,000	18,048	18,517	18,862	19,076	19,200
Township and town . . . . .	18,919	17,202	17,198	17,142	17,105	16,991	16,822	16,734	16,691
School district . . . . .	108,579	67,355	50,454	34,678	21,782	15,781	15,174	14,851	14,721
Special district . . . . .	8,299	12,340	14,424	18,323	21,264	23,885	25,962	28,078	29,532

<sup>1</sup> Adjusted to include units in Alaska and Hawaii which adopted statehood in 1959.

Source: U.S. Bureau of the Census, *Census of Governments: 1967*, vol. 1, No. 1, *Governmental Organization*, 1982, vol. 6, No. 4, *Historical Statistics on Governmental Finances and Employment* (GC82(6)-4), and *Census of Governments, 1987*, vol. 1, No. 1, *Governmental Organization*.

## No. 465. All Governments—Revenue, Expenditure, and Debt: 1980 to 1988

[For fiscal year ending in year shown; see text, section 9. Except for 1987, local government amounts are estimates subject to sampling variation; see Appendix III and source. See also *Historical Statistics, Colonial Times to 1970*, series Y 505-637 and Y 652-848]

ITEM AND YEAR	All governments (bil. dol.)	FEDERAL <sup>1</sup>		STATE AND LOCAL (bil. dol.)			AVERAGE ANNUAL PERCENT CHANGE <sup>2</sup>			PER CAPITA <sup>3</sup> (dollars)		
		Total (bil. dol.)	Percent of total	Total	State	Local	Federal	State	Local	Total	Federal	State and local
Revenue: <sup>4</sup> 1980	<sup>5</sup> 932	565	60.7	<sup>5</sup> 452	277	258	10.6	12.0	11.2	<sup>5</sup> 4,115	2,496	1,993
1985	<sup>5</sup> 1,419	807	56.9	<sup>5</sup> 720	439	402	7.4	9.7	9.3	<sup>5</sup> 5,943	3,379	3,016
1987	<sup>5</sup> 1,696	969	57.1	<sup>5</sup> 843	517	469	14.3	7.4	7.9	<sup>5</sup> 6,967	3,980	3,468
1988	<sup>5</sup> 1,776	1,012	57.0	<sup>5</sup> 885	542	495	4.4	4.8	7.8	<sup>5</sup> 7,227	4,118	3,598
Intergovernmental: 1980	(X)	2	(X)	<sup>5</sup> 83	64	102	(X)	12.3	13.3	(X)	8	367
1985	(X)	2	(X)	<sup>5</sup> 106	90	138	1.6	6.9	6.2	(X)	8	445
1987	(X)	2	(X)	<sup>5</sup> 115	102	156	16.3	3.9	6.1	(X)	10	472
1988	(X)	3	(X)	<sup>5</sup> 118	107	163	15.0	4.9	4.5	(X)	12	478
General, own sources:												
1980	717	417	58.2	299	169	130	9.8	11.4	9.7	3,163	1,842	1,321
1985	1,050	559	53.2	492	276	216	6.0	10.3	10.7	4,400	2,339	2,061
1987	1,236	665	53.8	571	317	254	14.9	7.5	8.8	5,082	2,730	2,352
1988	1,299	690	53.1	610	338	271	3.8	6.6	6.7	5,286	2,808	2,480
Taxes: <sup>4</sup> 1980	574	351	61.1	223	137	86	9.2	11.1	8.3	2,535	1,548	986
1985	804	454	56.4	350	216	134	5.3	9.5	9.3	3,369	1,902	1,465
1987	943	539	57.1	405	247	158	14.3	8.3	9.1	3,881	2,216	1,665
1988	998	563	56.4	436	264	172	4.5	6.9	8.9	4,061	2,289	1,772
Property: 1980	68	(X)	(X)	68	3	66	(X)	10.2	7.1	302	(X)	302
1985	104	(X)	(X)	104	4	100	(X)	6.6	8.8	435	(X)	435
1987	121	(X)	(X)	121	5	117	(X)	5.9	8.6	498	(X)	498
1988	132	(X)	(X)	132	5	127	(X)	9.5	8.6	538	(X)	538
Individual income:												
1980	286	244	85.3	42	37	5	10.4	15.0	11.9	1,263	1,077	186
1985	401	331	82.5	70	64	6	6.3	11.5	5.3	1,681	1,386	295
1987	476	393	82.4	84	76	8	12.5	12.7	11.0	1,956	1,613	344
1988	490	401	82.0	88	80	8	2.0	5.3	6.5	1,992	1,632	359
Corporate income:												
1980	78	65	82.9	13	13	-	7.0	13.6	-	344	285	59
1985	80	61	76.2	19	18	2	-1.0	5.8	(X)	337	257	80
1987	107	84	78.7	23	21	2	32.9	12.7	22.6	438	345	93
1988	118	94	80.0	24	22	2	12.2	4.8	5.6	479	383	96
Sales or gross receipts:												
1980	112	<sup>6</sup> 32	28.6	80	68	12	5.8	9.6	14.7	494	<sup>6</sup> 141	353
1985	176	<sup>6</sup> 49	28.0	126	105	21	8.9	9.2	11.7	735	<sup>6</sup> 206	529
1987	193	<sup>6</sup> 48	25.1	144	120	24	2.9	6.6	8.1	793	<sup>6</sup> 199	594
1988	209	<sup>6</sup> 53	25.3	156	130	26	10.4	8.3	8.3	850	<sup>6</sup> 214	636
Current charges and miscellaneous: 1980	142	67	46.7	76	32	44	14.3	12.9	13.3	629	294	335
1985	246	104	42.5	142	60	82	9.4	13.3	13.3	1,031	438	593
1987	291	125	43.0	166	70	96	17.4	5.0	8.3	1,201	514	687
1988	301	127	42.1	174	74	100	1.6	5.7	4.2	1,224	517	707
Expenditures: <sup>4</sup> 1980	<sup>5</sup> 959	617	64.4	<sup>5</sup> 434	258	261	11.5	11.7	10.9	<sup>5</sup> 4,232	2,724	1,916
1985	<sup>5</sup> 1,581	1,032	65.3	<sup>5</sup> 658	391	391	10.8	8.7	8.4	<sup>5</sup> 6,622	4,323	2,756
1987	<sup>5</sup> 1,810	1,149	63.5	<sup>5</sup> 775	456	464	4.8	7.4	8.4	<sup>5</sup> 7,443	4,719	3,192
1988	<sup>5</sup> 1,920	1,215	63.2	<sup>5</sup> 827	485	496	5.7	6.4	6.9	<sup>5</sup> 7,813	4,942	3,365
Intergovernmental: 1980	(X)	91	(X)	<sup>5</sup> 2	85	2	14.6	11.3	10.8	(X)	401	8
1985	(X)	107	(X)	<sup>5</sup> 2	122	4	3.4	7.6	18.1	(X)	449	8
1987	(X)	112	(X)	<sup>5</sup> 2	141	5	-3.6	7.2	9.3	(X)	458	10
1988	(X)	119	(X)	<sup>5</sup> 3	152	5	6.3	7.8	1.7	(X)	484	11
Direct: <sup>4</sup> 1980	959	526	54.9	432	173	259	11.0	11.9	10.9	4,232	2,323	1,908
1985	1,581	925	58.5	656	269	387	11.9	9.2	8.4	6,622	3,874	2,748
1987	1,810	1,037	57.3	773	314	459	5.7	7.5	8.4	7,443	4,261	3,182
1988	1,920	1,096	57.1	825	333	491	5.7	6.0	8.1	7,813	4,458	3,354
Current operation: 1980	517	209	40.5	308	108	200	7.8	13.3	11.6	2,282	923	1,359
1985	833	360	43.3	472	172	300	11.5	9.7	8.5	3,488	1,509	1,979
1987	962	412	42.8	550	200	350	6.7	7.3	7.7	3,957	1,693	2,264
1988	1,027	436	42.4	591	213	378	5.8	6.5	8.0	4,178	1,773	2,405
Capital outlay: 1980	99	36	36.7	63	23	40	7.4	5.8	9.2	439	161	278
1985	157	77	49.1	80	31	49	16.1	5.6	4.5	657	323	335
1987	195	97	49.6	99	37	61	13.1	7.7	9.2	804	398	406
1988	198	94	47.4	104	41	64	-3.5	10.8	4.9	805	381	424
Debt outstanding: <sup>7</sup> 1980	1,250	914	73.2	336	122	214	9.4	11.3	7.7	5,517	4,036	1,481
1985	2,396	1,827	76.3	569	212	357	14.9	11.7	10.8	10,036	7,655	2,382
1987	3,081	2,354	76.6	727	266	462	10.5	7.3	10.2	12,658	9,671	2,987
1988	3,370	2,615	78.0	755	277	478	11.1	4.1	5.5	13,708	10,637	3,072

<sup>1</sup> Represents or rounds to zero. X Not applicable. <sup>2</sup> Data adjusted to system for reporting State and local data and therefore differ from figures in section 10 tables. <sup>3</sup> Represents average for period of intervals shown; for 1980, change from 1970. For explanation, see Guide to Tabular Presentation. Minus sign (-) indicates decrease. <sup>4</sup> 1980 based on enumerated resident population as of April 1; 1985, 1987 and 1988 based on estimated resident population as of July 1. Excludes intergovernmental amounts. <sup>5</sup> Includes amounts, not shown separately. <sup>6</sup> Excludes duplicative transactions between levels of government; see source. <sup>7</sup> End of fiscal year.

Source: U.S. Bureau of the Census, *Historical Statistics on Governmental Finances and Employment* (GC 82(6)-4); and *Government Finances*, series GF, No. 5, annual.

**No. 466. All Governments—Revenue and Expenditure, by Level of Government: 1988**

[For fiscal year ending in year shown, see text, section 9. Local government amounts are estimates subject to sampling variation; see source and Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series Y 505-637 and Y 652-848]

SOURCE OF REVENUE AND TYPE OF EXPENDITURE	All governments (mil. dol.)	Federal (mil. dol.)	State (mil. dol.)	Local (mil. dol.)	PERCENT		PER CAPITA <sup>1</sup> (dol.)	
					Federal	State and local	Federal	State and local
<b>Revenue</b>	<b><sup>2</sup>1,776,398</b>	<b>1,012,343</b>	<b>541,825</b>	<b><sup>2</sup>495,044</b>	<b>100.0</b>	<b>100.0</b>	<b>4,118</b>	<b>3,598</b>
Intergovernment revenue	( <sup>3</sup> )	2,859	107,241	162,713	0.3	13.3	12	478
Revenue from own sources	1,776,398	1,009,484	434,583	332,331	99.7	86.7	4,107	3,120
General revenue from own sources	1,299,255	689,696	338,296	271,263	68.1	69.0	2,806	2,479
Percent of total revenue	73.1	68.1	62.4	54.8	(X)	(X)	(X)	(X)
Taxes <sup>3</sup>	998,291	562,600	264,096	171,595	55.6	49.3	2,289	1,772
Property	132,240	(X)	5,049	127,191	(X)	15.0	(X)	538
Individual income	489,531	401,181	80,133	8,216	39.6	9.9	1,632	359
Corporation income	117,858	94,195	21,607	2,056	9.3	2.7	383	96
Sales and gross receipts	208,977	52,604	130,251	26,122	5.2	17.7	214	636
Customs duties	16,317	16,317	(X)	(X)	1.6	(X)	66	(X)
General sales and gross receipts	105,170	(X)	87,011	18,159	(X)	11.9	(X)	427
Selective sales and gross receipts	87,491	36,287	43,240	7,963	3.6	5.8	148	208
Motor fuel	30,666	12,876	17,213	577	1.3	2.0	52	72
Alcoholic beverages	9,311	5,830	3,188	293	0.6	0.4	24	14
Tobacco products	9,564	4,523	4,842	199	0.5	0.6	19	20
Public utilities	16,202	5,701	6,179	4,321	0.6	1.2	23	42
Motor vehicle and operators' licenses	10,260	(X)	9,613	648	(X)	1.2	(X)	41
Death and gift	10,868	7,594	3,241	34	0.8	0.4	31	13
Charges and misc. general revenue <sup>3</sup>	300,964	127,096	74,199	99,668	12.6	19.7	517	707
Current charges	174,639	80,081	34,436	60,122	7.9	10.7	326	384
National defense and international relations	7,191	7,191	(X)	(X)	0.7	(X)	29	(X)
Postal service	33,986	33,986	(X)	(X)	3.4	(X)	138	(X)
Education <sup>3</sup>	27,034	-	19,324	7,710	3.1	-	-	110
School lunch sales	3,233	(X)	-	3,223	(X)	0.4	(X)	13
Higher education	21,664	-	19,033	2,631	-	2.5	-	88
Natural resources	26,691	25,336	837	519	2.5	0.2	103	5
Hospitals	26,199	56	7,431	18,712	(Z)	3.0	(Z)	106
Sewerage and sanitation	13,482	(X)	20	13,462	(X)	1.5	(X)	54
Parks and recreation	3,136	95	628	2,413	(Z)	0.3	(Z)	12
Housing and community development	5,102	2,561	197	2,344	0.3	0.3	11	10
Air transportation	4,133	24	402	3,707	(Z)	0.5	(Z)	16
Water transport and terminals	2,189	775	351	1,063	(Z)	0.2	3	5
Special assessments	2,558	(X)	136	2,422	(X)	0.3	(X)	10
Sale of property	6,177	5,089	211	876	0.5	0.1	21	4
Interest earnings	62,473	15,166	22,988	24,321	1.5	5.4	62	192
Utility revenue	49,226	(X)	3,030	46,196	(X)	5.6	(X)	200
Liquor stores	3,290	(X)	2,767	524	(X)	0.4	(X)	13
Insurance trust revenue	424,628	319,788	90,491	14,348	31.6	11.9	1,301	426
<b>Expenditure</b>	<b><sup>2</sup>1,920,413</b>	<b>1,214,812</b>	<b>485,006</b>	<b><sup>2</sup>496,323</b>	<b>100.0</b>	<b>100.0</b>	<b>4,942</b>	<b>3,365</b>
Intergovernment expenditure	( <sup>3</sup> )	118,906	151,662	5,180	9.8	0.3	484	11
Direct expenditure	1,920,413	1,095,906	333,344	491,163	90.2	99.7	4,458	3,354
General expenditure	1,461,857	759,617	280,517	421,723	62.5	85.0	3,090	2,857
Percent of total expenditure	76.1	62.5	57.8	85.0	(X)	(X)	(X)	(X)
Education	256,960	14,277	64,110	178,574	1.2	29.3	58	987
Elementary and secondary education	169,694	-	1,398	168,296	-	20.5	-	690
Higher education	62,688	-	52,410	10,278	-	7.6	-	255
Public welfare	115,125	28,656	66,570	19,899	2.4	10.5	117	351
Health and hospitals	78,789	16,849	29,381	32,558	1.4	7.5	69	252
Highways	55,998	377	33,732	21,889	(Z)	6.7	2	226
Police protection	30,934	4,657	3,914	22,363	0.4	3.2	19	106
Fire protection	11,753	(X)	(X)	11,753	-	1.4	(X)	47
Corrections	20,131	1,168	12,287	6,676	0.1	2.3	5	77
Natural resources	103,789	81,481	9,807	12,500	6.7	2.7	332	90
Sewerage and sanitation	23,679	(X)	798	22,880	(X)	2.9	(X)	96
Housing and community development	25,212	11,969	1,525	11,718	1.0	1.6	49	53
Governmental administration	48,111	10,691	14,569	22,850	0.9	4.5	44	152
Interest on general debt	202,437	158,119	19,367	24,952	13.0	5.4	643	180
Other	488,940	431,373	24,457	33,110	35.5	7.0	1,755	234
Utility expenditure	67,214	(X)	6,232	60,982	(X)	8.1	(X)	273
Liquor stores expenditure	2,837	(X)	2,378	459	(X)	0.3	(X)	11
Insurance trust expenditure	388,505	336,289	44,217	7,998	27.7	6.3	1,368	212
By character and object:								
Current operation	1,027,037	435,791	213,252	377,994	35.9	71.5	1,773	2,405
Capital outlay	197,845	93,531	40,667	63,647	7.7	12.6	381	424
Construction	89,060	10,468	31,421	47,170	0.9	9.5	43	319
Equip., land and existing structures	106,785	83,063	9,246	16,476	6.8	3.1	338	104
Assistance and subsidies	96,104	72,176	15,000	8,928	5.9	2.9	294	97
Interest on debt (general and utility)	210,922	158,119	20,208	32,596	13.0	6.3	643	214
Insurance benefits and repayments	388,505	336,289	44,217	7,998	27.7	6.3	1,368	212
<b>Expenditure for salaries and wages</b>	<b>430,601</b>	<b>134,912</b>	<b>86,931</b>	<b>208,758</b>	<b>11.1</b>	<b>35.8</b>	<b>549</b>	<b>1,202</b>

- Represents zero or rounds to zero. X Not applicable. Z Less than .05 percent or \$50. <sup>1</sup> Based on estimated resident population as of July 1. <sup>2</sup> Aggregates exclude duplicative transactions between levels of government; see source. <sup>3</sup> Includes amounts not shown separately. <sup>4</sup> Includes parks and recreation.

Source: U.S. Bureau of the Census, *Government Finances*, series GF, No. 5, annual.

**No. 467. All Governments—Expenditure for Capital Outlay, by Level of Government and by Function: 1970 to 1988**

[In millions of dollars, except percent. For fiscal years ending in year shown; see text, section 9. Except for 1982 and 1987, local government data are estimates subject to sampling variation; see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series Y 523-524, Y 673-674, Y 740-741, and Y 787-788]

LEVEL AND FUNCTION	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988
<b>Total</b>	<b>47,519</b>	<b>66,622</b>	<b>99,386</b>	<b>129,637</b>	<b>148,478</b>	<b>143,094</b>	<b>156,912</b>	<b>176,096</b>	<b>195,147</b>	<b>197,844</b>
Federal Government:										
Total	17,869	21,798	36,492	62,835	80,744	72,456	77,014	85,647	96,871	93,531
Annual percent change	-6.0	4.1	10.9	28.5	28.5	-10.3	6.3	11.2	13.1	-3.4
As percent of direct expenditure	9.7	7.5	6.9	8.8	10.3	8.7	8.3	8.7	9.3	7.7
By function:										
National defense <sup>2</sup>	14,027	14,507	28,161	52,958	69,697	60,382	64,154	71,995	78,222	74,790
Education	9	2	97	19	26	58	39	5	13	7
Highways	9	70	132	84	153	187	121	204	173	173
Health and hospitals	166	311	673	827	1,146	1,016	916	1,160	1,327	1,228
Natural resources	1,691	3,416	4,046	4,963	4,500	4,435	4,092	3,651	4,058	3,581
Housing	853	1,059	317	613	1,080	1,471	1,935	2,515	3,642	5,180
Air transportation	234	363	151	115	283	249	785	391	494	407
Water transportation	285	251	1,003	780	634	482	583	245	315	370
All other	595	1,819	1,912	2,476	3,225	4,176	4,389	5,481	8,627	7,792
State and local governments:										
Total	29,650	44,824	62,894	66,802	67,734	70,638	79,898	90,449	96,842	104,313
Annual percent change	5.0	8.6	7.0	1.2	1.4	4.3	13.1	13.2	9.3	5.5
As percent of direct expenditure	20.0	16.7	14.5	12.8	12.0	11.8	12.2	12.6	12.7	12.6
By function:										
Education <sup>5</sup>	7,621	9,861	10,737	10,855	10,880	11,596	13,477	15,490	17,803	18,529
Higher education	2,705	2,834	2,972	3,696	3,403	3,855	4,629	5,217	6,141	6,397
Elementary and secondary	4,658	6,532	7,362	6,864	7,200	7,258	8,358	10,009	11,355	11,789
Highways	10,762	13,646	19,133	18,178	18,627	20,269	23,900	26,807	28,352	31,635
Health and hospitals	790	1,781	2,443	2,503	2,460	2,366	2,709	2,810	3,029	3,436
Natural resources	789	1,113	1,052	1,072	1,311	1,414	1,736	1,803	2,157	1,894
Housing	1,319	1,821	2,248	3,259	2,921	3,104	3,217	3,516	3,394	3,619
Air transportation	691	852	1,391	1,374	1,408	1,814	1,875	2,183	2,632	2,896
Water transportation	258	419	623	698	716	585	717	911	669	911
Sewerage	1,385	3,569	6,272	5,922	5,806	5,664	5,926	6,461	7,483	8,300
Parks and recreation <sup>6</sup>	684	1,261	2,023	2,029	2,100	1,962	2,196	2,554	2,838	3,142
Utilities <sup>6</sup>	2,437	4,846	9,933	12,484	12,870	12,599	13,435	15,340	15,638	14,782
Water	1,201	2,111	3,335	3,689	3,821	3,438	4,160	5,134	6,135	6,052
Electric	820	1,485	4,572	5,603	5,292	5,153	5,247	6,127	5,086	4,473
Transit	366	1,203	1,921	3,072	3,615	3,873	3,830	6,320	4,165	3,998
Gas	50	48	105	120	143	135	198	250	253	259
Other	2,915	5,656	7,039	8,427	8,634	9,265	10,711	12,573	14,645	15,172

<sup>1</sup> Change from prior year shown. 1970, change from 1969. For definition of average annual percent change, see Guide to Tabular Presentation. <sup>5</sup> Includes international relations and U.S. service schools. <sup>6</sup> Includes community development.

<sup>2</sup> Includes terminals. <sup>3</sup> Includes other education. <sup>4</sup> Beginning 1980, includes outlays by State governments.

Source: U.S. Bureau of the Census, *Census of Governments: 1977, 1982 and 1987*, Vol. 6, No. 4, *Historical Statistics on Governmental Finances and Employment*, and *Government Finances*, series GF No. 5, annual.

**No. 468. Federal, State, and Local Government Spending on Public Works: 1980 and 1987**

[In millions of dollars, except percent. Public works include expenditures on highways, airports and air traffic control, mass transit, water resources, wastewater, water supply, and solid waste. Represents expenditures from own funds, excluding intergovernmental grants. Data compiled from the Public Works Data Base]

LEVEL AND TYPE OF EXPENDITURE	Total	Highways	Airports	Mass transit	Water resources	Waste water	Water supply	Solid waste
<b>CURRENT DOLLARS</b>								
<b>1980: Total</b>	<b>78,211</b>	<b>33,869</b>	<b>5,048</b>	<b>8,564</b>	<b>6,282</b>	<b>10,286</b>	<b>10,815</b>	<b>3,347</b>
Federal	25,688	9,490	3,139	3,453	3,735	4,720	1,151	-
State	18,483	15,121	275	1,208	1,369	188	322	-
Local	34,040	9,258	1,635	3,902	1,178	5,378	9,342	3,347
Percent: Capital expenditures	49.8	57.3	32.6	32.6	51.3	64.8	44.1	12.7
Operations and maintenance	50.2	42.7	67.4	67.4	48.7	35.2	55.9	87.3
<b>1987: Total</b>	<b>124,652</b>	<b>52,547</b>	<b>8,814</b>	<b>15,122</b>	<b>7,731</b>	<b>15,265</b>	<b>18,709</b>	<b>6,463</b>
Federal	28,891	13,474	4,856	3,340	3,551	3,320	350	-
State	29,489	23,570	386	2,641	2,384	400	108	-
Local	66,272	15,503	3,572	9,142	1,795	11,545	18,252	6,463
Percent: Capital expenditures	42.2	53.8	36.0	22.2	35.2	50.5	34.1	16.4
Operations and maintenance	57.8	46.2	64.0	77.8	64.8	49.5	65.9	83.6
<b>CONSTANT (1984) DOLLARS</b>								
<b>1980: Total</b>	<b>96,483</b>	<b>41,618</b>	<b>6,296</b>	<b>10,625</b>	<b>7,746</b>	<b>12,588</b>	<b>13,390</b>	<b>4,221</b>
Federal	31,159	11,395	3,925	4,224	4,576	5,659	1,380	-
State	22,899	18,745	341	1,475	1,704	234	400	-
Local	42,426	11,477	2,030	4,927	1,467	6,694	11,610	4,221
Percent: Capital expenditures	48.3	55.8	31.4	31.4	49.8	63.5	42.7	12.0
Operations and maintenance	51.7	44.1	68.6	68.6	50.2	36.5	57.3	88.0
<b>1987: Total</b>	<b>13,886</b>	<b>48,207</b>	<b>8,032</b>	<b>13,743</b>	<b>7,041</b>	<b>13,987</b>	<b>17,032</b>	<b>5,844</b>
Federal	26,773	12,574	4,426	3,086	3,258	3,102	327	-
State	26,886	21,495	352	2,418	2,158	365	98	-
Local	60,228	14,138	3,254	8,240	1,625	10,521	16,607	5,844
Percent: Capital expenditures	43.2	54.8	36.9	22.9	36.1	51.5	34.9	16.9
Operations and maintenance	56.8	45.2	63.1	77.1	63.9	48.5	65.1	83.1

- Represents zero.

Source: Apogee Research, Inc., Bethesda, MD, unpublished data.

## No. 469. Federal Grants-in-Aid Summary: 1970 to 1992

[For fiscal year ending in year shown; see text, section 9. Minus sign (-) indicates decrease]

YEAR	CURRENT DOLLARS							CONSTANT (1982) DOLLARS	
	Total grants (bil. dol.)	Average annual percent change <sup>1</sup>	Grants to individuals		Grants as percent of—			Total grants (bil. dol.)	Average annual percent change <sup>1</sup>
			Total (bil. dol.)	Percent of total grants	State-local govt. outlays <sup>2</sup>	Federal outlays	Gross national product		
1970	24.0	17.2	8.6	35.8	19.0	12.3	2.4	61.2	11.6
1975	49.8	15.7	16.4	33.0	22.6	15.0	3.3	87.1	7.3
1980	91.5	10.4	31.9	34.9	25.8	15.5	3.4	105.9	-0.7
1985	105.9	8.5	48.1	45.4	20.9	11.2	2.7	94.0	4.2
1986	112.4	6.1	52.8	47.0	20.5	11.3	2.7	97.0	3.2
1987	108.4	-3.5	56.4	52.0	18.2	10.8	2.4	90.7	-6.5
1988	115.3	6.4	61.0	52.9	18.2	10.8	2.4	92.5	2.0
1989	121.8	5.6	65.9	54.1	(NA)	10.7	2.4	93.4	1.1
1990, est.	133.8	9.9	74.6	55.8	(NA)	11.2	2.4	98.2	5.1
1991, proj.	143.8	7.5	80.8	56.2	(NA)	11.7	2.4	100.7	-2.5
1992, proj.	149.4	3.9	86.9	58.2	(NA)	11.7	2.4	100.1	-0.6

NA Not available. <sup>1</sup> Average annual percent change from prior year shown. For explanation, see Guide to Tabular Presentation, 1970, change from 1965. <sup>2</sup> Outlays as defined in the national income and product accounts.

Source: Advisory Commission on Intergovernmental Relations, Washington, DC, *Significant Features of Fiscal Federalism*, 1990 Edition, vol. II, based on *Budget of the United States Government, FY 91*, Table 12.1.

## No. 470. Federal Aid to State and Local Governments: 1970 to 1990

[In millions of dollars. For fiscal year ending in year shown; see text, section 9. Includes trust funds. Minus sign (-) indicates previously disbursed funds returned to the Federal Government. See *Historical Statistics, Colonial Times to 1970*, series Y 638-651, for related data]

TYPE OF AID, FUNCTION, AND MAJOR PROGRAM	1970	1975	1980	1985	1987	1988	1989	1990, est.
Grant-in-aid shared revenue <sup>1</sup>	24,065	49,791	91,451	105,897	108,392	115,294	123,563	133,836
National defense	37	74	93	157	193	188	253	252
Natural resources and environment	411	2,437	5,363	4,069	4,073	3,747	3,606	3,841
Environmental Protection Agency	194	2,025	4,603	3,197	3,251	2,895	2,797	2,958
Energy	25	43	499	529	455	47	420	439
Agriculture	604	404	568	2,420	2,092	2,069	1,359	1,382
Transportation	4,599	5,864	13,087	17,055	16,919	18,083	18,225	18,700
Airports	83	292	590	789	917	825	1,135	1,284
Highways	4,395	4,702	9,209	12,841	12,649	13,926	13,360	13,675
Railroads		(2)	54	35	22	22	15	18
Urban mass transit	105	689	3,129	3,304	3,253	3,227	3,290	3,247
Community and regional development	1,780	2,842	6,486	5,221	4,235	4,267	4,074	5,128
Appalachian development	184	306	335	198	141	141	104	103
Community development block grants	(X)	38	3,902	3,817	2,967	3,050	2,948	3,050
Education, employment, training, social services	6,417	12,133	21,862	17,817	18,657	19,882	21,987	22,833
Compensatory education for the disadvantaged <sup>3</sup>	1,470	2,184	3,370	4,194	3,199	4,016	4,165	4,538
School improvement programs <sup>3</sup>	86	332	523	479	785	384	846	1,146
Bilingual and immigrant education <sup>3</sup>		93	166	111	103	130	132	166
Federally affected areas impact aid	622	577	622	629	695	694	735	752
Vocational and adult education	285	653	854	633	1,225	1,261	824	891
Libraries	105	210	158	79	122	94	131	135
Work incentives	81	304	383	274	137	90	80	-
Social services-block grants to States	574	2,047	2,763	2,743	2,688	2,666	2,671	2,761
Human development services	390	803	1,548	1,807	1,771	1,997	2,571	2,198
Training and employment assistance	954	2,504	6,191	2,775	2,929	2,958	3,020	3,084
Health <sup>1</sup>	3,849	8,810	15,758	24,451	29,466	32,586	36,679	42,928
Alcohol, drug abuse, and mental health <sup>4</sup>	146	590	679	501	622	720	666	1,188
Medicaid <sup>1</sup>	2,727	6,840	13,957	22,655	27,435	30,462	34,604	40,230
Income security <sup>1</sup>	5,795	9,352	18,495	27,153	29,972	31,620	32,523	35,403
Family support payments to States (AFDC and CSE)	4,142	5,121	7,273	9,169	10,540	10,764	11,166	12,085
Food stamps-administration	559	136	413	886	1,108	1,113	2,075	2,308
Child nutrition and special milk programs <sup>4</sup>	379	1,565	3,388	3,480	3,922	4,158	4,455	4,868
Housing assistance <sup>4</sup>	436	1,326	3,435	6,407	7,375	8,618	8,515	9,347
Veterans benefits and services	18	33	90	91	95	106	127	142
Administration of justice	42	725	529	95	234	338	347	473
General government <sup>5</sup>	479	7,072	8,616	6,838	2,000	1,950	2,204	2,315

- Represents zero. X Not applicable. Z Less than \$500,000. <sup>1</sup> Includes items not shown separately. <sup>2</sup> Includes \$5 million for international affairs subsequently provided to a private institution. <sup>3</sup> The 1983 Budget proposed dismantlement of the Dept. of Education (DED). Budget data for elementary and secondary education previously performed by DED are included in the Foundation for Education Assistance under compensatory education for the disadvantaged, school improvement (formerly titled "Special programs and populations") programs and bilingual and immigrant education. <sup>4</sup> Includes grants for payments to individuals. <sup>5</sup> Includes general purpose fiscal assistance.

Source: U.S. Office of Management and Budget, *Historical Tables, Budget of the United States Government, 1990*, and *Budget of the United States Government, 1991*.

# No. 471. Federal Aid to State and Local Governments—Selected Programs, by State: 1989

[In millions of dollars, except per capita. For fiscal year ending Sept. 30]

DIVISION, STATE, AND OUTLYING AREAS	FEDERAL AID <sup>1</sup>		OE <sup>3</sup> compensatory edu- cation <sup>4</sup>	EPA <sup>5</sup> waste treat- ment facilities con- struction	HHS <sup>6</sup>		HUD <sup>8</sup>		ETA <sup>10</sup> employ- ment/ training	Dept. of Transporta- tion, highway trust fund
	Total	Per capita <sup>2</sup> (dol.)			Family Support Admini- stration <sup>7</sup>	Medi- coid	Lower income housing assist- ance <sup>9</sup>	Communi- ty develop- ment		
<b>Total <sup>11</sup></b>	<b>121,079</b>	<b>481</b>	<b>4,155</b>	<b>2,335</b>	<b>13,724</b>	<b>34,506</b>	<b>6,900</b>	<b>2,942</b>	<b>3,020</b>	<b>13,197</b>
<b>New England</b>	<b>7,598</b>	<b>582</b>	<b>205</b>	<b>201</b>	<b>976</b>	<b>2,517</b>	<b>641</b>	<b>188</b>	<b>136</b>	<b>854</b>
Maine	688	563	22	9	81	257	46	15	13	58
New Hampshire	411	371	10	28	29	108	36	9	8	53
Vermont	356	829	11	14	45	95	23	5	7	49
Massachusetts	3,688	624	102	92	570	1,284	327	96	65	236
Rhode Island	684	686	15	18	78	221	68	20	12	110
Connecticut	1,771	547	45	40	173	552	141	41	31	348
<b>Middle Atlantic</b>	<b>23,660</b>	<b>627</b>	<b>762</b>	<b>554</b>	<b>3,204</b>	<b>8,296</b>	<b>1,497</b>	<b>340</b>	<b>452</b>	<b>1,802</b>
New York	13,700	763	432	301	2,095	5,583	809	312	211	617
New Jersey	3,570	462	130	136	382	1,032	351	92	89	371
Pennsylvania	6,390	531	200	117	727	1,681	337	197	152	814
<b>East North Central</b>	<b>18,934</b>	<b>448</b>	<b>616</b>	<b>359</b>	<b>3,032</b>	<b>5,652</b>	<b>1,025</b>	<b>511</b>	<b>623</b>	<b>1,637</b>
Ohio	4,965	455	135	103	747	1,714	284	133	159	429
Indiana	2,115	378	63	44	167	773	109	55	81	234
Illinois	4,989	428	189	76	695	1,118	342	158	161	564
Michigan	4,553	481	160	76	1,067	1,257	180	111	163	327
Wisconsin	2,312	475	59	60	356	790	100	56	59	226
<b>West North Central</b>	<b>7,999</b>	<b>448</b>	<b>214</b>	<b>177</b>	<b>892</b>	<b>2,198</b>	<b>412</b>	<b>181</b>	<b>181</b>	<b>1,139</b>
Minnesota	2,269	521	47	48	337	710	125	47	44	290
Iowa	1,183	416	33	47	128	354	43	26	30	192
Missouri	2,031	394	64	33	222	510	112	60	57	228
North Dakota	431	654	9	10	25	124	26	6	9	66
South Dakota	464	649	12	9	26	107	32	7	10	101
Nebraska	709	440	19	10	57	167	33	15	12	110
Kansas	912	363	30	20	97	226	41	20	19	152
<b>South Atlantic</b>	<b>18,200</b>	<b>422</b>	<b>655</b>	<b>381</b>	<b>1,579</b>	<b>4,780</b>	<b>1,014</b>	<b>439</b>	<b>566</b>	<b>2,373</b>
Delaware	313	465	14	14	24	63	29	7	7	44
Maryland	2,156	459	65	73	194	544	147	40	49	427
District of Columbia	1,523	2,521	20	11	93	194	49	41	17	71
Virginia	2,119	347	76	59	174	462	145	45	51	382
West Virginia	952	513	36	35	123	263	51	20	28	93
North Carolina	2,498	380	92	40	209	841	148	51	77	262
South Carolina	1,455	414	60	21	97	445	82	40	41	184
Georgia	3,089	480	110	45	286	830	152	63	57	360
Florida	4,095	323	182	83	379	1,139	211	132	105	550
<b>East South Central</b>	<b>7,374</b>	<b>479</b>	<b>307</b>	<b>109</b>	<b>468</b>	<b>2,289</b>	<b>428</b>	<b>161</b>	<b>228</b>	<b>765</b>
Kentucky	1,853	497	70	33	144	636	112	31	57	177
Tennessee	2,353	476	80	31	140	830	128	45	65	190
Alabama	1,802	437	82	25	92	407	117	52	69	288
Mississippi	1,366	521	75	20	92	416	71	33	37	110
<b>West South Central</b>	<b>10,892</b>	<b>403</b>	<b>474</b>	<b>180</b>	<b>610</b>	<b>3,039</b>	<b>565</b>	<b>277</b>	<b>282</b>	<b>1,500</b>
Arkansas	1,106	460	50	7	62	263	59	25	32	108
Louisiana	2,304	526	95	34	156	891	104	53	57	245
Oklahoma	1,508	468	38	9	117	464	94	34	32	217
Texas	5,974	352	291	130	275	1,421	308	165	141	930
<b>Mountain</b>	<b>6,326</b>	<b>468</b>	<b>175</b>	<b>92</b>	<b>443</b>	<b>1,206</b>	<b>310</b>	<b>118</b>	<b>154</b>	<b>1,056</b>
Montana	559	693	13	4	34	123	39	7	13	107
Idaho	501	494	14	8	29	96	19	13	13	111
Wyoming	484	1,018	6	9	16	39	7	2	7	83
Colorado	1,359	410	39	27	111	279	77	23	28	203
New Mexico	907	593	31	7	66	185	35	13	19	131
Arizona	1,305	367	49	11	98	263	73	31	49	174
Utah	822	482	15	16	66	158	26	21	14	176
Nevada	389	351	8	10	23	63	34	8	11	71
<b>Pacific</b>	<b>16,847</b>	<b>440</b>	<b>581</b>	<b>252</b>	<b>2,395</b>	<b>4,319</b>	<b>868</b>	<b>348</b>	<b>451</b>	<b>1,767</b>
Washington	2,294	482	57	23	298	572	89	39	62	356
Oregon	1,426	506	42	24	120	310	58	22	40	134
California	11,936	411	455	177	1,871	3,260	655	279	325	1,010
Alaska	663	1,258	15	6	40	70	36	6	12	192
Hawaii	528	475	12	22	66	107	30	2	12	75
<b>Outlying areas</b>	<b>2,882</b>	<b>811</b>	<b>142</b>	<b>33</b>	<b>131</b>	<b>81</b>	<b>160</b>	<b>120</b>	<b>99</b>	<b>81</b>

<sup>1</sup> Includes other amounts not shown separately. <sup>2</sup> Based on Bureau of the Census estimated resident population as of July 1. <sup>3</sup> Office of Education. <sup>4</sup> For the disadvantaged. <sup>5</sup> Environmental Protection Agency. <sup>6</sup> Department of Health and Human Services. <sup>7</sup> Includes work incentives, family support payments (Aid to Families with Dependent Children), community service block grant, low income home energy assistance, refugee assistance, and assistance for legalized aliens. <sup>8</sup> Department of Housing and Urban Development. <sup>9</sup> Includes public housing, housing payments (section 8) to public agencies, and college housing. <sup>10</sup> Employment and Training Administration, Job Training Partnership Act. <sup>11</sup> Includes \$366 million undistributed by State (programs shown here which are affected are compensatory education (\$23 million), waste treatment facilities construction (\$-1 million), lower income housing assistance (\$-19 million), employment/training (\$1 million), and highway trust fund (\$81 million).

Source: U.S. Bureau of the Census, *Federal Expenditures by State for Fiscal Year*, annual.

## No. 472. State and Local Governments—Summary of Finances: 1980 to 1988

[For fiscal year ending in year shown, see text, section 9. Except for 1987, local government amounts included here are estimates subject to sampling variations; see Appendix III and source. See also *Historical Statistics, Colonial Times to 1970*, series Y 652-709]

SOURCE OF REVENUE AND TYPE OF EXPENDITURE	TOTAL (mil. dol.)			PER CAPITA (dol.) <sup>1</sup>			PERCENT DISTRIBUTION		
	1980	1987	1988	1980	1987	1988	1980	1987	1988
<b>Revenue<sup>2</sup></b>	<b>451,537</b>	<b>844,302</b>	<b>884,516</b>	<b>1,993</b>	<b>3,469</b>	<b>3,599</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
From Federal Government	83,029	114,857	117,602	366	472	479	18.4	13.8	13.3
Public welfare	24,921	45,298	48,375	110	186	197	5.5	5.4	5.5
Highways	9,980	13,243	13,822	40	54	56	2.0	1.6	1.6
Education	14,435	18,379	19,506	64	76	79	3.2	2.2	2.2
Employment security administration	2,056	2,805	2,907	9	12	12	0.5	0.3	0.3
Revenue sharing	6,844	2,451	-	30	10	-	1.5	0.3	0.0
Other and unallocable	25,793	32,683	32,992	114	134	134	5.7	3.9	3.7
From State and local sources	368,508	729,445	766,914	1,627	2,997	3,120	81.6	86.4	86.7
General, net intergovernmental	299,293	572,427	609,559	1,321	2,352	2,480	66.3	67.8	68.9
Taxes	223,463	405,227	435,691	986	1,665	1,773	49.5	48.0	49.3
Property	68,499	121,112	132,240	302	498	538	15.2	14.4	15.0
Sales and gross receipts	79,927	144,563	156,373	353	594	636	17.7	17.1	17.7
Individual income	42,080	83,683	88,350	186	344	360	9.3	9.9	10.0
Corporation income	13,321	22,672	23,663	59	93	96	3.0	2.7	2.7
Other	19,636	33,197	35,065	87	136	143	4.3	3.9	4.0
Charges and miscellaneous	75,830	167,200	173,868	335	687	707	16.8	19.8	19.7
Utility and liquor stores	25,560	50,168	52,516	113	206	214	5.7	6.0	5.9
Water supply system	6,766	14,403	15,315	30	59	62	1.5	1.7	1.7
Electric power system	11,387	24,672	26,240	50	101	107	2.5	2.9	3.0
Transit system	2,397	4,763	4,766	11	20	19	0.5	0.6	0.5
Gas supply system	1,809	2,971	2,905	8	12	12	0.4	0.4	0.3
Liquor stores	3,201	3,358	3,290	14	14	13	0.7	0.4	0.4
Insurance trust revenue <sup>3</sup>	43,656	106,850	104,840	193	439	427	9.7	12.7	11.9
Employee retirement	25,441	79,491	77,818	112	327	317	5.6	9.4	8.8
Unemployment compensation	13,529	18,925	17,273	60	78	70	3.0	2.0	2.0
<b>Direct expenditure</b>	<b>432,328</b>	<b>774,590</b>	<b>824,507</b>	<b>1,908</b>	<b>3,182</b>	<b>3,354</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
By function:									
Direct general expenditure <sup>3</sup>	367,340	654,678	702,240	1,621	2,690	2,857	85.0	84.5	85.2
Education <sup>3</sup>	133,211	226,619	242,683	588	931	987	30.8	29.3	29.4
Elementary and secondary education	92,930	156,910	169,694	410	645	690	21.5	20.3	20.6
Higher education	33,919	60,073	62,688	150	247	255	7.8	7.8	7.6
Highways	33,311	52,355	55,621	147	215	226	7.7	6.8	6.8
Public welfare	45,552	80,220	86,469	201	330	352	10.5	10.4	10.5
Health	8,387	16,903	18,488	37	70	75	1.9	2.2	2.3
Hospitals	23,787	40,184	43,452	105	165	177	5.5	5.2	5.3
Police protection	13,494	24,742	26,277	60	102	107	3.1	3.2	3.2
Fire protection	5,718	10,453	11,753	25	43	48	1.3	1.4	1.4
Natural resources	5,509	9,843	10,238	24	41	42	1.3	1.3	1.3
Sanitation and sewerage	13,214	21,647	23,679	58	89	96	3.1	2.8	2.9
Housing and community development	6,062	11,770	13,243	27	48	54	1.4	1.5	1.6
Parks and recreation	6,520	11,018	12,070	29	45	49	1.5	1.4	1.5
Financial administration	6,719	12,872	13,589	30	53	55	1.6	1.7	1.7
General control	8,897	17,186	19,043	38	71	78	2.0	2.2	2.3
Interest on general debt <sup>4</sup>	14,747	41,891	44,318	65	172	180	3.4	5.4	5.4
Utility and liquor stores <sup>5</sup>	36,191	69,108	70,052	160	284	285	8.4	8.9	8.5
Water supply system	9,228	18,467	18,867	41	76	77	2.1	2.4	2.3
Electric power system	15,016	28,951	29,047	66	119	118	3.5	3.7	3.5
Transit system	7,641	15,860	16,476	34	65	67	1.8	2.1	2.0
Gas supply system	1,715	2,895	2,825	8	12	12	0.4	0.4	0.4
Liquor stores	2,591	2,936	2,837	11	12	12	0.6	0.4	0.4
Insurance trust expenditure <sup>3</sup>	28,797	50,804	52,216	127	209	213	6.7	6.6	6.3
Employee retirement	14,008	29,603	32,125	62	122	131	3.2	3.8	3.9
Unemployment compensation	12,070	15,248	13,093	53	63	59	2.8	2.0	1.6
By character and object:									
Current operation	307,811	551,091	591,247	1,359	2,264	2,405	71.2	71.2	71.7
Capital outlay	62,894	98,842	104,314	278	406	424	14.5	12.8	12.7
Construction	51,492	74,162	78,592	227	305	320	11.9	9.6	9.5
Equipment, land and existing structures	11,402	24,679	25,722	50	101	105	2.6	3.2	3.1
Assistance and subsidies	15,222	23,466	23,928	67	97	97	3.5	3.0	2.9
Interest on debt (general and utility)	17,604	50,387	52,803	78	207	215	4.1	6.5	6.4
Insurance benefits and repayments	28,797	50,804	52,216	127	209	213	6.7	6.6	6.3
<b>Expenditure for salaries and wages</b>	<b>163,896</b>	<b>274,734</b>	<b>295,690</b>	<b>723</b>	<b>1,129</b>	<b>1,203</b>	<b>37.9</b>	<b>35.5</b>	<b>35.9</b>
<b>Debt outstanding, end of year</b>	<b>335,803</b>	<b>727,132</b>	<b>755,034</b>	<b>1,481</b>	<b>2,987</b>	<b>3,072</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Long-term	322,456	711,219	739,298	1,423	2,922	3,008	96.1	97.8	97.9
Short-term	13,147	15,913	15,736	58	65	64	3.9	2.2	2.1
Long-term debt:									
Issued	42,364	134,358	89,703	187	552	365	(X)	(X)	(X)
Retired	17,404	83,037	63,759	77	341	259	(X)	(X)	(X)

<sup>1</sup> Represents or rounds to zero. X Not applicable. <sup>2</sup> Based on estimated resident population as of July 1; except 1980 based on enumerated resident population as of April 1, 1980. <sup>3</sup> Aggregates exclude duplicative transactions between State and local governments; see source. <sup>4</sup> Includes amounts not shown separately. <sup>5</sup> Interest on utility debt included in "utility expenditure." For total interest on debt, see "Interest on debt (general and utility)."

Source: U.S. Bureau of the Census, *Historical Statistics on Governmental Finances and Employment* (GC 82(6)-4) and *Government Finances*, series GF, No. 5, annual.



**No. 473. State and Local Government Receipts and Expenditures in the National Income and Product Accounts: 1970 to 1989**

[In billions of dollars. For explanation of national income, see text, section 14]

ITEM	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>Receipts</b>	<b>135.8</b>	<b>390.0</b>	<b>449.4</b>	<b>487.7</b>	<b>540.5</b>	<b>581.8</b>	<b>626.3</b>	<b>655.2</b>	<b>697.6</b>	<b>749.9</b>
General, own source	102.1	271.6	329.7	363.0	406.7	438.9	472.5	503.3	533.8	575.0
Personal tax and nontax receipts <sup>1</sup>	23.6	82.6	104.9	116.1	129.8	140.2	51.0	165.8	176.5	194.8
Income taxes	10.9	42.6	51.9	58.3	67.6	72.2	77.6	86.2	90.1	101.7
Nontaxes	8.3	31.5	43.2	47.4	51.3	56.2	61.2	65.9	71.6	77.6
Corporate profits tax accruals	3.7	14.5	14.0	15.9	18.7	20.2	22.5	23.7	25.7	24.7
Indirect business tax and nontax accruals <sup>1</sup>	74.8	174.5	210.8	231.0	258.2	278.5	298.5	313.8	331.7	355.6
Sales taxes	31.6	82.9	96.2	106.6	120.8	131.0	140.0	149.3	160.7	170.9
Property taxes	36.7	68.8	85.3	91.9	99.7	107.1	114.6	121.3	127.9	139.9
Contributions for social insurance	9.2	29.7	35.8	38.5	40.2	43.2	47.1	49.3	52.7	56.7
Federal grants-in-aid	24.4	88.7	83.9	86.2	93.6	99.7	106.8	102.6	111.1	118.2
<b>Expenditures</b>	<b>134.0</b>	<b>363.2</b>	<b>414.3</b>	<b>440.2</b>	<b>475.9</b>	<b>516.7</b>	<b>563.5</b>	<b>604.1</b>	<b>651.1</b>	<b>703.5</b>
Purchases of goods and services	119.4	322.2	369.0	391.5	425.3	465.6	505.7	540.2	582.3	625.6
Compensation of employees	71.1	192.2	226.9	241.7	258.5	278.8	300.3	321.1	345.8	373.0
Transfer payments to persons	20.1	65.7	79.9	86.5	93.7	101.1	110.9	119.7	131.6	145.9
Net interest paid <sup>2</sup>	-1.8	-17.0	24.4	-26.2	-28.4	-32.4	-34.4	-34.9	-38.5	40.2
Less: Dividends received	0.2	1.9	2.9	2.8	3.5	4.5	5.5	6.4	7.8	9.1
Subsidies <sup>3</sup>	-3.6	-5.8	-7.3	-8.8	11.3	-13.1	-13.2	-14.4	-16.5	-18.8
<b>Surplus</b>	<b>1.8</b>	<b>26.8</b>	<b>35.1</b>	<b>47.5</b>	<b>64.6</b>	<b>65.1</b>	<b>62.8</b>	<b>51.0</b>	<b>46.5</b>	<b>46.4</b>

<sup>1</sup> Includes other items not shown separately. <sup>2</sup> Interest paid less interest received. <sup>3</sup> Less current surplus of government.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

**No. 474. New Issues of Long-Term State and Local Government Securities: 1970 to 1988**

[In billions of dollars. Beginning 1982, includes outlying areas]

ITEM	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988
All issues, new capital and refunding	18.2	48.5	79.0	85.1	108.0	222.2	151.2	105.7	116.8	125.1
General obligations	11.9	14.1	21.1	21.5	26.7	54.1	42.7	30.5	29.4	37.2
Revenue	6.1	34.3	58.0	63.6	81.3	168.1	108.5	75.2	87.4	87.9
Type of issuer:										
State	4.2	5.3	10.3	9.2	9.1	13.1	14.7	9.8	9.3	11.7
Special district and statutory authority	5.6	27.0	43.3	48.6	64.5	138.6	85.1	61.6	68.3	69.7
Municipalities, counties, townships	8.4	16.1	25.4	27.3	34.3	70.5	51.4	34.3	39.2	43.7
Issues for new capital, total	18.1	46.7	74.8	71.1	95.2	160.0	80.8	55.3	77.2	81.1
Use of proceeds:										
Education	5.0	4.6	6.5	8.2	7.9	16.6	11.4	9.1	13.5	13.8
Transportation	3.2	2.6	6.3	4.4	7.6	12.1	7.8	3.9	7.1	9.0
Roads, bridges	1.5	1.1	1.7	1.3	2.0	4.7	4.2	1.7	2.4	2.9
Utilities and conservation	3.5	8.0	13.5	18.0	27.0	13.1	110.6	9.8	9.8	12.8
Electric and gas	0.9	3.4	7.1	6.3	6.8	10.9	5.1	1.8	0.7	2.3
Social welfare	1.2	19.4	25.6	25.4	29.4	63.3	12.5	10.5	16.6	14.8
Public housing	0.5	15.5	14.9	17.4	19.3	37.2	8.7	7.0	10.9	6.9
Industrial aid	0.1	1.7	2.9	3.6	15.7	14.1	4.7	2.4	2.5	3.4
Other	5.1	10.4	19.2	16.0	16.6	26.9	31.3	18.8	27.7	27.3

<sup>1</sup> Includes school districts.

Source: Public Securities Association, New York, NY, *Statistical Yearbook of Municipal Finances*, periodic, and IDD/PSA Municipal Database.

**No. 475. State and Local Governments—Indebtedness: 1980 to 1988**

[In billions of dollars, except per capita. As of end of fiscal year; see text, section 9. Except for 1987, local government amounts are estimates subject to sampling variation; see source and Appendix III. See *Historical Statistics, Colonial Times to 1970*, series Y 680, Y 747, and Y 794, for debt outstanding]

ITEM	DEBT OUTSTANDING					LONG-TERM			
	Total	Per capita <sup>1</sup> (dol.)	Long-term			Short-term	Net long-term	Debt issued	Debt retired
			Local schools <sup>2</sup>	Utilities	All other				
<b>1980: Total</b>	<b>335.6</b>	<b>1,482</b>	<b>32.3</b>	<b>55.2</b>	<b>235.0</b>	<b>13.1</b>	<b>262.9</b>	<b>42.4</b>	<b>17.4</b>
State	122.0	540	3.8	4.6	111.5	2.1	79.8	16.4	5.7
Local	213.6	942	28.5	50.6	123.5	11.0	183.1	25.9	11.7
<b>1985: Total</b>	<b>568.6</b>	<b>2,382</b>	<b>43.8</b>	<b>90.8</b>	<b>414.5</b>	<b>19.6</b>	<b>430.5</b>	<b>101.2</b>	<b>43.5</b>
State	211.9	890	6.7	8.6	193.8	2.8	110.4	41.7	16.4
Local	356.7	1,494	37.1	82.2	220.6	16.8	320.1	59.5	27.2
<b>1987: Total</b>	<b>727.1</b>	<b>2,987</b>	<b>49.2</b>	<b>120.5</b>	<b>541.5</b>	<b>15.9</b>	<b>518.3</b>	<b>134.4</b>	<b>83.0</b>
State	265.6	1,094	7.9	11.9	244.1	1.6	143.4	50.2	33.3
Local	461.6	1,896	41.3	108.6	297.3	14.3	375.0	84.1	49.8
<b>1988: Total</b>	<b>755.0</b>	<b>3,072</b>	<b>47.5</b>	<b>124.9</b>	<b>566.9</b>	<b>15.7</b>	<b>425.4</b>	<b>89.7</b>	<b>63.8</b>
State	276.8	1,129	3.3	12.2	260.0	1.3	108.8	36.4	26.1
Local	478.2	1,946	44.2	112.7	306.9	14.4	316.5	53.3	37.6

<sup>1</sup> 1980 based on enumerated resident population as of April 1; 1985, 1987 and 1988 based on estimated resident population as of July 1. <sup>2</sup> Includes debt for education activities other than higher education.

Source: U.S. Bureau of the Census, *Government Finances*, series GF, No. 5, annual, and unpublished data.

**No. 476. State and Local Governments—Revenue, Expenditure, and Debt**

[In millions of dollars, except as indicated. For fiscal years ending in year shown; see text, section 9. Except for 1982

YEAR, DIVISION, AND STATE	GENERAL REVENUE											Per \$1,000 person- al in- come <sup>3</sup> (dol.)
	Total <sup>1</sup>	Amount from—					Per capita <sup>2</sup> (dol.)					
		Federal Government	Taxes			Current charges	Total		Taxes			
			Total	Prop- erty	Other		Amount	Rank	Total	Rank		
1970.	130,756	21,857	86,795	34,054	52,741	14,873	643	(X)	427	(X)	176	
1980.	382,322	83,029	223,463	68,499	154,964	44,373	1,688	(X)	987	(X)	198	
1982.	457,654	87,282	266,390	82,067	184,322	56,920	2,020	(X)	1,176	(X)	190	
1983.	486,753	90,007	284,436	89,105	195,332	62,625	2,078	(X)	1,214	(X)	172	
1984.	542,730	96,935	320,194	96,457	223,737	69,022	2,295	(X)	1,354	(X)	175	
1985.	598,121	106,158	350,367	103,757	246,610	74,323	2,505	(X)	1,468	(X)	180	
1986.	641,458	113,099	373,051	111,711	261,340	80,400	2,661	(X)	1,547	(X)	182	
1987.	687,284	114,857	405,227	121,112	284,115	87,447	2,823	(X)	1,665	(X)	182	
U.S., 1988. . . .	727,161	117,602	435,691	132,240	303,452	94,558	2,958	(X)	1,772	(X)	179	
New England:												
Maine	3,584	730	2,207	700	1,508	308	2,974	22	1,832	16	197	
New Hampshire	2,590	381	1,597	1,016	581	317	2,387	41	1,472	36	123	
Vermont	1,765	353	1,037	418	619	197	3,168	13	1,862	14	207	
Massachusetts	19,651	3,376	12,722	4,068	8,654	1,924	3,337	10	2,160	7	160	
Rhode Island	3,051	588	1,828	700	1,128	293	3,072	16	1,841	15	182	
Connecticut	10,801	1,521	7,371	2,945	4,425	783	3,341	9	2,280	4	145	
Middle Atlantic:												
New York	79,239	12,514	52,546	15,398	37,148	7,735	4,425	4	2,934	3	229	
New Jersey	26,405	3,765	17,116	7,203	9,913	2,695	3,420	8	2,217	6	155	
Pennsylvania	31,851	5,389	19,531	5,272	14,259	3,117	2,654	31	1,627	26	163	
East North Central:												
Ohio	28,224	4,754	17,027	4,792	12,235	3,711	2,600	36	1,569	28	167	
Indiana	13,456	2,169	8,006	2,477	5,529	2,298	2,422	40	1,441	38	162	
Illinois	31,673	4,869	20,692	7,289	13,404	3,050	2,727	28	1,782	19	155	
Michigan	28,708	4,559	17,407	6,618	10,789	3,957	3,107	14	1,884	13	188	
Wisconsin	14,642	2,379	9,170	3,224	5,946	1,964	3,016	19	1,889	12	194	
West North Central:												
Minnesota	15,556	2,463	8,992	2,683	6,308	2,192	3,612	5	2,088	9	217	
Iowa	8,033	1,248	4,703	1,810	2,893	1,353	2,834	24	1,660	24	193	
Missouri	11,439	1,813	7,051	1,521	5,530	1,574	2,225	50	1,372	41	144	
North Dakota	2,003	442	958	278	680	359	3,003	20	1,436	39	234	
South Dakota	1,834	430	943	384	559	203	2,572	37	1,322	44	202	
Nebraska	4,440	704	2,495	1,032	1,463	807	2,772	26	1,557	29	188	
Kansas	6,869	918	4,182	1,456	2,726	940	2,753	27	1,676	23	175	
South Atlantic:												
Delaware	2,259	320	1,201	171	1,030	393	3,422	7	1,820	17	194	
Maryland	14,912	2,277	9,673	2,345	7,328	1,410	3,226	12	2,093	8	166	
District of Columbia	3,980	1,495	2,060	609	1,451	212	6,450	2	3,339	2	302	
Virginia	15,941	2,317	10,146	2,853	7,293	2,299	2,650	33	1,687	21	150	
West Virginia	4,314	1,011	2,273	429	1,844	524	2,300	46	1,212	48	196	
North Carolina	15,385	2,481	9,619	2,014	7,605	1,864	2,371	42	1,482	34	166	
South Carolina	8,221	1,471	4,641	1,109	3,531	1,438	2,369	43	1,337	42	183	
Georgia	17,069	2,931	9,456	2,517	6,939	3,267	2,691	30	1,491	33	176	
Florida	32,073	3,776	18,804	6,105	12,699	4,951	2,600	35	1,524	31	157	
East South Central:												
Kentucky	8,654	1,807	4,737	814	3,923	1,104	2,322	45	1,271	45	181	
Tennessee	11,237	2,307	6,080	1,334	4,746	1,972	2,296	47	1,242	47	165	
Alabama	9,654	2,113	4,683	543	4,140	1,876	2,354	44	1,142	49	183	
Mississippi	5,940	1,399	2,850	699	2,150	1,198	2,267	48	1,088	51	204	
West South Central:												
Arkansas	4,801	1,028	2,665	482	2,184	666	2,004	51	1,113	50	164	
Louisiana	11,611	2,143	5,857	947	4,910	1,760	2,634	34	1,329	43	214	
Oklahoma	8,096	1,317	4,548	860	3,688	1,348	2,497	39	1,403	40	187	
Texas	42,518	6,000	25,186	9,737	15,448	5,628	2,525	38	1,495	32	173	
Mountain:												
Montana	2,463	581	1,238	539	699	222	3,060	18	1,538	30	238	
Idaho	2,263	456	1,264	358	906	372	2,256	49	1,260	46	178	
Wyoming	2,248	453	980	438	542	283	4,692	3	2,046	10	345	
Colorado	9,758	1,368	5,564	1,993	3,571	1,499	2,956	23	1,686	22	180	
New Mexico	4,627	721	2,218	246	1,973	533	3,070	17	1,472	35	246	
Arizona	9,456	1,161	5,898	1,836	4,063	1,120	2,710	29	1,690	20	181	
Utah	4,484	888	2,467	676	1,791	636	2,653	32	1,460	37	218	
Nevada	2,964	385	1,745	402	1,342	485	2,813	25	1,655	25	161	
Pacific:												
Washington	13,937	2,441	8,286	2,412	5,874	2,035	2,999	21	1,783	18	182	
Oregon	8,502	1,665	4,433	2,090	2,344	1,180	3,072	15	1,602	27	206	
California	93,902	14,551	55,168	15,381	39,786	13,564	3,316	11	1,948	11	177	
Alaska	6,281	801	1,889	662	1,227	492	11,986	1	3,605	1	628	
Hawaii	3,801	575	2,480	354	2,126	453	3,461	6	2,259	5	207	

X Not applicable. <sup>1</sup> Includes miscellaneous revenue, not shown separately. <sup>2</sup> Data for 1970 and 1980-1982 based on enumerated resident population as of April 1, 1970 and 1980, respectively; 1983-1988 based on estimated resident population as of July 1.

# Debt and Expenditures

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## 1970 to 1988, and by State, 1988

and 1987, local government amounts included here are estimates subject to sampling variation; see source and Appendix III]

DEBT OUTSTANDING			DIRECT GENERAL EXPENDITURE								CAPITAL OUTLAY <sup>4</sup>		YEAR, DIVISION, AND STATE
Total	Per cap- ita (dol.)	Rank	Total	Per cap- ita (dol.)	Rank	Educa- tion	High- ways	Public wel- fare	Health, hospitals	All other	Total	Per cap- ita <sup>2</sup> (dol.)	
143,570	706	(X)	131,332	648	(X)	52,718	16,427	14,679	9,668	37,840	29,650	146	1970
335,603	1,482	(X)	367,340	1,622	(X)	133,211	33,311	45,552	32,174	123,082	62,894	278	1980
404,579	1,786	(X)	435,103	1,921	(X)	154,283	34,520	56,216	40,882	149,202	66,802	296	1982
454,501	1,940	(X)	464,752	1,984	(X)	163,876	36,555	59,157	43,750	161,314	67,734	289	1983
506,330	2,141	(X)	503,375	2,128	(X)	178,108	39,419	64,709	46,419	176,720	70,651	299	1984
568,633	2,382	(X)	552,033	2,312	(X)	192,686	44,988	69,523	49,678	195,157	79,901	335	1985
658,875	2,733	(X)	603,684	2,504	(X)	210,819	49,368	73,875	53,613	216,009	90,457	375	1986
727,132	2,987	(X)	654,678	2,690	(X)	226,619	52,355	80,220	57,088	238,397	98,842	406	1987
<b>755,034</b>	<b>3,072</b>	<b>(X)</b>	<b>702,240</b>	<b>2,857</b>	<b>(X)</b>	<b>242,683</b>	<b>55,621</b>	<b>86,469</b>	<b>61,940</b>	<b>255,527</b>	<b>104,314</b>	<b>424</b>	<b>U.S., 1988</b>
<b>New England:</b>													
2,740	2,274	39	3,244	2,693	25	1,138	303	542	151	1,110	433	359	Maine
3,454	3,183	25	2,649	2,441	38	966	302	278	146	957	391	361	New Hampshire
1,317	2,365	37	1,631	2,928	19	677	179	197	59	519	175	314	Vermont
20,793	3,531	17	19,353	3,286	8	5,433	1,065	3,294	1,849	7,712	2,542	432	Massachusetts
3,541	3,566	16	3,034	3,056	12	976	213	494	223	1,128	340	342	Rhode Island
11,117	3,438	22	10,553	3,264	9	3,283	980	1,308	782	4,199	1,334	412	Connecticut
<b>Middle Atlantic:</b>													
80,378	4,488	8	75,225	4,200	4	21,732	3,967	12,669	7,785	29,072	9,816	548	New York
30,116	3,901	11	25,453	3,297	6	8,348	2,156	2,940	1,504	10,505	3,308	428	New Jersey
39,423	3,285	23	30,215	2,518	36	10,850	2,611	4,583	1,636	10,535	3,375	281	Pennsylvania
<b>East North Central:</b>													
20,342	1,874	45	28,004	2,580	31	10,186	2,009	4,484	2,350	8,975	3,621	334	Ohio
8,086	1,455	50	12,748	2,294	41	5,365	1,008	1,475	1,278	3,622	1,615	291	Indiana
28,145	2,423	36	30,329	2,611	28	10,289	2,707	3,980	1,867	11,486	4,348	374	Illinois
19,605	2,122	42	28,850	3,122	11	10,985	1,725	4,395	2,921	8,824	3,315	359	Michigan
10,197	2,100	43	14,309	2,947	17	5,659	1,144	2,310	904	4,293	1,451	299	Wisconsin
<b>West North Central:</b>													
17,806	4,134	10	14,947	3,470	5	5,047	1,422	2,142	1,222	5,114	2,373	551	Minnesota
4,701	1,659	49	7,511	2,650	26	3,037	948	897	694	1,935	1,097	387	Iowa
9,165	1,783	48	10,996	2,139	50	4,268	993	1,149	1,147	3,438	1,648	320	Missouri
1,633	2,448	35	1,948	2,921	20	741	244	243	80	640	264	395	North Dakota
1,988	2,789	30	1,679	2,355	39	595	258	164	90	572	323	453	South Dakota
6,157	3,843	12	4,160	2,597	29	1,624	458	437	446	1,195	732	457	Nebraska
7,090	2,842	29	6,393	2,562	32	2,468	778	561	541	2,045	869	348	Kansas
<b>South Atlantic:</b>													
3,749	5,680	3	2,174	3,294	7	804	210	132	115	913	291	441	Delaware
14,431	3,122	26	13,648	2,953	16	4,613	1,381	1,551	567	5,537	2,419	523	Maryland
3,838	6,221	2	3,569	5,785	2	603	141	613	423	1,789	573	928	District of Columbia
12,015	1,997	44	15,864	2,637	27	6,111	1,736	1,215	1,464	5,339	2,623	436	Virginia
5,427	2,893	27	4,281	2,282	43	1,627	519	490	288	1,356	533	284	West Virginia
14,032	2,162	41	14,735	2,271	45	6,177	1,224	1,419	1,405	4,510	2,607	402	North Carolina
8,893	2,563	32	7,958	2,293	42	3,245	577	653	1,133	2,350	1,318	380	South Carolina
15,600	2,460	34	16,460	2,595	30	5,776	1,323	1,656	2,872	4,833	3,306	521	Georgia
43,262	3,507	19	31,514	2,555	33	9,977	2,691	2,424	3,029	13,392	6,265	508	Florida
<b>East South Central:</b>													
12,927	3,468	21	8,465	2,271	44	3,000	873	1,128	611	2,853	1,275	342	Kentucky
11,178	2,283	38	10,972	2,242	47	3,628	1,003	1,477	1,370	3,494	1,774	362	Tennessee
9,040	2,204	40	9,149	2,230	48	3,518	849	698	1,389	2,695	1,337	326	Alabama
4,731	1,806	47	5,881	2,245	46	2,208	520	632	942	1,579	738	282	Mississippi
<b>West South Central:</b>													
4,363	1,822	46	4,667	1,948	51	1,959	484	559	420	1,245	671	280	Arkansas
19,856	4,504	7	11,131	2,525	35	3,383	956	1,108	1,343	4,342	1,536	348	Louisiana
8,007	2,470	33	7,481	2,307	40	2,818	711	943	755	2,254	1,149	354	Oklahoma
59,320	3,522	18	41,402	2,458	37	16,578	4,415	3,025	3,258	14,127	8,765	520	Texas
<b>Mountain:</b>													
2,289	2,843	28	2,265	2,814	24	864	280	248	124	749	288	357	Montana
1,207	1,204	51	2,232	2,226	49	821	256	201	269	685	397	396	Idaho
2,198	4,588	6	2,050	4,279	3	764	267	91	274	654	442	923	Wyoming
11,975	3,628	15	9,538	2,889	21	3,523	842	894	718	3,560	1,741	527	Colorado
5,237	3,475	20	4,281	2,841	23	1,574	449	370	343	1,544	785	521	New Mexico
18,698	5,359	5	10,398	2,980	13	3,936	1,218	829	451	3,964	2,709	777	Arizona
9,293	5,499	4	4,284	2,535	34	1,830	373	379	300	1,402	715	423	Utah
3,831	3,635	14	3,090	2,931	18	915	293	177	213	1,491	605	574	Nevada
<b>Pacific:</b>													
20,304	4,368	9	13,334	2,869	22	5,067	1,073	1,468	975	4,749	2,802	603	Washington
10,487	3,790	13	8,194	2,961	15	3,115	563	650	568	3,299	899	325	Oregon
76,537	2,703	31	91,729	3,240	10	28,558	4,193	12,271	8,273	38,434	11,115	393	California
10,925	20,850	1	5,002	9,546	1	1,141	542	310	149	2,861	666	1,272	Alaska
3,591	3,270	24	3,262	2,970	14	883	186	317	224	1,652	598	545	Hawaii

<sup>3</sup> 1970 to 1982, based on personal income for the previous calendar year; beginning 1983 based on income for calendar year.  
<sup>4</sup> Includes general functions, liquor stores, and utilities.

Source: U.S. Bureau of the Census, *Government Finances*, series GF, No. 5, annual.

## No. 477. State Governments—Revenue,

[Data will not match other tables due to later revisions. In millions of dollars, except as indicated.]

YEAR, DIVISION, AND STATE	Total revenue <sup>1</sup>	GENERAL REVENUE								DEBT OUT- STAND- ING
		Total		Per capita <sup>2</sup>		Intergovern- mental revenue		Taxes	Charges and miscel- laneous	
		Amount	Rank	Total (dol.)	Rank	From Federal Government	From local governments			Total
1970	88,939	77,755	(X)	384	(X)	12,252	995	47,962	9,545	42,008
1980	276,962	233,592	(X)	1,034	(X)	61,892	2,434	137,075	32,190	121,958
1983	357,661	290,480	(X)	1,243	(X)	68,985	3,742	171,440	46,312	167,290
1984	397,087	330,740	(X)	1,402	(X)	76,140	5,310	196,795	52,495	186,377
1985	439,416	365,835	(X)	1,536	(X)	84,434	5,453	215,893	60,055	211,917
1986	481,279	393,475	(X)	1,636	(X)	92,666	5,908	228,053	66,848	247,715
1987	517,217	419,487	(X)	1,728	(X)	95,463	6,918	246,933	70,173	265,551
<b>U.S., 1988</b>	<b>541,426</b>	<b>445,138</b>	<b>(X)</b>	<b>1,815</b>	<b>(X)</b>	<b>100,478</b>	<b>6,763</b>	<b>264,146</b>	<b>73,751</b>	<b>276,786</b>
<b>New England:</b>										
Maine	2,909	2,582	39	2,143	14	631	3	1,506	443	1,724
New Hampshire	1,771	1,388	48	1,280	50	329	41	583	435	2,705
Vermont	1,400	1,247	49	2,239	10	330	5	616	297	925
Massachusetts	14,721	13,636	10	2,315	7	2,712	201	8,521	2,202	13,831
Rhode Island	2,722	2,244	41	2,260	9	534	59	1,124	527	2,871
Connecticut	8,110	7,019	20	2,171	12	1,311	32	4,373	1,302	8,266
<b>Middle Atlantic:</b>										
New York	57,278	46,262	2	2,583	5	11,008	3,576	26,171	5,507	41,882
New Jersey	20,957	16,647	9	2,156	13	3,453	134	9,762	3,298	17,410
Pennsylvania	23,824	19,435	4	1,619	33	4,680	62	11,825	2,668	9,303
<b>East North Central:</b>										
Ohio	25,642	17,358	7	1,599	35	4,036	177	9,991	3,154	9,800
Indiana	9,744	8,942	18	1,609	34	1,908	84	5,312	1,638	3,085
Illinois	20,549	17,850	6	1,537	40	3,909	103	11,079	2,760	13,149
Michigan	21,549	18,479	5	2,000	18	4,116	537	10,515	3,311	8,464
Wisconsin	12,061	9,716	14	2,001	17	2,171	54	6,006	1,486	5,012
<b>West North Central:</b>										
Minnesota	11,502	9,776	13	2,270	8	2,112	90	6,192	1,381	3,607
Iowa	5,821	4,940	29	1,743	22	1,084	53	2,849	954	1,365
Missouri	8,150	7,016	21	1,365	48	1,567	11	4,406	1,033	4,569
North Dakota	1,646	1,471	46	2,205	11	394	20	664	393	797
South Dakota	1,393	1,170	50	1,641	31	366	6	477	302	1,554
Nebraska	2,624	2,456	40	1,533	41	578	18	1,343	518	1,359
Kansas	4,390	3,877	33	1,554	39	838	14	2,445	579	368
<b>South Atlantic:</b>										
Delaware	2,014	1,822	42	2,760	4	290	2	996	533	2,756
Maryland	11,942	9,356	15	2,024	15	1,864	87	5,831	1,575	5,616
Virginia	11,833	10,190	12	1,694	27	2,019	132	6,137	1,902	4,513
West Virginia	3,701	3,247	36	1,731	23	966	17	1,744	521	2,464
North Carolina	12,727	10,546	11	1,625	32	2,137	182	6,843	1,384	2,728
South Carolina	7,344	5,794	25	1,670	29	1,327	58	3,438	971	3,645
Georgia	10,892	9,278	16	1,463	44	2,450	39	5,782	1,007	3,138
Florida	19,393	16,894	8	1,370	47	3,109	126	11,491	2,167	8,296
<b>East South Central:</b>										
Kentucky	7,371	6,334	24	1,700	26	1,643	11	3,664	1,016	5,040
Tennessee	7,798	6,853	22	1,400	46	2,076	16	3,855	906	2,254
Alabama	8,022	6,504	23	1,585	37	1,711	34	3,374	1,384	3,180
Mississippi	4,610	3,915	32	1,494	43	1,234	22	2,126	532	1,470
<b>West South Central:</b>										
Arkansas	3,959	3,448	35	1,440	45	940	6	2,022	480	1,639
Louisiana	7,845	7,606	19	1,725	24	1,894	26	3,776	1,910	11,257
Oklahoma	6,425	5,398	27	1,665	30	1,165	23	3,150	1,060	3,753
Texas	26,659	22,495	3	1,336	49	5,113	24	13,426	3,933	7,120
<b>Mountain:</b>										
Montana	2,026	1,593	44	1,979	20	514	14	715	350	1,237
Idaho	1,929	1,566	45	1,562	38	417	19	906	225	677
Wyoming	1,691	1,453	47	3,033	2	421	15	573	443	838
Colorado	6,527	5,027	28	1,523	42	1,173	17	2,726	1,111	2,289
New Mexico	4,136	3,564	34	2,365	6	622	25	1,793	1,123	1,741
Arizona	6,868	5,573	26	1,597	36	943	79	3,722	829	1,992
Utah	3,691	2,995	38	1,772	21	768	22	1,602	603	1,515
Nevada	2,524	1,778	43	1,687	28	299	10	1,223	246	1,362
<b>Pacific:</b>										
Washington	12,465	9,220	17	1,984	19	1,954	187	5,995	1,084	4,272
Oregon	6,266	4,761	30	1,721	25	1,317	34	2,111	1,299	6,810
California	73,227	56,682	1	2,002	16	12,795	242	36,074	7,572	24,116
Alaska	5,158	4,606	31	8,790	1	741	5	1,251	2,608	6,097
Hawaii	3,619	3,127	37	2,848	3	493	5	2,039	591	2,928

X Not applicable. <sup>1</sup> Includes liquor stores, utilities, and insurance trust activities, not shown separately. <sup>2</sup> 1970 based on enumerated resident population as of April 1, 1970. 1980 based on enumerated resident population as of April 1, 1980. 1983-1988 based on estimated resident population as of July 1.

## Debt, and Expenditure 1970 to 1988, and by State, 1988

Data will not match other tables due to later revisions]

DEBT OUT- STAND- ING—Con.		Total expendi- tures <sup>1</sup>	GENERAL EXPENDITURES								YEAR, DIVISION, AND STATE
Per capita <sup>2</sup>			Total <sup>3</sup>			Selected functions					
Total (dol.)	Rank		Amount	Per capita <sup>2</sup>		Educa- tion	Public welfare	High- ways	Health and hospi- tals	Natural re- sources	
			Total (dol.)	Rank							
207	(X)	85,055	77,642	383	(X)	30,865	13,206	13,483	5,355	2,223	1970
540	(X)	257,812	228,223	1,010	(X)	87,939	44,219	25,044	17,855	4,346	1980
716	(X)	333,689	284,691	1,218	(X)	107,703	57,544	26,431	23,557	5,834	1983
790	(X)	351,182	309,775	1,313	(X)	116,058	62,749	28,840	24,982	5,945	1984
89	(X)	390,742	345,047	1,449	(X)	128,604	67,264	33,154	27,595	6,758	1985
1,030	(X)	424,205	376,429	1,585	(X)	140,189	72,464	36,661	30,131	7,312	1986
1,094	(X)	455,700	403,942	1,664	(X)	149,901	78,454	38,273	32,131	7,816	1987
1,129	(X)	484,667	432,179	1,763	(X)	159,500	84,235	40,681	34,872	8,310	U.S., 1988
1,430	16	2,500	2,240	1,859	18	756	545	206	123	68	New Eng.:
2,493	7	1,610	1,420	1,309	49	333	253	202	140	30	ME
1,660	14	1,268	1,189	2,135	10	420	205	135	56	33	NH
2,349	9	15,367	14,258	2,421	4	3,298	3,368	673	1,349	204	MA
2,891	3	2,480	2,189	2,205	8	622	501	158	222	17	RI
2,557	5	7,518	6,892	2,132	11	1,818	1,227	735	741	60	CT
2,338	10	50,429	42,592	2,378	5	12,182	12,232	1,828	4,284	256	Mid. Atl.:
2,255	11	18,952	16,274	2,108	12	4,759	2,822	1,582	1,138	179	NY
775	35	21,397	18,635	1,533	33	5,862	4,629	2,214	1,407	310	NJ
903	29	21,395	17,306	1,594	30	6,316	4,073	1,614	1,362	151	PA
555	44	8,848	8,400	1,512	37	3,661	1,447	903	604	117	E. No. Cent.:
1,132	24	19,212	17,451	1,503	38	5,962	3,812	1,941	1,078	225	OH
916	28	20,377	18,069	1,956	16	6,116	4,310	1,237	2,190	258	IN
1,032	26	9,822	9,074	1,869	17	3,164	1,987	646	611	159	IL
837	34	9,648	8,835	2,051	14	3,286	1,679	886	633	234	WI
482	46	5,316	4,976	1,756	22	2,222	826	703	350	100	W. No. Cent.:
889	31	7,498	6,909	1,344	48	2,943	1,127	765	603	155	MN
1,195	21	1,597	1,472	2,207	7	547	234	188	75	54	IA
2,179	12	1,133	1,081	1,517	35	305	153	159	72	44	MO
849	33	2,347	2,274	1,420	43	748	417	359	227	76	ND
147	50	3,814	3,486	1,397	44	1,496	543	494	306	88	SD
4,175	2	1,741	1,643	2,490	3	598	133	172	114	26	So. Atl.:
1,215	20	9,442	8,390	1,815	19	2,423	1,528	1,245	681	176	DE
750	37	10,683	10,004	1,683	26	3,959	1,175	1,551	1,112	141	MD
1,313	18	3,809	3,178	1,694	25	1,273	490	489	159	73	VA
420	49	11,035	10,289	1,586	31	4,860	1,342	1,097	862	230	NC
1,050	25	6,383	5,464	1,575	32	2,390	637	504	641	145	SC
495	45	9,763	9,109	1,436	42	3,954	1,622	968	788	239	GA
673	41	17,833	16,933	1,373	46	6,567	2,266	1,894	1,430	523	FL
1,352	17	6,867	6,362	1,707	24	2,591	1,105	805	376	178	E. So. Cent.:
461	47	7,082	6,625	1,353	47	2,410	1,434	855	532	101	KY
775	36	6,877	6,290	1,533	34	3,020	686	681	673	137	TN
561	43	4,145	3,765	1,437	41	1,587	618	394	303	120	AL
685	39	3,570	3,298	1,377	45	1,442	557	434	242	96	MS
2,554	6	8,252	7,295	1,855	27	2,690	1,091	644	730	220	W. So. Cent.:
1,158	22	5,781	4,917	1,517	36	2,074	937	618	386	82	AR
423	48	22,790	20,661	1,227	50	10,088	2,924	2,863	1,480	312	LA
1,536	15	1,695	1,423	1,768	21	477	236	222	89	87	Mt.:
675	40	1,691	1,495	1,491	39	619	183	220	76	76	ID
1,749	13	1,509	1,360	2,838	2	486	92	226	111	104	WY
693	38	5,620	4,890	1,481	40	2,080	801	582	390	121	CO
1,155	23	3,504	3,247	2,155	9	1,388	351	365	260	62	NM
571	42	6,319	5,719	1,639	29	2,199	673	1,051	226	88	AZ
897	30	3,224	2,909	1,721	23	1,439	371	292	255	68	UT
1,292	19	2,293	1,873	1,777	20	689	154	210	75	41	NV
919	27	11,068	9,322	2,006	15	4,265	1,645	848	543	222	Pac.:
2,461	8	5,255	4,572	1,652	28	1,465	629	520	394	169	WA
852	32	66,903	59,880	2,108	12	23,820	13,539	2,747	4,061	1,452	OR
11,635	1	4,198	3,870	7,385	1	948	307	438	84	151	CA
2,666	4	2,808	2,571	2,341	6	883	319	115	218	54	AK

<sup>3</sup> Includes amounts not shown separately.Source: U.S. Bureau of the Census, *State Government Finances*, series GF, No. 3, and *Census of Governments: 1977 and 1987, Vol. 6, Historical Statistics on Governmental Finances and Employment*.

## No. 478. State Governments—Summary of Finances: 1980 to 1988

[For fiscal years ending in year shown; see text section 9. See also *Historical Statistics, Colonial Times to 1970*, series Y 710-782]

ITEM	TOTAL (mil. dol.)			PER CAPITA <sup>1</sup> (dol.)			PERCENT DISTRIBUTION		
	1980	1987	1988	1980	1987	1988	1980	1987	1988
<b>Borrowing and revenue . . . . .</b>	<b>293,356</b>	<b>552,339</b>	<b>572,631</b>	<b>1,299</b>	<b>2,275</b>	<b>2,336</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Borrowing . . . . .	16,394	35,122	30,806	73	145	126	5.6	6.4	5.4
Revenue . . . . .	276,962	517,217	541,825	1,226	2,130	2,210	94.4	93.7	94.6
General revenue . . . . .	233,592	419,487	445,537	1,034	1,728	1,817	79.6	75.9	77.8
Taxes . . . . .	137,075	246,933	264,096	607	1,017	1,077	46.7	44.8	46.1
Sales and gross receipts . . . . .	67,855	119,938	130,251	300	494	531	23.1	21.7	22.8
General . . . . .	43,168	79,638	87,011	191	328	355	14.7	14.4	15.2
Motor fuels . . . . .	9,722	15,705	17,213	43	65	70	3.3	2.9	3.0
Alcoholic beverages . . . . .	2,478	3,091	3,188	11	13	13	0.8	0.6	0.6
Tobacco products . . . . .	3,738	4,605	4,842	17	19	20	1.3	0.8	0.9
Other . . . . .	8,750	16,798	17,987	39	69	74	3.0	3.1	3.2
Licenses . . . . .	8,690	16,000	17,009	38	66	69	3.0	2.9	3.0
Motor vehicles . . . . .	4,936	8,309	8,848	22	34	36	1.7	1.5	1.6
Corporations in general . . . . .	1,368	3,171	3,169	6	13	13	0.5	0.6	0.6
Other . . . . .	2,366	4,520	4,992	10	19	20	0.8	0.8	0.9
Individual income . . . . .	37,089	75,965	80,133	164	313	327	12.6	13.8	14.0
Corporation net income . . . . .	13,321	20,724	21,607	59	85	88	4.5	3.8	3.8
Property . . . . .	2,892	4,609	5,049	13	19	21	1.0	0.8	0.9
Other . . . . .	7,227	9,798	10,046	32	40	41	2.5	1.8	1.8
Charges and miscellaneous . . . . .	32,190	70,173	74,199	142	289	303	11.0	12.7	13.0
Intergovernmental revenue . . . . .	64,326	102,381	107,241	285	422	437	21.9	18.6	18.7
From Federal Government . . . . .	61,892	95,463	100,478	274	393	410	21.1	17.3	17.6
Public welfare . . . . .	24,680	44,828	47,908	109	185	195	8.4	8.1	8.4
Education . . . . .	12,765	16,883	17,970	57	70	73	4.4	3.1	3.1
Highways . . . . .	8,880	12,963	13,467	39	53	55	3.0	2.4	2.4
Other . . . . .	15,587	20,788	21,133	69	86	86	5.3	3.8	3.7
From local governments . . . . .	2,434	6,918	6,763	11	28	28	0.8	1.3	1.2
Utility revenue . . . . .	1,304	2,964	3,030	6	12	12	0.4	0.5	0.5
Liquor stores revenue . . . . .	2,765	2,833	2,767	12	12	11	0.9	0.5	0.5
Insurance trust revenue . . . . .	39,301	91,933	90,491	174	379	369	13.4	16.7	15.8
Employee retirement . . . . .	21,146	64,660	63,556	94	266	259	7.2	11.7	11.1
Unemployment compensation . . . . .	13,468	18,839	17,187	60	78	70	4.6	3.4	3.0
<b>Expenditure and debt redemption . . . . .</b>	<b>263,494</b>	<b>476,133</b>	<b>506,382</b>	<b>1,166</b>	<b>1,961</b>	<b>2,065</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Debt redemption . . . . .	5,682	20,433	21,376	25	84	87	2.2	4.3	4.2
Expenditure . . . . .	257,812	455,700	485,006	1,141	1,877	1,978	97.8	95.7	95.8
General expenditure . . . . .	228,223	403,942	432,179	1,010	1,664	1,763	86.6	84.8	85.4
Education . . . . .	87,939	149,901	159,500	389	617	651	33.4	31.5	31.5
Public welfare . . . . .	44,219	78,454	84,235	196	323	344	16.8	16.5	16.6
Highways . . . . .	25,044	38,273	40,681	111	155	166	9.5	8.0	8.0
Health and hospitals . . . . .	17,855	32,131	34,872	79	132	142	6.9	6.8	6.9
State hospitals . . . . .	11,015	17,862	19,489	49	74	80	4.2	3.8	3.9
Other hospitals and health . . . . .	6,840	14,269	15,383	30	59	63	2.6	3.0	3.0
Corrections . . . . .	4,449	11,704	13,303	20	48	54	1.7	2.5	2.6
Natural resources . . . . .	4,346	7,816	8,310	19	32	34	1.6	1.7	1.7
General control . . . . .	3,232	6,191	6,922	14	26	28	1.2	1.3	1.4
Financial administration . . . . .	3,031	6,459	6,969	13	27	29	1.2	1.4	1.4
Police protection . . . . .	2,263	4,048	4,508	10	17	18	0.9	0.9	0.9
Employment security . . . . .	2,001	2,741	2,842	9	11	12	0.8	0.6	0.6
Housing and community development . . . . .	801	2,129	2,550	3	9	11	0.2	0.5	0.5
Misc. and unallocable . . . . .	33,242	64,096	67,488	147	264	275	12.6	13.5	13.3
Utility expenditure . . . . .	2,401	5,971	6,232	11	25	26	0.9	1.3	1.2
Liquor stores expenditure . . . . .	2,206	2,470	2,378	10	10	10	0.8	0.5	0.5
Insurance trust expenditure . . . . .	24,981	43,316	44,217	111	178	180	9.5	9.1	8.7
Employee retirement . . . . .	10,256	22,189	24,196	45	91	99	3.9	4.7	4.8
Unemployment compensation . . . . .	12,006	15,174	13,024	53	63	53	4.6	3.2	2.6
By character and object:									
Intergovernmental expenditure . . . . .	84,504	141,279	151,662	374	582	619	32.1	29.7	30.0
Direct expenditure . . . . .	173,307	314,421	333,344	767	1,295	1,360	65.8	66.0	65.8
Current operation . . . . .	108,131	189,806	213,252	479	823	870	41.0	42.0	42.1
Capital outlay . . . . .	23,225	37,209	40,667	103	153	166	8.9	7.8	8.0
Construction . . . . .	19,736	28,174	31,421	87	116	128	7.5	5.9	6.2
Land and existing structures . . . . .	1,345	2,540	3,082	6	11	13	0.5	0.6	0.6
Equipment . . . . .	2,243	6,444	6,164	10	27	25	0.9	1.4	1.2
Assistance and subsidies . . . . .	9,818	14,705	15,000	43	61	61	3.7	3.1	3.0
Interest on debt . . . . .	7,052	19,365	20,208	31	80	83	2.7	4.1	4.0
Insurance benefits . . . . .	24,981	43,316	44,217	111	178	180	9.5	9.1	8.7
Debt outstanding, end of year . . . . .	121,958	265,551	276,786	540	1,094	1,129	100.0	100.0	100.0
Long-term . . . . .	119,821	263,946	275,448	530	1,087	1,124	98.2	99.4	99.5
Full-faith and credit . . . . .	49,364	64,944	68,136	219	268	278	40.5	24.5	24.6
Nonguaranteed . . . . .	70,457	199,002	207,312	312	820	846	57.8	74.9	74.9
Short-term . . . . .	2,137	1,606	1,338	9	7	6	1.8	0.6	0.5
Net long-term . . . . .	79,810	143,384	108,824	353	591	444	65.4	54.0	39.3
Full-faith and credit only . . . . .	39,357	49,905	54,154	174	206	221	32.3	18.8	19.6

<sup>1</sup> Based on estimated resident population as of July 1; except 1980 based on enumerated resident population as of April 1, 1980. <sup>2</sup> Includes other items not shown separately. <sup>3</sup> Intergovernmental and direct. <sup>4</sup> Includes repayments.

Source: U.S. Bureau of the Census, *Historical Statistics on Governmental Finances and Employment* (GC82(6)-4) and *State Government Finances*, series GF, No. 3, annual.

## No. 479. State Resources, Expenditures, and Balances: 1989 and 1990

[Fiscal year data; see text; section 9. General funds exclude special funds earmarked for particular purposes, such as highway trust funds and federal funds; they support most on-going broad-based State services, and are available for appropriation to support any governmental activity. Minus sign (-) indicates deficit]

STATE	EXPENDITURES BY FUND SOURCE					STATE GENERAL FUND					
	Total, 1989 (mil. dol.)	1990 <sup>1</sup>				Resources <sup>3 4</sup>		Expenditures <sup>4</sup>		Balance <sup>5</sup>	
		Total <sup>2</sup> (mil. dol.)	Gen- eral fund (per- cent)	Federal funds (per- cent)	Other State funds (per- cent)	1989 (mil. dol.)	1990 <sup>1</sup> (mil. dol.)	1989 (mil. dol.)	1990 <sup>1</sup> (mil. dol.)	1989 (mil. dol.)	1990 <sup>1</sup> (mil. dol.)
<b>United States . . .</b>	<b>460,978</b>	<b>510,350</b>	<b>270,715</b>	<b>117,257</b>	<b>110,121</b>	<b>266,546</b>	<b>283,987</b>	<b>256,444</b>	<b>278,118</b>	<b>9,990</b>	<b>5,760</b>
<b>New England:</b>											
Maine . . . . .	2,492	2,813	1,556	723	449	1,640	1,578	1,477	1,522	163	55
New Hampshire . . . . .	1,464	1,666	643	383	576	584	600	578	601	6	-1
Vermont . . . . .	1,148	1,232	604	334	244	619	599	608	599	11	-
Massachusetts . . . . .	16,637	17,754	7,260	3,205	6,344	8,297	8,272	8,523	8,933	-226	-661
Rhode Island . . . . .	2,091	2,231	1,473	486	182	1,413	1,473	1,400	1,473	14	-
Connecticut . . . . .	8,494	9,275	6,327	1,179	1,063	5,715	6,240	5,743	6,331	-28	-90
<b>Middle Atlantic:</b>											
New York . . . . .	43,450	46,974	28,223	9,778	8,321	28,244	29,638	28,244	29,638	-	-
New Jersey . . . . .	15,898	16,806	11,826	3,447	1,172	11,962	11,827	11,550	11,826	411	1
Pennsylvania . . . . .	20,500	22,511	11,986	5,186	4,811	11,355	11,927	10,970	11,926	385	1
<b>East North Central:</b>											
Ohio . . . . .	19,589	21,527	9,721	5,190	5,766	11,250	11,995	10,775	11,593	475	402
Indiana . . . . .	8,225	9,158	5,521	2,188	1,179	5,441	5,929	5,017	5,509	425	420
Illinois . . . . .	18,610	19,345	10,640	3,230	4,890	12,379	13,550	11,838	13,275	541	275
Michigan . . . . .	15,981	17,491	7,330	4,153	5,729	7,103	7,313	7,035	7,308	68	5
Wisconsin . . . . .	10,244	11,038	5,845	2,424	2,769	5,829	6,114	5,454	5,816	375	298
<b>West North Central:</b>											
Minnesota . . . . .	9,419	10,886	6,377	1,885	2,376	6,882	7,469	5,936	6,644	946	825
Iowa . . . . .	6,684	7,738	2,881	1,408	3,450	2,763	2,996	2,668	2,863	95	132
Missouri . . . . .	7,285	8,122	4,158	1,622	2,295	3,886	4,249	3,791	4,158	95	91
North Dakota . . . . .	1,526	1,485	514	464	503	587	544	547	514	40	30
South Dakota . . . . .	1,177	1,216	447	462	307	450	480	411	447	40	34
Nebraska . . . . .	2,415	2,939	1,257	612	1,059	1,277	1,454	987	1,244	290	210
Kansas . . . . .	4,285	4,880	2,406	1,343	1,101	2,531	2,669	2,160	2,420	371	249
<b>South Atlantic:</b>											
Delaware . . . . .	2,025	2,120	1,192	253	546	1,278	1,343	1,092	1,192	185	152
Maryland . . . . .	10,241	11,805	6,166	1,977	3,138	5,851	6,200	5,461	6,135	390	65
District of Columbia . . . . .	4,382	4,832	3,315	781	464	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Virginia . . . . .	11,393	11,833	5,954	1,640	4,223	5,830	5,932	5,830	5,893	( <sup>6</sup> )	39
West Virginia . . . . .	3,338	3,669	1,733	900	978	1,529	1,747	1,463	1,733	66	14
North Carolina . . . . .	10,643	11,996	8,393	2,367	1,237	6,568	7,426	6,410	7,360	158	66
South Carolina . . . . .	6,930	7,997	3,453	2,225	1,222	3,150	3,421	3,092	3,360	58	61
Georgia . . . . .	9,962	11,785	7,559	2,724	1,425	6,619	7,644	6,382	7,644	237	-
Florida . . . . .	21,256	22,995	10,035	4,483	8,369	9,506	10,026	9,465	10,026	42	-
<b>East South Central:</b>											
Kentucky . . . . .	7,193	7,977	3,587	2,124	2,027	3,358	3,547	3,310	3,547	48	-
Tennessee . . . . .	6,763	7,470	3,707	2,272	1,311	3,536	3,759	3,408	3,707	128	52
Alabama . . . . .	6,955	7,550	3,192	3,994	364	3,264	3,299	3,211	3,192	53	107
Mississippi . . . . .	4,105	4,495	1,907	1,585	935	1,893	1,955	1,809	1,907	84	48
<b>West South Central:</b>											
Arkansas . . . . .	4,125	4,650	1,745	1,301	1,591	1,714	1,745	1,714	1,745	-	-
Louisiana . . . . .	8,495	9,133	4,503	2,853	1,351	4,715	4,783	4,060	4,172	655	611
Oklahoma . . . . .	5,614	5,869	2,633	1,584	1,531	2,702	2,840	2,545	2,679	157	161
Texas . . . . .	18,527	22,711	14,176	5,131	3,150	12,934	13,978	12,778	13,958	156	( <sup>6</sup> )
<b>Mountain:</b>											
Montana . . . . .	1,800	1,608	426	484	662	451	487	384	432	67	55
Idaho . . . . .	1,549	1,795	802	580	408	790	912	701	849	89	63
Wyoming . . . . .	1,205	1,487	386	351	750	379	456	324	432	54	25
Colorado . . . . .	5,118	5,026	2,543	1,143	1,340	2,491	2,686	2,356	2,543	135	143
New Mexico . . . . .	3,033	3,480	1,786	756	928	1,867	1,918	1,754	1,829	( <sup>6</sup> )	-
Arizona . . . . .	5,280	6,131	3,193	1,709	1,046	2,892	3,149	2,890	3,121	1	28
Utah . . . . .	2,840	2,970	1,628	651	639	1,582	1,655	1,511	1,655	71	-
Nevada . . . . .	(NA)	(NA)	(NA)	(NA)	(NA)	760	772	750	762	11	10
<b>Pacific:</b>											
Washington . . . . .	10,209	11,846	6,045	2,147	2,950	6,169	6,630	5,713	6,205	456	425
Oregon . . . . .	6,659	6,886	2,194	951	3,741	2,240	2,424	1,948	2,201	292	223
California . . . . .	61,242	70,391	40,070	20,288	7,762	37,007	40,885	35,897	40,070	1,109	815
Alaska . . . . .	3,195	3,283	2,428	537	317	2,410	2,458	2,248	2,428	163	30
Hawaii . . . . .	3,649	4,309	2,285	549	697	2,856	2,995	2,227	2,702	629	293

- Represents or rounds to zero. NA Not available. <sup>1</sup> Estimated. <sup>2</sup> Includes bonds not shown separately. <sup>3</sup> Includes funds budgeted, adjustments, and balances from previous year. <sup>4</sup> May or may not include fund transfers, depending on state accounting practices. <sup>5</sup> Resources, less expenditures. <sup>6</sup> Expenditures and ending balance include undesignated fund balance. <sup>7</sup> Appropriated amounts. <sup>8</sup> Ending balance is held in a budget stabilization fund.

Source: National Governors' Association and National Association of State Budget Officers, Washington, DC, *Fiscal Survey of the States*, semi-annual (copyright) and NASBO *State Expenditure Report 1990*.

### No. 480. State Government Tax Collections and Excise Taxes, 1970 to 1989, and by State, 1989

[Tax collections for fiscal years ending in year shown; see text, section 9. Excise tax rates as of September 1. Collections include local shares of State-imposed taxes. 1989 tax collections preliminary]

YEAR, REGION, DIVISION, AND STATE	STATE TAX COLLECTIONS (mil. dol.)							EXCISE TAX RATES			
	Total <sup>1</sup>	Sales and gross receipts				Individual income	Corporation net income	Motor vehicle and operators' li- censes	General sales and gross receipts (percent) <sup>2</sup>	Ciga- rettes (cents per pack- age)	Gasoline (cents per gal.)
		Total <sup>1</sup>	General sales and gross receipts	Motor fuels	Alcoholic beverages and tobacco products						
1970 <sup>3</sup>	47,962	27,254	14,177	6,283	3,728	9,183	3,738	2,728	(X)	(X)	(X)
1975 <sup>3</sup>	80,155	43,346	24,780	8,255	5,249	18,819	6,642	3,941	(X)	(X)	(X)
1980 <sup>3</sup>	137,075	67,855	43,168	9,722	6,216	37,089	13,321	5,325	(X)	(X)	(X)
1985 <sup>3</sup>	215,893	105,419	69,633	13,344	7,393	63,908	17,631	7,780	(X)	(X)	(X)
1986 <sup>3</sup>	228,053	112,373	74,817	14,129	7,511	67,405	18,394	8,369	(X)	(X)	(X)
1987 <sup>3</sup>	246,501	119,361	79,228	15,707	7,700	76,215	20,476	9,067	(X)	(X)	(X)
1988 <sup>3</sup>	264,146	130,330	87,079	17,211	8,031	80,133	21,607	9,613	(X)	(X)	(X)
1989 <sup>4</sup>	284,039	138,249	93,417	18,030	8,154	88,690	23,881	10,142	(X)	(X)	(X)
Northeast	87,581	28,318	18,188	2,520	1,702	25,778	6,841	1,888	(X)	(X)	(X)
New England	17,875	8,019	5,196	934	549	5,979	2,353	582	(X)	(X)	(X)
Maine	1,590	775	517	127	77	571	96	61	5 F&D	28	17
New Hampshire	613	269	(X)	88	43	36	152	53	(X)	21	14
Vermont	634	310	133	44	26	213	38	35	4 F&D	17	16
Massachusetts	9,071	3,028	2,084	307	235	4,287	1,189	190	5 F&D	26	11
Rhode Island	1,159	580	394	50	39	421	78	32	6 F&D	37	20
Connecticut	4,808	3,057	2,068	318	129	451	800	191	8 F&D	40	20
Middle Atlantic	49,706	20,299	12,992	1,586	1,153	19,799	4,488	1,326	(X)	(X)	(X)
New York	26,576	8,664	5,750	489	526	13,844	2,009	481	4 F&D	33	8
New Jersey	10,501	5,331	3,156	423	266	2,896	1,310	371	6 F&D	27	10.5
Pennsylvania	12,629	6,304	4,086	674	361	3,059	1,168	474	6 F&D	18	12
Midwest	65,330	31,386	21,148	4,913	1,949	22,411	5,677	2,840	(X)	(X)	(X)
East North Central	46,010	21,929	14,822	3,307	1,321	15,629	4,396	1,912	(X)	(X)	(X)
Ohio	10,814	5,401	3,425	813	289	3,809	731	387	4 F&D	18	18
Indiana	5,903	3,391	2,581	557	150	1,945	282	175	5 F&D	15.5	15
Illinois	11,761	5,998	3,900	724	302	3,510	1,073	675	4 F&D	30	16
Michigan	11,124	4,330	3,128	695	395	3,789	1,862	504	4 F&D	25	15
Wisconsin	6,408	2,809	1,888	518	185	2,576	448	171	4 F&D	30	20.8
West North Central	19,320	9,457	6,226	1,606	628	6,782	1,281	928	(X)	(X)	(X)
Minnesota	6,398	2,950	1,776	453	214	2,497	488	310	4 F&D	38	20
Iowa	3,158	1,443	932	311	105	1,173	203	205	4 F&D	31	20
Missouri	4,685	2,366	1,766	350	104	1,688	243	207	4,225 D	13	11
North Dakota	685	378	221	72	21	106	42	40	6 F&D	30	17
South Dakota	468	379	234	76	23	(X)	26	24	4 D	23	18
Nebraska	1,450	781	491	173	56	474	81	55	4 F&D	27	22.3
Kansas	2,496	1,160	806	171	105	844	198	87	4,225 D	24	15
South	83,254	48,024	31,224	7,270	3,125	18,830	4,910	3,208	(X)	(X)	(X)
South Atlantic	45,748	23,984	16,091	3,402	1,557	13,667	3,298	1,472	(X)	(X)	(X)
Delaware	1,130	159	(X)	63	17	427	155	25	(X)	14	16
Maryland	6,196	2,641	1,507	440	90	2,655	331	154	5 F&D	13	18.5
Dist. of Columbia	2,243	644	429	30	16	603	156	19	6 F&D	17	18
Virginia	6,621	2,608	1,290	612	112	3,107	347	274	3.5 D	2.5	17.5
West Virginia	1,913	969	579	171	41	467	206	71	6 D	17	15.5
North Carolina	7,369	2,916	1,702	610	163	3,031	789	271	4.3 D	2	20.9
South Carolina	3,716	2,000	1,349	328	140	1,248	220	82	5 D	7	16
Georgia	6,347	2,812	2,026	426	204	2,732	525	96	4.4 D	12	57.5
Florida	12,456	9,879	7,838	752	790	(X)	725	499	4 F&D	24	4
East South Central	14,079	8,328	5,305	1,458	471	2,671	1,042	539	(X)	(X)	(X)
Kentucky	4,038	1,819	1,045	356	63	1,112	311	151	4 F&D	3	15
Tennessee	4,066	3,083	2,237	535	145	95	372	172	4.5 D	13	20
Alabama	3,663	1,916	982	287	175	1,063	216	131	4 D	16.5	11
Mississippi	2,312	1,508	1,041	280	88	401	143	85	6 D	18	18
West South Central	23,427	15,714	9,828	2,410	1,097	2,292	570	1,197	(X)	(X)	(X)
Arkansas	2,172	1,180	797	219	87	682	112	102	4.4 D	21	13.5
Louisiana	3,969	2,070	1,306	375	128	677	345	85	4 F&D	16	16
Oklahoma	3,312	1,502	778	315	134	933	113	257	4.4 D	23	17
Texas	13,974	10,962	6,947	1,501	748	(X)	(X)	753	4 F&D	26	15
West	67,874	30,521	22,857	3,327	1,378	21,871	6,433	2,206	(X)	(X)	(X)
Mountain	13,936	7,661	5,185	1,267	332	3,563	664	631	(X)	(X)	(X)
Montana	728	179	(X)	107	25	266	56	34	(X)	16	20
Idaho	1,011	518	347	105	25	347	72	38	5 D	18	18
Wyoming	582	207	153	39	5	(X)	(X)	43	4.3 D	12	9
Colorado	2,904	1,242	751	304	82	1,273	171	90	3 F&D	20	20
New Mexico	1,890	1,076	801	141	36	349	77	103	4.75	15	16.2
Arizona	4,061	2,470	1,842	337	91	913	200	204	4 F&D	15	17
Utah	1,420	808	592	130	40	415	88	46	5,094 D	23	19
Nevada	1,340	1,161	699	104	28	(X)	(X)	73	4.75 F&D	35	16.25
Pacific	53,938	22,860	17,672	2,060	1,046	18,308	5,789	1,575	(X)	(X)	(X)
Washington	6,511	4,897	3,915	454	232	(X)	(X)	181	6.5 F&D	34	18
Oregon	2,586	363	(X)	210	84	1,725	158	191	(X)	27	16
California	41,214	16,205	12,732	1,308	646	15,815	5,063	1,164	4.75 F&D	35	9
Alaska	1,410	80	(X)	37	21	(Z)	460	20	(X)	16	8
Hawaii	2,217	1,315	1,025	51	63	768	88	19	4 D	( <sup>5</sup> )	7.11

X Not applicable. Z Less than \$500,000. <sup>1</sup> Includes amounts for types not shown separately. <sup>2</sup> F=food exempt from sales tax; D=prescription drugs exempt from sales tax. <sup>3</sup> DC excluded from total. <sup>4</sup> Local sales tax rates are additional. <sup>5</sup> An additional tax is levied at the rate of 3 percent of the retail sales price, less than the current 7.5 cents per gallon tax. <sup>6</sup> Tax is 40 percent of wholesale price. <sup>7</sup> Combined State and county rates are: Hawaii 19.8 cents; Honolulu 27.5 cents; Kauai and Maui 20 cents.

Source: U.S. Bureau of the Census, *State Government Tax Collections*, series GF, No. 1, annual.



## No. 481. State Government Individual Income Taxes: 1989

[As of October 1989. Only basic rates, brackets and exemptions are shown. Local income tax rates, even those mandated by the State, are not included. Taxable income rates and brackets listed below apply to single individuals and married taxpayers filing "combined separate" returns (in States where this is permitted). Alaska, Florida, Nevada, South Dakota, Texas, Washington, and Wyoming have no State income tax]

STATE	Taxable income rates (range in percent)	TAXABLE INCOME BRACKETS		PERSONAL EXEMPTIONS			SIZE OF STANDARD DEDUCTION <sup>1</sup>			Federal income tax deductible <sup>2</sup>
		Lowest: amount under	Highest: amount over	Single	Married-joint return	Dependents	Percent	Single	Married-joint return	
AL <sup>3,4</sup>	2.0-5.0	\$500	\$3,000	\$1,500	\$3,000	\$300	20	\$2,000	\$4,000	Yes <sup>8</sup>
AZ <sup>5</sup>	2.0-8.0	1,290	7,740	2,229	4,458	1,337	22.29	1,115	2,229	Yes
AR	1.0-7.0	3,000	25,000	720	740	20	10	1,000	1,000	No
CA <sup>5</sup>	1.0-9.3	4,020	26,380	755	7110	755	(X)	2,070	4,140	No
CO				5% of modified Federal taxable income						No
CT				Limited income tax <sup>9</sup>						No
DE <sup>3</sup>	3.2-7.7	1,000	40,000	1,250	2,500	1,250	10	1,300	1,600	No
DC	6.0-9.5	10,000	20,000	1,160	2,320	1,160	(X)	2,000	2,000	No
GA	1.0-6.0	750	7,000	1,500	3,000	1,500	(X)	2,300	3,000	No
HI <sup>3</sup>	2.0-10.0	1,500	20,500	1,040	2,080	1,040	(X)	1,500	1,900	No
ID	2.0-8.2	1,000	20,000			Same as Federal <sup>9</sup>				No
IL	3.0	Flat rate		1,000	2,000	1,000	(X)	(X)	(X)	No
IN <sup>3</sup>	3.4	Flat rate		1,000	2,000	1,000	(X)	(X)	(X)	No
IA <sup>3,5</sup>	4-9.98	101,016	45,720	720	740	15	(X)	1,230	3,030	Yes
KS	4.5-5.95	112,750	112,750	2,000	4,000	2,000	(X)	Same as Federal <sup>9</sup>		Yes
KY <sup>3</sup>	2.0-6.0	3,000	8,000	720	740	20	(X)	650	650	Yes
LA	2.0-6.0	10,000	50,000	124,500	129,000	121,000	Combined with exemptions <sup>12</sup>			Yes
ME <sup>3</sup>	2.0-8.5	4,000	16,000	2,000	4,000	2,000	(X)	3,100	5,200	No
MD <sup>3</sup>										No
MA	2.0-5.0	1,000	3,000	1,100	2,200	1,100	15	2,000	4,000	No
MI <sup>3</sup>	5.0-10.0	Flat rate <sup>14</sup>		2,200	4,400	1,000	(X)	(X)	(X)	No
MN	4.6	Flat rate		2,000	4,000	2,000	(X)	(X)	(X)	No
MS	6.0-8.0	13,000	13,000			Same as Federal <sup>9</sup>				No
MO <sup>3</sup>	3.0-5.0	5,000	10,000	6,000	9,500	1,500	15	2,300	3,400	No
MT <sup>3</sup>	1.5-6.0	1,000	9,000	1,200	2,400	400	(X)	Same as Federal <sup>9</sup>		Yes
NE	2.0-11.0	1,500	52,500	1,200	2,400	1,200	20	2,250	4,500	Yes
NH	2.0-5.9	1,800	27,000	1,180	2,360	1,180	(X)	Same as Federal <sup>9</sup>		No
NJ				Limited income tax <sup>16</sup>						No
NM	172.0-3.5	20,000	50,000	1,000	2,000	1,000	(X)	(X)	(X)	No
NY	1.8-8.5	5,200	64,000	2,000	4,000	2,000	(X)	Same as Federal <sup>9</sup>		No
NC	4.0-7.5	5,500	13,000			1,000	(X)	6,000	9,500	No
ND	186.0-7.0	12,750	12,750	2,000	4,000	2,000	(X)	Same as Federal <sup>9</sup>		No
OH	192.6-12.0	193,000	150,000			Same as Federal <sup>9</sup>				Yes
OK	743.6-9	5,000	100,000	650	1,300	650	(X)	(X)	(X)	Yes
OR	205.6-6.0	207,500	207,500	1,000	2,000	1,000	15	2,000	2,000	Yes
PA <sup>3,5</sup>	5.0-9.0	2,000	5,000	94	188	94	(X)	1,800	3,000	Yes
RI	2.1	Flat rate		(X)	(X)	(X)	(X)	(X)	(X)	No
SC				22.96% of Federal income tax liability						No
TN	3.0-7.0	4,000	10,000			Same as Federal <sup>9</sup>				No
UT				Limited income tax <sup>22</sup>						No
VT	2.55-7.22	750	3,750	75% of Federal exemption				Same as Federal <sup>9</sup>		Yes <sup>23</sup>
VA				25% of Federal income tax liability						No
WV	2.0-5.75	3,000	16,000	800	1,600	800	(X)	Same as Federal <sup>9</sup>		No
WI	3.0-6.5	10,000	60,000	2,000	4,000	2,000	(X)	(X)	(X)	No
	4.9-6.93	7,500	15,000			50	(X)	5,200	8,900	No

<sup>1</sup> Represents zero. X Not applicable. <sup>2</sup> The lesser of either (a) the percentage indicated, multiplied by adjusted gross income or (b) the dollar value listed. <sup>3</sup> A State provision that allows the taxpayer to deduct fully the Federal income tax payment reduces the effective marginal tax rate for persons in the highest State and Federal tax brackets by approximately one-half the nominal tax rate—the deduction is of a lesser benefit to other taxpayers. <sup>4</sup> States in which one or more local governments levy a local income tax. <sup>5</sup> Social Security (FICA) taxes are included in itemized deductions. <sup>6</sup> Indexed by an inflation factor. <sup>7</sup> An additional deduction from income is allowed in the amount of 65% of federal income tax liability or \$600, whichever is greater, but not to exceed \$10,000 for married filing joint or \$5,000 for all other filers. <sup>8</sup> Tax credit. <sup>9</sup> There is an income tax on interest and dividend income only. The rate of this tax ranges from 1% of interest and dividend income for taxpayers with an AGI of \$54,000 to \$57,999 to 12% of such income of taxpayers with an AGI over \$100,000. Capital gains are taxed at 7% after an exemption of \$100 is applied. <sup>10</sup> Personal exemptions on the 1989 return are \$2,000 each; standard deduction for single is \$3,000 and for those filing joint returns, \$5,000 (single or \$7,500 (married-joint return)). <sup>11</sup> Tax cannot reduce after-tax income of taxpayer to below \$5,000. <sup>12</sup> Income below \$27,500 taxed at 4.5% rate, income above \$27,500 taxed at 5.95% rate. <sup>13</sup> Personal exemption and standard deduction are combined. <sup>14</sup> All counties have a local income tax surcharge of at least 20% of State tax liability; most counties have a surcharge of 50%. <sup>15</sup> 10% (flat rate) imposed on capital gains, interest, and dividends of residents, and Massachusetts business income of nonresidents. All other net income taxed at 5%. No taxes are imposed on a single persons with gross income of \$8,000 or less (\$12,000 married). <sup>16</sup> FICA taxes deductible when itemizing deductions. <sup>17</sup> There is a 5% tax on dividend and interest income (excluding income from savings bank deposits) in excess of \$1,200 (\$2,400 married). <sup>18</sup> No taxpayer is subject to tax if gross income is \$3,000 or less (\$1,500 married, filing separately). <sup>19</sup> Taxable income brackets are for single taxpayers. Breaking point for higher marginal tax rate varies according to filing status. <sup>20</sup> Taxpayers have the option of paying a tax of 14% of the taxpayers adjusted Federal income tax liability or using the long form with a separate schedule; taxpayers using the long form may deduct Federal income tax paid. <sup>21</sup> These tax rates and brackets apply to single persons not deducting Federal income tax. For individuals deducting Federal income tax, rates range from .5% of the first \$1,000 to 10% on income over \$15,250. <sup>22</sup> Federal tax deduction limited to \$3,000 (\$1,500 married, filing separately). <sup>23</sup> Interest and dividends taxed at 6%. <sup>24</sup> One-half of federal tax liability is deductible.

Source: Advisory Commission on Intergovernmental Relations, Washington, DC, *Significant Features of Fiscal Federalism*, 1990 Edition, Volume 1.

### No. 482. Gross Revenue of Selected States From Parimutuel and Amusement Taxes and Lotteries, 1980 to 1988, and by State, 1988

[In millions of dollars, except percent. For fiscal years; see text, section 9]

YEAR AND STATE	Gross revenue	Parimutuel taxes	Amusement taxes <sup>1</sup>	LOTTERY REVENUE			
				Total <sup>2</sup>	Apportionment of funds (percent)		
					Prizes	Administration	Proceeds available from ticket sales
1980	3,072.9	731.5	234.1	2,107.3	43.6	6.2	50.2
1984	7,360.1	739.4	383.7	6,237.0	52.4	4.6	43.0
1985	9,227.0	693.9	411.6	8,121.5	52.1	4.5	43.4
1986	12,163.9	646.6	462.7	11,054.5	52.0	5.4	42.6
1987	12,591.4	642.5	479.9	11,469.0	52.5	5.7	41.9
1988 <sup>4</sup>	15,114.4	666.9	527.8	13,919.6	53.7	6.1	40.3
Arizona	173.2	10.1	0.8	162.3	48.8	10.4	40.8
Arkansas	20.6	20.6	(X)	(X)	(X)	(X)	(X)
California	2,130.7	129.5	(X)	2,001.2	52.6	7.5	39.9
Colorado	105.5	8.5	0.6	96.4	48.6	14.8	36.8
Connecticut	565.9	62.5	16.2	487.2	54.2	5.6	40.2
Delaware	51.4	0.1	(X)	51.3	56.9	5.4	37.7
District of Columbia	116.4	(X)	(X)	116.4	52.3	9.7	38.0
Florida	743.6	119.7	2.6	621.3	53.2	14.5	32.3
Idaho	2.3	2.3	(X)	(X)	(X)	(X)	(X)
Illinois	1,277.3	50.0	8.5	1,218.8	56.7	3.5	39.8
Iowa	116.9	(X)	(X)	116.9	56.3	13.3	30.4
Kansas	63.0	(X)	0.8	62.2	48.4	20.0	31.6
Kentucky	6.8	6.5	0.3	(X)	(X)	(X)	(X)
Louisiana	21.5	21.3	0.2	(X)	(X)	(X)	(X)
Maine	77.9	1.9	(X)	77.0	53.7	7.3	39.0
Maryland	774.3	2.7	1.6	770.0	52.0	3.0	45.0
Massachusetts	1,229.1	32.0	9.9	1,187.2	61.5	5.3	33.3
Michigan	1,138.4	20.2	(X)	1,118.2	52.5	5.4	42.1
Missouri	139.1	(X)	(X)	139.1	48.8	12.8	38.5
Montana	20.6	(X)	(X)	20.6	47.7	15.5	36.9
Nebraska	7.2	0.7	6.5	(X)	(X)	(X)	(X)
Nevada	256.3	(Z)	256.3	(X)	(X)	(X)	(X)
New Hampshire	85.8	11.5	(X)	74.3	56.6	8.8	34.6
New Jersey	1,328.5	8.2	209.2	1,111.1	51.4	3.6	45.0
New Mexico	2.4	2.3	0.1	(X)	(X)	(X)	(X)
New York	1,524.6	92.3	1.0	1,431.3	51.4	3.9	44.8
Ohio	1,309.1	13.4	(X)	1,295.7	52.7	6.2	41.1
Oklahoma	1.6	1.6	(X)	(X)	(X)	(X)	(X)
Oregon	156.5	4.2	(X)	152.3	53.4	15.7	30.9
Pennsylvania	1,353.7	9.7	0.2	1,343.8	55.0	2.7	42.3
Rhode Island	65.8	10.8	0.1	54.9	57.3	5.4	37.3
South Carolina	11.1	(X)	11.1	(X)	(X)	(X)	(X)
South Dakota	25.8	1.0	(X)	24.8	47.4	17.8	34.9
Vermont	33.5	0.2	(X)	33.3	54.9	18.1	27.1
Washington	224.0	8.9	0.1	215.0	47.7	14.0	38.3
West Virginia	67.6	13.8	0.4	53.4	49.6	22.0	28.3

X Not applicable. Z Less than \$50,000. <sup>1</sup> Represents nonlicense taxes. <sup>2</sup> Excludes commissions. <sup>3</sup> Excludes DC whose lottery began in 1984; (\$80.5) in 1984, (\$105.5) in 1985, (\$112.3) in 1986, (\$115.4) in 1987 and (\$116.4) in 1988. <sup>4</sup> Includes States whose gross revenues were less than \$1,000,000 not shown separately.

Source: U.S. Bureau of the Census, *State Government Finances*, series GF, No. 3, annual.

### No. 483. State Government Revenue From Severance Taxes, by State: 1985 to 1989

[In millions of dollars. For fiscal years; see text, section 9. Severance taxes are taxes imposed distinctively on the removal of natural products, such as oil, gas, other minerals, timber, and fish; from land or water and measured by value and/or quantity of products removed or sold. See source for information on particular taxes (including changes in tax rates) and additional analytical detail. For composition of regions, see fig. 1, inside front cover]

REGION AND STATE	1985	1987	1988	1989	REGION AND STATE	1985	1987	1988	1989
<b>Total</b>	<b>7,211</b>	<b>4,050</b>	<b>4,331</b>	<b>4,147</b>	Missouri	(Z)	(Z)	(Z)	(Z)
<b>Region:</b>					Montana	150.7	129.9	112.8	85.5
Northeast	0.1	0.1	-0.1	0.1	Nebraska	4.6	4.0	2.6	2.3
Midwest	463.7	235.0	248.5	228.3	Nevada	0.1	(Z)	10.7	0.4
South	4,244.7	2,423.2	2,489.1	2,475.6	New Hampshire	0.1	0.1	-0.1	0.1
West	2,502.5	1,391.4	1,613.5	1,443.2	New Mexico	390.8	235.0	291.9	256.2
Alabama	89.6	53.3	60.6	61.7	North Carolina	1.5	1.4	1.6	1.5
Alaska	1,389.3	666.9	818.7	698.4	North Dakota	176.3	95.8	93.3	79.5
Arkansas	26.0	15.1	16.3	14.5	Ohio	8.2	9.5	9.4	8.8
California	19.1	22.8	26.1	29.3	Oklahoma	708.8	370.2	386.7	371.6
Colorado	30.4	9.7	15.3	13.8	Oregon	31.8	33.3	32.0	37.5
Florida <sup>1</sup>	173.2	81.3	75.0	60.6	South Dakota	4.5	5.5	8.1	9.2
Idaho	0.7	0.4	0.7	0.4	Tennessee	2.8	1.6	1.8	1.6
Indiana	1.5	0.6	0.7	1.0	Texas	2,175.3	1,181.7	1,058.8	1,172.2
Kansas	111.9	63.6	81.8	79.7	Utah	49.4	21.5	29.2	30.6
Kentucky	228.0	203.1	210.0	198.1	Virginia	1.6	1.7	1.7	1.5
Louisiana	745.2	449.6	474.9	411.5	Washington	36.2	40.5	45.8	58.9
Michigan	75.7	48.3	43.6	40.5	West Virginia <sup>2</sup>	(X)	15.0	128.5	135.7
Minnesota	80.0	8.3	7.8	6.4	Wisconsin	1.0	1.1	0.9	0.9
Mississippi	92.9	49.2	53.2	45.1	Wyoming	404.0	259.7	230.3	231.7

X Not applicable. Z Less than \$50,000. <sup>1</sup> Beginning 1986, corporate excise tax was reclassified to corporate net income tax. <sup>2</sup> Severance tax replaced the business and occupation tax for specified firms engaged in natural resource activities effective July 1, 1987.

Source: U.S. Bureau of the Census, *State Government Tax Collections*, series GF, No. 1, annual.

### No. 484. State Government Intergovernmental Expenditures, 1980 to 1988, and by State, 1988

[For fiscal year, see text, section 9]

YEAR, DIVISION, AND STATE	Total (mil. dol.)	Per capita <sup>1</sup> (dol.)	Rank	As per cent of general expendi- ture	YEAR, DIVISION, AND STATE	Total (mil. dol.)	Per capita <sup>1</sup> (dol.)	Rank	As per cent of general expendi- ture
1980	84,504	374	(X)	37.0	VA	3,039	505	22	30.4
1985	121,571	511	(X)	35.2	WV	870	464	29	27.4
1986	131,966	549	(X)	35.1	NC	4,066	627	14	39.5
1987	141,279	582	(X)	35.0	SC	1,574	454	33	28.8
1988, U.S.	151,662	619	(X)	35.1	GA	2,929	462	30	32.2
N. Eng.: ME	545	452	34	24.3	FL	6,501	527	20	38.4
NH	205	189	49	14.4	E. So. Cent.: KY	1,742	467	28	27.4
VT	213	383	43	17.9	TN	1,685	344	47	25.4
MA	4,128	701	10	28.9	AL	1,772	432	39	28.2
RI	374	377	45	17.1	MS	1,392	531	19	37.0
CT	1,477	457	31	21.4	W. So. Cent.: AR	1,053	440	37	31.9
Mid. Atl.: NY	16,768	936	4	39.4	LA	1,865	423	41	25.6
NJ	5,462	707	9	33.6	OK	1,448	447	36	29.4
PA	6,120	510	21	32.8	TX	6,626	393	42	32.1
E. No. Cent.: OH	6,315	582	15	36.5	Mt.: MT	308	383	44	21.6
IN	2,995	539	18	35.7	ID	490	488	24	32.8
IL	5,274	454	32	30.2	WY	551	1,151	2	40.6
MI	5,814	629	13	32.2	CO	1,601	485	25	32.7
WI	3,856	794	7	42.5	NM	1,245	826	6	38.3
W. No. Cent.: MN	3,621	841	5	41.0	AZ	2,014	577	16	35.2
IA	1,802	636	12	36.2	UT	842	498	23	28.9
MO	2,304	448	35	33.3	NV	725	688	11	38.7
ND	365	548	17	24.8	Pac.: WA	3,485	750	8	37.4
SD	221	310	48	20.5	OR	1,202	434	38	26.3
NE	552	345	46	24.3	CA	29,755	1,051	3	49.9
KS	1,073	430	40	30.8	AK	794	1,516	1	20.5
So. Atl.: DE	318	482	27	19.3	HI	50	45	50	1.9
MD	2,233	483	26	26.6					

X Not applicable. <sup>1</sup> 1980 based on enumerated resident population as of April 1; 1985-1988 based on estimated resident population as of July 1.

Source: U.S. Bureau of the Census, *Census of Governments: 1987*, Vol. 6, No. 4, *Historical Statistics on Governmental Finances and Employment* (GC82(6)-4), and *State Government Finances*, series GF, No. 3, annual.

### No. 485. Local Government General Revenue, by Source, 1980 to 1988, and by State, 1988

[In millions of dollars, for fiscal year, see text, section 9. Data are estimates based on sample and subject to sampling variability; see source and Appendix III]

YEAR, DIVISION, AND STATE	Total <sup>1</sup>	INTERGOVERN- MENTAL FROM—		FROM OWN SOURCES		YEAR, DIVISION, AND STATE	Total <sup>1</sup>	INTERGOVERN- MENTAL FROM—		FROM OWN SOURCES	
		Federal	State	Total	Taxes			Federal	State	Total	Taxes
1980	232,453	21,136	81,289	130,027	86,387	DC	3,980	1,495	(X)	2,485	2,060
1985	354,119	21,724	116,380	216,014	134,473	VA	8,758	298	2,875	5,585	4,010
1986	380,714	20,433	126,824	233,457	144,997	WV	1,976	45	892	1,039	529
1987	411,584	19,395	136,869	255,321	158,293	NC	9,120	344	4,099	4,677	2,776
1988, U.S.	433,977	17,124	145,590	271,263	171,595	SC	3,992	144	1,508	2,340	1,202
N. Eng.	20,199	1,102	6,533	12,564	10,039	GA	10,819	481	2,989	7,349	3,674
ME	1,498	99	494	906	702	FL	21,790	667	6,485	14,638	7,313
NH	1,428	53	185	1,191	1,014	E. So. Cent.	18,352	962	6,389	11,001	5,331
VT	714	23	191	499	421	KY	3,978	164	1,647	2,167	1,073
MA	10,147	664	3,931	5,553	4,200	TN	6,153	231	1,753	4,169	2,225
RI	1,211	53	346	812	704	AL	4,733	401	1,548	2,784	1,309
CT	5,200	210	1,386	3,604	2,997	MS	3,489	165	1,442	1,882	724
Mid. Atl.	87,645	2,528	28,723	56,394	41,435	W. So. Cent.	38,592	1,375	10,435	26,781	15,883
NY	54,566	1,507	18,013	35,046	26,374	AR	2,347	88	989	1,271	644
NJ	14,568	312	4,677	9,579	7,354	LA	5,681	248	1,650	3,782	2,081
PA	18,510	709	6,033	11,768	7,706	OK	4,032	151	1,312	2,569	1,398
E. No. Cent.	67,640	2,590	22,327	42,722	29,400	TX	26,531	888	6,485	19,159	11,760
OH	16,724	718	5,681	10,325	7,036	Mt.	22,872	855	7,920	14,096	8,163
IN	7,460	261	2,862	4,337	2,694	MT	1,249	67	364	818	523
IL	18,763	961	4,837	12,965	9,614	ID	1,205	40	477	689	370
MI	15,967	443	5,201	10,323	6,892	WY	1,315	32	505	778	407
WI	8,725	208	3,745	4,772	3,164	CO	6,340	195	1,592	4,553	2,838
W. No. Cent.	28,604	1,060	8,922	18,621	10,947	NM	2,211	99	1,123	989	425
MN	9,723	352	3,852	5,519	2,799	AZ	6,225	218	2,278	3,729	2,176
IA	4,529	165	1,384	2,981	1,854	UT	2,320	120	809	1,391	865
MO	6,168	246	1,733	4,188	2,646	NV	2,007	86	776	1,148	558
ND	898	48	346	504	293	Pac.	81,116	2,734	33,050	45,332	24,786
SD	850	44	180	626	466	WA	8,079	487	3,175	4,417	2,291
NE	2,467	126	465	1,876	1,152	OR	4,947	349	1,172	3,426	2,322
KS	3,969	79	962	2,927	1,737	CA	65,286	1,756	27,825	35,706	19,094
So. Atl.	68,959	3,917	21,290	43,752	25,612	AK	2,059	59	812	1,187	638
DE	792	30	353	410	205	HI	744	83	66	595	441
MD	7,732	413	2,090	5,229	3,842						

X Not applicable. <sup>1</sup> Excludes duplicative intergovernmental transactions.

Source: U.S. Bureau of the Census, *Census of Governments: 1987*, Vol. 6, No. 4, *Historical Statistics on Governmental Finances and Employment* (GC82(6)-4), and *Government Finances*, series GF, No. 5, annual.

## No. 486. State Aid to Local Governments: 1982, 1987, and 1988

[In millions of dollars. Fiscal year data; see text, section 9. Expenditures are from state resources only, federal dollars for particular programs which may be passed along to local governments are excluded. For additional data on state general fund resources and expenditures; see table 479. For data on Federal aid to state and local governments; see tables 470 and 471]

STATE	TOTAL AID <sup>1</sup>			RESTRICTED AID <sup>2</sup>			UNRESTRICTED AID <sup>3</sup>		
	1982	1987	1988	1982	1987	1988	1982	1987	1988
<b>United States</b> .....	<b>88,129</b>	<b>132,970</b>	<b>142,638</b>	<b>78,427</b>	<b>117,494</b>	<b>126,117</b>	<b>9,703</b>	<b>15,476</b>	<b>16,521</b>
<b>New England:</b>									
Maine .....	318	554	612	297	503	553	21	51	59
New Hampshire .....	95	108	136	35	57	85	59	51	51
Vermont .....	86	157	183	86	157	183	1	1	1
Massachusetts .....	1,698	2,972	3,178	1,234	2,025	2,125	464	947	1,053
Rhode Island .....	193	310	364	176	275	312	16	35	52
Connecticut .....	733	1,440	1,788	594	1,137	1,365	138	302	423
<b>Middle Atlantic:</b>									
New York .....	10,755	16,548	17,820	9,696	15,339	16,616	1,059	1,209	1,204
New Jersey .....	2,928	4,308	4,589	2,048	3,264	3,490	880	1,044	1,099
Pennsylvania .....	3,461	5,124	5,459	3,401	5,033	5,362	60	91	97
<b>East North Central:</b>									
Ohio .....	4,825	7,906	8,230	4,477	7,373	7,699	148	532	531
Indiana .....	1,844	2,620	2,875	1,821	2,598	2,851	23	22	24
Illinois .....	3,379	4,632	4,665	2,447	3,320	3,191	932	1,312	1,474
Michigan .....	2,875	4,611	4,871	2,437	3,814	4,032	438	797	839
Wisconsin .....	1,993	3,248	3,388	1,225	1,953	2,275	767	1,295	1,112
<b>West North Central:</b>									
Minnesota .....	2,550	3,212	3,552	2,499	3,174	3,509	52	38	43
Iowa .....	908	1,132	1,283	889	1,114	1,263	19	18	20
Missouri .....	1,038	1,935	2,190	963	1,841	2,062	56	94	127
North Dakota .....	333	323	324	277	269	278	56	54	46
South Dakota .....	64	88	91	59	86	86	4	5	6
Nebraska .....	299	307	309	299	307	309	-	-	-
Kansas .....	659	919	1,000	535	751	811	124	168	189
<b>South Atlantic:</b>									
Delaware .....	197	309	339	194	305	326	3	4	12
Maryland .....	1,460	2,038	2,174	1,380	1,936	2,055	80	102	118
Virginia .....	1,384	2,334	2,548	1,311	2,231	2,441	73	103	108
West Virginia .....	649	880	872	635	866	861	14	14	11
North Carolina .....	2,186	3,728	4,117	2,170	3,667	4,022	16	61	95
South Carolina .....	760	1,248	1,341	685	1,120	1,183	74	129	158
Georgia .....	1,590	2,424	2,702	1,530	2,334	2,612	60	90	90
Florida .....	3,728	7,233	8,148	2,956	5,748	6,457	771	1,485	1,690
<b>East South Central:</b>									
Kentucky .....	1,003	1,474	1,645	964	1,437	1,605	40	37	40
Tennessee .....	981	1,491	1,574	745	1,113	1,177	236	378	398
Alabama .....	860	1,176	1,258	690	961	1,032	170	215	226
Mississippi .....	666	1,004	1,031	483	741	774	182	263	257
<b>West South Central:</b>									
Arkansas .....	497	768	840	454	719	791	43	48	48
Louisiana .....	1,301	1,298	1,309	1,023	1,080	1,125	278	218	184
Oklahoma .....	736	931	935	712	911	915	24	20	20
Texas .....	4,186	5,304	5,426	4,186	5,304	5,426	-	-	-
<b>Mountain:</b>									
Montana .....	186	230	280	171	206	260	15	24	21
Idaho .....	329	435	469	294	390	424	34	45	45
Wyoming .....	319	368	393	151	287	309	168	81	84
Colorado .....	785	1,120	1,153	767	1,104	1,136	18	16	17
New Mexico .....	909	1,200	1,245	714	870	882	195	330	362
Arizona .....	957	1,789	1,909	801	1,476	1,583	157	312	326
Utah .....	447	690	741	447	690	741	1	-	-
Nevada .....	346	278	604	169	(NA)	262	178	278	342
<b>Pacific:</b>									
Washington .....	2,011	2,725	2,892	1,769	2,400	2,555	241	325	337
Oregon .....	795	919	969	611	714	776	184	205	192
California .....	17,479	26,293	27,986	16,473	23,919	25,339	1,006	2,373	2,647
Alaska .....	531	810	802	424	574	589	107	236	213
Hawaii .....	18	18	32	( <sup>4</sup> )	( <sup>5</sup> )	( <sup>6</sup> )	18	18	32

- Represents or rounds to zero. NA Not available. <sup>1</sup> State resources given to local governments for public service delivery, either for specific programs or for general purpose government. <sup>2</sup> Funds must be spent by the receiving local units on programs identified by the state government; most common programs are in the following areas: education, human services, transportation, criminal justice, environmental protection, housing/community development, natural resources, and economic development.

<sup>3</sup> Funds granted to local governments without stipulating the use of these funds; most commonly in the form of payments in lieu of taxes; shared sales, income, and cigarette taxes; other shared taxes and fees; and direct state appropriations.

<sup>4</sup> Appropriated. <sup>5</sup> South Carolina has two shared revenue programs that are distributed directly to local governments but are not considered part of state budget. <sup>6</sup> Restricted aid is zero because state provides many of these services directly.

Source: National Association of State Budget Officers, *State Aid to Local Governments 1989*.

**No. 487. Number of Local Governments, by Type—States: 1982 and 1987**

[Governments in existence in January. Limited to governments actually in existence. Excludes, therefore, a few counties and numerous townships and "incorporated places" existing as areas for which statistics can be presented as to population and other subjects, but lacking any separate organized county, township, or municipal government]

STATE	1982			1987								
	All local government units <sup>1</sup>	School district governments	Special district governments	All local government units	County governments <sup>2</sup>	Municipal governments <sup>2</sup>	Township governments <sup>2</sup>	School district governments	Special district governments			
									Total <sup>1</sup>	Natural re-sources	Fire protection	Housing and community development
U.S. ....	81,780	14,851	28,078	83,188	3,042	19,200	16,691	14,721	29,532	6,360	5,070	3,484
AL. ....	1,018	127	390	1,053	67	436	-	129	421	69	4	156
AK. ....	156	-	6	172	9	149	-	-	14	-	-	13
AZ. ....	452	232	130	576	15	81	-	227	253	82	116	-
AR. ....	1,424	372	505	1,396	75	483	-	333	505	245	33	130
CA. ....	4,102	1,111	2,506	4,331	57	442	-	1,098	2,734	521	389	93
CO. ....	1,544	185	1,030	1,593	62	266	-	180	1,085	188	213	56
CT. ....	479	16	281	477	-	31	149	16	281	1	55	91
DE. ....	217	19	139	281	3	57	-	19	202	197	-	3
DC. ....	2	-	1	2	-	1	-	-	1	-	-	-
FL. ....	969	95	417	965	66	390	-	95	414	133	48	98
GA. ....	1,268	187	390	1,286	158	532	-	186	410	28	6	208
HI. ....	18	-	14	18	3	1	-	-	14	14	-	-
ID. ....	1,018	117	659	1,065	44	198	-	118	705	169	119	13
IL. ....	6,467	1,049	2,602	6,627	102	1,279	1,434	1,029	2,783	913	801	114
IN. ....	2,865	305	897	2,806	91	567	1,008	304	836	129	-	45
IA. ....	1,871	456	361	1,877	99	955	-	451	372	234	69	15
KS. ....	3,795	326	1,370	3,803	105	627	1,360	324	1,387	271	-	101
KY. ....	1,241	180	517	1,303	119	437	-	178	569	127	85	24
LA. ....	468	66	39	452	61	301	-	66	24	2	-	-
ME. ....	806	98	195	800	16	22	471	88	203	13	-	28
MD. ....	439	-	264	401	23	155	-	-	223	165	-	20
MA. ....	798	81	354	836	12	39	312	82	391	16	20	249
MI. ....	2,643	599	184	2,699	83	534	1,242	590	250	85	1	-
MN. ....	3,529	436	356	3,555	87	855	1,798	441	374	119	-	169
MS. ....	858	169	315	853	82	293	-	171	307	227	-	59
MO. ....	3,117	557	1,195	3,147	114	930	325	561	1,217	155	145	172
MT. ....	1,029	399	450	1,243	54	128	-	547	514	117	128	18
NE. ....	3,324	1,069	1,157	3,152	93	534	454	952	1,119	110	427	134
NV. ....	184	17	134	197	16	18	-	17	146	29	15	14
NH. ....	517	160	113	524	10	13	221	160	120	9	15	22
NJ. ....	1,591	548	454	1,625	21	320	247	551	486	16	172	84
NM. ....	319	89	101	331	33	98	-	88	112	73	-	7
NY. ....	3,249	726	923	3,302	57	618	929	720	978	2	898	-
NC. ....	905	-	321	916	100	495	-	-	321	142	1	108
ND. ....	2,795	325	692	2,787	53	366	1,355	310	703	83	279	34
OH. ....	3,393	669	377	3,377	88	940	1,318	621	410	100	30	55
OK. ....	1,702	638	406	1,802	77	591	-	636	498	110	17	119
OR. ....	1,454	352	825	1,502	36	240	-	350	876	213	270	23
PA. ....	5,198	514	2,050	4,956	66	1,022	1,548	515	1,805	5	1	88
RI. ....	122	3	80	125	-	8	31	3	83	3	39	26
SC. ....	645	92	242	707	46	269	-	92	300	46	86	43
SD. ....	1,767	198	199	1,782	64	309	984	193	212	102	31	38
TN. ....	913	15	469	904	94	334	-	14	462	124	-	94
TX. ....	4,180	1,124	1,681	4,415	254	1,156	-	1,113	1,892	399	70	398
UT. ....	504	40	211	530	29	225	-	40	236	71	13	11
VT. ....	664	273	83	673	14	55	237	272	95	20	19	9
VA. ....	407	-	83	430	95	229	-	-	106	43	-	-
WA. ....	1,734	300	1,130	1,779	39	266	-	297	1,177	161	411	48
WV. ....	633	55	292	630	55	230	-	55	290	15	-	32
WI. ....	2,592	408	263	2,719	72	580	1,268	433	366	150	-	204
WY. ....	395	56	225	424	23	95	-	56	250	114	44	-

- Represents zero. <sup>1</sup> Includes other types of governments not shown separately. <sup>2</sup> Includes "town" governments in the 6 New England States and in Minnesota, New York, and Wisconsin.

Source: U.S. Bureau of the Census, *Census of Governments: 1982 and 1987, Vol. 1, No. 1, Government Organization*.

### No. 488. County, Municipal, and Township Governments, 1987, and Their Population, 1986, by Population-Size Group

[Number of governments as of January 1987; population estimated as of July 1, 1986. Consolidated city-county governments are classified as municipal rather than county governments. Township governments include "towns" in the 6 New England States, Minnesota, New York, and Wisconsin]

POPULATION-SIZE GROUP	COUNTY GOVERNMENTS			MUNICIPAL GOVERNMENTS			TOWNSHIP GOVERNMENTS		
	Number, 1987	Population, 1986		Number, 1987	Population, 1986		Number, 1987	Population, 1986	
		Number (1,000)	Per cent		Number (1,000)	Per cent		Number (1,000)	Per cent
<b>Total</b> .....	<b>3,042</b>	<b>217,397</b>	<b>100.0</b>	<b>19,200</b>	<b>149,864</b>	<b>100.0</b>	<b>16,691</b>	<b>52,065</b>	<b>100.0</b>
250,000 or more .....	167	113,164	52.1	61	44,059	29.4	4	1,744	3.4
100,000-249,999 .....	231	35,559	16.4	122	17,882	11.9	29	4,015	7.7
50,000-99,999 .....	387	27,279	12.6	285	19,522	13.0	74	4,989	9.6
25,000-49,999 .....	616	21,807	10.0	561	19,386	13.0	233	7,832	15.1
10,000-24,999 .....	943	15,580	7.2	1,303	20,425	13.6	706	10,899	20.9
5,000-9,999 .....				1,544	10,850	7.3	1,005	7,021	13.5
2,500-4,999 .....				2,151	7,646	5.1	1,775	6,215	11.9
1,000-2,499 .....	698	4,007	1.9	3,804	6,061	4.1	3,722	5,958	11.4
Less than 1,000 .....				9,369	3,933	2.6	9,143	3,392	6.5

Source: U.S. Bureau of the Census, *Census of Governments: 1987, Vol. 1, No. 1, Government Organization*.

### No. 489. County Governments—Summary of Finances, 1980 to 1988, and Per Capita, by Population-Size Group, 1988

[Covers fiscal years ending between July 1 of preceding year and June 30 of year stated. Represents all counties and their dependent agencies (including dependent school systems where applicable). Per capita based on estimated resident population as of July 1986]

ITEM	ALL COUNTIES (mil. dol.) <sup>1</sup>			PER CAPITA (dollars), 1988								
	1980	1985	1988	All counties		Counties with 1986 population (1,000) of—						
				Total (3,043) <sup>2</sup>	Per- cent distribu- tion	Less than 100 <sup>3</sup> (2,645) <sup>2</sup>	100 to 149.9 (124)	150 to 199.9 (66)	200 to 299.9 (75)	300 to 499.9 (58)	500 to 999.9 (53)	1,000 or more (22)
<b>General revenue . . . . .</b>	<b>54,573</b>	<b>85,500</b>	<b>106,069</b>	<b>477.82</b>	<b>100.0</b>	<b>440.80</b>	<b>413.21</b>	<b>467.21</b>	<b>418.83</b>	<b>441.02</b>	<b>619.69</b>	<b>542.02</b>
Intergovernmental revenue <sup>4</sup>	24,746	32,614	38,636	174.05	36.4	161.99	168.18	158.08	146.45	148.68	195.14	225.80
From State govern- ments	18,969	26,716	34,414	155.03	32.5	143.39	153.73	140.00	131.59	136.91	170.13	201.64
From Federal government . . . . .	4,948	4,708	2,643	11.91	2.5	13.20	8.64	10.67	9.53	7.74	13.51	14.54
Tax revenue <sup>4</sup>	18,813	30,898	40,578	182.80	38.3	154.58	138.54	206.80	154.49	182.90	274.22	193.17
Property . . . . .	14,300	23,193	29,680	133.70	28.0	113.49	100.28	147.85	111.81	135.55	185.43	153.79
Charges and miscela- neous	11,014	21,988	26,855	120.98	25.3	124.23	106.50	102.32	117.90	109.44	150.32	123.05
<b>General expenditure . . . . .</b>	<b>54,291</b>	<b>90,948</b>	<b>105,462</b>	<b>475.05</b>	<b>100.0</b>	<b>436.45</b>	<b>395.17</b>	<b>459.37</b>	<b>413.99</b>	<b>455.63</b>	<b>618.25</b>	<b>538.72</b>
Capital outlay	6,505	7,603	10,857	48.91	10.3	41.51	35.79	44.75	40.24	44.62	76.06	54.98
Other . . . . .	47,786	73,345	94,596	426.14	89.7	394.94	359.38	414.62	373.75	411.01	542.19	483.74
Public welfare . . . . .	8,591	12,237	15,069	67.88	14.3	39.35	57.47	48.82	73.33	74.86	91.91	102.17
Education . . . . .	8,412	11,683	15,229	68.61	14.5	92.72	69.36	118.55	40.16	74.29	93.74	15.58
Highways . . . . .	5,227	7,008	8,400	37.84	8.0	59.35	34.76	33.44	31.52	27.90	28.55	26.95
Hospitals . . . . .	5,975	9,005	10,685	48.13	10.1	51.87	32.37	15.47	36.24	33.95	50.29	71.97
General control <sup>5</sup>	3,374	5,566	7,309	30.39	6.4	21.08	23.98	25.59	27.48	28.48	38.66	46.91
Police protection . . . . .	2,661	4,392	5,562	25.05	5.3	21.52	20.97	27.25	20.18	21.35	28.45	35.30
Financial administration . . . . .	1,521	2,410	2,959	13.33	2.8	14.50	10.48	15.53	12.29	12.47	14.63	13.33
General public buildings . . . . .	1,072	1,489	1,746	7.87	1.7	7.70	6.35	8.21	8.11	7.25	11.82	6.45
Health . . . . .	2,806	4,794	6,409	28.87	6.1	23.12	26.94	28.88	30.21	30.36	33.91	36.25
Correction . . . . .	1,759	3,466	5,237	23.59	5.0	12.32	17.42	17.07	21.97	34.21	32.47	40.32
Natural resources . . . . .	687	1,033	1,109	4.99	1.1	4.69	2.42	3.14	2.19	4.42	4.25	9.43
Parks and recreation . . . . .	1,094	1,506	1,946	8.77	1.9	4.03	4.63	8.66	7.90	8.84	18.72	10.63
Interest on general debt . . . . .	1,542	4,852	7,171	32.31	6.8	25.62	26.17	26.78	25.71	28.38	48.18	41.50
Other and unallocable . . . . .	9,570	11,709	16,621	77.42	16.3	58.58	61.85	81.98	76.70	78.87	122.67	81.93
<b>Debt outstanding, end of year</b>	<b>32,993</b>	<b>72,260</b>	<b>102,794</b>	<b>463.07</b>	<b>100.0</b>	<b>360.80</b>	<b>380.39</b>	<b>405.47</b>	<b>379.90</b>	<b>441.94</b>	<b>680.87</b>	<b>582.77</b>
Long-term . . . . .	31,543	69,192	100,214	451.45	97.5	356.73	371.93	404.78	369.60	433.41	670.45	551.41
Short-term . . . . .	1,450	3,068	2,580	11.62	2.5	4.07	8.46	0.69	10.30	8.53	10.43	31.36

<sup>1</sup> Data for counties under 100,000 population are estimates subject to sampling variation; see Appendix III and source.  
<sup>2</sup> Figures in parentheses represent number of counties in each size group. <sup>3</sup> Estimated. <sup>4</sup> Includes other revenues not shown separately.  
<sup>5</sup> Includes judicial and legal as well as other administrative expenditures.

Source: U.S. Bureau of the Census, *County Government Finances*, series GF, No. 8, annual.

## No. 490. City Governments—Summary of Finances: 1980 to 1988

[For fiscal years ending in year shown; see text, section 9. Data revised since originally published and may not agree, therefore, with table 492. Represents all municipalities and their dependent agencies (including dependent school systems where applicable); excludes other local governments overlapping city areas. Includes sample-based estimates for cities of less than 50,000; thus subject to sampling variation. See Appendix III and source.]

ITEM	TOTAL (mil. dol.)			PER CAPITA <sup>1</sup> (dol.)			PERCENT DISTRIBUTION		
	1980	1985	1988	1980	1985	1988	1980	1985	1988
<b>Revenue</b> .....	<b>94,862</b>	<b>147,672</b>	<b>176,684</b>	<b>672</b>	<b>1,007</b>	<b>1,179</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
General revenue .....	76,056	114,649	135,835	539	781	906	80.2	77.6	76.9
Intergovernmental revenue .....	28,270	35,859	38,440	200	244	257	29.8	24.3	21.8
From State governments only .....	15,939	23,103	28,079	113	157	187	16.8	15.6	15.9
Taxes .....	31,256	47,647	59,791	222	325	399	32.9	32.3	33.9
Property .....	16,859	23,459	29,948	119	160	200	17.8	15.9	17.0
Percent of total taxes .....	53.9	49.2	50.1	(X)	(X)	(X)	(X)	(X)	(X)
Sales and gross receipts .....	8,208	13,877	16,690	58	95	111	8.7	9.4	9.5
General .....	5,096	8,569	10,173	36	58	68	5.4	5.8	5.8
Selective .....	3,112	5,307	6,516	22	36	44	3.3	3.6	3.7
Income, licenses and other .....	6,189	10,312	13,153	44	70	88	6.5	7.0	7.5
Charges and miscellaneous .....	16,530	31,142	37,604	117	212	251	17.4	21.1	21.3
Current charges only .....	9,875	16,514	21,373	70	113	143	10.4	11.2	12.1
Utility and liquor store revenue .....	15,719	26,471	30,553	111	180	204	16.6	17.9	17.3
Water system .....	4,989	8,504	10,437	35	58	70	5.3	5.8	5.9
Electric power system .....	8,007	13,363	15,769	57	91	105	8.4	9.0	8.9
Gas supply system .....	1,444	2,796	2,313	10	19	16	1.5	1.9	1.3
Transit system .....	1,032	1,548	1,761	7	11	12	1.1	1.0	1.0
Liquor stores .....	247	260	273	2	2	2	0.3	0.2	0.2
Insurance trust revenue .....	3,088	6,552	10,275	22	45	69	3.3	4.4	5.8
<b>Expenditure</b> .....	<b>93,699</b>	<b>140,000</b>	<b>174,651</b>	<b>664</b>	<b>954</b>	<b>1,165</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
General expenditure .....	72,433	105,652	133,881	513	720	893	77.3	75.5	76.7
Police protection .....	8,200	12,574	15,724	58	86	105	8.8	9.0	9.0
Fire protection .....	4,535	6,798	8,258	32	46	55	4.6	4.9	4.7
Highways .....	5,977	8,709	10,764	42	59	72	6.4	6.2	6.2
Sewerage and other sanitation .....	7,907	11,446	14,849	56	78	99	8.4	8.2	8.5
Public welfare .....	3,801	5,762	6,549	27	39	44	4.1	4.1	3.8
Education .....	9,284	11,433	14,591	66	78	97	9.9	8.2	8.4
Libraries .....	883	1,304	1,654	6	9	11	0.9	0.9	1.0
Health and hospitals .....	4,457	6,575	8,042	32	45	54	4.8	4.7	4.6
Parks and recreation .....	3,433	4,993	6,456	24	34	43	3.7	3.6	3.7
Housing and community development .....	3,459	5,105	6,574	25	35	44	3.7	3.6	3.8
Airports .....	1,100	1,694	2,512	8	12	17	1.2	1.2	1.4
Financial administration .....	1,843	2,703	3,375	13	18	23	2.0	1.9	1.9
General control .....	2,015	3,401	4,548	14	23	30	2.2	2.4	2.6
General public buildings .....	1,090	1,483	1,647	8	10	11	1.2	1.1	1.0
Interest on general debt .....	3,054	6,859	9,977	22	47	67	3.3	4.9	5.7
Other and unallocable .....	11,395	14,814	18,366	81	101	116	12.2	10.6	10.0
Utility and liquor store expenditure .....	18,274	29,534	34,706	130	201	232	19.5	21.1	19.9
Water system .....	5,933	9,601	12,087	42	65	81	6.3	6.9	6.9
Electric power system .....	8,596	13,588	15,987	61	93	107	9.2	9.7	9.2
Gas supply system .....	1,334	2,724	2,251	9	19	15	1.4	1.9	1.3
Transit system .....	2,189	3,381	4,129	16	23	28	2.3	2.4	2.4
Liquor stores .....	222	240	242	2	2	2	0.2	0.2	0.1
Insurance trust expenditure .....	2,993	4,814	6,064	21	33	41	3.2	3.4	3.5
By character and object:									
Direct expenditure .....	91,692	136,601	170,000	650	931	1,134	97.9	97.6	97.3
Current operation .....	66,687	99,301	121,028	473	677	808	71.2	70.9	69.3
Capital outlay .....	16,285	21,374	28,121	115	146	188	17.4	15.3	16.1
Construction .....	13,341	16,638	21,018	95	113	140	14.2	11.9	12.0
Land and existing structures .....	2,944	4,736	7,102	21	32	47	3.1	3.4	4.1
Assistance payments .....	1,546	2,060	2,043	11	14	14	1.6	1.5	1.2
Interest on debt .....	4,182	9,052	12,744	30	62	85	4.5	6.5	7.3
Insurance benefits, repayments .....	2,992	4,814	6,064	21	33	41	3.2	3.4	3.5
Intergovernmental expenditure .....	2,007	3,399	4,651	14	23	31	2.1	2.4	2.7
<b>Total salaries and wages</b> <sup>4</sup> .....	<b>34,709</b>	<b>48,050</b>	<b>59,324</b>	<b>246</b>	<b>328</b>	<b>396</b>	<b>37.0</b>	<b>34.3</b>	<b>34.0</b>
<b>Debt outstanding, year end</b> .....	<b>86,019</b>	<b>141,139</b>	<b>189,397</b>	<b>610</b>	<b>961</b>	<b>1,264</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Long-term .....	82,346	135,912	184,965	584	926	1,234	95.7	96.3	97.7
Full faith and credit .....	39,570	46,345	60,323	280	316	403	46.0	32.8	31.9
Nonguaranteed .....	42,776	89,567	124,642	303	611	832	49.7	63.5	65.8
Short-term .....	3,673	5,227	4,432	26	36	30	4.3	3.7	2.4
Net long-term debt outstanding .....	72,528	124,516	125,751	514	849	839	84.3	88.2	66.4
Long-term debt issued .....	12,582	25,683	22,168	89	175	148	(X)	(X)	(X)
Long-term debt retired .....	5,541	11,397	15,026	39	78	100	(X)	(X)	(X)

X Not applicable. <sup>1</sup> 1980 based on enumerated resident population as of April 1, 1980; 1985 based on estimated resident population as of July 1, 1984; 1988 based on estimated resident population as of July 1, 1986. <sup>2</sup> Includes judicial and legal as well as other governmental administration. <sup>3</sup> Includes equipment. <sup>4</sup> Included in items shown above.

Source: U.S. Bureau of the Census, *City Government Finances*, series GF No. 4, annual.

### No. 491. City Governments—Total and Per Capita Revenue, Expenditure, and Debt for Largest Cities: 1988

[For fiscal year closed in the 12 months ending June 30, 1988. Cities ranked by size of population estimated as of July 1, 1986, except Honolulu and Baton Rouge ranked by county population. Data reflect inclusion of fiscal activity of dependent school systems, where applicable. Intercity comparisons should be made with caution due to variations in responsibilities among urban areas; for details see text, section 9 and source]

CITIES RANKED BY 1986 POPULATION	GENERAL REVENUE		INTERGOVERN- MENTAL REVENUE		TAXES		GENERAL EXPENDITURE		GROSS DEBT OUTSTANDING	
	Total (mil. dol.)	Per capita <sup>1</sup> (dol.)	Total (mil. dol.)	Per capita <sup>1</sup> (dol.)	Total (mil. dol.)	Per capita <sup>1</sup> (dol.)	Total (mil. dol.)	Per capita <sup>1</sup> (dol.)	Total (mil. dol.)	Per capita <sup>1</sup> (dol.)
New York City, NY <sup>2</sup>	27,728	3,818	10,397	1,432	13,448	1,852	25,745	3,545	19,448	2,678
Los Angeles, CA	2,933	900	398	122	1,487	458	3,010	923	5,025	1,542
Chicago, IL	2,628	873	707	235	1,430	475	2,680	891	3,215	1,068
Houston, TX	1,251	723	160	93	600	347	1,429	826	3,572	2,066
Philadelphia, PA <sup>2</sup>	2,404	1,463	553	337	1,444	879	2,282	1,389	3,843	2,339
Detroit, MI	1,443	1,328	700	644	510	470	1,590	1,484	1,177	1,084
San Diego, CA	861	848	173	171	276	272	787	775	1,524	1,501
Dallas, TX	739	737	38	38	437	435	956	953	1,412	1,407
San Antonio, TX	511	559	80	88	174	191	689	754	3,437	3,759
Phoenix, AZ	856	857	274	307	270	302	885	968	1,812	2,027
Honolulu, HI	542	664	103	127	324	397	546	668	509	623
Baltimore, MD	1,579	2,097	795	1,056	583	775	1,398	1,855	1,228	1,631
San Francisco, CA <sup>2</sup>	2,049	2,736	615	821	742	991	1,613	2,153	1,832	2,446
Indianapolis, IN	689	957	230	320	286	398	667	926	612	850
San Jose, CA	522	733	72	101	257	360	547	768	961	1,349
Memphis, TN	696	1,066	430	659	148	227	658	1,008	797	1,222
Washington, DC <sup>2</sup>	3,649	5,829	1,191	1,902	2,060	3,291	3,687	5,889	2,835	4,529
Jacksonville, FL <sup>2</sup>	571	937	115	188	184	302	522	856	3,845	6,303
Milwaukee, WI	509	841	247	409	139	230	495	818	578	955
Boston, MA	1,396	2,433	656	1,143	514	896	1,315	2,293	752	1,311
Columbus, OH	433	765	69	122	226	399	495	874	1,017	1,797
New Orleans, LA <sup>2</sup>	559	1,008	96	173	251	453	556	1,003	1,029	1,855
Cleveland, OH	456	852	123	230	237	443	466	869	703	1,312
Denver, CO <sup>2</sup>	790	1,564	174	345	314	622	827	1,637	1,285	2,545
El Paso, TX	202	411	24	49	82	167	174	354	425	863
Seattle, WA	535	1,101	82	168	269	554	510	1,050	859	1,767
Nashville-Davidson, TN <sup>2</sup>	831	1,753	178	375	373	787	797	1,683	2,374	5,012
Austin, TX	472	1,012	55	119	155	333	597	1,279	2,882	6,176
Oklahoma City, OK	318	712	33	75	126	282	314	705	465	1,042
Kansas City, MO	478	1,083	46	104	277	627	476	1,078	546	1,239
Fort Worth, TX	320	746	26	60	183	378	350	814	859	2,233
St. Louis, MO <sup>2</sup>	484	1,136	76	179	268	630	486	1,140	687	1,613
Atlanta, GA	575	1,362	114	271	188	446	478	1,134	1,155	2,737
Long Beach, CA	487	1,229	89	225	134	338	432	1,091	559	1,411
Portland, OR	345	888	66	169	168	434	365	940	590	1,520
Pittsburgh, PA	331	855	74	191	214	552	282	728	540	1,384
Miami, FL	266	711	54	145	157	421	304	813	487	1,301
Tulsa, OK	343	918	17	45	142	380	348	931	1,461	3,909
Cincinnati, OH	430	1,164	94	253	179	485	383	1,036	212	573
Baton Rouge, LA	308	835	41	110	152	410	302	819	673	1,822
Albuquerque, NM	387	1,054	127	348	87	237	436	1,190	1,126	3,071
Tucson, AZ	324	889	111	304	116	317	344	942	808	2,214
Oakland, CA	433	1,212	54	151	171	479	378	1,059	1,024	2,969
Minneapolis, MN	527	1,477	164	459	139	391	565	1,583	1,832	5,134
Charlotte, NC	315	896	73	207	124	352	368	1,049	676	1,921
Omaha, NE	207	592	44	127	120	343	196	569	185	529
Toledo, OH	240	705	57	168	120	352	254	747	173	509
Virginia Beach, VA <sup>2</sup>	499	1,497	192	576	250	750	495	1,484	439	1,315
Buffalo, NY	565	1,738	373	1,150	116	356	568	1,812	336	1,034
Sacramento, CA	232	716	24	74	122	379	249	769	198	611
Newark, NJ	328	1,035	184	583	78	245	283	926	146	463
Wichita, KS	263	912	52	181	63	220	228	792	913	3,169
Louisville, KY	191	663	42	146	112	369	211	733	634	2,206
Fresno, CA	181	634	35	124	80	280	184	646	258	907
Tampa, FL	248	895	42	151	90	324	258	929	629	2,265
Birmingham, AL	200	719	27	96	127	456	226	813	575	2,074
Norfolk, VA	451	1,640	185	675	174	634	468	1,703	487	1,772
Colorado Springs, CO	238	873	34	125	77	282	307	1,126	359	1,315
Corpus Christi, TX	141	536	15	56	64	242	138	523	416	1,577
St. Paul, MN	314	1,191	88	333	85	324	356	1,349	950	3,602
Mesa, AZ	146	579	50	201	42	168	173	687	324	1,288
Arlington, TX	125	502	7	30	69	277	142	570	457	1,828
Anaheim, CA	188	783	32	133	74	307	203	845	582	2,417
St. Petersburg, FL	170	712	23	84	65	271	195	813	363	1,517
Santa Ana, CA	146	617	28	119	80	339	160	676	203	856
Rochester, NY	521	2,208	330	1,399	122	516	547	2,319	242	1,026
Anchorage, AK <sup>2</sup>	651	2,772	311	1,322	170	724	669	2,845	1,074	4,572
Akron, OH	189	762	30	134	80	362	178	802	129	580
Shreveport, LA <sup>3</sup>	132	601	24	107	73	333	148	670	348	1,581
Jersey City, NJ	349	1,591	170	773	101	461	414	1,886	169	772
Aurora, CO	156	714	10	44	84	383	152	685	455	2,089
Richmond, VA <sup>2</sup>	451	2,071	153	702	218	1,004	466	2,142	547	2,511
Lexington-Fayette, KY <sup>2</sup>	172	807	38	177	86	401	187	877	413	1,935
Jackson, MS	107	516	35	170	36	172	95	456	296	1,419
Mobile, AL	134	658	6	29	76	372	116	573	565	2,779

<sup>1</sup>Based on estimated population as of July 1, 1986. <sup>2</sup>Represents, in effect, city-county consolidated government. <sup>3</sup>1987 data.

Source: U.S. Bureau of the Census, *City Government Finances*, series GF, No. 4, annual.



## No. 492. City Governments—Finances, by Population-Size Groups: 1988

[For fiscal year closed in the 12 months ending June 30, 1988. Represents all municipalities and their dependent agencies, including dependent school systems where applicable. Size classifications based on 1986 population estimates; municipalities selected according to their 1986 estimated populations]

ITEM	All cities <sup>1</sup>	CITIES HAVING A 1986 POPULATION OF—						
		Less than 75,000 <sup>1</sup>	75,000 to 99,999	100,000 to 199,999	200,000 to 299,999	300,000 to 499,000	500,000 to 999,999	1,000,000 or more
Number of cities, 1988 . . . . .	19,200	18,930	87	108	24	27	16	8
Population, 1986 (1,000) . . . . .	149,890	80,386	7,558	14,721	5,902	10,527	10,788	20,008
FINANCES, 1988 (mil. dol.)								
General revenue <sup>2</sup> . . . . .	135,835	44,670	5,965	12,566	5,859	10,781	15,808	39,986
Taxes <sup>2</sup> . . . . .	59,791	18,681	2,708	5,318	2,253	4,490	6,711	19,632
Property . . . . .	29,948	10,908	1,715	3,282	1,111	2,051	3,262	7,619
Percent of total taxes . . . . .	50.1	58.4	63.4	61.7	49.3	45.7	48.6	38.8
Sales and gross receipts . . . . .	16,689	5,189	753	1,454	762	1,553	1,617	5,361
Intergovernmental <sup>2</sup> . . . . .	38,440	10,681	1,490	3,627	1,774	2,473	5,270	13,125
From State governments . . . . .	28,079	8,297	1,175	2,628	1,274	1,540	3,019	10,146
From Federal Government . . . . .	7,291	1,908	211	627	329	615	1,941	1,660
Current charges . . . . .	21,373	8,646	958	2,106	1,051	2,027	2,175	4,410
Water supply and other utilities revenue <sup>3</sup> . . . . .	30,553	14,967	1,139	3,470	1,097	2,058	2,950	4,872
General expenditure <sup>2</sup> . . . . .	133,881	44,193	6,042	12,822	6,236	10,766	15,344	38,478
Police and fire protection . . . . .	23,982	9,519	1,261	2,590	1,060	2,087	2,422	5,033
Education . . . . .	14,591	2,587	838	1,884	981	836	1,806	5,659
Sewerage and sanitation . . . . .	14,849	6,335	568	1,364	594	1,364	1,531	3,093
Highways . . . . .	10,764	5,410	598	1,155	477	718	959	1,447
Health and hospitals . . . . .	8,041	2,033	199	500	390	446	1,305	3,168
Public welfare . . . . .	6,549	215	36	186	72	66	984	4,990
Housing and community development . . . . .	6,574	1,555	307	557	336	567	729	2,523
Interest on general debt . . . . .	9,977	3,500	521	875	633	1,254	1,208	1,986
Water supply and other utilities expenditure <sup>3</sup> . . . . .	34,706	15,676	1,238	3,658	1,256	2,576	3,765	6,537
Gross debt outstanding . . . . .	189,397	67,621	9,151	16,973	11,388	21,817	23,234	39,213
Long-term . . . . .	184,965	66,111	9,051	16,677	11,214	21,633	22,877	37,402
Short-term . . . . .	4,432	1,512	100	296	174	183	357	1,810
PERCENT DISTRIBUTION								
General revenue <sup>2</sup> . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Taxes <sup>2</sup> . . . . .	44.0	41.6	45.4	42.3	38.5	41.7	42.5	49.1
Property . . . . .	22.1	24.3	28.8	26.1	19.0	19.0	20.6	19.1
Sales and gross receipts . . . . .	12.3	11.6	12.6	11.6	13.0	14.4	10.2	13.4
Intergovernmental . . . . .	28.3	23.8	25.0	28.8	30.3	22.9	33.3	32.8
Current charges . . . . .	15.7	19.3	16.1	18.7	17.9	18.8	13.8	11.0
General expenditure <sup>2</sup> . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Police and fire protection . . . . .	17.9	21.5	20.9	20.2	17.0	19.5	15.8	13.1
Education . . . . .	10.9	5.9	13.9	14.7	15.7	7.8	11.8	14.7
Sewerage and sanitation . . . . .	11.1	14.3	9.4	10.6	9.5	12.7	10.0	8.0
Highways . . . . .	8.0	12.3	9.9	9.0	7.7	6.7	6.3	3.8
Health and hospitals . . . . .	6.0	4.6	3.3	3.9	6.3	4.2	8.5	8.2
Public welfare . . . . .	4.9	0.5	0.6	1.5	1.2	0.6	6.4	13.0
Housing and community development . . . . .	4.9	3.5	5.1	4.4	5.4	5.3	4.8	6.6
Interest on general debt . . . . .	7.5	7.9	8.6	6.8	10.2	11.7	7.9	5.2
PER CAPITA <sup>4</sup> (dollars)								
General revenue <sup>2</sup> . . . . .	906	558	789	855	993	1,024	1,465	1,999
Taxes <sup>2</sup> . . . . .	399	232	358	361	382	427	622	981
Property . . . . .	200	136	227	223	188	195	302	381
Sales and gross receipts . . . . .	111	85	100	99	129	148	150	268
Intergovernmental <sup>2</sup> . . . . .	257	133	197	246	301	235	489	656
From State governments . . . . .	187	103	156	179	216	146	280	507
From Federal Government . . . . .	49	24	28	43	56	59	180	83
Current charges . . . . .	143	108	127	143	178	193	202	221
Water supply and other utilities revenue <sup>3</sup> . . . . .	204	186	151	236	186	196	274	244
General expenditure <sup>2</sup> . . . . .	893	550	800	871	1,057	1,023	1,422	1,923
Police and fire protection . . . . .	160	119	167	176	180	199	225	252
Education . . . . .	97	32	111	128	166	80	168	283
Sewerage and sanitation . . . . .	99	79	75	93	101	130	142	155
Highways . . . . .	72	67	79	79	81	68	89	72
Health and hospitals . . . . .	54	25	26	34	66	42	121	158
Public welfare . . . . .	44	3	5	13	12	6	91	250
Housing and community development . . . . .	44	19	41	38	57	54	68	126
Interest on general debt . . . . .	67	44	69	60	107	119	112	99
Water supply and other utilities expenditure <sup>3</sup> . . . . .	232	195	164	249	213	245	349	327
Gross debt outstanding . . . . .	1,284	841	1,211	1,153	1,930	2,073	2,154	1,960
Long-term . . . . .	1,234	823	1,198	1,133	1,900	2,055	2,121	1,889
Short-term . . . . .	30	19	13	20	30	17	33	91

<sup>1</sup> Data are estimates subject to sampling variation, see source and Appendix III. <sup>2</sup> Includes items not shown separately. <sup>3</sup> Includes liquor stores. <sup>4</sup> Based on estimated resident population as of July 1, 1986.

Source: U.S. Bureau of the Census, *City Government Finances*, series GF, No. 4, annual.

**No. 493. City Governments—Finances,**  
(In millions of dollars. For fiscal year closed)

CITIES RANKED BY 1986 <sup>1</sup> POPULATION	REVENUE							Utility and liquor store revenue	Gross debt out- stand- ing
	Total <sup>2</sup>	General revenue							
		Total <sup>2</sup>	Intergovernmental		Taxes				
			From State and local gov'ts	From Federal Government	Total <sup>2</sup>	Prop- erty	Sales and gross receipts		
New York City, NY <sup>3</sup>	33,775	27,728	9,505.8	890.8	13,447.8	5,427.3	3,256.5	1,758.2	19,446
Los Angeles, CA	5,309	2,933	311.6	86.1	1,486.5	516.6	683.3	1,796.6	5,025
Chicago, IL	3,269	2,628	419.9	287.5	1,429.5	505.9	788.0	187.6	3,215
Houston, TX	1,628	1,251	28.5	131.9	600.1	346.4	238.2	188.8	3,572
Philadelphia, PA <sup>3</sup>	3,028	2,404	455.2	97.7	1,444.3	278.5	29.6	574.5	3,843
Detroit, MI	1,937	1,443	614.5	85.2	510.5	176.8	50.4	139.0	1,177
San Diego, CA	1,053	861	109.7	63.6	276.4	110.8	147.2	117.2	1,524
Dallas, TX	1,043	739	20.1	17.5	436.8	256.3	167.7	110.5	1,412
San Antonio, TX	1,351	511	23.8	56.5	174.4	98.7	70.4	807.2	3,437
Phoenix, AZ	976	856	204.8	69.4	270.3	91.3	162.4	87.7	1,812
Honolulu, HI <sup>3</sup>	610	542	33.6	69.6	324.1	258.8	40.0	67.5	509
Baltimore, MD <sup>3</sup>	1,745	1,579	662.9	131.9	583.4	386.7	36.8	41.5	1,228
San Francisco, CA <sup>3</sup>	2,516	2,049	519.5	95.5	742.2	387.6	178.2	192.3	1,832
Indianapolis, IN <sup>3</sup>	703	689	173.9	56.4	286.3	234.9	15.2	8.0	612
San Jose, CA	605	522	59.6	12.1	256.6	96.3	112.3	6.4	961
Memphis, TN	1,576	696	417.6	12.4	148.2	195.6	28.0	773.3	797
Washington, DC <sup>3</sup>	3,907	3,649	40.1	1,150.9	2,060.3	609.4	572.2	56.5	2,835
Jacksonville, FL <sup>3</sup>	1,131	571	78.5	36.2	184.0	134.8	40.0	485.9	3,845
Milwaukee, WI	703	509	225.6	21.6	139.0	130.0	2.2	34.1	578
Boston, MA <sup>3</sup>	1,500	1,396	619.5	36.1	513.8	461.1	31.2	34.1	752
Columbus, OH	505	433	44.0	24.8	225.9	17.8	5.6	72.0	1,017
New Orleans, LA <sup>3</sup>	639	559	29.4	66.4	251.2	109.8	121.5	53.4	1,029
Cleveland, OH	602	456	53.9	69.3	237.4	45.2	2.5	146.0	703
Denver, CO <sup>3</sup>	914	790	142.3	31.7	314.0	90.5	28.7	84.8	1,285
El Paso, TX	256	202	9.0	15.2	82.0	46.0	32.8	29.8	425
Seattle, WA	878	535	64.5	17.2	269.1	98.6	110.7	280.3	859
Nashville-Davidson, TN	1,429	831	158.4	19.3	372.8	195.6	148.4	564.2	2,374
Austin, TX	957	472	44.8	10.5	155.3	94.0	55.9	441.4	2,882
Oklahoma City, OK	364	318	4.8	28.7	125.9	25.9	96.3	29.2	465
Kansas City, MO	572	478	24.8	21.1	276.8	40.7	126.4	38.9	546
Fort Worth, TX	425	320	14.9	10.8	162.5	107.0	51.0	49.1	959
St. Louis, MO <sup>3</sup>	593	484	29.9	46.6	268.4	35.3	121.8	28.6	687
Atlanta, GA	682	575	74.0	40.5	188.0	106.6	52.2	67.0	1,155
Long Beach, CA	642	487	60.0	29.0	134.1	55.7	65.1	153.6	559
Portland, OR	386	345	40.9	24.7	168.5	116.4	30.2	38.0	590
Pittsburgh, PA	343	331	56.8	17.3	214.0	97.7	20.5	-	540
Miami, FL	357	266	30.6	23.6	157.3	117.4	33.3	-	487
Tulsa, OK	388	343	12.0	4.9	141.9	20.3	119.2	39.2	1,461
Cincinnati, OH	581	430	64.0	29.5	179.2	31.3	1.9	42.9	212
Baton Rouge, LA <sup>3</sup>	341	308	22.0	18.7	151.5	56.9	86.4	2.7	673
Albuquerque, NM	424	387	98.4	29.0	87.1	42.1	41.2	37.5	1,126
Tucson, AZ	402	324	85.5	25.3	115.8	20.9	89.2	63.5	808
Oakland, CA	459	433	40.7	13.2	171.1	77.3	56.8	-	1,024
Minneapolis, MN	663	527	115.2	48.5	139.5	119.2	11.6	23.2	1,832
Charlotte, NC	354	315	67.2	5.6	124.0	112.5	2.8	26.9	676
Omaha, NE	237	207	23.3	21.1	119.7	56.4	55.8	-	185
Toledo, OH	259	240	22.2	35.1	120.0	11.1	0.8	19.3	173
Virginia Beach, VA <sup>3</sup>	526	499	170.0	22.1	250.0	162.6	64.6	26.6	439
Buffalo, NY	580	565	337.5	35.9	115.8	102.1	9.4	15.7	336
Sacramento, CA	283	232	22.5	1.4	122.5	49.8	61.0	16.6	198
Newark, NJ	353	328	163.9	20.5	77.6	51.2	8.1	24.3	146
Wichita, KS	318	263	44.6	7.7	63.5	40.3	19.7	18.6	913
Louisville, KY	257	191	5.2	36.9	111.9	32.5	17.2	50.7	634
Fresno, CA	252	181	22.7	12.7	79.8	29.8	40.1	12.6	258
Tampa, FL	369	248	28.4	13.6	89.8	28.3	54.5	22.6	629
Birmingham, AL	233	200	13.8	12.8	126.5	20.9	44.0	-	575
Norfolk, VA <sup>3</sup>	518	451	133.2	52.3	174.2	94.2	62.3	28.6	487
Colorado Springs, CO	490	238	26.7	7.3	77.0	15.2	60.6	249.6	359
Corpus Christi, TX	190	141	5.5	9.2	63.9	38.3	24.7	48.7	416
St. Paul, MN	365	314	68.1	19.7	85.4	64.0	16.7	23.4	950
Mesa, AZ	207	146	46.5	4.0	42.3	4.0	35.3	61.7	324
Arlington, TX	152	125	1.8	5.7	69.2	39.8	27.5	26.4	457
Anaheim, CA	403	188	16.5	15.6	73.9	13.6	54.3	214.1	582
St. Petersburg, FL	221	170	16.9	5.8	64.8	37.1	24.9	32.1	363
Santa Ana, CA	162	146	14.7	13.5	80.2	34.3	37.3	15.6	203
Rochester, NY	545	521	306.1	24.0	121.8	108.0	10.0	23.6	242
Anchorage, AK <sup>3</sup>	753	651	299.4	11.3	170.1	161.1	3.4	79.8	1,074
Akron, OH	192	169	20.3	9.5	80.3	12.3	0.2	22.4	129
Shreveport, LA	152	132	14.9	8.7	73.5	29.6	39.8	13.7	348
Jersey City, NJ <sup>4</sup>	373	349	165.2	4.5	101.3	99.1	-	17.0	169
Aurora, CO	176	156	8.7	0.9	83.5	13.5	63.3	20.4	455
Richmond, VA <sup>3</sup>	550	451	126.2	26.6	218.5	139.0	53.8	86.7	547
Lexington-Fayette, KY <sup>3</sup>	186	172	15.5	22.3	85.6	15.8	14.5	1.3	413
Jackson, MS	123	107	31.4	4.0	36.0	31.1	3.2	15.1	296
Mobile, AL	146	134	5.9	0.1	75.6	5.5	54.3	11.8	565

- Represents zero. Z Less than \$50,000. <sup>1</sup> Based on estimated resident population as of July 1, 1986. <sup>2</sup> Includes other categories, not shown separately. <sup>3</sup> Represents, in effect, city-county consolidated government. <sup>4</sup> 1987 data.

## Largest Cities: 1989

in the 12 months ending June 30, 1988. See headnote, table 491]

Total <sup>2</sup>	EXPENDITURE								Utility and liquor store	CITIES RANKED BY 1986 <sup>1</sup> POPULATION
	General expenditure									
	Total <sup>2</sup>	Educa- tion	Housing and com- munity develop- ment	Public welfare	Health and hospitals	Police protec- tion	Fire protec- tion	High- ways		
31,327	25,745	5,592.3	1,622.6	4,744.0	2,769.7	1,540.0	653.7	615.0	3,192.2	New York City, NY <sup>3</sup>
5,270	3,010	4.1	194.4	-	6.4	508.6	200.2	173.9	1,782.8	Los Angeles, CA
3,127	2,680	34.4	168.2	88.1	71.1	547.8	204.0	251.3	158.0	Chicago, IL
1,674	1,429	-	40.5	-	29.5	179.0	111.7	115.7	201.1	Houston, TX
3,117	2,282	23.2	139.4	156.4	199.5	283.2	103.4	51.0	626.9	Philadelphia, PA <sup>3</sup>
2,060	1,590	5.1	283.9	-	77.5	266.6	68.6	114.0	251.7	Detroit, MI
982	787	-	57.7	1.2	1.9	122.7	48.5	53.6	160.7	San Diego, CA
1,180	956	-	15.9	-	12.6	124.0	70.5	72.4	163.4	Dallas, TX
1,653	689	5.6	11.2	3.0	14.3	71.7	49.5	79.3	954.6	San Antonio, TX
999	865	6.2	38.9	0.6	0.7	122.3	60.5	130.5	120.5	Phoenix, AZ
691	546	-	29.3	-	5.7	82.1	33.1	51.0	145.6	Honolulu, HI <sup>3</sup>
1,510	1,396	428.7	49.9	0.6	43.0	137.9	68.8	159.4	49.7	Baltimore, MD <sup>3</sup>
2,197	1,613	40.5	35.9	198.2	338.7	125.7	78.5	10.7	406.4	San Francisco, CA <sup>3</sup>
715	667	0.7	25.4	50.2	119.7	74.9	27.9	40.6	24.7	Indianapolis, IN <sup>3</sup>
580	547	-	96.1	-	-	71.6	41.5	45.7	7.1	San Jose, CA
1,440	658	326.2	7.0	-	13.5	64.0	49.4	15.9	733.0	Memphis, TN
4,038	3,687	603.0	203.1	613.2	423.4	231.4	89.2	140.8	97.9	Washington, DC <sup>3</sup>
1,264	522	(Z)	29.5	8.7	27.4	55.2	40.9	41.4	717.4	Jacksonville, FL <sup>3</sup>
578	495	-	30.3	-	12.1	102.6	49.7	44.1	30.8	Milwaukee, WI
1,491	1,315	395.2	58.4	2.3	159.8	123.3	77.9	49.8	22.5	Boston, MA <sup>3</sup>
592	495	-	10.0	-	17.0	75.1	46.5	34.9	97.4	Columbus, OH
633	556	-	57.2	16.8	9.3	51.8	29.0	40.8	50.6	New Orleans, LA <sup>3</sup>
653	466	-	36.1	-	14.8	95.1	50.4	43.9	186.7	Cleveland, OH
960	827	-	10.3	90.5	105.2	93.1	51.0	30.5	120.0	Denver, CO <sup>3</sup>
218	174	-	3.5	0.3	9.6	31.7	17.5	13.6	34.5	El Paso, TX
874	510	-	18.1	-	8.0	66.5	48.8	13.0	315.2	Seattle, WA
1,463	797	271.9	6.6	7.5	73.4	49.9	27.7	32.5	629.5	Nashville-Davidson, TN <sup>3</sup>
1,329	597	0.4	1.7	1.1	106.5	50.9	33.8	78.0	717.8	Austin, TX
381	314	-	10.7	-	40.9	37.8	26.2	23.3	62.0	Oklahoma City, OK
542	476	22.3	7.1	0.1	31.9	69.4	31.9	41.6	45.3	Kansas City, MO
450	350	-	3.2	-	7.1	43.8	30.6	41.3	85.4	Fort Worth, TX
548	486	1.8	19.6	3.3	51.2	81.4	33.8	19.4	25.5	St. Louis, MO <sup>3</sup>
561	478	21.3	18.5	3.8	0.1	49.8	31.7	23.2	55.8	Atlanta, GA
599	432	1.2	50.3	-	8.4	72.8	44.6	19.2	165.7	Long Beach, CA
430	365	-	64.5	-	14.2	63.4	39.9	18.1	39.2	Portland, OR
328	282	-	8.2	(Z)	7.8	38.0	30.2	19.5	13.5	Pittsburgh, PA
330	304	(Z)	24.2	1.1	0.2	67.8	37.0	18.2	-	Miami, FL
395	348	0.2	4.6	-	5.6	37.5	27.1	19.7	44.7	Tulsa, OK
458	383	-	28.0	-	24.6	50.1	39.4	29.1	38.0	Cincinnati, OH
323	302	-	16.1	1.1	20.7	29.5	16.5	14.4	5.4	Baton Rouge, LA <sup>3</sup>
486	436	-	15.8	-	3.0	38.3	21.0	24.0	49.4	Albuquerque, NM
419	344	-	18.5	1.8	-	48.8	23.4	48.0	70.9	Tucson, AZ
414	378	1.8	29.8	-	(Z)	51.8	28.5	19.6	-	Oakland, CA
649	565	-	73.3	-	8.0	43.9	25.3	38.0	22.6	Minneapolis, MN
419	369	-	10.3	0.3	1.7	28.0	22.6	35.6	46.9	Charlotte, NC
204	196	0.1	8.3	-	0.3	28.1	22.4	25.7	8.2	Omaha, NE
274	254	-	23.9	-	4.5	45.8	27.9	18.3	19.4	Toledo, OH
521	495	231.8	2.7	10.4	10.6	31.2	16.6	42.8	26.5	Virginia Beach, VA <sup>3</sup>
603	588	282.7	49.4	-	1.2	37.8	31.1	22.7	14.8	Buffalo, NY
284	249	-	27.5	-	0.8	48.6	29.2	18.7	19.0	Sacramento, CA
329	293	-	22.1	35.4	5.8	52.2	36.8	0.8	28.9	Newark, NJ
257	228	-	8.3	-	2.8	16.7	11.3	25.2	18.4	Wichita, KS
272	211	-	28.7	3.0	3.8	34.2	18.8	8.4	53.3	Louisville, KY
227	184	-	7.6	-	3.8	39.7	17.1	18.6	23.5	Fresno, CA
321	258	-	7.0	-	(Z)	37.0	17.0	16.2	43.4	Tampa, FL
238	226	1.7	11.4	-	1.8	25.3	21.5	25.9	-	Birmingham, AL
507	468	167.6	50.7	23.7	22.6	23.8	17.4	23.9	29.0	Norfolk, VA <sup>3</sup>
582	307	-	6.1	-	68.0	24.6	15.9	31.9	274.4	Colorado Springs, CO
200	138	-	(Z)	-	5.1	18.7	12.0	13.0	62.1	Corpus Christi, TX
392	356	-	18.4	-	47.3	27.4	20.6	21.1	25.6	St. Paul, MN
245	173	-	3.3	0.2	-	31.8	17.1	22.0	72.6	Mesa, AZ
184	142	-	6.3	-	1.4	19.5	14.7	29.3	41.8	Arlington, TX
405	203	-	34.9	-	1.4	34.1	17.3	9.6	201.1	Anaheim, CA
245	195	-	6.3	-	-	29.4	11.6	16.8	40.1	St. Petersburg, FL
176	160	-	38.2	-	2.4	34.9	15.7	14.1	15.4	Santa Ana, CA
566	547	238.4	35.9	-	-	31.2	22.5	11.0	18.9	Rochester, NY
778	669	246.8	-	-	27.3	40.1	23.5	72.7	105.4	Anchorage, AK <sup>3</sup>
195	178	-	8.0	-	5.3	23.2	18.8	22.3	17.1	Akron, OH
187	148	-	3.0	(Z)	(Z)	14.3	14.6	25.1	34.1	Shreveport, LA
429	414	162.9	2.8	6.1	80.8	32.7	26.6	7.9	11.4	Jersey City, NJ <sup>4</sup>
173	152	-	1.2	-	-	24.8	15.6	21.0	21.4	Aurora, CO
581	466	157.1	45.9	33.4	10.3	29.8	24.6	16.7	105.0	Richmond, VA <sup>3</sup>
201	187	-	10.7	5.3	8.8	17.0	17.3	10.1	8.3	Lexington-Fayette, KY <sup>3</sup>
113	95	-	1.3	-	-	14.3	12.9	12.3	17.7	Jackson, MS
132	116	-	-	-	0.5	16.1	12.1	3.9	15.7	Mobile, AL

Source: U.S. Bureau of the Census, *City Government Finances*, series GF, No. 4, annual.

### No. 494. Estimated State and Local Taxes Paid by a Family of Four in Selected Large Cities, by Income Level: 1989

[Preliminary. Data based on average family of four (two wage earners and two school age children) owning their own home and living in a city where taxes apply. Comprises State and local sales, income, auto, and real estate taxes. For definition of median, see Guide to Tabular Presentation]

CITY	TOTAL TAXES PAID BY GROSS FAMILY INCOME LEVEL (dol.)				PERCENT OF INCOME BY INCOME LEVEL			
	\$25,000	\$50,000	\$75,000	\$100,000	\$25,000	\$50,000	\$75,000	\$100,000
Albuquerque, NM	2,074	4,116	6,880	9,679	8.3	8.2	9.2	9.7
Atlanta, GA	2,651	5,181	8,478	11,202	10.6	10.4	11.3	11.2
Baltimore, MD	2,861	5,758	8,832	11,701	11.4	11.5	11.8	11.7
Bridgeport, CT	2,754	4,484	7,653	9,717	11.0	9.0	10.2	9.7
Burlington, VT	2,024	4,075	6,888	9,446	8.1	8.1	9.2	9.4
Charleston, WV	1,877	3,560	6,514	8,834	7.5	7.1	8.7	8.8
Charlotte, NC	2,309	4,558	7,416	9,909	9.2	9.1	9.9	9.9
Chicago, IL	1,931	3,791	5,910	7,772	7.7	7.6	7.9	7.8
Cleveland, OH	2,429	5,049	8,051	11,126	9.7	10.1	10.7	11.1
Columbia, SC	2,352	4,928	8,226	10,862	9.4	9.9	11.0	10.9
Des Moines, IA	2,610	5,331	8,287	10,951	10.4	10.7	11.0	11.0
Detroit, MI	3,016	6,091	9,363	12,478	12.1	12.2	12.5	12.5
Honolulu, HI	2,282	5,002	8,200	11,222	9.1	10.0	10.9	11.2
Indianapolis, IN	2,197	3,834	6,361	8,202	8.8	7.7	8.5	8.2
Jackson, MS	1,988	3,951	7,010	9,178	8.0	7.9	9.3	9.2
Louisville, KY	2,380	4,696	7,110	9,288	9.5	9.4	9.5	9.3
Memphis, TN	1,849	3,036	4,546	5,840	7.4	6.1	6.1	5.8
Milwaukee, WI	3,546	7,409	11,405	15,063	14.2	14.8	15.2	15.1
Newark, NJ	2,418	4,878	7,636	10,117	9.7	9.8	10.2	10.1
New York City, NY	2,654	6,154	10,272	14,001	10.6	12.3	13.7	14.0
Norfolk, VA	2,120	4,317	7,396	9,618	8.5	8.6	9.9	9.6
Omaha, NE	2,306	4,351	7,377	9,856	9.2	8.7	9.8	9.9
Philadelphia, PA	3,067	5,803	8,529	11,135	12.3	11.6	11.4	11.1
Portland, ME	2,047	4,622	8,455	11,409	8.2	9.2	11.3	11.4
Portland, OR	3,496	7,288	11,429	15,139	14.0	14.6	15.2	15.1
Providence, RI	2,595	4,904	8,364	11,125	10.4	9.8	11.2	11.1
St. Louis, MO	2,164	4,303	6,804	8,883	8.7	8.6	9.1	8.9
Salt Lake City, UT	2,313	4,784	7,593	10,083	9.3	9.6	10.1	10.1
Sioux Falls, SD	2,312	3,869	5,790	7,396	9.2	7.7	7.7	7.4
Washington, DC	2,602	5,381	8,732	11,941	10.4	10.8	11.6	11.9
Median <sup>1</sup>	2,195	4,484	7,375	9,446	8.8	9.0	9.8	9.4

<sup>1</sup> Median of all 51 cities. For complete list of cities, see table 495.

Source: Government of the District of Columbia, Department of Finance and Revenue, *Tax Rates and Tax Burdens in the District of Columbia: a Nationwide Comparison*, annual.

### No. 495. Residential Property Tax Rates in Selected Large Cities: 1989

CITY	EFFECTIVE TAX RATE PER \$100		Assessment level (per cent)	Nominal rate per \$100	CITY	EFFECTIVE TAX RATE PER \$100		Assessment level (per cent)	Nominal rate per \$100
	Rank	Rate				Rank	Rate		
Detroit, MI	1	4.40	49.4	6.92	Louisville, KY	26	1.53	100.0	1.53
Milwaukee, WI	2	3.69	95.3	3.87	Jackson, MS	27	1.46	10.0	14.58
Portland, OR	3	3.32	100.0	3.32	New Orleans, LA	28	1.44	10.0	14.37
Des Moines, IA	4	3.11	79.8	3.90	Billings, MT	29	1.32	3.9	34.10
Cleveland, OH	5	2.75	35.0	7.87	Seattle, WA	30	1.30	95.7	1.36
Baltimore, MD	6	2.62	42.5	6.16	Columbia, SC	31	1.24	4.0	31.04
Newark, NJ	7	2.61	17.0	15.37	Norfolk, VA	32	1.22	90.0	1.35
Philadelphia, PA	8	2.52	32.0	7.87	Wichita, KS	33	1.17	7.8	14.97
Omaha, NE	9	2.44	89.2	2.73	St. Louis, MO	34	1.15	19.0	6.04
Providence, RI	10	2.39	100.0	2.39	Charlotte, NC	35	1.14	88.7	1.29
Sioux Falls, IA	11	2.33	94.2	2.47	Washington, DC	36	1.09	92.7	1.18
Minneapolis, MN	12	2.19	22.3	9.83	Little Rock, AR	37	1.08	20.0	5.41
Jacksonville, FL	13	2.13	99.7	2.14	Salt Lake City, UT	38	1.05	60.0	1.75
Atlanta, GA	14	2.08	40.0	5.20	Albuquerque, NM	39	1.03	33.3	3.10
Boise City, ID	15	1.95	100.0	1.95	Denver, CO	40	1.01	15.0	6.74
Bridgeport, CT	16	1.83	32.0	5.72	Oklahoma City, OK	41	0.97	11.0	8.85
Memphis, TN	17	1.77	25.0	7.09	Las Vegas, NV	42	0.94	32.1	2.92
Manchester, NH	18	1.74	17.0	10.23	New York City, NY	43	0.85	8.9	9.54
Anchorage, AK	19	1.71	91.9	1.86	Boston, MA	44	0.80	100.0	0.80
Fargo, ND	20	1.70	4.5	37.73	Casper, WY	45	0.72	9.5	7.61
Burlington, VT	21	1.59	72.0	2.21	Birmingham, AL	46	0.70	10.0	6.95
Chicago, IL	22	1.59	16.0	9.93	Phoenix, AZ	47	0.68	5.4	12.50
Indianapolis, IN	23	1.58	15.0	10.53	Honolulu, HI	48	0.64	100.0	0.64
Portland, ME	24	1.56	45.0	3.48	Los Angeles, CA	49	0.63	61.2	1.03
Houston, TX	25	1.53	100.0	1.53	Wilmington, DE	50	0.63	75.9	0.83
					Charleston, WV	51	0.53	30.4	1.73

Source: Government of the District of Columbia, Department of Finance and Revenue, *Tax Rates and Tax Burdens in the District of Columbia: a Nationwide Comparison*, annual.

**No. 496. Gross Assessed Value of Property and Government Revenue From Property Taxes: 1975 to 1988**

[In billions of dollars, except percent. Data are estimates subject to sampling variability; see Appendix III and source]

ITEM	1975	1979	1981	1983	1984	1985	1986	1987	1988
<b>Gross assessed value of property<sup>1</sup></b>	<b>1,096.3</b>	<b>1,678.8</b>	<b>2,958.2</b>	(NA)	<b>4,053.1</b>	(NA)	<b>4,817.8</b>	(NA)	(NA)
State assessed	74.8	113.5	159.2	(NA)	200.1	(NA)	242.9	(NA)	(NA)
Locally assessed	1,021.5	1,565.3	2,799.0	(NA)	3,853.0	(NA)	4,574.9	(NA)	(NA)
Real property	881.6	1,358.5	2,514.9	(NA)	3,446.5	(NA)	4,104.5	(NA)	(NA)
Percent of locally assessed	86.3	86.8	89.8	(NA)	89.4	(NA)	89.7	(NA)	(NA)
<b>Net assessed value of locally taxable property<sup>2</sup></b>	<b>1,062.9</b>	<b>1,607.3</b>	<b>2,837.5</b>	(NA)	<b>3,868.8</b>	(NA)	<b>4,619.7</b>	(NA)	(NA)
Percent of gross assessed	97.0	95.7	95.9	(NA)	95.5	(NA)	95.9	(NA)	(NA)
<b>REVENUE FROM PROPERTY TAXES</b>									
<b>Total revenue, State and local</b>	<b>51.5</b>	<b>64.9</b>	<b>75.0</b>	<b>89.1</b>	<b>96.5</b>	<b>103.8</b>	<b>111.7</b>	<b>121.2</b>	<b>132.2</b>
Percent of general revenue	22.6	18.9	17.7	18.3	17.8	17.4	17.4	17.7	18.2
Percent of tax revenue	36.4	31.6	30.7	31.3	30.1	29.7	29.9	29.9	30.4
Revenue, State governments	1.5	2.5	2.9	3.3	3.9	4.0	4.4	4.6	5.0
Percent of all revenue	0.9	1.0	0.9	0.9	1.0	0.9	0.9	0.9	1.1
Percent of tax revenue	1.8	2.0	2.0	1.9	2.0	1.9	1.9	1.9	1.9
Revenue, local governments	50.0	62.5	72.0	85.8	92.6	99.8	107.4	116.6	127.2
Annual average percent change from prior year shown	38.6	5.7	7.3	9.2	7.9	7.8	7.6	8.6	9.1
Percent of all revenue	32.2	26.6	25.0	25.4	25.3	24.6	24.7	24.8	29.3
Percent of tax revenue	81.6	77.5	76.0	76.0	75.0	74.2	74.0	73.7	74.1

NA Not available. <sup>1</sup> Gross assessed value amounts may include prior year components for those states unable to report data for indicated year at time of publication. See sources for definitions of terms and limitations of data. <sup>2</sup> Value subject to local general property taxation, including State-assessed property, after deduction of partial exemptions. <sup>3</sup> Change from 1971.

Source: U.S. Bureau of the Census, *Census of Governments: 1982 and 1987, Vol. 2: Property Values Subject to Local General Property Taxation in the United States: 1975 and 1979*, series GSS Nos. 80, 92, and 98; and *Government Finances*, series GF, No. 5, annual.

**No. 497. Governmental Employment and Payrolls: 1970 to 1988**

[For October. Covers both full-time and part-time employees. Except for 1982, local government data are estimates subject to sampling variation; see source and Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series Y 272-307]

TYPE OF GOVERNMENT	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
<b>EMPLOYEES (1,000)</b>											
<b>Total</b>	<b>13,028</b>	<b>14,973</b>	<b>16,213</b>	<b>15,968</b>	<b>15,841</b>	<b>16,034</b>	<b>16,436</b>	<b>16,690</b>	<b>16,933</b>	<b>17,281</b>	<b>17,588</b>
Federal (civilian)	2,881	2,890	2,898	2,865	2,848	2,875	2,942	3,021	3,019	3,081	3,112
State and local	10,147	12,084	13,315	13,103	12,993	13,159	13,494	13,669	13,913	14,190	14,476
Percent of total	77.9	80.7	82.1	82.1	82.0	82.1	82.1	81.9	82.2	82.1	82.3
State	2,755	3,271	3,753	3,726	3,744	3,816	3,898	3,984	4,068	4,115	4,236
Local	7,392	8,813	9,562	9,377	9,249	9,344	9,595	9,685	9,846	10,076	10,240
Counties	1,229	1,563	1,853	1,808	1,824	1,811	1,872	1,891	1,926	1,963	2,024
Municipalities	2,244	2,506	2,561	2,469	2,397	2,424	2,434	2,467	2,494	2,541	2,570
School districts	3,316	3,969	4,270	4,222	4,194	4,211	4,387	4,416	4,502	4,620	4,679
Townships	330	392	394	386	356	379	386	392	400	414	415
Special districts	275	383	484	492	478	519	516	519	524	537	552
<b>OCTOBER PAYROLLS (mil.dol.)</b>											
<b>Total</b>	<b>8,334</b>	<b>13,224</b>	<b>19,935</b>	<b>21,193</b>	<b>23,173</b>	<b>24,525</b>	<b>26,904</b>	<b>28,945</b>	<b>30,670</b>	<b>32,382</b>	<b>34,203</b>
Federal (civilian)	2,428	3,584	5,205	5,239	5,959	6,301	7,137	7,580	7,561	7,924	7,976
State and local	5,906	9,640	14,730	15,954	17,214	18,224	19,767	21,365	23,109	24,458	26,227
Percent of total	70.9	72.9	73.9	75.3	74.2	74.3	73.5	73.8	75.3	75.5	76.7
State	1,612	2,653	4,285	4,698	5,022	5,348	5,815	6,329	6,810	7,298	7,842
Local	4,294	6,987	10,445	11,257	12,192	12,878	13,952	15,036	16,298	17,160	18,385
Counties	640	1,183	1,896	2,083	2,287	2,387	2,596	2,819	3,009	3,258	3,532
Municipalities	1,361	2,129	2,951	3,222	3,428	3,640	3,872	4,191	4,407	4,687	4,979
School districts	2,032	3,160	4,683	5,021	5,442	5,729	6,283	6,746	7,517	7,788	8,298
Townships	122	215	390	349	370	396	421	446	474	508	556
Special districts	140	300	546	612	665	724	780	834	892	938	1,020

<sup>1</sup> Includes employees outside the United States.

Source: U.S. Bureau of the Census, *1982 Census of Governments, Vol. 6, No. 5, Historical Statistics on Governmental Finances and Employment, and Public Employment*, series GE, No. 1, annual.

### No. 498. Governmental Employment and Payrolls, by Level of Government and by Function: 1988

[For October. Covers both full-time and part-time employees. Local government data are estimates subject to sampling variation; see source and Appendix III]

FUNCTION	EMPLOYEES (1,000)					OCTOBER PAYROLLS (mil. dol.)				
	Total	Federal (civilian) <sup>1</sup>	State and local			Total	Federal (civilian) <sup>1</sup>	State and local		
			Total	State	Local			Total	State	Local
<b>Total</b>	<b>17,588</b>	<b>3,112</b>	<b>14,476</b>	<b>4,238</b>	<b>10,240</b>	<b>34,203</b>	<b>7,976</b>	<b>26,227</b>	<b>7,842</b>	<b>18,385</b>
National defense <sup>2</sup>	1,060	1,060	(X)	(X)	(X)	2,749	2,749	(X)	(X)	(X)
Postal Service	834	834	(X)	(X)	(X)	2,050	2,050	(X)	(X)	(X)
Space research and technology	23	23	(X)	(X)	(X)	85	85	(X)	(X)	(X)
Education	7,525	14	7,510	1,854	5,656	13,161	37	13,125	2,929	10,196
Teachers	4,249	(X)	4,249	570	3,679	9,238	(X)	9,241	1,347	7,893
Highways	559	4	555	253	302	1,060	15	1,045	527	518
Health and hospitals	1,694	263	1,431	704	727	3,245	634	2,611	1,371	1,240
Public welfare	464	14	450	202	248	799	38	761	376	385
Police protection	803	79	725	85	640	1,849	240	1,609	214	1,396
Fire protection	340	(X)	340	(X)	340	864	(X)	864	(X)	864
Sanitation and sewerage	230	(X)	230	(X)	229	438	(X)	438	(X)	435
Parks and recreation	314	24	290	38	252	401	55	346	55	291
Natural resources	422	227	195	159	37	958	611	347	294	53
Financial administration	463	143	340	138	203	916	314	602	283	319
Other government administration	399	28	372	49	323	535	75	460	101	360
Judicial and legal	318	38	281	103	178	729	111	618	281	337
All other	2,121	363	1,757	651	1,106	4,564	963	3,602	1,409	2,193

X Not applicable. <sup>1</sup> Includes employees outside United States. <sup>2</sup> Includes international relations.

Source: U.S. Bureau of the Census, *Public Employment in 1988*, series GE 88, No. 1.

### No. 499. State and Local Government—Full-Time Employment and Salary, by Sex and Race/Ethnic Group: 1973 to 1989

[As of June 30. Excludes school systems and educational institutions. Based on reports from State governments (44 in 1973, 48 in 1975 and 1976, 47 in 1977, 45 in 1978, 48 in 1979, 42 in 1980, 49 in 1981, 47 in 1983, 49 in 1984 through 1987, and 50 in 1988) and a sample of county, municipal, township, and special district jurisdictions employing 15 or more non-elected, nonappointed full-time employees. Data for 1982 and 1988 not available. For definition of median, see Guide to Tabular Presentation]

YEAR AND OCCUPATION	EMPLOYMENT (1,000)							MEDIAN ANNUAL SALARY (\$1,000)						
	Total	Male	Female	White <sup>1</sup>	Minority			Male	Female	White <sup>1</sup>	Minority			
					Total <sup>2</sup>	Black <sup>1</sup>	Hispanic <sup>3</sup>				Total <sup>1</sup>	Black <sup>2</sup>	Hispanic <sup>3</sup>	
1973	3,809	2,486	1,322	3,115	693	523	125	9.6	7.0	8.8	7.5	7.4	7.4	
1975	3,899	2,436	1,464	3,102	797	602	147	11.3	8.2	10.2	8.8	8.6	8.9	
1976	3,369	2,724	1,645	3,490	880	664	165	11.8	8.6	10.7	9.2	9.1	9.4	
1977	4,415	2,737	1,678	3,480	935	705	175	12.4	9.1	11.3	9.7	9.5	9.9	
1978	4,447	2,711	1,736	3,481	966	723	181	13.3	9.7	12.0	10.4	10.1	10.7	
1979	4,576	2,761	1,816	3,568	1,008	751	192	14.1	10.4	12.8	10.9	10.6	11.4	
1980	3,987	2,350	1,637	3,146	842	619	163	15.2	11.4	13.8	11.8	11.5	12.3	
1981	4,665	2,740	1,925	3,591	1,074	780	205	17.7	13.1	16.1	13.5	13.3	14.7	
1983	4,492	2,674	1,818	3,423	1,069	768	219	20.1	15.3	18.5	15.9	15.6	17.3	
1984	4,580	2,700	1,880	3,458	1,121	799	233	21.4	16.2	19.6	17.4	16.5	18.4	
1985	4,742	2,789	1,952	3,563	1,179	835	248	22.3	17.3	20.6	18.4	17.5	19.2	
1986	4,779	2,797	1,982	3,549	1,230	865	259	23.4	18.1	21.5	19.6	18.7	20.2	
1987	4,849	2,818	2,031	3,600	1,249	872	268	24.2	18.9	22.4	20.9	19.3	21.1	
<b>1989, total</b>	<b>5,257</b>	<b>3,030</b>	<b>2,227</b>	<b>3,863</b>	<b>1,394</b>	<b>961</b>	<b>308</b>	<b>26.1</b>	<b>20.6</b>	<b>24.1</b>	<b>21.7</b>	<b>20.7</b>	<b>22.7</b>	
Officials/administrators	292	203	90	250	42	29	9	40.5	32.7	38.4	34.3	34.6	36.2	
Professionals	1,149	583	566	912	237	146	46	33.0	28.3	30.6	28.9	28.1	30.3	
Technicians	497	298	199	382	115	74	28	26.9	21.0	24.3	21.7	21.8	23.9	
Protective service	849	745	104	662	187	130	48	27.2	22.9	26.9	25.7	24.6	28.9	
Paraprofessionals	385	108	277	240	145	118	21	19.5	17.6	18.4	18.1	17.3	18.9	
Admin. support	954	119	835	677	277	185	68	19.7	18.1	18.1	17.7	18.3	18.8	
Skilled craft	442	425	17	343	99	62	28	24.1	19.1	23.9	22.6	22.9	24.7	
Service/maintenance	688	549	139	398	290	219	61	19.6	15.8	19.1	17.9	18.0	19.2	

<sup>1</sup> Nonhispanic. <sup>2</sup> Includes other minority groups, not shown separately. <sup>3</sup> Hispanic may be of any race.

Source: U.S. Equal Employment Opportunity Commission, *State and Local Government Information Report*, annual.

**No. 500. State and Local Government—Employee Benefits: 1987**

[For January through July. Covers full-time employees in State and local governments. Excludes executive employees, traveling operating employees, elected officials, and Alaska and Hawaii. Covers only benefits for which the employer pays part or all of the premium or expenses involved, except unpaid maternity and paternity leave. Based on sample survey of establishments. For data on employee benefits in medium to large firms, see table 686]

TYPE OF EMPLOYEE BENEFIT	All employees	Regular employees <sup>1</sup>	Teachers <sup>2</sup>	Police and fire fighters	TYPE OF EMPLOYEE BENEFIT	All employees	Regular employees <sup>1</sup>	Teachers <sup>2</sup>	Police and fire fighters
Percent of employees participating in—					Money purchase pension	8	8	7	11
Paid: Vacations	72	93	13	100	Additional benefits:				
Holidays	81	95	45	93	Parking	73	68	86	73
Jury duty leave	98	99	97	92	Educational assistance:				
Funeral leave	56	56	52	75	Job related	53	59	36	65
Rest time	58	74	16	48	Not job related	15	16	14	7
Military leave	80	85	65	86	Travel accident insurance	16	15	19	13
Sick leave	97	97	95	97	In-house infirmary	19	19	18	13
Personal leave	38	32	56	36	Severance pay	6	6	7	5
Lunch time	17	10	32	39	Relocation allowance	15	20	5	8
Insurance plans:					Recreation facilities	11	11	12	11
Health	94	94	95	96	Subsidized meals	12	10	19	1
Hospital/surgical	93	93	93	95	Nonproduction bonuses, cash	7	8	3	16
Mental health care	92	93	93	94	Financial counseling	10	11	9	9
Private duty nursing	91	91	91	92	Subsidized commuting	5	5	2	7
Dental	59	58	61	59	Prepaid legal services	6	6	5	11
Extended care facility	73	72	71	76	Child care	2	2	1	1
Home health care	71	72	67	75	Unpaid maternity leave	57	55	65	51
Vision	35	36	33	40	Average months	11.7	11.0	12.7	14.8
Health maintenance organization	23	24	18	25	Unpaid paternity leave	30	29	32	30
Life	85	85	82	91	Average months	14.9	14.5	14.7	19.9
Noncontributory	69	70	66	73	Mean number of—				
Accident/sickness	14	18	5	14	Paid holidays	10.9	11.1	9.8	11.2
Noncontributory	12	15	4	11	Paid vacation days after—				
Long-term disability	31	28	41	18	1 year	12.0	11.8	14.3	12.6
Noncontributory	28	25	38	15	3 years	12.9	12.8	14.8	13.5
Retirement and savings plans:					5 years	15.0	14.8	15.7	15.8
Defined benefit pension	93	92	95	93	10 years	17.7	17.7	16.9	18.8
Noncontributory	20	22	17	17	15 years	19.8	19.7	17.8	21.1
Defined contribution	9	9	8	13	20 years	21.4	21.4	18.7	22.7
Savings and thrift	1	1	1	1	25 years	22.0	22.0	18.8	23.4

<sup>1</sup> Includes all white-collar employees (professional, administrative, technical, clerical) and blue-collar employees (production, service) except those classified as teachers or police and firefighters. <sup>2</sup> Includes all personnel in primary and secondary schools, junior colleges, colleges, and universities whose primary duty is teaching or closely related activities. <sup>3</sup> Data for teachers relate only to primary and secondary school teachers. <sup>4</sup> Includes physician visits in hospitals, diagnostic X-ray and lab, and auxiliary hospital services. <sup>5</sup> For definition, see table 157. <sup>6</sup> Fixed contributions are periodically placed in an employee's account and benefits are based on how much money has accumulated at retirement.

Source: U.S. Bureau of Labor Statistics, *Employee Benefits in State and Local Governments, 1987*.

**No. 501. State and Local Government Major Collective Bargaining Agreements—**  
**Average Percent Adjustments in Wages and Compensation Negotiated: 1984 to 1989**  
 (In percent, except as indicated. Averages presented are means; for definition of mean, see Guide to Tabular Presentation)

ITEM	1984	1985	1986	1987	1988	1989
Compensation <sup>1</sup> , all settlements:						
First year	5.2	4.2	6.2	4.9	5.4	5.1
Over life of contract <sup>2</sup>	5.4	5.1	6.0	4.8	5.3	4.9
State government: First year	4.3	4.8	6.8	4.3	5.3	4.9
Over life of contract	4.0	4.8	6.0	4.3	4.9	4.6
Local government: First year	6.0	3.7	5.6	5.4	5.5	5.6
Over life of contract	6.6	5.5	6.0	5.1	5.8	5.5
Wage-rate adjustments <sup>3</sup> , all settlements:						
First year	4.8	4.6	5.7	4.9	5.1	5.1
Over life of contract <sup>2</sup>	5.1	5.4	5.7	5.1	5.3	5.1
State government: First year	3.6	4.8	6.3	4.1	5.3	5.0
Over life of contract	3.8	4.9	6.0	4.2	5.0	4.7
Local government: First year	5.4	4.4	5.3	5.3	5.0	5.2
Over life of contract	5.9	5.7	5.6	5.5	5.5	5.4
Number of workers affected (mil.) <sup>4</sup>	0.7	1.5	0.9	1.3	1.1	1.1
State government	0.3	0.5	0.3	0.5	0.4	0.5
Local government	0.5	0.9	0.6	0.8	0.7	0.6
Total effective wage adjustments <sup>5</sup>	5.0	5.7	5.5	4.9	4.7	5.1
Source: Current settlements	1.9	4.1	2.4	2.7	2.3	2.5
Prior settlements	3.1	1.6	3.0	2.2	2.4	2.6
Cost-of-living adjustments	(2)	(2)	(2)	(2)	(2)	(2)
State government	5.4	4.5	5.6	4.3	4.1	4.0
Local government	4.7	6.5	5.4	5.3	5.1	5.9

<sup>2</sup> Less than .05 percent. <sup>1</sup> Data relate to settlements of 5,000 workers or more in each calendar year, whether wages and benefits were changed or not. <sup>2</sup> Average annual rate of change. <sup>3</sup> Data relate to settlements covering 1,000 workers or more in each calendar year but exclude possible adjustments in wages under cost-of-living adjustment (COLA) clauses, except increases guaranteed by the contract. Includes all settlements, whether wages were changed or not. <sup>4</sup> Number of workers covered by settlements reached in each calendar year. <sup>5</sup> Data relate to all wage changes implemented in the year stemming from settlements reached in the year, deferred from prior year agreements, and cost-of-living clauses.

Source: U.S. Bureau of Labor Statistics, *Current Wage Developments*, monthly.

# No. 502. State and Local Government Employment (Full-Time Equivalent), by Selected Function, 1970 to 1988, and by State, 1988

[In thousands, for October. Full-time equivalent employment not available for 1985. Except 1982, local government data are estimates subject to sampling variation; see source and Appendix III]

YEAR, REGION, DIVISION, AND STATE	EDUCATION				HEALTH AND HOSPITALS		HIGHWAYS		POLICE AND FIRE PROTECTION		PUBLIC WELFARE	
	Total		Higher education									
	State	Local	State	Local	State	Local	State	Local	State <sup>1</sup>	Local	State	Local
1970	803.0	3,454.6	722.2	119.4	482.0	469.0	296.8	271.4	55.8	583.7	97.3	152.5
1980	1,062.8	4,278.3	947.7	212.1	649.8	646.4	255.3	277.4	75.5	745.0	171.5	200.4
1981	1,082.5	4,239.6	951.7	210.2	654.3	639.3	244.1	265.4	73.1	753.1	169.4	199.7
1982	1,052.5	4,177.8	944.5	213.2	652.6	661.6	241.4	268.0	75.3	760.4	169.9	208.6
1983	1,072.1	4,164.8	965.7	193.9	637.9	651.9	239.5	265.4	75.9	760.3	172.5	203.1
1984 <sup>2</sup>	1,091.0	4,303.7	981.2	197.6	644.1	642.9	243.9	274.5	78.7	774.4	174.5	208.7
1986 <sup>2</sup>	1,256.4	4,595.3	1,140.4	212.8	652.5	643.9	249.7	284.4	78.5	813.8	186.6	223.1
1987 <sup>2</sup>	1,264.2	4,704.1	1,149.1	216.1	661.2	644.7	248.0	288.7	81.6	827.8	190.2	225.5
1988 <sup>2</sup>	1,302.5	4,815.5	1,192.7	230.6	673.8	662.6	251.0	288.9	84.3	836.3	198.1	230.9
<b>Northeast</b>	<b>175.5</b>	<b>998.4</b>	<b>156.9</b>	<b>33.1</b>	<b>180.4</b>	<b>111.7</b>	<b>54.0</b>	<b>71.0</b>	<b>21.1</b>	<b>198.0</b>	<b>42.4</b>	<b>90.6</b>
New England	64.4	245.4	57.0	0.1	48.7	14.5	16.3	15.3	5.6	52.9	18.4	5.8
Maine	7.1	26.6	5.8	-	2.8	1.1	2.8	1.6	0.6	3.3	2.0	0.2
New Hampshire	5.6	19.7	5.3	-	2.1	0.2	2.1	1.5	0.3	3.8	1.2	2.2
Vermont	4.2	13.4	3.9	-	1.3	-	1.1	1.0	0.5	1.0	1.1	0.0
Massachusetts	24.1	109.0	23.1	0.1	23.8	11.6	4.9	6.2	2.2	28.4	8.5	1.4
Rhode Island	6.5	15.7	5.5	-	3.6	-	1.1	1.1	0.2	4.6	1.7	-
Connecticut	16.9	61.0	13.4	-	15.1	1.6	4.4	3.9	1.7	11.9	3.9	2.0
<b>Middle Atlantic</b>	<b>111.1</b>	<b>753.0</b>	<b>99.9</b>	<b>33.0</b>	<b>131.7</b>	<b>97.2</b>	<b>37.7</b>	<b>55.7</b>	<b>15.5</b>	<b>145.1</b>	<b>24.0</b>	<b>84.8</b>
New York	51.7	383.6	46.1	18.6	82.7	78.7	14.6	34.8	5.8	81.8	8.0	56.5
New Jersey	27.9	164.4	24.3	7.8	22.9	12.6	9.1	10.7	4.3	33.7	5.8	10.5
Pennsylvania	31.5	205.0	29.5	6.6	26.1	5.9	14.0	10.2	5.3	29.6	10.2	17.8
<b>Midwest</b>	<b>367.3</b>	<b>1,146.8</b>	<b>346.2</b>	<b>55.7</b>	<b>134.7</b>	<b>152.1</b>	<b>51.3</b>	<b>78.8</b>	<b>17.4</b>	<b>188.5</b>	<b>52.0</b>	<b>60.6</b>
East North Central	246.2	791.3	232.7	39.8	80.4	105.6	28.9	49.2	11.7	140.7	33.7	45.4
Ohio	61.1	195.7	58.7	4.0	22.4	27.6	8.6	12.8	2.1	33.4	2.0	19.6
Indiana	44.3	107.0	39.4	-	11.8	21.3	5.6	5.7	1.8	15.8	5.1	2.9
Illinois	49.6	203.1	46.8	16.8	18.1	21.9	8.5	10.6	4.0	47.5	12.5	7.3
Michigan	56.3	193.1	54.3	11.8	19.1	24.3	4.0	10.5	3.1	27.5	12.7	3.5
Wisconsin	34.9	92.2	33.6	7.2	9.0	10.4	2.1	9.6	0.8	16.5	1.4	12.1
<b>West North Central</b>	<b>121.1</b>	<b>355.5</b>	<b>113.5</b>	<b>15.9</b>	<b>54.3</b>	<b>46.5</b>	<b>22.4</b>	<b>29.5</b>	<b>5.7</b>	<b>47.8</b>	<b>18.3</b>	<b>15.2</b>
Minnesota	31.3	72.7	29.7	-	9.5	11.9	5.0	7.2	0.9	9.9	1.8	10.2
Iowa	27.0	64.5	25.9	5.0	9.7	9.0	2.9	5.4	0.8	6.6	3.5	1.6
Missouri	22.8	94.4	20.7	4.2	15.3	13.3	6.2	5.5	1.9	16.4	5.9	0.5
North Dakota	6.7	13.6	6.4	-	2.6	0.2	1.1	1.2	0.2	1.4	0.5	0.8
South Dakota	4.3	15.1	3.7	-	1.9	0.6	1.2	1.5	0.3	1.6	1.1	0.4
Nebraska	11.2	35.4	10.6	2.1	4.7	4.9	2.4	3.4	0.6	4.1	2.7	1.0
Kansas	17.8	59.8	16.7	4.6	10.6	6.6	3.4	5.3	0.9	7.9	2.8	0.7
<b>South</b>	<b>467.0</b>	<b>1,748.1</b>	<b>425.7</b>	<b>69.1</b>	<b>262.9</b>	<b>256.4</b>	<b>102.0</b>	<b>93.5</b>	<b>27.1</b>	<b>276.3</b>	<b>79.4</b>	<b>34.2</b>
South Atlantic	217.8	843.2	200.1	39.1	133.3	135.4	55.3	39.2	15.8	145.5	33.0	25.6
Delaware	6.6	11.7	6.4	-	3.0	-	1.4	0.5	0.7	1.3	1.7	0.0
Maryland	23.2	88.1	21.1	7.5	14.3	2.9	5.2	5.4	2.3	17.4	6.9	1.7
Dist. of Columbia	(X)	12.5	(X)	1.3	(X)	8.3	(X)	1.0	(X)	6.3	-	2.0
Virginia	41.6	123.5	39.0	-	24.5	6.0	11.8	3.6	2.2	18.1	1.9	6.4
West Virginia	11.9	42.8	10.2	-	4.0	4.4	5.7	0.9	0.8	3.3	2.5	-
North Carolina	41.1	139.3	37.7	11.6	18.0	20.1	11.2	3.4	2.8	17.7	1.0	9.7
South Carolina	26.5	69.0	23.5	-	16.6	12.2	5.0	2.3	1.6	9.1	4.6	0.3
Georgia	32.6	132.3	29.3	0.3	25.5	46.7	6.4	7.7	2.0	21.7	6.4	0.6
Florida	34.3	224.0	33.0	18.3	27.4	34.8	8.6	14.4	3.3	50.6	8.0	4.9
<b>East South Central</b>	<b>98.7</b>	<b>295.0</b>	<b>87.2</b>	<b>4.2</b>	<b>45.3</b>	<b>55.8</b>	<b>18.4</b>	<b>21.3</b>	<b>5.0</b>	<b>43.0</b>	<b>18.0</b>	<b>4.8</b>
Kentucky	24.9	74.2	20.7	-	6.3	4.2	6.3	3.0	1.7	8.2	5.5	0.4
Tennessee	28.4	85.8	26.5	-	13.7	20.4	5.0	6.6	1.2	15.6	5.4	3.0
Alabama	30.5	74.4	26.6	-	15.2	15.9	3.9	7.2	1.2	12.5	4.1	1.1
Mississippi	14.9	60.6	13.4	4.2	10.1	15.3	3.2	4.5	0.9	6.7	3.0	0.3
<b>West South Central</b>	<b>150.5</b>	<b>609.9</b>	<b>138.4</b>	<b>25.8</b>	<b>84.3</b>	<b>65.2</b>	<b>28.3</b>	<b>33.0</b>	<b>6.3</b>	<b>87.8</b>	<b>28.4</b>	<b>3.8</b>
Arkansas	15.1	47.7	12.6	-	7.7	4.8	3.7	3.3	0.8	5.8	2.8	0.4
Louisiana	28.7	88.4	25.1	0.1	21.3	10.6	5.3	5.9	0.9	15.3	4.6	0.8
Oklahoma	24.8	65.2	23.0	-	10.3	8.6	3.7	5.8	1.7	10.4	6.7	0.2
Texas	81.9	408.6	77.8	25.7	45.0	41.2	15.6	18.6	3.0	56.3	14.3	2.4
<b>West</b>	<b>299.7</b>	<b>922.0</b>	<b>263.9</b>	<b>72.6</b>	<b>95.7</b>	<b>142.3</b>	<b>43.7</b>	<b>45.6</b>	<b>18.7</b>	<b>175.5</b>	<b>24.4</b>	<b>45.5</b>
Mountain	102.0	271.6	95.8	11.2	26.9	28.1	14.6	15.6	5.0	43.7	10.6	6.6
Montana	6.0	17.1	5.6	0.2	1.6	1.0	1.8	1.3	0.3	1.9	1.1	0.9
Idaho	7.6	20.7	7.1	0.8	1.7	3.2	1.4	1.4	0.4	2.7	0.1	0.2
Wyoming	3.5	15.2	3.4	1.6	1.4	2.9	1.6	0.8	0.2	1.7	0.6	-
Colorado	26.8	64.6	25.8	1.1	7.7	9.0	3.0	4.7	0.9	11.2	1.4	3.4
New Mexico	14.8	33.8	14.0	0.8	6.0	2.0	2.6	1.6	0.6	5.1	1.8	0.3
Arizona	20.6	71.6	18.2	6.6	2.2	5.3	1.1	3.6	1.6	11.7	2.9	1.2
Utah	17.1	31.3	16.3	-	4.9	1.5	1.7	1.5	0.6	4.2	1.8	0.4
Nevada	5.6	17.3	5.4	-	1.4	3.1	1.4	0.7	0.3	5.2	0.9	0.2
<b>Pacific</b>	<b>197.7</b>	<b>650.4</b>	<b>168.1</b>	<b>61.4</b>	<b>68.8</b>	<b>114.2</b>	<b>29.1</b>	<b>30.0</b>	<b>13.7</b>	<b>131.8</b>	<b>13.8</b>	<b>38.9</b>
Washington	38.5	76.0	36.7	-	13.4	9.3	5.7	5.8	1.5	13.9	3.9	0.8
Oregon	18.5	57.7	17.5	5.7	6.6	4.4	3.4	3.3	1.1	8.4	4.0	0.5
California	108.3	506.4	104.1	55.7	42.7	99.6	16.2	19.1	10.7	103.3	3.5	37.4
Alaska	7.0	10.3	3.5	-	0.9	0.6	3.0	0.7	0.4	1.7	1.5	0.2
Hawaii	25.4	-	6.4	-	5.2	0.2	0.8	1.1	-	4.5	0.9	-

- Represents or rounds to zero. X Not applicable. <sup>1</sup> For State government, represents police protection only. <sup>2</sup> Beginning 1986 data not comparable to previous years due to a change in how full-time equivalent is calculated; see text, section 9.

Source: U.S. Bureau of the Census, 1982 Census of Governments, Vol. 6, No. 4, Historical Statistics on Governmental Finances and Employment, and Public Employment, series GE, No. 1, annual.



# No. 503. State and Local Government Employment and Average Earnings, by State: 1986 and 1988

[For October]

REGION, DIVISION, AND STATE	TOTAL FULL-TIME EQUIVALENT EMPLOYMENT (1,000)				FULL-TIME EQUIVALENT EMPLOYMENT PER 10,000 POPULATION <sup>2</sup>				AVERAGE OCTOBER EARNINGS <sup>3</sup> (dol.)			
	State		Local <sup>1</sup>		State		Local <sup>1</sup>		State		Local <sup>1</sup>	
	1986	1988	1986	1988	1986	1988	1986	1988	1986	1988	1986	1988
<b>United States</b> .....	3,437	3,606	8,415	8,798	143	147	349	358	2,052	2,260	1,992	2,157
<b>Northeast</b> .....	704	738	1,823	1,906	141	145	365	377	2,180	2,529	2,137	2,391
<b>New England</b> .....	212	226	390	410	166	174	306	316	2,053	2,441	2,005	2,239
Maine .....	20	22	36	39	168	182	307	320	1,714	1,972	1,590	1,755
New Hampshire .....	18	16	29	32	172	148	285	293	1,759	2,011	1,701	1,940
Vermont .....	11	12	15	17	211	219	270	312	1,842	2,095	1,653	1,829
Massachusetts .....	88	96	192	199	151	164	329	338	2,034	2,454	2,082	2,294
Rhode Island .....	19	20	24	26	195	202	245	263	2,041	2,356	2,215	2,373
Connecticut .....	56	59	95	97	175	183	297	301	2,336	2,802	2,089	2,438
<b>Middle Atlantic</b> .....	492	512	1,433	1,496	132	136	384	397	2,233	2,568	2,173	2,433
New York .....	272	282	810	854	153	158	456	477	2,355	2,756	2,266	2,565
New Jersey .....	96	104	283	294	126	135	372	380	2,278	2,565	2,146	2,385
Pennsylvania .....	124	125	340	349	104	104	286	291	1,915	2,116	1,976	2,154
<b>Midwest</b> .....	812	830	2,018	2,082	137	138	340	344	2,007	2,281	2,008	2,146
<b>East North Central</b> .....	529	537	1,414	1,443	127	127	339	343	2,189	2,381	2,057	2,208
Ohio .....	122	130	365	372	113	120	340	343	1,984	2,268	1,911	2,072
Indiana .....	75	84	182	188	136	151	330	338	2,056	2,179	1,686	1,850
Illinois .....	130	131	385	390	113	113	333	336	2,165	2,345	2,166	2,306
Michigan .....	128	128	315	320	140	139	344	347	2,541	2,673	2,329	2,470
Wisconsin .....	74	65	168	173	154	134	351	357	2,128	2,372	2,035	2,195
<b>West North Central</b> .....	283	292	602	618	161	164	342	348	1,863	2,100	1,892	1,999
Minnesota .....	61	62	137	146	145	143	326	339	2,428	2,586	2,318	2,408
Iowa .....	57	56	101	103	199	197	355	363	2,049	2,409	1,735	1,870
Missouri .....	66	71	157	161	130	138	310	313	1,621	1,844	1,826	1,924
North Dakota .....	15	15	22	21	222	224	318	315	1,805	1,894	2,017	2,054
South Dakota .....	13	12	23	23	177	175	330	329	1,684	1,783	1,441	1,518
Nebraska .....	29	29	65	66	184	179	407	414	1,509	1,957	1,785	1,894
Kansas .....	43	48	96	98	174	191	390	392	1,687	1,856	1,700	1,846
<b>South</b> .....	1,238	1,309	2,887	3,034	149	156	348	361	1,803	1,965	1,711	1,840
<b>South Atlantic</b> .....	609	682	1,436	1,526	149	158	351	366	1,834	2,019	1,810	1,989
Delaware .....	17	19	16	17	272	294	252	251	1,795	1,999	1,901	2,253
Maryland .....	80	84	143	151	178	182	321	327	2,046	2,296	2,233	2,512
District of Columbia .....	(X)	(X)	51	55	(X)	(X)	817	876	(X)	(X)	2,584	2,782
Virginia .....	102	109	195	204	177	181	336	340	1,895	2,124	1,787	2,017
West Virginia .....	34	34	61	61	180	180	317	324	1,574	1,648	1,625	1,652
North Carolina .....	93	103	216	230	147	159	341	354	1,935	2,129	1,662	1,827
South Carolina .....	69	72	109	112	204	211	322	322	1,705	1,864	1,558	1,690
Georgia .....	91	100	239	258	149	157	391	404	1,811	1,925	1,589	1,679
Florida .....	124	140	407	440	108	114	348	357	1,748	1,942	1,872	2,078
<b>East South Central</b> .....	247	253	486	515	162	165	320	335	1,708	1,849	1,512	1,617
Kentucky .....	63	85	102	108	170	174	275	290	1,651	1,846	1,596	1,639
Tennessee .....	71	72	157	170	147	147	327	347	1,746	1,761	1,554	1,720
Alabama .....	70	72	131	137	174	176	324	334	1,884	2,042	1,532	1,624
Mississippi .....	42	44	95	100	161	169	364	382	1,430	1,681	1,324	1,403
<b>West South Central</b> .....	381	395	984	994	142	147	359	370	1,817	1,951	1,665	1,730
Arkansas .....	39	41	71	74	163	169	299	309	1,724	1,734	1,388	1,448
Louisiana .....	86	81	151	151	191	183	337	343	1,673	1,901	1,494	1,550
Oklahoma .....	64	63	109	109	195	195	329	338	1,733	1,816	1,595	1,605
Texas .....	193	210	633	660	115	124	379	392	1,927	2,052	1,748	1,823
<b>West</b> .....	684	730	1,689	1,795	135	144	334	354	2,356	2,499	2,321	2,486
<b>Mountain</b> .....	219	225	457	476	168	169	351	357	1,976	2,118	1,964	2,054
Montana .....	16	16	29	27	192	199	349	340	1,864	1,936	1,727	1,785
Idaho .....	18	17	33	34	175	170	332	337	1,766	2,177	1,535	1,637
Wyoming .....	11	11	25	25	213	227	494	514	1,924	1,946	1,967	1,983
Colorado .....	50	52	122	123	155	156	375	374	2,368	2,557	2,017	2,162
New Mexico .....	34	37	49	54	231	248	332	361	1,792	1,869	1,680	1,670
Arizona .....	43	45	119	127	128	124	358	365	2,126	2,234	2,185	2,286
Utah .....	33	33	47	49	197	196	263	289	1,654	1,791	1,900	1,907
Nevada .....	15	16	33	36	154	154	343	344	1,990	2,099	2,140	2,312
<b>Pacific</b> .....	485	504	1,231	1,318	124	135	328	352	2,530	2,667	2,456	2,647
Washington .....	79	86	143	152	177	185	320	328	2,231	2,322	2,134	2,270
Oregon .....	44	50	91	94	163	182	338	340	1,975	2,085	2,018	2,161
California .....	279	303	965	1,039	104	107	358	367	2,751	2,906	2,535	2,741
Alaska .....	21	21	20	20	393	401	377	388	3,228	3,210	3,314	3,314
Hawaii .....	41	44	12	13	389	401	113	116	1,844	2,033	2,010	2,260

X Not applicable. <sup>1</sup> Estimates subject to sampling variation; see source and Appendix III. <sup>2</sup> Based on estimated resident population as of July 1. <sup>3</sup> For full-time employees.

Source: U.S. Bureau of the Census, *Public Employment*, series GE, No. 1, annual.

**No. 504. City Government Employment and Payrolls: 1960 to 1988**

[For October. Includes only those school systems operated as part of the city government. Represents average for period of intervals shown; for 1960, change from 1955. 1972, 1977, 1982, and 1987 based on complete census of all cities; other years based on sample and subject to sampling variation. For explanation of average annual percent change, see Guide to Tabular Presentation. Minus sign (-) indicates decrease]

YEAR	ALL EMPLOYEES, FULL-TIME AND PART-TIME (1,000)		OCTOBER PAYROLLS (mil. dol.)		AVERAGE ANNUAL PERCENT CHANGE		FULL-TIME EQUIVALENT EMPLOYMENT <sup>1</sup> (1,000)			AVERAGE EARNINGS IN OCTOBER, FULL-TIME EMPLOYEES (dollars)	
	Total	Excl. education	Total	Excl. education	All employees	October payroll	Total	Education	Other	Education	Other
1960	1,692	1,439	583	471	3.3	7.1	1,447	225	1,222	502	387
1970	2,244	1,815	1,361	1,062	2.9	8.8	1,922	359	1,563	838	681
1971	2,273	1,838	1,482	1,167	1.3	8.9	1,860	366	1,594	876	735
1972	2,375	1,918	1,654	1,302	4.5	11.6	2,029	378	1,650	951	792
1973	2,471	1,992	1,855	1,441	4.0	12.2	2,109	402	1,707	1,045	846
1974	2,491	2,009	1,985	1,580	0.8	7.0	2,127	405	1,722	1,060	909
1975	2,506	2,074	2,129	1,725	0.6	7.3	2,142	378	1,767	1,130	972
1976	2,443	2,021	2,235	1,804	-2.5	5.0	2,107	360	1,747	1,207	1,035
1977	2,511	2,084	2,415	1,959	2.8	8.0	2,168	358	1,812	1,280	1,087
1978	2,511	2,086	2,537	2,059	(2)	5.1	2,165	361	1,804	1,341	1,148
1979	2,553	2,121	2,729	2,215	1.7	7.6	2,189	364	1,825	1,414	1,231
1980	2,561	2,130	2,942	2,403	0.3	7.8	2,186	360	1,806	1,501	1,338
1981	2,469	2,056	3,222	2,640	-3.8	9.5	2,111	346	1,765	1,686	1,500
1982	2,396	2,015	3,428	2,861	-2.9	6.4	2,088	317	1,770	1,791	1,625
1983	2,423	2,051	3,640	3,059	1.1	6.2	2,080	300	1,760	1,962	1,739
1984	2,434	2,070	3,872	3,268	0.4	6.4	2,090	300	1,790	2,033	1,831
1985	2,467	2,102	4,191	3,536	1.4	8.2	(NA)	(NA)	(NA)	2,117	1,953
1986	2,494	2,126	4,407	3,724	1.1	5.1	2,181	320	1,860	2,186	2,044
1987	2,541	2,161	4,687	3,898	1.9	6.4	2,222	337	1,885	2,407	2,122
1988	2,570	2,188	4,979	4,136	1.1	6.2	2,251	342	1,910	2,566	2,220

NA Not available. 1 Less than .05 percent. 2 Beginning 1986, data not comparable to previous years due to a change in how full-time equivalent is calculated; see text, section 9.

Source: U.S. Bureau of the Census, *Census of Governments, 1972, 1977, 1982, and 1987*, Vol. 3, No. 2, *Compendium of Public Employment*, and *City Employment* series GE, No. 2, annual.

**No. 505. City Government Employment and Payrolls—All Cities and Cities With 75,000 Population or More, by Function: 1980 to 1988**

[For October]

ITEM	EMPLOYEES (1,000)					OCTOBER PAYROLLS (mil.dol.)				
	All cities <sup>1</sup>				Cities with 75,000 population or more, <sup>2</sup> 1988	All cities <sup>1</sup>				Cities with 75,000 population or more, <sup>2</sup> 1988
	1980	1986	1987	1988		1980	1986	1987	1988	
Total .....	2,561	2,494	2,541	2,570	1,493	2,942	4,407	4,687	4,979	3,415
Full-time .....	2,071	2,050	2,072	2,098	1,333	2,826	4,231	4,484	4,761	3,292
Part-time .....	489	445	469	472	160	116	175	203	218	123
Full-time equivalent <sup>3</sup> .....	2,166	2,181	2,222	2,251	1,413	(X)	(X)	(X)	(X)	(X)
Education <sup>4</sup> .....	360	320	337	342	274	539	683	789	843	699
Percent of total .....	17	15	15	15	18	18	15	17	17	20
Instructional staff .....	266	233	243	241	190	436	553	628	670	550
Others .....	94	87	94	100	84	102	130	161	173	148
Highways .....	121	127	129	129	56	141	223	233	240	118
Public welfare .....	41	50	51	53	46	47	91	96	97	87
Hospitals .....	131	124	125	125	82	143	211	232	248	177
Health .....	35	38	37	38	32	47	73	72	78	67
Police protection .....	365	391	397	400	219	550	858	922	964	587
Fire protection .....	190	194	196	197	115	300	478	495	515	330
Sewerage .....	60	67	67	69	33	74	122	126	136	72
Solid waste management .....	104	92	91	90	51	118	163	160	172	119
Parks and recreation .....	103	112	114	122	69	116	170	176	189	117
Housing and community development .....	44	46	45	46	39	57	92	93	96	82
Correction .....	18	25	27	29	27	27	63	69	73	71
Libraries .....	34	43	44	44	28	38	63	65	71	48
Financial administration .....	69	71	73	74	35	85	130	137	145	77
Judicial, legal, other governmental administration .....	112	113	123	126	69	147	230	248	269	160
Local utilities <sup>5</sup> .....	209	226	226	227	145	306	493	500	550	399
Water supply .....	93	99	99	101	49	116	182	186	198	110
Electric power .....	44	50	50	51	28	67	119	124	132	81
Transit .....	66	70	70	68	65	115	178	178	207	200
All other functions .....	171	141	141	142	92	208	267	275	294	204

X Not applicable. 1 Data are estimates subject to sampling variation; see source and Appendix III. 2 Based on estimated resident population as of July 1, 1987. 3 Beginning 1986, data not directly comparable to previous years due to a change in how full-time equivalent is calculated. See text, section 9. 4 City-operated schools and colleges only. 5 Includes gas supply, not shown below.

Source: U.S. Bureau of the Census, *City Employment*, series GE, No. 2, annual.

**No. 506. City Government Employment and Payroll—Largest Cities: 1980 to 1988**  
 [For Oct. See text, section 9. See footnote 3, table 493, for those areas representing city/county consolidated governments]

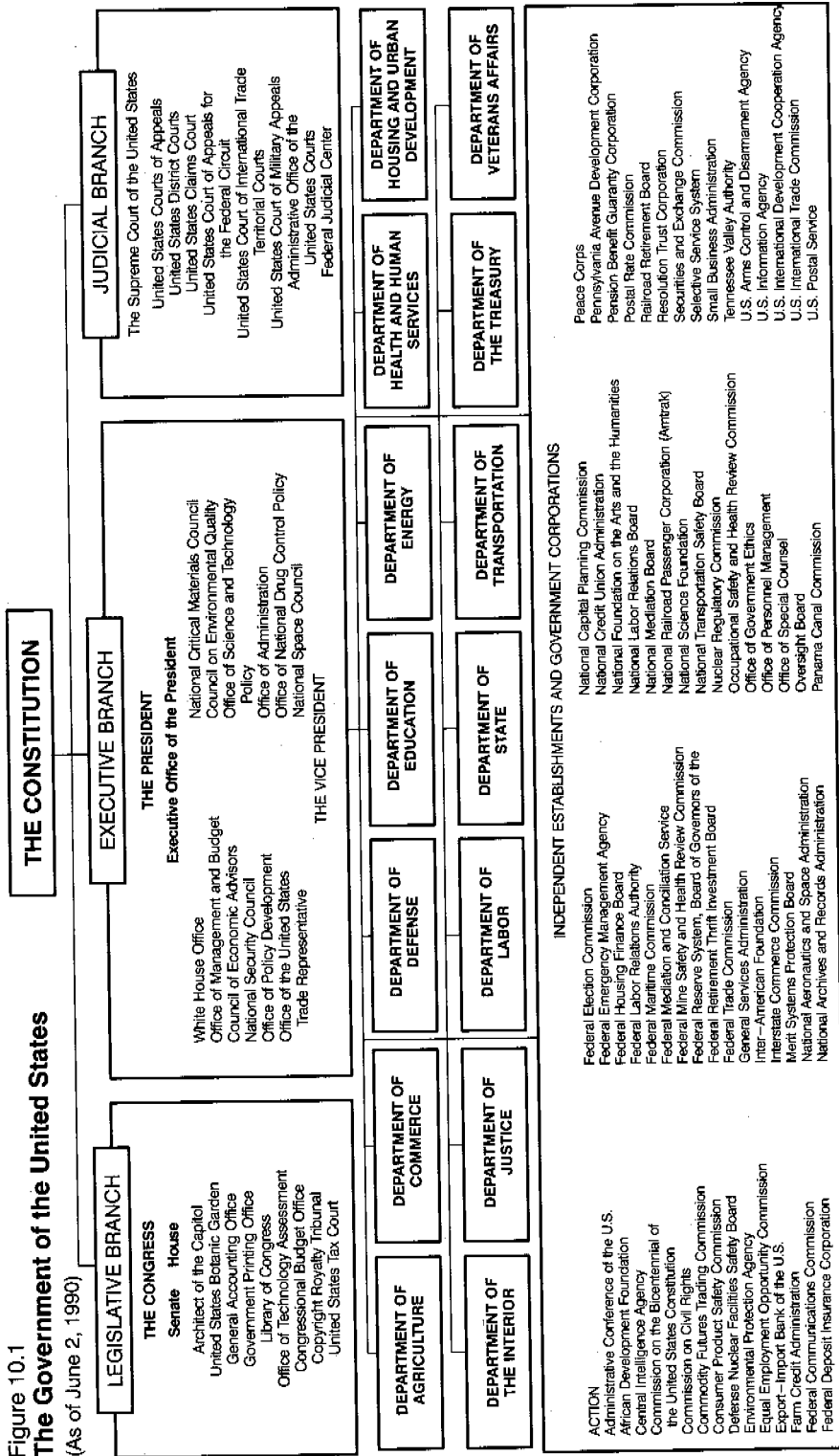
CITIES RANKED BY 1986 POPULATION	TOTAL EMPLOYMENT (1,000)				FULL-TIME EQUIVALENT EMPLOYMENT <sup>1</sup>				OCTOBER PAYROLL (mil.dol.)		AVERAGE EARNINGS IN OCTOBER, FULL-TIME EMPLOYEES (dol.)		
					Total (1,000)		Per 10,000 population <sup>2</sup>						
	1980	1985	1987	1988	1980	1987	1988	1980	1988	1980	1988	1980	1988
New York, NY <sup>3 4</sup>	364	393	<sup>5</sup> 417	412	319	<sup>5</sup> 389	388	451	535	504	1,022	1,587	2,696
Los Angeles, CA	42	43	46	47	41	45	47	138	143	73	150	1,806	3,233
Chicago, IL	47	<sup>6</sup> 45	41	41	45	41	41	150	137	71	112	1,569	2,728
Houston, TX	18	21	19	<sup>7</sup> 19	18	19	<sup>7</sup> 19	111	<sup>7</sup> 112	26	<sup>8</sup> 38	<sup>8</sup> 1,499	<sup>7</sup> 1,978
Philadelphia, PA	33	33	33	31	32	32	31	189	187	51	79	1,611	2,601
Detroit, MI	22	20	20	20	22	20	20	179	185	40	47	1,852	2,385
San Diego, CA	8	8	<sup>9</sup> 9	10	7	9	9	81	89	12	24	1,773	2,740
Dallas, TX	14	<sup>8</sup> 15	<sup>8</sup> 15	<sup>8</sup> 15	14	<sup>8</sup> 15	<sup>8</sup> 15	153	<sup>8</sup> 144	20	<sup>8</sup> 28	<sup>8</sup> 1,465	<sup>8</sup> 1,945
San Antonio, TX	10	13	13	13	10	12	12	128	142	13	26	1,282	2,062
Phoenix, AZ	9	10	<sup>9</sup> 10	<sup>9</sup> 10	9	<sup>9</sup> 10	<sup>9</sup> 10	114	<sup>9</sup> 115	14	<sup>9</sup> 19	1,517	<sup>9</sup> 1,838
Honolulu, HI	9	9	9	10	9	9	9	117	109	12	20	1,401	2,305
Baltimore, MD <sup>3 4</sup>	44	31	<sup>10</sup> 32	<sup>11</sup> 32	40	<sup>10</sup> 31	<sup>11</sup> 31	514	<sup>11</sup> 411	47	<sup>11</sup> 68	1,172	<sup>11</sup> 1,985
San Francisco, CA	21	25	23	24	21	23	24	310	322	37	75	1,761	3,127
Indianapolis, IN	13	12	12	12	12	12	11	174	159	13	19	1,098	1,736
San Jose, CA	<sup>12</sup> 14	5	6	6	<sup>12</sup> 14	5	5	<sup>12</sup> 160	69	<sup>12</sup> 17	<sup>12</sup> 16	<sup>12</sup> 1,714	3,453
Memphis, TN <sup>3 4</sup>	25	23	<sup>13</sup> 24	<sup>13</sup> 24	22	<sup>13</sup> 20	22	342	<sup>13</sup> 320	29	<sup>13</sup> 41	1,335	<sup>13</sup> 1,992
Washington, DC <sup>3 4</sup>	45	44	48	48	42	47	<sup>14</sup> 46	651	<sup>14</sup> 741	73	<sup>14</sup> 125	<sup>14</sup> 1,761	<sup>14</sup> 2,703
Jacksonville, FL	<sup>15</sup> 11	9	9	10	<sup>15</sup> 11	9	9	<sup>15</sup> 202	153	<sup>15</sup> 11	20	<sup>15</sup> 1,031	2,312
Milwaukee, WI	10	9	9	10	9	9	9	145	142	15	21	1,631	2,431
Boston, MA	<sup>12</sup> 28	21	<sup>10</sup> 21	<sup>10</sup> 20	<sup>12</sup> 25	<sup>10</sup> 21	<sup>10</sup> 20	<sup>12</sup> 444	<sup>10</sup> 353	<sup>12</sup> 35	<sup>10</sup> 48	<sup>12</sup> 1,398	<sup>10</sup> 2,395
Columbus, OH	8	7	<sup>17</sup> 7	<sup>17</sup> 8	7	7	7	122	128	10	16	1,498	2,177
New Orleans, LA	<sup>16</sup> 13	11	<sup>17</sup> 11	<sup>17</sup> 11	<sup>16</sup> 13	<sup>17</sup> 11	<sup>17</sup> 11	<sup>16</sup> 225	<sup>17</sup> 201	<sup>16</sup> 11	<sup>17</sup> 18	<sup>17</sup> 919	<sup>17</sup> 1,602
Cleveland, OH	10	9	9	9	9	9	8	160	152	13	19	1,460	2,322
Denver, CO	13	<sup>12</sup> 12	16	12	12	12	11	244	224	18	27	1,540	2,481
El Paso, TX	5	<sup>10</sup> 5	4	4	4	4	4	104	86	3	7	942	1,764
Seattle, WA	10	10	11	11	10	10	10	188	201	7	27	1,830	2,861
Nashville-Davidson, TN <sup>3</sup>	<sup>18</sup> 18	<sup>18</sup> 18	<sup>13</sup> 17	20	<sup>18</sup> 17	<sup>13</sup> 17	19	<sup>18</sup> 374	410	<sup>18</sup> 22	43	<sup>18</sup> 1,295	2,224
Austin, TX	8	10	<sup>9</sup> 10	10	7	<sup>9</sup> 10	9	199	201	10	20	1,515	2,117
Oklahoma City, OK	5	<sup>8</sup> 5	4	4	4	4	4	104	91	6	9	1,323	2,179
Kansas City, MO	7	8	6	6	7	6	6	145	137	9	14	1,368	2,319
Fort Worth, TX	<sup>15</sup> 5	5	6	6	<sup>15</sup> 5	5	5	<sup>15</sup> 120	126	<sup>15</sup> 11	11	<sup>15</sup> 1,198	2,122
St. Louis, MO	13	9	8	8	13	8	8	280	141	15	16	1,279	2,245
Atlanta, GA	8	8	8	8	8	8	<sup>7</sup> 8	187	<sup>7</sup> 181	10	<sup>7</sup> 15	<sup>7</sup> 1,230	<sup>7</sup> 1,922
Long Beach, CA	<sup>12</sup> 5	<sup>5</sup> 5	5	5	<sup>12</sup> 5	5	5	<sup>12</sup> 122	131	<sup>12</sup> 17	15	<sup>12</sup> 1,678	3,039
Portland, OR	5	<sup>8</sup> 5	5	5	4	4	<sup>6</sup> 6	115	<sup>6</sup> 116	<sup>6</sup> 18	<sup>6</sup> 11	<sup>6</sup> 1,916	2,888
Pittsburgh, PA	<sup>16</sup> 6	6	6	6	<sup>16</sup> 6	6	<sup>6</sup> 6	135	<sup>15</sup> 155	<sup>16</sup> 7	<sup>16</sup> 11	<sup>16</sup> 1,116	<sup>7</sup> 1,884
Miami, FL	4	4	4	4	4	4	4	118	112	6	13	1,408	3,315
Tulsa, OK	<sup>12</sup> 4	<sup>12</sup> 4	<sup>9</sup> 4	4	<sup>12</sup> 4	<sup>9</sup> 4	4	174	108	<sup>12</sup> 9	<sup>12</sup> 9	<sup>12</sup> 1,184	2,206
Cincinnati, OH	7	6	6	6	7	6	7	174	153	10	14	1,527	2,708
Baton Rouge, LA	<sup>16</sup> 5	5	<sup>9</sup> 5	6	<sup>16</sup> 5	<sup>9</sup> 5	5	<sup>16</sup> 106	139	<sup>16</sup> 9	<sup>16</sup> 9	<sup>16</sup> 1,908	1,758
Albuquerque, NM	<sup>15</sup> 4	6	7	7	<sup>15</sup> 4	7	6	<sup>15</sup> 119	158	<sup>15</sup> 9	10	<sup>15</sup> 1,135	1,941
Tucson, AZ	4	5	5	5	4	5	5	124	131	7	11	1,474	2,314
Oakland, CA	4	4	4	4	4	4	4	109	103	7	11	2,011	3,044
Minneapolis, MN	6	5	<sup>9</sup> 6	6	5	<sup>9</sup> 6	6	136	155	7	14	1,821	2,712
Charlotte, NC	4	4	4	5	4	4	4	125	127	5	9	1,290	2,146
Omaha, NE	3	3	3	3	3	3	3	92	80	5	8	1,684	2,858
Toledo, OH	4	3	3	3	3	3	3	96	92	6	8	1,758	2,605
Virginia Beach, VA <sup>3</sup>	10	11	12	<sup>19</sup> 12	9	11	<sup>19</sup> 11	346	<sup>19</sup> 336	11	<sup>19</sup> 21	1,204	<sup>19</sup> 1,913
Buffalo, NY <sup>3</sup>	14	12	12	13	13	11	12	348	354	18	27	1,475	2,492
Sacramento, CA	3	3	4	4	3	3	4	119	110	6	10	1,762	2,964
Newark, NJ <sup>20</sup>	12	<sup>21</sup> 5	<sup>21</sup> 5	<sup>21</sup> 5	12	<sup>21</sup> 5	<sup>21</sup> 5	374	<sup>21</sup> 154	17	<sup>21</sup> 8	1,387	<sup>21</sup> 1,698
Wichita, KS	3	3	3	3	3	3	3	111	91	4	5	1,357	2,083
Louisville, KY	6	5	4	5	6	4	4	186	152	7	9	1,327	1,811
Fresno, CA	3	3	3	3	3	2	3	115	88	4	7	1,607	2,712
Tampa, FL	5	4	4	4	5	4	4	165	137	5	8	1,176	2,209
Birmingham, AL	4	4	<sup>9</sup> 4	4	4	<sup>9</sup> 4	4	128	136	5	7	1,333	1,921
Norfolk, VA <sup>3</sup>	11	11	11	11	10	10	10	380	361	12	19	1,222	1,819
Colorado Springs, CO	4	5	5	5	3	5	5	158	183	5	11	1,445	2,229
Corpus Christi, TX	<sup>16</sup> 3	3	3	3	<sup>16</sup> 3	3	3	<sup>16</sup> 123	112	<sup>16</sup> 3	5	<sup>16</sup> 1,442	1,963
St. Paul, MN	4	3	3	4	3	3	3	125	125	6	9	1,734	2,943
Mesa, AZ	1	2	2	2	1	2	2	89	89	2	6	1,592	2,655
Arlington, TX	<sup>15</sup> 1	2	2	2	<sup>15</sup> 1	2	2	<sup>15</sup> 63	88	<sup>15</sup> 1	4	<sup>15</sup> 1,180	1,995
Anaheim, CA	2	3	3	3	2	2	2	91	99	3	7	1,616	3,375
St. Petersburg, FL	3	3	3	3	3	3	3	138	118	4	6	1,173	2,211
Santa Ana, CA	2	2	2	2	1	2	2	68	72	2	5	1,819	3,379
Rochester, NY <sup>3</sup>	<sup>18</sup> 10	<sup>22</sup> 9	9	9	<sup>18</sup> 9	8	8	<sup>18</sup> 356	355	<sup>18</sup> 14	25	<sup>18</sup> 1,630	<sup>18</sup> 3,041
Anchorage, AK <sup>3</sup>	8	<sup>22</sup> 9	8	<sup>7</sup> 8	7	7	<sup>7</sup> 7	397	<sup>7</sup> 314	16	<sup>7</sup> 26	2,286	<sup>7</sup> 2,514
Akron, OH	3	3	3	3	3	3	3	123	124	4	6	1,509	2,197
Shreveport, LA	3	3	2	3	2	2	2	142	111	3	4	1,954	1,626
Jersey City, NJ <sup>3</sup>	9	9	<sup>10</sup> 9	9	8	<sup>10</sup> 9	9	351	411	11	23	1,397	2,553
Aurora, CO	2	2	3	3	2	2	2	98	102	2	5	1,418	2,398
Richmond, VA <sup>3</sup>	<sup>18</sup> 10	10	10	<sup>19</sup> 10	<sup>18</sup> 10	10	<sup>19</sup> 10	<sup>18</sup> 454	<sup>19</sup> 444	<sup>18</sup> 2	<sup>19</sup> 20	<sup>18</sup> 1,225	<sup>19</sup> 2,048

<sup>1</sup> Beginning 1986, data not comparable to previous years due to a change in how full-time equivalent is calculated; see text, section 9. <sup>2</sup> 1980 based on enumerated resident population as of April 1, 1980; 1987 and 1988 based on estimated resident population as of July 1, 1986. <sup>3</sup> Includes city-operated elementary and secondary schools. <sup>4</sup> Includes city-operated university or college. <sup>5</sup> Education data are for 1985. <sup>6</sup> 1982 data. <sup>7</sup> 1987 data. <sup>8</sup> 1984 data. <sup>9</sup> 1986 data. <sup>10</sup> Noneducation data are for 1986. <sup>11</sup> Higher education data are for 1987. <sup>12</sup> 1979 data. <sup>13</sup> Noneducation data are for 1985. <sup>14</sup> Noneducation data are for 1987. <sup>15</sup> 1978 data. <sup>16</sup> 1977 data. <sup>17</sup> 1985 data. <sup>18</sup> Noneducation data are for 1979. <sup>19</sup> Education data are for 1987. <sup>20</sup> Effective 1983, city no longer has dependent schools. <sup>21</sup> 1983 data. <sup>22</sup> Noneducation data for 1984.

Source: U.S. Bureau of the Census, *City Employment*, series GE, No. 2, annual.

Figure 10.1  
The Government of the United States

(As of June 2, 1990)



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 529.



## Section 10 Federal Government Finances and Employment

This section presents statistics relating to the financial structure and the civilian employment of the Federal Government. The fiscal data cover taxes, other receipts, outlays, and debt. The principal sources of fiscal data are *The Budget of the United States Government* and related documents, published annually by the Office of Management and Budget (OMB), and the Department of the Treasury's *United States Government Annual Report* and its *Appendix*. Detailed data on tax returns and collections are published annually by the Internal Revenue Service. The personnel data relate to staffing and payrolls for the various public functions and agencies, to employee characteristics, and to civil service status; they are published by the Office of Personnel Management and the Bureau of Labor Statistics (see p. 314). The primary source for data on public lands is *Public Land Statistics*, published annually by the Bureau of Land Management, Department of the Interior. Data on federally owned land and real property are collected by the General Services Administration and presented in its annual *Inventory Report on Real Property Owned by the United States Throughout the World*.

**Budget concept.**—Under the unified budget concept, all Federal monies are included in one comprehensive budget. These monies comprise both Federal funds and trust funds. Federal funds are derived mainly from taxes and borrowing and are not restricted by law to any specific government purpose. Trust funds, such as the Unemployment Trust Fund, collect certain taxes and other receipts for use in carrying out specific purposes or programs in accordance with the terms of the trust agreement or statute. Fund balances include both cash balances with Treasury and investments in U.S. securities. Part of the balance is obligated, part unobligated. In recent years, the budget totals, under provisions of law, have excluded some Federal activities—including the Federal Financing Bank, the Postal Service, the Synthetic Fuels Corporation, and the lending activities of the Rural Electrification Administration. The Balanced Budget and Emergency Deficit Control Act of 1985 (P.L.99-177) repealed the off-budget status of these entities and placed social security (Federal old-age and survivors insurance and the Federal disability insurance trust funds) off-budget. Though social security is now off-budget and, by law, excluded from coverage of the congressional budget resolutions, it continues to be a Federal program.

Receipts arising from the Government's sovereign powers are reported as governmental receipts; all other receipts, i.e., from business-type or market-oriented activities, are offset against outlays. Outlays are reported on a checks-issued (net) basis (i.e., outlays are recorded at the time the checks to pay bills are issued).

**Debt concept.**—For most of U.S. history, the total debt consisted of debt borrowed by the Treasury (i.e., public debt). The present debt series, includes both public debt and agency debt. The *gross Federal debt* includes money borrowed by the Treasury and by various Federal agencies; it is the broadest generally used measure of the Federal debt. *Total public debt* is covered by a statutory debt limitation, and includes only borrowing by the Treasury.

**Treasury receipts and outlays.**—All receipts of the Government, with a few exceptions, are deposited to the credit of the U.S. Treasury regardless of ultimate disposition. Under the Constitution, no money may be withdrawn from the Treasury unless appropriated by the Congress.

The day-to-day cash operations of the Federal Government clearing through the accounts of the U.S. Treasury are reported in the *Daily Treasury Statement*. Extensive detail on the public debt is published in the *Monthly Statement of the Public Debt of the United States*.

Budget receipts such as taxes, customs duties, and miscellaneous receipts, which are collected by Government agencies, and outlays represented by checks issued and cash payments made by disbursing officers as well as government agencies are reported in the *Daily Treasury Statement of Receipts and Outlays of the United States Government* and in the Treasury's *United States Government Annual Report* and its *Appendix*. These deposits in, and payments from, accounts maintained by Government agencies are on the same basis as the unified budget.

The quarterly *Treasury Bulletin* contains data on fiscal operations and related Treasury activities, including financial statements of Government corporations and other business-type activities.

**Income tax returns and tax collections.**—Tax data are compiled by the Internal Revenue Service of the Treasury Department. The *Annual Report of the Commissioner and Chief Counsel of the Internal Revenue Service* gives a detailed account of tax collections by kind of tax and by regions, districts, and States. The agency's annual *Statistics of Income* reports present detailed data from individual income tax returns and corporation income tax returns. The quarterly *Statistics of Income Bulletin* has, in general, replaced the supplemental *Statistics of Income* publications which presented data on such diverse subjects as tax-exempt organizations, unincorporated businesses, fiduciary income tax and estate tax returns, sales of capital assets by individuals, international income and taxes reported by corporations and individuals, and estate tax wealth.

**Employment and payrolls.**—The Office of Personnel Management collects employment and payroll data from all departments and agencies of the Federal Government, except the Central Intelligence Agency, the National Security Agency, and the Defense Intelligence Agency. Employment figures represent the number of persons who occupied civilian positions at the end of the report month shown and who are paid for personal services rendered for the Federal Government, regardless of the nature of appointment or method of payment.

Federal payrolls include all payments for personal services rendered during the report month and payments for accumulated annual leave of employees who separate from the service. Since most Federal employees are paid on a biweekly basis, the calendar month earnings are partially estimated on the basis of the number of work days in each month where payroll periods overlap.

Federal employment and payroll figures are published by the Office of Personnel Management in its *Federal Civilian Workforce Statistics—Employment and Trends*. It also publishes biennial employment data for minority groups, data on occupations of white- and blue-collar workers, and data on employment by geographic area; reports on salary and wage distribution of Federal employees are published annually. General schedule is primarily white-collar; wage system primarily blue-collar. Data on Federal employment are also issued by the Bureau of Labor Statistics in its *Monthly Labor Review* and in *Employment and Earnings* and by the Bureau of the Census in its annual *Public Employment*.

**Public lands.**—The data on applications, entries, selections, patents, and certifications refer to transactions which involve the disposal, under the public land laws (including the homestead laws), of Federal public lands to non-Federal owners. In general, original entries and selections are applications to secure title to public lands which have been accepted as properly filed (i.e., allowed). Some types of applications, however, are not reported until issuance of the final certificate, which passes equitable title to the land to the applicant. Applications are approved when full compliance with the requirements of the laws is shown and become final entries (perfected entries) upon issuance of a final certificate. Patents are Government deeds which pass legal title to the land to the applicant. Certifications are issued in lieu of patents in connection with certain State selections.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

## No. 507. Federal Budget—Summary: 1945 to 1990

[In billions of dollars, except percent. For fiscal years ending in year shown; see text, section 9. The Balanced Budget and Emergency Deficit Control Act of 1985 put all the previously off-budget Federal entities into the budget and moved Social Security off-budget. Minus sign (-) indicates deficit or decrease.]

YEAR	RECEIPTS				OUTLAYS				SURPLUS OR DEFICIT (-)				GROSS FEDERAL DEBT <sup>2</sup>					ANNUAL PERCENT CHANGE			Out-lays, off-budget
	Total <sup>1</sup>	Fed-eral funds	Trust funds	Total <sup>1</sup>	Fed-eral funds	Trust funds	Human re-sources	National defense	Per-cent of GNP <sup>4</sup>	Total <sup>1</sup>	Fed-eral funds	Trust funds	Total	Held by—			As per-cent of GNP <sup>4</sup>	Re-ceipts	Out-lays	Gross Fed-eral debt <sup>2</sup>	
														Federal Gov't Account	The Public	Federal Reserve System					
1945	45.0	42.0	4.0	93.0	95.0	-1.0	2.0	83.0	43.6	-48.0	-53.0	4.0	260.0	25.0	235.2	22.0	122.5	3.2	1.5	27.5	0.1
1950	39.0	35.0	4.0	43.0	38.0	5.0	14.0	14.0	16.0	-3.0	-3.0	-2.0	274.0	38.0	219.0	18.0	96.3	0.1	9.6	1.7	0.5
1955	65.5	58.0	3.0	68.0	62.0	6.0	15.0	43.0	17.7	-3.0	-4.0	-0.3	274.0	48.0	226.6	24.0	71.0	-6.0	-3.4	1.3	0.5
1960	92.5	75.6	7.8	92.2	74.9	6.1	26.2	48.1	18.2	0.3	0.8	-0.3	290.5	53.7	236.8	26.5	57.3	16.7	0.1	1.1	1.9
1965	116.8	90.9	11.5	118.2	94.9	9.2	36.6	50.6	17.6	-1.4	-3.9	2.3	323.2	61.5	260.8	39.1	47.9	3.7	-0.3	2.0	10.9
1966	130.8	101.4	12.9	134.5	106.6	10.8	43.3	58.1	18.2	-3.7	-5.2	2.1	328.5	64.8	263.7	42.2	44.5	12.0	13.6	19.7	20.4
1967	148.8	111.8	14.8	157.5	127.5	13.4	51.3	71.4	19.8	-8.6	-15.1	0.6	340.4	73.8	266.6	46.7	42.8	13.7	17.0	3.9	20.4
1968	153.0	114.7	17.6	178.1	143.1	16.9	59.4	81.9	21.0	-25.2	-28.4	4.4	365.8	79.1	286.5	52.2	43.4	2.8	13.1	0.8	22.3
1969	166.9	143.2	22.3	183.6	148.2	15.7	66.4	82.5	19.8	-3.2	-4.9	4.4	365.8	87.7	278.1	54.1	39.4	22.2	3.1	-0.8	25.2
1970	192.8	143.2	26.0	219.6	163.7	17.8	75.3	81.7	19.9	-2.8	-13.2	4.5	380.9	97.1	283.2	57.7	38.5	3.2	6.5	4.1	27.6
1971	187.1	133.8	26.0	210.2	163.7	22.2	91.9	78.9	19.9	-23.0	-29.9	3.8	408.2	105.1	303.0	65.5	38.5	2.9	7.4	7.2	32.8
1972	207.3	148.8	28.4	230.7	178.1	25.5	107.2	79.2	20.0	-23.4	-29.3	10.3	463.9	113.6	322.4	71.4	37.8	10.8	9.8	6.8	36.9
1973	230.8	161.4	41.2	245.9	187.0	30.9	119.5	76.7	19.2	-14.9	-25.7	2.9	463.9	125.4	340.9	75.2	36.4	11.3	6.5	7.0	45.6
1974	263.2	181.2	46.1	289.4	201.4	33.9	135.8	79.3	19.0	-6.1	-20.1	12.2	483.9	140.2	343.7	60.6	34.2	14.0	9.6	3.8	52.1
1975	279.1	187.5	51.0	332.3	248.2	45.6	173.2	86.5	21.8	-53.2	-60.7	5.4	541.9	147.2	394.7	85.0	35.6	6.0	23.4	12.0	60.4
1976	296.1	201.1	61.8	371.8	277.2	56.2	203.6	89.8	21.9	-73.7	-76.1	5.6	629.0	151.6	477.4	94.7	37.0	6.8	11.9	16.1	69.6
1976 <sup>5</sup>	296.1	201.1	61.8	371.8	277.2	56.2	203.6	89.8	21.9	-73.7	-76.1	5.6	629.0	151.6	477.4	94.7	37.0	6.8	11.9	16.1	69.6
1977	355.6	241.3	70.3	409.2	304.5	56.9	221.9	97.2	21.2	-53.6	-63.1	13.4	706.4	148.1	558.3	96.7	35.9	19.3	10.1	12.3	80.7
1978	398.6	270.5	76.9	468.7	342.4	59.9	242.3	104.5	21.1	-59.2	-71.9	17.0	776.6	169.5	607.1	105.0	36.5	12.4	12.1	9.9	89.7
1979	463.3	316.4	86.0	508.5	374.9	65.7	267.6	116.3	20.6	-40.2	-58.5	20.3	828.9	189.2	639.8	115.6	33.9	16.0	9.8	6.7	100.0
1980	517.1	350.9	94.7	590.9	433.5	84.8	313.4	134.0	22.1	-73.8	-82.6	9.8	908.5	199.2	709.3	120.8	34.0	11.6	17.4	9.6	114.3
1981	599.3	410.4	106.0	678.2	496.2	94.2	382.0	157.5	22.7	-78.9	-85.8	11.8	994.9	219.6	775.3	124.5	33.3	15.9	14.8	9.4	135.2
1982	617.8	409.3	122.1	745.7	543.4	107.9	388.7	185.3	23.8	-127.9	-134.2	14.2	1,136.8	217.6	919.2	134.5	36.2	3.1	10.0	14.1	151.4
1983	600.6	382.3	147.3	808.3	613.2	124.4	426.0	209.9	24.0	-120.9	-130.8	22.9	1,371.2	240.1	1,131.0	155.5	41.3	2.8	8.4	20.6	147.1
1984	666.5	419.6	158.1	851.8	637.8	125.4	432.0	227.4	23.1	-185.3	-218.2	32.6	1,564.1	264.3	1,300.0	155.1	42.4	11.0	5.4	14.1	165.8
1985	734.1	459.5	197.5	946.3	725.9	152.7	471.8	252.7	23.9	-212.3	-266.4	44.8	1,817.0	317.6	1,499.4	169.8	46.0	10.1	11.1	16.2	176.8
1986	769.1	473.5	206.9	980.3	766.5	161.4	481.6	273.4	23.7	-221.2	-283.0	45.1	2,120.1	383.9	1,736.2	190.9	50.7	4.8	4.6	16.7	183.5
1987	854.1	537.8	216.6	1,003.8	760.2	163.6	502.2	282.0	22.7	-149.7	-155.1	59.0	2,345.6	457.4	1,888.1	212.0	52.9	11.1	1.4	10.6	193.8
1988	909.0	560.2	232.2	1,064.0	813.1	173.2	533.4	290.4	22.2	-155.1	-162.9	59.0	2,600.8	550.5	2,050.2	229.2	54.3	6.4	6.0	10.9	202.7
1989	990.7	613.8	245.2	1,142.6	889.6	175.0	588.7	303.6	22.2	-152.0	-167.8	63.6	2,866.2	676.9	2,189.2	220.1	55.6	9.0	7.4	10.2	210.9
1990 <sup>est.</sup>	1,073.5	670.2	256.9	1,197.2	917.2	193.2	616.0	296.3	21.8	-123.8	-124.1	72.7	3,113.3	814.6	2,298.7	(NA)	56.7	8.4	4.8	8.6	225.8

<sup>1</sup> Represents or rounds to zero. NA Not available. <sup>2</sup> See text, section 10 for discussion of debt concept. <sup>3</sup> Change from previous year. For explanation of average annual percent change, see Guide to Tabular Presentation. <sup>4</sup> Gross national product as of fiscal year; for calendar year GNP, see table 701. <sup>5</sup> Represents transition quarter, July-Sept.

Source: U.S. Office of Management and Budget, *Budget of the United States Government*, annual.

**No. 508. Federal Receipts, by Source: 1980 to 1990**

[In billions of dollars. For fiscal years ending in year shown; see text, section 9. Receipts reflect collections. Covers both Federal funds and trust funds (see text, section 10). Excludes government-sponsored but privately-owned corporations, Federal Reserve System, District of Columbia government, and money held in suspense as deposit funds. See *Historical Statistics, Colonial Times to 1970*, series Y 343-351, and Y 472-487 for related data]

SOURCE	1980	1983	1984	1985	1986	1987	1988	1989	1990, est.	PERCENT DISTRIBUTION	
										1980	1990, est.
<b>Total receipts</b> <sup>1</sup>	<b>517.1</b>	<b>600.6</b>	<b>666.5</b>	<b>734.1</b>	<b>769.1</b>	<b>854.1</b>	<b>909.0</b>	<b>990.7</b>	<b>1,073.5</b>	<b>100.00</b>	<b>100.00</b>
Individual income taxes	244.1	288.9	298.4	334.5	349.0	392.6	401.2	445.7	489.4	47.20	45.59
Corporation income taxes	64.6	37.0	56.9	61.3	63.1	83.9	94.5	103.6	112.0	12.49	10.43
Social insurance	157.8	209.0	239.4	265.2	283.9	303.3	334.3	359.4	385.4	30.52	35.90
Employment taxes and contributions	138.7	185.8	209.7	234.6	255.1	273.0	305.1	332.9	358.6	26.83	33.41
Old-age and survivors insurance	96.6	129.0	150.3	169.8	182.5	194.5	220.3	240.6	258.5	18.68	24.08
Disability insurance	16.6	18.3	15.8	16.3	17.7	18.9	21.2	23.1	27.0	3.22	2.52
Hospital insurance	23.2	35.6	40.3	44.9	51.3	56.0	58.9	65.4	69.3	4.49	6.46
Railroad retirement/pension fund	2.3	2.8	3.3	2.2	2.1	2.2	2.3	2.4	2.4	0.45	0.22
Railroad social security equiv. account	-	-	-	1.4	1.4	1.4	1.4	1.4	1.4	(X)	0.13
Unemployment insurance	15.3	18.8	25.1	25.8	24.1	25.6	24.6	22.0	22.0	2.97	2.05
Other retirement contributions	3.7	4.4	4.6	4.8	4.7	4.7	4.7	4.5	4.7	0.72	0.44
Excise taxes	24.3	35.3	37.4	36.0	32.9	32.5	35.2	34.1	36.2	4.70	3.37
Federal funds	15.6	24.1	22.3	19.1	16.1	14.8	16.2	12.8	15.4	3.01	1.43
Alcohol and tobacco taxes	8.0	9.7	10.0	10.4	10.4	10.8	10.3	10.1	9.9	1.55	0.92
Other taxes	7.6	14.4	12.3	8.7	5.7	4.0	5.9	2.7	5.5	1.46	0.51
Trust funds	8.8	11.2	15.1	16.9	16.9	17.6	19.0	21.3	20.8	1.70	1.94
Highways	6.6	8.3	11.7	13.0	13.4	13.0	14.1	15.6	14.7	1.28	1.37
Airport and airway	1.9	2.2	2.5	2.9	2.7	3.1	3.2	3.7	3.9	0.36	0.36
Black lung disability	0.3	0.5	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.05	0.06
Inland waterway	-	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	0.0	0.1	(X)	0.01
Hazardous substance response	-	0.2	0.3	0.3	(Z)	0.6	0.7	0.9	0.9	(X)	0.08
Estate and gift taxes	6.4	6.1	6.0	6.4	7.0	7.5	7.6	8.7	9.3	1.24	0.87
Customs duties	7.2	8.7	11.4	12.1	13.3	15.1	16.2	16.3	16.8	1.39	1.57
Federal Reserve deposits	11.8	14.5	15.7	17.1	18.4	16.8	17.2	19.6	21.1	2.28	1.97

- Represents or rounds to zero. X Not applicable. Z Less than \$50 million. <sup>1</sup> Totals reflect interfund and intragovernmental transactions and/or other functions, not shown separately.

Source: U.S. Office of Management and Budget, *Budget of the United States Government*, annual.

**No. 509. Federal Outlays, by Detailed Function: 1980 to 1990**

[In billions of dollars. For fiscal years ending in year shown; outlays stated in terms of checks issued or cash payments. See headnote, table 508]

FUNCTION	1980	1983	1984	1985	1986	1987	1988	1989	1990, est.	PERCENT DISTRIBUTION	
										1980	1990, est.
<b>Total outlays</b> <sup>1</sup>	<b>590.9</b>	<b>808.3</b>	<b>851.8</b>	<b>946.3</b>	<b>990.3</b>	<b>1,003.8</b>	<b>1,064.0</b>	<b>1,142.6</b>	<b>1,197.2</b>	<b>100.00</b>	<b>100.00</b>
National defense	134.0	209.0	227.4	252.7	273.4	282.0	290.4	303.6	296.3	22.68	24.75
Dept. of Defense, military	130.9	204.4	220.9	245.1	265.5	274.0	281.9	294.9	286.8	22.15	23.96
Atomic energy defense activities	2.9	5.2	6.1	7.1	7.4	7.5	7.9	8.1	8.9	0.49	0.74
Defense related activities	0.2	0.3	0.4	0.5	0.5	0.6	0.5	0.6	0.6	0.04	0.05
International affairs	12.7	11.8	15.9	16.2	14.2	11.6	10.5	9.6	14.6	2.15	1.22
International development and humanitarian assistance	3.6	4.0	4.5	5.4	5.0	4.3	4.7	4.8	4.9	0.61	0.41
Conduct of foreign affairs	1.4	1.8	1.9	2.0	2.3	2.2	2.7	2.9	3.0	0.23	0.25
Foreign information and exchange	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.1	1.2	0.09	0.10
International financial programs	2.4	-1.1	0.9	-1.5	-4.5	-3.0	2.5	-0.7	-0.7	0.41	-0.06
International security assistance	4.8	6.6	7.9	9.4	10.5	7.1	4.5	1.5	6.3	0.81	0.53
Income security	86.5	122.6	112.7	128.2	119.8	123.3	129.3	136.0	146.6	14.64	12.25
General retirement and disability insurance	5.1	5.6	5.4	5.6	5.3	5.6	5.3	5.7	5.2	0.86	0.43
Federal employee retirement and disability	26.6	36.5	38.1	38.6	41.4	43.7	46.9	49.2	52.2	4.50	4.36
Housing assistance	5.6	10.0	11.3	25.3	12.4	12.7	13.9	14.7	16.3	0.95	1.36
Food and nutrition assistance	14.0	18.0	18.1	18.5	18.6	18.9	20.1	21.2	23.4	2.37	1.95
Other income security	17.2	21.1	21.4	22.7	24.4	25.3	27.9	29.7	31.1	2.91	2.60
Unemployment insurance	18.1	31.5	18.4	17.5	17.8	17.1	15.3	15.6	18.1	3.05	1.51
Health	23.2	28.6	30.4	33.5	35.9	40.0	44.5	48.4	57.8	3.92	4.83
Health care services	18.0	23.0	24.5	27.0	28.9	32.6	36.0	39.2	47.9	3.05	4.00
Health research	3.4	4.0	4.4	4.9	5.4	5.6	6.6	7.3	7.9	0.58	0.66
Education and training of health care workforce	0.7	0.6	0.4	0.5	0.5	0.6	0.5	0.5	0.6	0.12	0.05
Consumer and occupational health and safety	1.0	1.1	1.1	1.2	1.2	1.2	1.3	1.4	1.5	0.17	0.13
Social Security and Medicare	150.6	223.3	235.8	254.4	268.9	282.5	298.2	317.5	345.1	25.49	28.83
Social Security	118.5	170.7	178.2	188.6	198.8	207.4	219.3	232.5	248.5	20.06	20.76
Medicare	32.1	52.6	57.5	65.8	70.2	75.1	78.9	85.0	96.6	5.43	8.07

See footnotes at end of table.



## No. 509. Federal Outlays, by Detailed Function: 1980 to 1990—Continued

[In billions of dollars. See headnote, p. 316]

SOURCE OR FUNCTION	1980	1983	1984	1985	1986	1987	1988	1989	1990, est.	PERCENT DISTRIBUTION	
										1980	1990, est.
Veterans benefits and services <sup>1</sup>	21.2	24.8	25.6	26.3	26.4	26.8	29.4	30.1	28.9	3.59	2.41
Income security	11.7	14.3	14.4	14.7	15.0	15.0	16.0	16.5	15.1	1.98	1.26
Education, training, and rehabilitation	2.3	1.6	1.4	1.1	0.5	0.5	0.5	0.5	0.4	0.40	0.03
Hospital and medical care	6.5	8.3	8.9	9.5	9.9	10.3	10.8	11.3	12.0	1.10	1.00
Housing	(2)	(2)	0.2	0.2	0.1	0.3	1.3	0.9	0.4	(X)	0.03
Education, training, employment, and social services	31.8	26.6	27.8	29.3	30.6	29.7	31.9	36.7	37.7	5.39	3.15
Elementary, secondary, and vocational education	6.9	6.3	6.5	7.6	7.8	7.9	8.4	9.2	9.8	1.17	0.82
Higher education	6.7	7.2	7.4	8.2	8.4	7.4	8.3	10.6	10.5	1.14	0.88
Research and general education aids	1.2	1.1	1.2	1.1	1.2	1.3	1.3	1.4	1.5	0.20	0.13
Training and employment	10.3	5.3	4.6	5.0	5.3	5.1	5.2	5.3	5.5	1.75	0.46
Social services	6.1	6.1	7.2	6.7	7.2	7.4	8.0	9.4	9.6	1.03	0.80
Commerce and housing credit	9.4	6.7	6.9	4.2	4.9	6.2	18.8	27.7	22.7	1.59	1.90
Mortgage credit and thrift insurance	5.6	3.9	3.8	0.9	2.3	3.1	15.0	25.5	16.6	0.95	1.39
Payment to Postal Service	1.2	1.1	1.2	1.4	0.8	1.6	2.2	0.1	2.9	0.21	0.24
Other commerce	2.5	1.7	1.9	2.0	1.8	1.5	1.6	2.1	3.3	0.43	0.28
Transportation <sup>1</sup>	21.3	21.3	23.7	25.8	28.1	26.2	27.3	27.6	29.3	3.61	2.45
Ground transportation	15.3	14.3	16.2	17.6	18.7	17.2	18.1	17.9	18.4	2.58	1.54
Air transportation	3.7	4.0	4.4	4.9	5.3	5.5	5.9	6.6	7.4	0.63	0.62
Water transportation	2.2	3.0	3.0	3.2	4.0	3.5	3.1	2.9	3.3	0.38	0.28
Natural resources and environment <sup>1</sup>	13.9	12.7	12.6	13.4	13.6	13.4	14.6	16.2	17.5	2.35	1.46
Water resources	4.2	3.9	4.1	4.1	4.0	3.8	4.0	4.3	4.3	0.71	0.36
Conservation and land management	1.0	1.5	1.3	1.5	1.4	1.5	2.2	3.3	3.8	0.18	0.32
Recreational resources	1.7	1.5	1.6	1.6	1.5	1.6	1.7	1.8	1.9	0.28	0.16
Pollution control and abatement	5.5	4.3	4.0	4.5	4.8	4.9	4.8	4.9	5.5	0.93	0.46
Other natural resources	1.4	1.5	1.6	1.7	1.9	1.7	1.9	1.9	2.1	0.24	0.18
Energy <sup>1</sup>	10.2	9.4	7.1	5.7	4.7	4.1	2.3	3.7	3.2	1.72	0.27
Supply	8.4	6.1	3.3	2.8	2.8	2.3	0.7	2.2	1.8	1.42	0.15
Conservation	0.6	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.10	0.03
Emergency preparedness	0.3	1.9	2.5	1.8	0.6	0.8	0.6	0.6	0.5	0.06	0.04
Information, policy, and regulation	0.9	0.9	0.8	0.7	0.8	0.7	0.6	0.5	0.6	0.15	0.05
Community and regional development	11.3	7.6	7.7	7.7	7.2	5.1	5.3	5.4	8.8	1.90	0.74
Community development	4.9	4.4	4.5	4.6	4.1	3.7	3.4	3.7	3.8	0.83	0.32
Area and regional development	4.3	3.2	3.0	3.1	2.7	1.6	2.1	1.9	2.9	0.73	0.24
Disaster relief and insurance	2.0	(2)	0.1	(2)	0.4	-0.2	-0.2	-0.2	2.0	0.35	0.17
Agriculture <sup>1</sup>	8.8	22.9	13.6	25.6	31.4	26.8	17.2	16.9	14.6	1.50	1.22
Farm income stabilization	7.4	21.3	11.9	23.8	29.6	24.7	15.2	14.8	12.3	1.26	1.03
Research and services	1.4	1.6	1.7	1.8	1.8	1.9	2.0	2.1	2.2	0.24	0.18
Net interest	52.5	89.8	111.1	129.4	136.0	138.6	151.7	169.1	175.6	8.89	14.67
General science, space, and technology <sup>2</sup>	5.8	7.9	8.3	8.6	9.0	9.2	10.8	12.8	14.1	0.99	1.18
General science and basic research	1.4	1.6	1.8	2.0	2.2	2.3	2.4	2.6	3.0	0.23	0.25
Space flight	2.6	4.1	4.0	4.0	3.8	4.1	5.0	6.3	6.8	0.44	0.57
Space science, applications technology, and support act.	1.9	2.2	2.4	2.6	3.0	2.8	3.4	3.9	4.3	0.31	0.36
General government <sup>1</sup>	13.0	11.2	11.8	11.6	12.5	7.6	9.5	9.1	10.6	0.75	0.89
Legislative functions	1.0	1.2	1.3	1.4	1.4	1.4	1.6	1.7	1.8	0.18	0.15
Management, direction (Exec.)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.02	0.02
Central fiscal operations	2.6	3.1	3.3	3.5	3.6	3.9	4.8	5.6	5.7	0.44	0.48
General property and records management	0.3	0.2	0.2	0.1	0.5	0.1	-0.2	-0.3	0.5	0.06	0.04
General purpose fiscal assistance	8.6	6.5	6.8	6.4	6.4	1.6	1.8	2.1	2.2	1.45	0.18
Administration of justice	4.6	5.1	5.7	6.3	6.6	7.5	9.2	9.4	10.5	0.78	0.88
Federal law enforcement	2.2	2.9	3.2	3.5	3.6	4.1	5.1	4.7	4.9	0.38	0.41
Federal judicial activities	1.3	1.6	1.8	2.1	2.2	2.5	2.9	3.3	3.6	0.23	0.30
Federal correctional activities	0.3	0.4	0.5	0.5	0.6	0.7	0.9	1.0	1.4	0.06	0.12
Criminal justice assistance	0.7	0.2	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.11	0.04
Undistributed offsetting receipts	-19.9	-34.0	-32.0	-32.7	-33.0	-36.5	-37.0	-37.2	-36.5	-3.37	-3.05
Employer share, employee retirement	-15.8	-23.5	-25.3	-27.2	-28.3	-30.6	-33.4	-34.3	-33.8	-2.68	2.82
Rents and royalties <sup>5</sup>	-4.1	-10.5	-6.7	-5.5	-4.7	4.0	-3.5	-2.9	-2.6	-0.69	-0.22

X Not applicable. Z Less than \$50 million. <sup>1</sup> Totals reflect interfund and intragovernmental transactions and/or other functions, not shown separately. <sup>2</sup> Includes supporting space activities. <sup>3</sup> Includes litigative activities. <sup>4</sup> Includes sale of major assets, not shown separately. <sup>5</sup> On Outer Continental Shelf.

Source: U.S. Office of Management and Budget, *Budget of the United States Government*, annual.

## No. 510. Federal Budget Outlays in Current and Constant (1982) Dollars: 1970 to 1990

[For fiscal years ending in year shown; see text, section 9. Given the inherent imprecision in deflating outlays, the data shown in constant dollars present a reasonable perspective—not precision. The deflators and the categories that are deflated are as comparable over time as feasible. See headnote, table 507. Minus sign (-) indicates decrease]

YEAR	CURRENT DOLLARS						CONSTANT (1982) DOLLARS					
	Total	National defense	Total non-defense <sup>1</sup>	Payments for individuals <sup>2</sup>	Net interest <sup>3</sup>	Aid to State and local govt.	Total	National defense	Total non-defense <sup>1</sup>	Payments for individuals <sup>2</sup>	Net interest <sup>3</sup>	Aid to State and local govt.
<b>TOTAL OUTLAYS (bil. dol.)</b>												
1970	195.6	81.7	114.0	64.7	14.4	24.0	509.4	225.6	283.7	152.2	34.7	61.1
1971	210.2	78.9	131.3	80.4	14.8	28.1	509.4	202.7	306.7	181.0	34.0	66.7
1972	230.7	79.2	151.5	92.9	15.5	34.3	527.6	190.9	336.7	200.1	33.6	77.1
1973	245.7	76.7	169.0	104.5	17.3	41.8	527.5	175.1	352.4	215.7	35.9	88.7
1974	269.4	79.3	190.0	120.1	21.4	43.3	528.7	163.3	365.3	228.4	41.1	84.5
1975	332.3	86.5	245.8	153.5	23.2	49.7	586.0	159.8	426.2	265.8	40.4	87.0
1976	371.8	89.6	282.2	180.1	26.7	59.0	609.8	153.6	456.2	291.7	43.0	96.1
1976, TQ <sup>4</sup>	96.0	22.3	73.7	45.4	6.9	15.9	152.4	37.1	115.3	71.2	10.8	25.1
1977	409.2	87.2	312.0	196.3	29.9	68.3	622.6	154.3	468.3	295.5	44.6	103.5
1978	458.7	104.5	354.2	211.0	35.4	77.8	652.2	155.0	497.1	296.8	49.4	109.7
1979	503.5	116.3	387.1	232.9	42.6	82.8	660.2	159.1	501.0	301.6	54.7	106.6
1980	590.9	134.0	456.9	277.5	52.5	91.4	699.1	164.0	535.1	324.7	62.0	105.8
1981	678.2	157.5	520.7	323.4	68.7	94.7	726.5	171.4	555.2	344.3	73.7	100.6
1982	745.7	185.3	560.4	356.7	85.0	88.1	745.7	185.3	560.4	356.7	85.0	88.2
1983	808.3	209.9	598.4	395.4	89.8	92.4	775.0	201.3	573.7	378.6	86.1	88.7
1984	851.8	227.4	624.4	399.8	111.1	97.5	788.1	211.3	576.8	388.7	102.7	90.1
1985	946.3	252.7	693.6	425.6	129.4	105.7	849.6	230.0	619.7	380.0	116.0	93.9
1986	990.3	273.4	716.9	449.4	136.0	112.2	868.0	243.7	624.0	390.6	118.7	96.8
1987	1,003.8	282.0	721.8	469.4	138.6	108.2	858.0	250.3	607.0	392.2	117.4	90.4
1988	1,064.0	290.4	773.7	498.8	151.7	115.1	879.6	252.9	626.7	399.8	124.8	92.3
1989	1,142.6	303.6	839.1	534.1	169.1	121.6	907.1	255.9	651.2	410.3	133.5	93.2
1990, est.	1,197.2	296.3	900.9	577.8	175.6	133.6	912.2	240.5	671.7	426.7	133.2	97.9
<b>PERCENT DISTRIBUTION</b>												
1970	100.0	41.8	58.2	33.1	7.4	12.3	100.0	44.3	55.7	29.9	6.8	12.0
1975	100.0	26.0	74.0	46.2	7.0	14.9	100.0	27.3	72.7	45.4	6.9	14.8
1980	100.0	22.7	77.3	47.0	8.9	15.5	100.0	23.5	76.5	46.4	8.9	15.1
1981	100.0	23.2	76.8	47.7	10.1	13.9	100.0	23.6	76.4	47.4	10.1	13.8
1982	100.0	24.8	75.1	47.8	11.4	11.8	100.0	24.8	75.1	47.8	11.4	11.8
1983	100.0	25.9	74.0	48.8	11.4	11.4	100.0	26.0	74.0	48.8	11.1	11.4
1984	100.0	26.7	73.3	46.9	13.0	11.4	100.0	26.8	73.2	46.7	13.0	11.4
1985	100.0	26.7	73.3	45.0	13.7	11.2	100.0	27.1	72.9	44.7	13.7	11.1
1986	100.0	27.6	72.4	39.7	13.7	11.4	100.0	28.1	71.9	45.0	13.7	11.2
1987	100.0	28.1	71.9	46.8	13.8	10.8	100.0	29.2	70.8	45.8	13.7	10.6
1988	100.0	27.3	72.7	46.9	14.3	10.8	100.0	28.8	71.2	45.5	14.1	10.5
1989	100.0	26.6	73.4	46.7	14.8	10.6	100.0	28.2	71.8	45.2	14.7	10.3
1990, est.	100.0	24.7	75.3	48.3	14.7	11.2	100.0	26.4	73.6	46.8	14.6	10.7
<b>PERCENT CHANGE</b>												
1970-1971	7.4	-3.5	15.2	24.3	3.2	16.8	-	-10.2	8.1	18.9	-2.0	9.2
1971-1972	9.8	0.4	15.4	15.5	4.3	22.3	3.6	-5.8	9.8	10.6	-1.2	15.6
1972-1973	6.5	-3.1	11.6	12.5	12.1	21.7	(-2)	-8.3	4.7	7.8	6.8	15.0
1973-1974	9.6	3.5	12.4	14.9	23.6	3.6	0.2	-6.7	3.7	5.9	14.5	-4.7
1974-1975	23.4	9.0	29.4	27.8	8.4	14.8	10.8	-2.1	16.7	16.4	-1.7	3.0
1975-1976	11.9	3.6	14.8	17.3	14.9	18.7	4.1	-3.9	7.0	9.7	6.4	10.5
1976-1977	10.1	8.5	10.6	9.0	11.9	15.8	2.1	0.5	2.7	1.3	3.7	7.7
1977-1978	12.1	7.5	13.6	7.5	18.6	13.9	4.8	0.5	6.1	0.4	10.8	6.0
1978-1979	9.8	11.3	9.8	10.4	20.2	6.3	1.2	2.6	0.8	1.6	10.7	-2.8
1979-1980	17.4	15.2	18.0	19.2	23.2	10.4	5.9	3.1	6.8	7.7	13.3	-0.8
1980-1981	14.8	17.6	14.0	16.5	30.9	3.6	3.9	4.5	3.8	6.0	18.9	-4.9
1981-1982	10.0	17.6	7.6	10.3	23.7	-6.9	2.6	8.1	0.9	3.6	15.3	-12.3
1982-1983	8.5	13.3	8.5	10.8	5.6	4.0	3.9	8.6	2.3	6.1	1.3	0.6
1983-1984	5.2	8.3	4.1	1.1	23.7	5.5	1.7	5.0	0.5	-2.6	19.3	1.6
1984-1985	11.1	11.1	11.1	6.5	16.5	8.5	7.7	8.6	7.3	3.0	12.9	4.1
1985-1986	4.6	8.2	13.4	15.6	5.1	6.1	2.1	5.9	0.6	2.8	2.2	2.9
1986-1987	1.4	3.1	0.8	4.5	1.9	-3.5	-0.7	2.8	-2.1	1.2	-0.8	-6.3
1987-1988	6.0	3.0	7.2	6.3	9.5	6.4	2.5	1.0	3.1	1.8	6.1	1.9
1988-1989	7.4	4.5	8.5	7.1	11.5	5.6	3.1	1.2	3.9	2.6	7.0	1.0
1989-1990, est.	4.8	-2.4	7.4	8.2	3.8	9.9	0.6	-6.0	3.1	4.0	-0.2	5.0

- Represents zero. Z Less than .05 percent. <sup>1</sup> Includes other outlays not shown separately. <sup>2</sup> Includes small grant-in-aid to State and local governments. <sup>3</sup> Total interest less interest received by trust funds. <sup>4</sup> Transition quarter, July-Sept.

Source: U.S. Office of Management and Budget, *Budget of the United States Government*, annual.

**No. 511. Federal Trust Fund Receipts, Outlays, and Balances: 1989 to 1991**

[In billions of dollars. For fiscal year ending in year shown; see text, section 9. Receipts deposited. Outlays stated on a checks-issued basis, less refunds collected. Balances: That which have not been spent. See text, section 10 for discussion of the budget concept and trust funds]

DESCRIPTION	RECEIPTS			OUTLAYS			BALANCES <sup>1</sup>		
	1989	1990, est.	1991, est.	1989	1990, est.	1991, est.	1989	1990, est.	1991, est.
<b>Total . . . . .</b>	<b>509.8</b>	<b>542.3</b>	<b>587.1</b>	<b>386.3</b>	<b>416.6</b>	<b>434.1</b>	<b>690.9</b>	<b>817.8</b>	<b>970.1</b>
Total on-budget . . . . .	246.2	256.9	272.5	175.0	193.2	199.8	534.3	599.1	671.1
Airport and airway trust fund . . . . .	4.7	5.1	6.1	2.9	3.5	6.0	22.5	25.4	24.8
Federal employees retirement funds . . . . .	49.6	52.6	56.4	29.6	31.8	32.5	243.2	263.9	287.9
Foreign military sales trust fund . . . . .	8.2	8.8	8.3	8.4	9.0	8.6	4.7	4.5	4.2
Health insurance trust funds . . . . .	118.9	127.0	137.1	96.6	108.2	110.5	94.7	113.5	140.1
Highway trust funds . . . . .	16.9	16.3	16.6	14.5	14.9	15.1	16.7	18.0	19.5
Military trust funds . . . . .	34.0	33.5	35.0	20.2	21.5	22.1	65.2	77.2	90.1
Railroad retirement trust funds . . . . .	10.1	10.5	10.6	9.4	9.7	10.1	8.6	9.3	9.9
Unemployment trust funds . . . . .	25.5	26.2	25.4	18.7	19.5	20.0	45.1	51.8	57.2
Veterans life insurance trust funds . . . . .	1.4	1.5	1.4	1.1	1.2	1.2	12.1	12.4	12.6
Other trust funds <sup>2</sup> . . . . .	5.0	4.8	5.7	1.9	3.1	4.0	21.4	23.1	24.8
Intrafund receipts from on-budget . . . . .	(Z)	0.1	(Z)	(Z)	-0.1	(Z)	-	-	-
Intrafund receipts from off-budget . . . . .	2.9	-3.0	3.2	-2.9	3.0	-3.2	-	-	-
Interfund from off-budget . . . . .	-3.8	4.1	-5.1	3.8	-4.1	5.1	-	-	-
Proprietary receipts from the public . . . . .	21.4	-22.0	21.9	-21.4	22.0	-21.9	-	-	-
Total, off-budget (social security) . . . . .	263.7	285.4	314.5	211.2	223.4	234.2	156.7	218.7	299.0
Social security trust funds:									
Cash income and outgo . . . . .	286.1	311.4	345.3	233.6	249.4	265.0	156.7	218.7	299.0
Interfund receipts from on-budget . . . . .	22.4	-26.0	30.8	-22.4	26.0	-30.8	-	-	-

- Represents zero. Z Less than \$50 million. <sup>1</sup> Balances available on a cash basis (rather than an authorization basis) at the end of the year. Balances are primarily invested in Federal debt securities. <sup>2</sup> Outlays include the Federal Deposit Insurance Corporation (FDIC) through August 8, 1989. Effective August 9, 1989, the permanent insurance fund of the FDIC was classified under law as a Federal fund.

**No. 512. Executive Controllability of Federal Budget Outlays: 1970 to 1989**

[In billions of dollars, except percent. For fiscal years ending in year shown; see text, section 9. Outlays considered relatively uncontrollable are those which can neither be increased nor decreased by Presidential decisions without a change in existing Federal laws or are beyond administrative control. This table is based on a Presidential perspective]

OUTLAYS	1970	1975	1980	1984	1985	1986	1987	1988	1989, est.
<b>Total outlays . . . . .</b>	<b>195.6</b>	<b>332.3</b>	<b>590.9</b>	<b>851.8</b>	<b>946.3</b>	<b>989.8</b>	<b>1,004.6</b>	<b>1,064.0</b>	<b>1,137.0</b>
<b>Relatively uncontrollable outlays . . . . .</b>	<b>120.3</b>	<b>222.2</b>	<b>413.8</b>	<b>624.1</b>	<b>689.4</b>	<b>745.4</b>	<b>769.3</b>	<b>807.4</b>	<b>865.1</b>
Percent of total outlays . . . . .	61.5	66.9	70.0	73.3	72.9	75.3	76.6	75.9	76.1
Open-ended programs and fixed costs <sup>1</sup> . . . . .	78.3	168.9	310.7	478.8	527.2	564.1	584.0	620.6	668.2
Payments for individuals . . . . .	60.1	139.5	246.6	357.4	380.5	402.6	421.7	448.0	481.5
Social Security and railroad retirement . . . . .	30.7	67.3	120.0	179.3	189.9	199.9	208.6	220.3	233.7
Medical care . . . . .	9.4	20.6	47.2	79.9	91.0	97.8	105.9	114.7	128.7
Federal employees' retirement and insurance <sup>2</sup> . . . . .	8.7	18.4	34.7	49.0	49.8	52.9	55.2	59.3	60.9
Food and nutrition assistance . . . . .	(X)	1.6	3.5	3.6	3.7	3.8	4.1	4.3	4.7
Public assistance and related programs . . . . .	6.4	12.2	17.5	21.0	22.2	24.5	25.7	28.8	31.2
Unemployment assistance . . . . .	3.1	12.8	16.8	16.9	16.1	16.3	15.7	13.8	14.3
Net interest . . . . .	14.4	23.2	52.5	111.1	129.4	136.0	138.6	151.7	165.7
Farm price supports <sup>3</sup> . . . . .	3.8	0.6	2.8	7.3	17.7	25.8	22.4	12.2	13.9
Prior-year contracts and obligations <sup>4</sup> . . . . .	41.9	53.3	103.2	145.3	162.2	181.3	185.3	186.8	196.9
<b>Relatively controllable outlays . . . . .</b>	<b>83.8</b>	<b>113.2</b>	<b>178.7</b>	<b>243.0</b>	<b>284.1</b>	<b>272.7</b>	<b>265.9</b>	<b>290.1</b>	<b>306.3</b>
National defense . . . . .	57.6	64.2	97.4	147.8	160.5	165.4	169.1	174.8	181.9
Civilian programs . . . . .	26.3	49.1	81.3	95.2	123.6	107.3	96.8	115.3	124.4
Undistributed employer share, employee retirement . . . . .	8.4	-11.2	15.8	-25.3	-27.2	-28.3	-30.6	-33.4	-34.3

X Not applicable. <sup>1</sup> Includes other outlays not shown separately. <sup>2</sup> Includes items previously classified in the veterans' benefits grouping. <sup>3</sup> Prices from Commodity Credit Corporation. <sup>4</sup> Excludes prior year contracts and obligations for items under open-ended programs and fixed costs.

Source of tables 511 and 512: U.S. Office of Management and Budget, *Budget of the United States Government*, annual.

### No. 513. Revenue Losses—Estimates for Selected "Tax Expenditures", by Function: 1985 to 1990

[In millions of dollars. For years ending, Sept. 30, except as noted. Tax expenditures are defined as "revenue losses attributable to provisions of the Federal tax laws which allow a special exclusion, exemption, or deduction from gross income or which provide a special credit, a preferential rate of tax, or a deferral of liability." Represents tax expenditures of \$1 billion or more in 1990]

DESCRIPTION	1985	1987	1988	1989	1990, est.
<b>National defense:</b>					
Exclusion of benefits and allowances to Armed Forces personnel	1,955	2,000	1,890	1,900	1,965
<b>International affairs:</b>					
Exclusion of income earned abroad by United States citizens	1,405	1,330	1,220	1,155	1,205
Inventory property sales source rules exception	(X)	1,845	2,625	2,000	2,200
<b>Natural resources and environment:</b>					
Exclusion of interest on state and local IDB <sup>1</sup> for pollution control and sewage and waste disposal facilities	1,250	1,715	1,635	1,575	1,515
<b>Commerce and housing credit:</b>					
Exclusion of interest on—					
Small issue IDB	475	2,925	2,705	2,600	2,445
Life insurance savings	2,175	5,425	5,410	6,230	6,920
State and local housing bonds for owner-occupied housing	1,886	2,010	1,765	1,895	1,775
State and local debt for rental housing	755	1,385	1,235	1,220	1,150
Exclusion of capital gains on home sales for persons age 55 and over	830	2,160	2,940	3,190	3,230
Deductibility of—					
Interest on consumer credit	15,530	11,845	6,530	3,945	2,080
Mortgage interest on owner-occupied homes	24,785	34,745	33,675	34,190	39,785
Property tax on owner-occupied homes	9,315	10,265	10,100	10,065	11,240
Carryover basis of capital gains at death	4,355	5,710	11,540	12,310	13,375
Investment credit, other than ESOP <sup>2</sup>	24,445	13,305	9,150	6,655	4,520
Accelerated depreciation of machinery and equip. <sup>3</sup>	20,145	13,280	23,700	28,805	23,525
Reduced rates on the first \$100,000 of corporate incomes:					
Pre-1983 budget method	5,015	3,710	2,815	2,875	3,235
Exception from passive loss rules for \$25,000 rental losses	(X)	350	1,145	4,210	5,475
<b>Education:</b>					
Deductibility of—					
Charitable contributions (education)	1,345	1,720	1,565	1,570	1,720
Other charitable contributions other than education	10,175	12,095	10,515	10,590	11,730
Credit for child and dependent care expenses	2,700	3,475	3,390	3,710	3,895
<b>Health:</b>					
Exclusion of employer contributions for medical insurance premiums and medical care	21,095	24,550	24,690	26,550	29,820
Deductibility of medical expenses	3,620	3,150	1,960	2,690	2,860
Exclusion of interest on State and local debt for private nonprofit health facilities	1,405	2,570	2,230	2,430	2,370
Deductibility of charitable contributions (health)	1,615	1,570	1,405	1,415	1,555
<b>Social Security and medicare:</b>					
Exclusion of Social Security benefits:					
Disability insurance benefits	1,170	1,170	1,095	1,105	1,145
OASI benefits for retired workers	12,955	14,285	13,425	14,840	15,680
Benefits for dependents and survivors	3,755	3,025	2,840	2,940	3,110
<b>Income security:</b>					
Exclusion of workmen's compensation benefits	2,225	2,740	2,910	2,760	2,980
Net exclusion of pension contributions and earnings:					
Employer plans	48,525	45,335	44,180	42,805	45,085
Individual Retirement Accounts	12,695	13,890	8,820	5,440	5,960
Keoghs	1,960	2,355	1,655	1,325	1,470
Exclusion of other employee benefits:					
Premiums on group term life insurance	2,055	1,940	1,940	2,460	2,565
Additional deduction for the elderly <sup>4</sup>	(X)	1,630	1,535	1,260	1,505
<b>Veterans benefits and services:</b>					
Exclusion of veterans disability compensation	1,695	1,615	1,505	1,490	1,500
<b>General purpose fiscal assistance:</b>					
Exclusion of interest on public purpose State and local debt	8,060	10,880	10,350	11,110	11,290
Deductibility of nonbusiness State and local taxes other than on owner-occupied homes	21,455	22,480	17,250	18,495	20,290
Tax credit for corporations receiving income from doing business in United States possessions	1,660	1,895	1,810	1,910	2,100

X Not applicable. <sup>1</sup> Industrial development bonds. <sup>2</sup> Employee stock ownership plans. Includes investment credit for rehabilitation of structures, energy property, and reforestation expenditures. <sup>3</sup> Pre-1983 budget method. <sup>4</sup> Data on calendar year basis.

Source: U.S. Office of Management and Budget, *Budget of the United States Government*, annual.

**No. 514. Federal Budget Outlays, by Agency: 1980 to 1990**

[In billions of dollars. For fiscal year ending in year shown; see text, section 9]

DEPARTMENT OR OTHER UNIT	1980	1983	1984	1985	1986	1987	1988	1989	1990, est.
<b>Total</b>	<b>590.9</b>	<b>808.3</b>	<b>851.8</b>	<b>946.3</b>	<b>990.3</b>	<b>1,003.8</b>	<b>1,064.0</b>	<b>1,142.6</b>	<b>1,197.2</b>
Legislative branch	1.2	1.4	1.6	1.6	1.7	1.8	1.9	2.1	2.3
The Judiciary	0.6	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.7
Funds appropriated to President <sup>1</sup>	8.5	7.9	10.8	11.9	11.0	10.4	7.3	4.3	9.2
Departments:									
Agriculture	34.8	52.4	42.0	55.5	58.7	49.6	44.0	48.3	48.2
Commerce	3.1	1.9	1.9	2.1	2.1	2.1	2.3	2.6	3.9
Defense	146.1	223.3	240.5	263.9	285.7	294.7	304.0	318.3	311.5
Education	14.8	14.6	15.5	16.7	17.7	16.8	18.2	21.6	22.3
Energy	6.5	10.6	11.0	10.6	11.0	10.7	11.2	11.4	12.3
Health and Human Services	194.2	276.7	292.2	315.5	333.9	351.3	373.6	399.8	435.8
Housing and Urban Development	12.7	15.8	16.7	28.7	14.1	15.5	18.9	19.7	22.8
Interior	4.5	4.6	4.9	4.8	4.8	5.1	5.1	5.2	5.8
Justice	2.6	2.8	3.2	3.6	3.8	4.3	5.4	6.2	6.9
Labor <sup>2</sup>	29.7	38.1	24.5	23.9	24.1	23.5	21.9	22.7	24.9
State	1.9	2.3	2.4	2.6	2.9	2.8	3.4	3.7	3.8
Transportation	19.8	20.6	23.0	25.0	27.4	25.4	26.4	26.6	28.3
Treasury	76.5	116.4	141.0	160.9	179.2	180.3	202.4	230.6	247.2
Veterans Affairs	21.1	24.8	25.6	26.3	26.5	27.0	29.3	30.0	28.7
Independent agencies:									
Environmental Protection Agency	5.6	4.3	4.1	4.5	4.9	4.9	4.9	4.9	5.5
General Services Administration	0.2	0.1	0.1	(-2)	0.4	0.1	-0.3	-0.5	0.3
NASA <sup>3</sup>	5.0	6.9	7.1	7.3	7.4	7.6	9.1	11.0	12.0
Office of Personnel Management	15.1	21.3	22.6	23.7	24.0	27.0	29.2	29.1	33.2
Small Business Administration	2.0	0.7	0.5	0.7	0.6	-0.1	-0.1	0.1	1.1
Other independent agencies	16.1	11.2	11.9	10.0	12.2	14.3	23.4	32.5	26.6
Undistributed offsetting receipts	-32.0	-51.1	-52.3	-58.7	-65.0	-72.3	78.9	-89.2	-97.3

Z Less than \$50 million. <sup>1</sup> Represents international affairs funds mainly. <sup>2</sup> Includes Pension Benefit Guaranty Corporation. <sup>3</sup> National Aeronautics and Space Administration.

Source: U.S. Office of Management and Budget, *Budget of the United States Government*, annual.**No. 515. Federal Securities—Interest Bearing Debt by Type and Debt Holder: 1970 to 1990**

[In billions of dollars. As of end of fiscal year; see text, section 9. The Export-Import Bank was moved within the budget effective October 1, 1976. Adjustments are made to include totals for the period it was outside the budget (1970-76). Also adjustments are made to reflect certain Export-Import Bank borrowing now classified as agency debt]

YEAR	Federal securities, total <sup>1</sup>	Interest-bearing debt, total	TYPE							DEBT HOLDER		
			Marketable				Nonmarketable			U.S. Govt. account	Federal reserve banks <sup>3</sup>	Private investors
			Total	Bills	Notes	Treasury bonds	Total <sup>1</sup>	U.S. savings bonds	Govt. account series <sup>2</sup>			
1970	383	369	233	76	94	63	136	51	76	95	58	216
1975	544	532	316	129	150	37	217	65	124	145	85	302
1980	914	906	595	200	311	84	312	73	190	198	121	588
1985	1,827	1,821	1,360	384	776	200	461	77	314	317	170	1,335
1988	2,615	2,600	1,803	398	1,090	300	797	106	536	550	229	1,820
1989	2,881	2,836	1,893	407	1,133	338	944	114	664	677	221	1,939
1990	3,266	3,211	2,093	482	1,218	377	1,118	122	779	796	233	2,183

<sup>1</sup> Includes items not shown separately. <sup>2</sup> 1970 known as U.S. Treasury special issues. <sup>3</sup> Public Issues.

Source: U.S. Dept. of the Treasury, *Treasury Bulletin*, quarterly.**No. 516. Interest—Bearing Government Securities Outstanding: 1970 to 1989**

[In billions of dollars, except percent. As of end of fiscal year; see text, section 9. Par values, except U.S. savings bonds series, E, F, J, and U.S. savings notes, which are included at current redemption values]

TYPE OF SECURITY	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
State and local govts. <sup>1</sup>	139	213	334	360	394	442	488	554	649	705	735	(NA)
Taxable	306	419	723	802	936	1,146	1,304	1,511	1,761	1,911	2,076	(NA)
Government account series	76	124	190	201	210	235	260	314	366	441	536	664
By issuer:												
U.S. Treasury	369	532	906	996	1,141	1,376	1,560	1,821	2,123	2,348	2,600	2,836
Agency securities	13	11	7	6	5	5	4	4	4	4	12	23
State and local govts. <sup>1</sup>	139	213	334	360	394	442	488	554	649	705	735	(NA)

NA Not available. <sup>1</sup> Source: Board of Governors, Federal Reserve System, unpublished data. Includes some partially taxable debt. <sup>2</sup> Interest is subject to both normal and surtax rates of Federal income tax. <sup>3</sup> Prior to July 1, 1974, known as U.S. Treasury special issues.

Source: Except as noted, U.S. Dept. of the Treasury, through 1980, *Statistical Appendix to the Annual Report of the Secretary of the Treasury on the State of the Finances*; thereafter, *Treasury Bulletin*, quarterly.

## No. 517. Federal Participation in Domestic Credit Markets: 1980 to 1989

[In billions of dollars, except percent. See headnote, table 518. Federal credit programs are primarily in three forms: direct loans from the Federal government, Federal guarantees of private lending, and lending by privately owned Government-sponsored enterprises]

TYPE OF PARTICIPATION	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>Total funds loaned in U.S. credit markets, excluding equities</b>	<b>329.8</b>	<b>385.2</b>	<b>492.5</b>	<b>684.4</b>	<b>741.1</b>	<b>878.6</b>	<b>748.0</b>	<b>789.4</b>	<b>724.0</b>
Federal and federally assisted lending	79.9	87.6	86.5	79.5	110.3	129.1	149.2	109.4	128.6
Federal participation rate (percent)	24.2	22.7	17.6	11.6	14.9	14.7	20.5	14.2	17.8
Direct loans	24.2	23.4	15.3	8.3	28.0	11.2	-19.0	-13.4	-14.6
Guaranteed loans	31.6	20.9	34.1	20.1	21.6	34.6	60.4	40.3	41.7
Government-sponsored enterprise loans	24.1	43.3	37.1	53.1	60.7	83.3	107.8	82.5	101.5
<b>Total funds borrowed in U.S. credit markets<sup>1</sup></b>	<b>329.8</b>	<b>385.2</b>	<b>509.8</b>	<b>684.4</b>	<b>741.1</b>	<b>878.6</b>	<b>748.0</b>	<b>789.4</b>	<b>724.0</b>
Federal and federally assisted borrowing	122.5	198.9	279.9	244.5	278.9	374.5	324.0	289.3	304.0
Federal participation rate (percent)	37.2	51.6	56.8	35.7	37.6	42.6	43.3	37.6	42.0
Federal borrowing from public	69.5	134.4	211.8	168.9	199.4	236.8	152.0	162.1	139.1
Borrowing for guaranteed loans	31.6	20.9	34.1	20.1	21.6	34.6	60.4	40.3	41.7
Government-sponsored enterprise borrowing	21.4	43.6	34.0	55.5	57.9	103.2	111.7	86.9	123.2

<sup>1</sup>Funds loaned to and borrowed by nonfinancial sectors, excluding equities.

Source: U.S. Office of Management and Budget, *Special Analyses, Budget of the United States Government*, annual.

## No. 518. Federal Direct and Guaranteed Loans: 1970 to 1989

[As of end of fiscal year; see text, section 9. Government guaranteed loans (loans for which the government guarantees payment of principal or interest in whole or part) are not included in Federal budget outlays. They constitute contingent liabilities not resulting in outlays, except in event of default. Government direct loans are made by both on-budget and off-budget Federal agencies. See headnote, table 517]

YEAR	AMOUNT (bil.dol.)						PERCENT CHANGE			
	Direct loans <sup>1</sup>			Guaranteed loans <sup>2</sup>			Direct loans <sup>1</sup>		Guaranteed loans <sup>2</sup>	
	Gross (new) loans disbursed	Net loan outlays	Direct loans outstanding	Pri- mary <sup>3</sup>	Net loans	Guaran- teed loans out- standing	Gross (new) loans disbursed	Direct loans outstanding	Pri- mary	Guaran- teed loans out- standing
1970	12.4	3.0	51.1	27.5	8.4	125.1	-27.1	9.0	8.7	6.3
1975	28.8	12.8	74.1	31.2	8.7	198.3	82.3	20.5	-2.5	4.5
1977	35.4	11.5	100.7	43.9	14.0	224.0	2.6	17.2	37.6	6.6
1978	48.6	19.8	120.5	48.5	13.4	237.9	37.3	19.7	10.5	6.2
1979	49.2	19.6	140.5	60.5	25.2	264.6	1.2	16.6	24.7	11.2
1980	49.3	24.2	163.9	66.2	31.6	298.5	0.2	16.7	9.4	12.8
1981	55.9	26.1	185.0	60.2	28.0	309.1	13.4	12.9	-9.1	3.6
1982	37.1	23.4	207.8	59.6	20.9	331.2	-33.6	12.3	-1.0	7.1
1983	43.8	15.3	223.0	78.0	34.1	363.8	18.1	7.3	30.9	9.8
1984	41.4	6.3	229.3	73.3	20.1	386.7	-5.5	2.8	-6.0	6.3
1985	64.4	28.0	257.4	55.5	21.6	410.4	55.6	12.3	-24.3	6.1
1986	42.2	11.2	251.6	89.6	34.6	449.8	-34.5	-2.3	61.4	9.6
1987	35.2	-19.0	234.2	151.7	60.4	507.0	-16.6	-6.9	69.3	12.7
1988	33.7	-13.4	222.0	96.4	40.3	550.0	-4.3	-5.2	-6.0	8.5
1989, est.	26.0	-14.6	207.0	96.3	41.7	588.6	-23.1	-5.7	-0.9	6.7

<sup>1</sup> Includes loans from "off-budget" Government accounts. <sup>2</sup> Includes capital subscriptions to intern guaranteed loans held as direct loans are excluded. <sup>3</sup> Gross loans guarantees minus both secondary guaranteed loans, and guaranteed loans held as direct loans by the Government—by either on- or off-budget accounts.

Source: U.S. Office of Management and Budget, *Budget of the United States Government*, annual.

## No. 519. U.S. Savings: 1970 to 1989

[In billions of dollars, except percent. As of end of fiscal year; see text, section 9. See *Historical Statistics, Colonial Times to 1970*, series Y 500, for similar but not exactly comparable data]

ITEM	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989
Amounts outstanding, total <sup>1</sup>	51.8	65.5	72.7	67.5	70.3	73.1	77.3	85.8	97.3	106.5	114.3
Funds from sales	4.7	6.8	4.8	3.1	4.0	3.9	5.0	8.3	10.3	7.3	7.7
Accrued discounts	1.0	3.3	4.2	4.9	5.0	5.3	5.2	5.6	6.1	7.9	7.5
Redemptions <sup>2</sup>	6.3	6.5	16.7	8.7	6.1	6.1	5.7	5.1	4.9	5.9	7.3
Percent of total outstanding	12.2	10.0	23.0	12.9	8.7	8.3	7.4	6.0	5.1	5.6	6.3

<sup>1</sup> Interest-bearing debt only for amounts and end of period or end of year. <sup>2</sup> Matured and unmatured bonds.

Source: U.S. Dept. of the Treasury, *Treasury Bulletin*, quarterly.

## No. 520. Federal Funds—Summary Distribution, by State: 1989

[In millions of dollars, except as indicated. For year ending Sept. 30. Data for grants, salaries and wages and direct payments to individuals are on an expenditures basis; procurement is on obligation basis. Minus sign (-) indicates decrease.]

REGION, DIVISION, AND STATE	FEDERAL FUNDS			Defense	Non-defense	Direct payments to individuals	Procurement	Grants to State and local governments	Salaries and wages
	Total <sup>1</sup>	Percent change 1988-1989	Per capita <sup>2</sup> (dol.)						
<b>United States . . . . .</b>	<b>905,052</b>	<b>6.5</b>	<b>3,594</b>	<b>212,189</b>	<b>692,865</b>	<b>448,936</b>	<b>159,338</b>	<b>117,831</b>	<b>141,199</b>
<b>Northeast . . . . .</b>	<b>190,846</b>	<b>8.8</b>	<b>7,990</b>	<b>38,711</b>	<b>152,134</b>	<b>99,774</b>	<b>34,470</b>	<b>31,258</b>	<b>20,130</b>
New England . . . . .	58,061	13.4	4,450	20,027	38,033	24,668	18,176	7,598	5,681
Maine . . . . .	4,760	18.3	3,896	1,486	3,274	2,324	1,150	688	537
New Hampshire . . . . .	3,414	6.8	3,084	1,005	2,409	1,745	517	411	668
Vermont . . . . .	1,728	11.5	3,048	241	1,487	937	189	356	195
Massachusetts . . . . .	28,558	13.9	4,830	9,776	18,781	11,797	9,438	3,688	2,547
Rhode Island . . . . .	3,881	6.8	3,818	797	3,014	2,073	441	684	529
Connecticut . . . . .	15,790	14.7	4,875	6,722	9,068	5,792	6,443	1,771	1,205
<b>Middle Atlantic . . . . .</b>	<b>132,785</b>	<b>6.9</b>	<b>3,520</b>	<b>18,684</b>	<b>114,101</b>	<b>75,106</b>	<b>16,294</b>	<b>23,660</b>	<b>14,449</b>
New York . . . . .	64,496	6.3	3,593	8,315	56,181	34,112	8,522	13,700	6,295
New Jersey . . . . .	25,892	7.9	3,347	5,097	20,795	14,703	3,950	3,570	3,323
Pennsylvania . . . . .	42,397	7.2	3,521	5,272	37,125	26,291	3,822	6,390	4,831
<b>Midwest . . . . .</b>	<b>195,508</b>	<b>7.0</b>	<b>6,835</b>	<b>30,393</b>	<b>165,115</b>	<b>107,382</b>	<b>25,258</b>	<b>26,933</b>	<b>21,504</b>
East North Central . . . . .	127,162	8.6	3,006	16,271	110,891	75,338	13,937	18,934	13,312
Ohio . . . . .	36,091	7.7	3,309	6,937	29,154	19,928	6,675	4,965	3,682
Indiana . . . . .	15,910	7.5	2,845	2,680	13,220	9,272	1,811	2,115	1,711
Illinois . . . . .	34,712	8.7	2,978	3,040	31,672	20,710	2,445	4,989	4,493
Michigan . . . . .	25,973	9.9	2,801	2,124	23,849	16,829	1,521	4,553	2,304
Wisconsin . . . . .	14,476	10.3	2,974	1,480	12,996	8,599	1,385	2,312	1,122
<b>West North Central . . . . .</b>	<b>68,346</b>	<b>4.2</b>	<b>3,829</b>	<b>14,122</b>	<b>54,224</b>	<b>32,044</b>	<b>11,321</b>	<b>7,999</b>	<b>8,192</b>
Minnesota . . . . .	14,433	4.3	3,316	2,009	12,424	6,870	1,872	2,269	1,230
Iowa . . . . .	9,809	1.2	3,454	621	9,188	5,240	608	1,183	692
Missouri . . . . .	23,335	8.2	4,523	7,799	15,535	9,847	7,151	2,031	2,800
North Dakota . . . . .	3,033	5.3	4,595	451	2,582	1,165	166	431	506
South Dakota . . . . .	2,890	7.4	4,042	318	2,572	1,287	134	464	466
Nebraska . . . . .	5,770	-2.8	3,582	846	4,924	2,908	334	709	900
Kansas . . . . .	9,076	0.9	3,612	2,078	6,999	4,727	1,056	912	1,598
<b>South . . . . .</b>	<b>319,734</b>	<b>5.2</b>	<b>10,882</b>	<b>81,178</b>	<b>238,559</b>	<b>134,287</b>	<b>50,687</b>	<b>36,466</b>	<b>65,399</b>
South Atlantic . . . . .	177,737	2.9	4,122	47,785	129,956	83,398	27,606	18,200	42,563
Delaware . . . . .	2,105	0.8	3,128	408	1,698	1,182	207	313	362
Maryland . . . . .	24,380	2.7	5,194	6,734	17,646	9,011	5,575	2,156	5,753
District of Columbia . . . . .	15,214	-0.3	25,190	2,067	13,148	1,853	2,262	1,523	8,531
Virginia . . . . .	32,063	-10.2	5,258	15,119	16,944	11,516	7,384	2,119	9,875
West Virginia . . . . .	6,111	4.3	3,291	344	5,767	4,158	339	952	558
North Carolina . . . . .	18,855	6.3	3,869	4,542	14,313	10,473	1,443	2,498	3,917
South Carolina . . . . .	11,982	9.6	3,412	3,136	8,846	5,633	2,151	1,455	2,532
Georgia . . . . .	20,347	10.3	3,161	5,596	14,751	9,862	2,044	3,089	4,846
Florida . . . . .	46,680	8.6	3,684	9,839	36,842	29,710	6,201	4,095	6,089
<b>East South Central . . . . .</b>	<b>53,878</b>	<b>6.4</b>	<b>3,497</b>	<b>10,368</b>	<b>43,510</b>	<b>28,172</b>	<b>8,303</b>	<b>7,374</b>	<b>8,571</b>
Kentucky . . . . .	12,359	15.7	3,316	2,086	10,274	6,667	1,185	1,853	2,333
Tennessee . . . . .	16,660	6.1	3,373	1,985	14,675	8,679	3,023	2,353	2,248
Alabama . . . . .	15,056	4.9	3,656	3,505	11,550	7,895	2,230	1,802	2,750
Mississippi . . . . .	9,803	-0.9	3,740	2,792	7,011	4,931	1,865	1,366	1,240
<b>West South Central . . . . .</b>	<b>88,119</b>	<b>9.6</b>	<b>3,263</b>	<b>23,025</b>	<b>65,093</b>	<b>22,717</b>	<b>14,778</b>	<b>10,892</b>	<b>14,265</b>
Arkansas . . . . .	7,827	4.6	3,253	1,031	6,797	4,860	463	1,106	872
Louisiana . . . . .	14,423	13.7	3,291	3,273	11,149	7,137	2,541	2,304	1,894
Oklahoma . . . . .	11,120	3.3	3,449	2,464	8,656	6,027	800	1,508	2,302
Texas . . . . .	54,749	10.6	3,222	16,257	38,491	26,243	10,974	5,974	9,197
<b>West . . . . .</b>	<b>198,963</b>	<b>6.1</b>	<b>7,789</b>	<b>61,906</b>	<b>137,050</b>	<b>107,493</b>	<b>46,926</b>	<b>23,173</b>	<b>34,885</b>
Mountain . . . . .	54,161	6.1	4,007	14,499	39,664	44,267	13,819	6,326	9,244
Montana . . . . .	3,262	11.4	4,047	293	2,969	1,505	149	559	486
Idaho . . . . .	3,688	8.3	3,637	372	3,317	1,664	890	501	480
Wyoming . . . . .	1,666	2.5	3,508	233	1,433	707	114	484	300
Colorado . . . . .	13,983	7.8	4,216	4,960	9,024	5,259	3,945	1,359	2,837
New Mexico . . . . .	8,096	-6.8	5,298	1,586	6,510	2,663	3,084	907	1,282
Arizona . . . . .	13,381	9.3	3,763	4,330	9,051	6,694	3,187	1,305	1,920
Utah . . . . .	6,191	7.7	3,627	1,968	4,223	2,295	1,512	822	1,343
Nevada . . . . .	3,894	13.6	3,505	757	3,137	1,830	938	389	596
<b>Pacific . . . . .</b>	<b>144,802</b>	<b>6.1</b>	<b>3,782</b>	<b>47,407</b>	<b>97,396</b>	<b>63,226</b>	<b>35,107</b>	<b>16,847</b>	<b>25,641</b>
Washington . . . . .	19,225	5.0	4,038	5,950	13,275	8,620	4,114	2,294	3,565
Oregon . . . . .	8,563	3.9	3,036	570	7,993	5,440	334	1,426	1,050
California . . . . .	108,611	6.1	3,737	36,717	71,894	46,729	29,427	11,936	17,604
Alaska . . . . .	2,993	12.4	5,680	1,350	1,643	553	619	663	1,137
Hawaii . . . . .	5,410	9.1	4,866	2,820	2,591	1,884	603	528	2,285
Undistributed . . . . .	19,107	-30.2	(X)	12,678	6,428	758	17,834	366	128

X Not applicable. <sup>1</sup> Includes other programs not shown separately. <sup>2</sup> Based on Bureau of the Census estimated resident population as of July 1.

Source: U.S. Bureau of the Census, *Federal Expenditures by State for Fiscal Year*, annual.

## No. 521. Tax Returns Filed—Examination Coverage: 1970 to 1989

[In thousands, except as indicated. Identification of returns with either schedule C (nonfarm sale proprietorships) or schedule F (farm proprietorships) for audit examination purposes was based on the largest source of income on the return and certain other characteristics. Therefore, the number with schedule C is not comparable to the number of non-farm sale proprietorships returns in table 863]

YEAR AND ITEM	Returns filed <sup>1</sup>	RETURNS EXAMINED					AVERAGE TAX AND PENALTY—DOLLARS PER RETURN		
		Total	Percent of returns filed	By—			Revenue agents	Tax auditors	Service centers
				Reve- nue agents	Tax auditors	Service centers			
INDIVIDUAL RETURNS									
1970	76,431	1,672	2.2	(NA)	(NA)	-	(NA)	(NA)	-
1975	81,272	1,839	2.3	355.2	1,483.4	-	2,609	219	-
1980	90,727	1,834	2.0	292.5	1,346.3	195.1	1,335	602	39
1984	95,541	1,216	1.3	276.2	859.4	80.4	11,584	1,314	692
1985	96,487	1,266	1.3	332.6	810.9	122.1	10,854	1,539	496
1986	99,529	1,091	1.1	298.9	732.5	59.6	14,052	1,945	862
1987	101,751	1,109	1.1	317.5	810.4	181.3	12,235	2,107	4,084
1988	103,251	1,061	1.0	352.8	532.3	175.7	9,750	2,190	4,195
1989, total	107,029	985	0.9	243.0	542.7	199.0	11,347	1,827	2,393
1040A, income under \$25,000	32,887	209	0.6	20.3	150.6	37.8	13,815	1,374	729
Non 1040A, income: <sup>2</sup>									
Under \$25,000	29,112	157	0.5	23.3	93.7	39.7	4,240	1,000	678
\$25,000 - \$49,999, simple	25,767	257	1.0	46.4	174.1	36.6	4,170	1,473	1,018
\$50,000 - \$99,999, complex	10,030	102	1.0	29.0	44.2	28.5	9,099	2,203	3,432
\$100,000 and over	2,193	120	5.5	42.1	33.7	45.0	21,695	5,180	5,393
Schedule C-TGR: <sup>3</sup>									
Under \$25,000	2,135	28	1.3	13.1	14.1	0.9	4,699	2,243	804
\$25,000 - \$99,999	2,596	50	1.9	26.4	20.2	3.3	7,195	35,491	2,793
\$100,000 and over	1,381	52	3.8	37.5	8.5	6.3	18,430	6,778	5,142
Schedule F-TGR: <sup>3</sup>									
Under \$100,000	665	6	0.9	1.9	3.6	0.3	5,345	957	420
\$100,000 and over	263	5	1.7	2.9	1.1	0.5	18,144	2,252	2,486
1989—OTHER RETURNS									
Fiduciary	2,689	3	0.1	3.2	-	-	32,827	-	-
Partnerships	1,704	12	0.7	12.3	-	-	-	-	-
Corporations, total	2,775	56	2.0	56.2	-	-	229,985	-	-
Estate, total	52	13	24.0	12.5	-	-	60,346	-	-
Gift	104	1	1.2	1.3	-	-	321,288	-	-
Excise	960	35	0.9	34.6	-	-	7,449	-	-
Employment	28,335	35	3.5	33.5	1.4	-	8,337	678	-
Windfall profit	3	1	0.1	1.1	-	-	2,070,588	-	-
Miscellaneous	-	1	44.9	0.8	-	-	6,948	-	-
Service center corrections	-	-	-	-	-	411.5	-	-	1,349

- Represents zero. NA Not available. <sup>1</sup> Returns filed in previous calendar year. <sup>2</sup> Income from positive sources only. <sup>3</sup> Total gross receipts.

Source: U.S. Internal Revenue Service, *Annual Report of the Commissioner and Chief Counsel of the Internal Revenue Service*.

## No. 522. Internal Revenue Gross Collections, by Source: 1970 to 1989

[For fiscal year ending in year shown; see text section 9. See also *Historical Statistics, Colonial Times to 1970*, series Y 358-373]

SOURCE OF REVENUE	COLLECTIONS (bil. dol.)								PERCENT OF TOTAL			
	1970	1975	1980	1985	1986	1987	1988	1989	1970	1980	1985	1989
<b>All taxes</b>	<b>195.8</b>	<b>293.8</b>	<b>519.4</b>	<b>742.9</b>	<b>782.3</b>	<b>886.3</b>	<b>935.1</b>	<b>1,013.5</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Individual income taxes	103.7	156.4	287.5	396.7	416.9	465.4	473.7	515.7	53.0	54.9	53.4	50.9
Withheld by employers	77.4	122.1	223.8	299.0	314.8	322.5	341.5	361.4	39.5	43.1	40.2	35.7
Employment taxes	37.4	70.1	128.3	225.2	243.9	277.0	318.0	345.6	19.1	24.7	30.2	34.1
Old-age and disability insurance	35.7	67.1	122.5	215.6	234.9	268.6	307.6	336.8	18.2	23.6	29.0	33.2
Unemployment insurance	0.8	1.4	3.3	5.7	5.3	6.2	6.2	4.7	0.4	0.6	0.8	0.5
Corporation income taxes	35.0	45.7	72.4	77.4	80.4	102.8	109.7	117.0	17.9	13.9	10.4	11.5
Estate and gift taxes	3.7	4.7	6.5	6.6	7.2	7.7	7.8	9.0	1.9	1.3	0.9	0.9
Excise taxes	15.9	16.8	24.6	37.0	33.7	33.3	25.9	26.0	8.1	4.7	5.0	2.6
Alcohol and tobacco	6.8	7.7	8.1	9.9	10.2	10.4	10.3	10.1	3.5	1.6	1.3	1.0
Manufactures	6.7	5.5	6.5	10.0	9.9	10.2	10.6	11.2	3.4	1.3	1.3	1.1
Windfall profits tax	(X)	(X)	3.1	5.1	8.9	(Z)	(Z)	(Z)	(X)	0.6	0.7	(Z)
Other	2.4	3.7	6.9	12.0	4.7	12.0	5.0	4.7	1.2	1.3	1.6	0.5

X Not applicable. Z Less than \$50 million or .05 percent. <sup>1</sup> Includes railroad retirement, not shown separately.

Source: U.S. Internal Revenue Service, *Annual Report of the Commissioner and Chief Counsel of the Internal Revenue Service*.



## No. 523. Federal Individual Income Tax Returns With Adjusted Gross Income (AGI)—Summary: 1980 to 1988

[Includes Puerto Rico and Virgin Islands. Includes returns of resident aliens, based on a sample of unadjusted returns as filed. Data are not comparable for all years because of tax changes and other changes, as indicated. See *Statistics of Income, Individual Income Tax Returns* publications for a detailed explanation. See Appendix III. See *Historical Statistics, Colonial Times to 1970*, series Y 393-411, for related data.]

ITEM	NUMBER OF RETURNS (1,000)					AMOUNT (mil. dol.)					AVERAGE AMOUNT DOLLARS (dollars)				
	1980	1985	1987	1988, prel.	1980	1985	1987	1988, prel.	1980	1985	1987	1988, prel.	1980	1985	1987
Total returns	93,902	101,660	106,996	108,809	1,613,731	1,613,731	2,773,924	3,097,302	17,185	22,683	25,924	26,206	22,683	25,924	26,206
Form 1040	57,123	67,006	71,032	71,228	1,310,038	1,310,038	2,258,761	(NA)	22,935	26,927	33,207	(NA)	22,935	26,927	33,207
Salaries and wages	83,802	87,198	90,984	93,464	1,349,843	1,349,843	2,163,906	2,347,226	16,108	22,113	23,783	(NA)	16,108	22,113	23,783
Interest received	49,020	64,526	67,934	69,584	102,009	102,009	188,966	182,574	3,601	3,545	2,487	(NA)	3,601	3,545	2,487
Dividends in AGI	10,738	15,528	13,302	22,862	38,781	38,781	86,791	77,934	2,809	2,992	2,992	(NA)	2,809	2,992	2,992
Business or profession profit less loss	6,881	11,900	12,302	13,548	55,139	55,139	105,461	122,432	6,017	6,020	5,111	(NA)	6,017	6,020	5,111
Sales of capital assets, net gain less loss, in AGI	9,971	11,126	15,468	14,206	13,548	13,548	137,402	122,295	3,012	6,883	7,562	(NA)	3,012	6,883	7,562
Pensions and annuities in AGI	7,374	13,133	16,497	16,540	40,340	40,340	124,755	139,888	5,878	7,241	7,562	(NA)	5,878	7,241	7,562
Rents and royalties, net income less loss	8,208	9,971	9,482	9,501	4,105	4,105	-9,235	-7,072	500	-1,300	-975	(NA)	500	-1,300	-975
Partnerships and S Corporations	3,910	5,488	5,724	5,724	10,099	10,099	24,314	62,600	2,563	-460	4,362	(NA)	2,563	-460	4,362
Farm profit less loss	2,608	2,621	2,420	2,411	-7,792	-7,792	30,116	3,002	-687	-4,580	-547	(NA)	-687	-4,580	-547
Statutory adjustments, total	13,149	37,763	11,620	10,713	28,614	28,614	14,066	11,946	2,176	2,518	2,592	(NA)	2,176	2,518	2,592
Individual Retirement Arrangements	2,564	16,208	7,319	5,368	3,431	3,431	6,183	6,543	1,938	2,358	1,922	(NA)	1,938	2,358	1,922
Self-employed retirement (Keogh) plan	569	676	759	786	2,008	2,008	(NA)	(NA)	3,529	7,666	8,146	(NA)	3,529	7,666	8,146
Married couples who both work	(NA)	24,835	(NA)	(NA)	227,569	227,569	408,773	431,471	991	1,039	1,879	(NA)	991	1,039	1,879
Exemptions, total <sup>2</sup>	227,925	244,180	217,493	222,112	(NA)	(NA)	(NA)	(NA)	998	1,039	1,879	(NA)	998	1,039	1,879
Age 65 or older	11,847	16,749	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Blind	185	327	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Standard and itemized deductions, total <sup>3</sup>	88,105	96,849	108,008	108,403	362,776	362,776	607,224	679,104	4,118	5,728	5,728	(NA)	4,118	5,728	5,728
Itemized deductions, total <sup>3</sup>	28,950	39,848	35,628	31,790	218,028	218,028	392,020	388,565	7,531	10,164	11,003	(NA)	7,531	10,164	11,003
Medical and dental expenses	19,458	10,777	34,356	4,743	14,972	22,926	17,152	17,829	769	2,127	3,202	(NA)	769	2,127	3,202
Taxes paid	28,769	39,548	34,866	31,241	69,404	128,085	119,388	120,137	3,418	3,239	3,424	(NA)	3,418	3,239	3,424
Interest paid	26,677	36,287	33,126	28,511	91,187	160,095	179,942	175,148	3,418	4,963	5,432	(NA)	3,418	4,963	5,432
Contributions	26,601	36,182	32,230	30,097	25,810	47,963	48,624	50,520	970	1,326	1,540	(NA)	970	1,326	1,540
Taxable income <sup>4</sup>	68,105	96,124	90,079	90,049	1,279,984	1,279,984	1,850,597	2,081,050	14,528	18,942	20,544	(NA)	14,528	18,942	20,544
Income tax before credits	76,136	85,384	89,718	90,049	256,294	256,294	332,165	373,857	3,367	3,863	4,167	(NA)	3,367	3,863	4,167
Tax credits, total <sup>2</sup>	19,674	20,395	12,901	14,042	7,216	10,248	6,329	6,789	366	488	491	(NA)	366	488	491
Child care	4,261	8,418	8,520	8,992	956	3,128	3,438	3,803	226	372	404	(NA)	226	372	404
Elderly and disabled	4,562	463	354	350	135	109	67	67	240	235	188	(NA)	240	235	188
Residential energy	4,670	2,979	38	(NA)	562	812	18	(NA)	120	273	465	(NA)	120	273	465
Foreign tax	393	454	560	556	1,342	793	1,099	969	3,415	1,725	1,965	(NA)	3,415	1,725	1,965
General business credit <sup>5</sup>	(NA)	514	544	341	4,614	4,791	1,019	623	(NA)	1,038	1,981	(NA)	(NA)	1,038	1,981
Income tax, total <sup>6</sup>	73,906	82,846	86,724	86,985	250,341	325,710	369,203	416,108	3,387	3,932	4,257	(NA)	3,387	3,932	4,257

NA Not available. <sup>1</sup> Represents corporations with no more than 35 shareholders (10 prior to 1986), most of which are individuals electing to be taxed at the shareholder level. <sup>2</sup> Includes items not shown separately. <sup>3</sup> For 1985 and 1986 includes charitable deduction for itemizers. Starting 1987 includes additional standard deductions for age 65 or older or for blindness. <sup>4</sup> For 1980 and 1985 includes amounts "taxed" at zero percent. <sup>5</sup> Includes investment credit. <sup>6</sup> Includes minimum tax or alternative tax.

Source: U.S. Internal Revenue Service, *Statistics of Income Bulletin*, and *Statistics of Income, Individual Income Tax Returns*, annual.

### No. 524. Individual Income Tax Returns — Number, Income Tax, and Average Tax, by Size of Adjusted Gross Income: 1987 and 1988

[Number in thousands; money amounts in billions of dollars, except as indicated]

SIZE OF ADJUSTED GROSS INCOME	NUMBER OF RETURNS		ADJUSTED GROSS INCOME (AGI)		TAXABLE INCOME		INCOME TAX TOTAL		TAX AS PERCENT OF AGI		AVERAGE TAX (\$1,000)	
	1987	1988, prel.	1987	1988, prel.	1987	1988, prel.	1987	1988, prel.	1987	1988, prel.	1987	1988, prel.
Total	106,996	109,809	2,773.8	3,097.3	1,850.6	2,081.1	369.2	416.1	13.3	13.4	4.3	4.8
Less than \$1,000 <sup>2</sup>	3,691	4,132	-38.2	-30.3	0.2	0.2	0.2	0.1	(X)	(X)	0.2	0.1
\$1,000-\$2,999	7,434	7,491	14.9	14.8	1.4	1.0	0.2	0.2	1.2	1.1	0.1	0.1
\$3,000-\$4,999	6,691	6,487	26.7	25.7	3.8	2.4	0.4	0.4	1.6	1.5	0.1	0.2
\$5,000-\$6,999	6,422	6,241	38.4	37.5	8.3	6.4	1.0	0.9	2.6	2.5	0.2	0.2
\$7,000-\$8,999	6,300	6,185	50.4	49.4	15.2	12.0	1.8	1.8	3.6	3.6	0.4	0.5
\$9,000-\$10,999	5,929	5,848	59.2	58.4	21.8	18.3	2.6	2.5	4.4	4.4	0.6	0.6
\$11,000-\$12,999	5,580	5,422	67.0	65.1	29.9	24.8	3.6	3.3	5.5	5.1	0.8	0.8
\$13,000-\$14,999	5,293	5,407	74.0	75.5	36.9	33.6	4.7	4.5	6.4	6.0	1.0	1.0
\$15,000-\$16,999	4,801	4,945	76.7	79.1	41.9	39.4	5.7	5.4	7.4	6.9	1.2	1.2
\$17,000-\$18,999	4,488	4,640	80.7	83.4	46.2	44.0	6.3	6.4	7.8	7.6	1.4	1.4
\$19,000-\$21,999	5,880		{ 120.2 }	{ 72.4 }	{ 78.1 }	{ 147.3 }	{ 10.0 }	{ 8.3 }	{ 8.7 }	{ 1.7 }		
\$22,000-\$24,999	5,297	11,397	124.3	249.1			11.4	21.7		2.2	1.9	
\$25,000-\$29,999	7,495	7,474	205.6	205.0	133.9	129.9	20.4	20.3	9.9	9.9	2.7	2.7
\$30,000-\$39,999	11,605	11,961	402.5	415.4	270.9	274.9	42.8	44.1	10.6	10.6	3.7	3.7
\$40,000-\$49,999	7,863	8,233	350.4	367.7	242.7	254.4	41.3	42.6	11.8	11.6	5.3	5.2
\$50,000-\$74,999	8,110	8,920	484.0	533.4	348.0	384.2	69.9	74.5	14.4	14.0	8.6	8.4
\$75,000-\$99,999	2,064	2,512	175.5	213.7	129.7	159.4	31.3	35.6	17.8	16.7	15.2	14.2
\$100,000-\$199,999	1,514	1,795	201.0	237.8	153.9	185.4	43.4	48.4	21.6	20.4	28.8	27.0
\$200,000-\$499,999	430	555	124.1	163.4	100.6	137.0	33.0	39.4	26.6	24.1	76.9	71.0
\$500,000-\$999,999	75	119	50.9	80.7	42.8	70.7	14.7	20.0	29.0	24.8	186.2	168.2
\$1,000,000 or more	35	65	85.7	172.5	72.1	155.6	24.5	43.9	28.6	25.4	702.8	672.4

NA Not available. X Not applicable. <sup>1</sup> Consists of income after credits, and alternative minimum tax, and minimum tax. <sup>2</sup> In addition to low income taxpayers, this size class (and others) includes taxpayers with "tax preferences," not reflected in adjusted gross income or taxable income which are subject to the "alternative minimum tax" (included in total income tax). Source: U.S. Internal Revenue Service, *Statistics of Income Bulletin*, Summer 1990 and *Statistics of Income 1987, Individual Income Tax Returns*, annual.

### No. 525. Individual Income Tax Returns—Itemized Deductions and Statutory Adjustments, by Size of Adjusted Gross Income: 1987

[Preliminary]

ITEM	Unit	ADJUSTED GROSS INCOME CLASS							
		Total	Under \$10,000	\$10,000 to \$19,999	\$20,000 to \$29,999	\$30,000 to \$39,999	\$40,000 to \$49,999	\$50,000 to \$99,999	\$100,000 and over
Returns with itemized deductions:									
Number	1,000	35,628	1,107	3,782	6,195	7,182	6,189	9,199	1,973
Amount	Mil. dol.	392,020	8,019	25,056	42,498	56,824	58,147	120,423	81,053
Medical and dental expenses:									
Returns	1,000	5,356	691	1,589	1,362	822	430	413	49
Amount	Mil. dol.	17,152	2,980	4,994	3,122	1,902	1,292	1,900	961
Taxes paid: Returns, total	1,000	34,866	927	3,588	6,042	7,060	6,136	9,153	1,961
State, local income taxes	1,000	29,411	505	2,732	5,153	6,082	5,319	7,923	1,697
Real estate taxes	1,000	29,986	745	2,795	4,822	5,951	5,425	8,392	1,856
Amount, total	Mil. dol.	119,388	1,127	4,484	10,329	15,893	17,222	38,561	31,771
State, local income taxes	Mil. dol.	75,366	263	1,689	5,242	9,079	10,231	24,011	24,852
Real estate taxes	Mil. dol.	39,069	780	2,487	4,514	6,007	6,175	12,935	6,172
Interest paid: Returns	1,000	33,126	803	3,245	5,770	6,813	5,949	8,755	1,791
Amount	Mil. dol.	179,942	2,843	10,708	20,762	28,804	29,579	57,568	29,679
Home mortgages interest:									
Returns	1,000	27,971	607	2,519	4,588	5,725	5,209	7,772	1,552
Amount	Mil. dol.	136,840	2,244	8,385	16,297	22,703	23,299	45,398	18,513
Contributions: Returns	1,000	32,230	775	3,086	5,439	6,514	5,721	8,791	1,904
Amount	Mil. dol.	49,624	617	2,929	5,024	6,545	6,478	14,147	13,884
Returns with statutory adjustments:									
Returns	1,000	11,620	921	1,934	2,504	2,305	1,658	1,660	638
Amount of adjustments	Mil. dol.	30,116	1,550	3,100	4,737	4,912	3,306	6,203	6,307
Payments to IRA's:									
Returns	1,000	7,319	415	1,231	1,858	1,712	1,160	707	236
Amount	Mil. dol.	14,066	679	2,178	3,297	3,368	1,882	1,963	700
Payments to Keogh plans:									
Returns	1,000	759	7	31	65	68	80	280	227
Amount	Mil. dol.	6,183	19	58	170	247	326	1,684	3,679
Employee business expense:									
Returns	1,000	1,419	79	148	236	271	222	375	87
Amount	Mil. dol.	4,066	307	352	599	719	524	1,164	401
Alimony paid: Returns	1,000	597	46	77	87	80	80	145	82
Amount	Mil. dol.	4,008	314	279	367	322	361	1,038	1,326

<sup>1</sup> Includes disability income exclusion, employee business expenses, moving expenses, forfeited interest penalty, alimony paid, deduction for expense of living abroad, and other data not shown separately. <sup>2</sup> Individual Retirement Accounts. Source: U.S. Internal Revenue Service, *Statistics of Income, Individual Income Tax Returns*, annual.

### No. 526. Federal Individual Income Tax Returns—Adjusted Gross Income, by Source of Income and Income Class for Taxable Returns: 1987

[In billions of dollars, except percent. Minus sign (-) indicates net loss was greater than net income. See headnote, table 523]

ITEM	Total <sup>1</sup>	Under \$10,000	\$10,000 to \$19,999	\$20,000 to \$29,999	\$30,000 to \$39,999	\$40,000 to \$49,999	\$50,000 to \$99,999	\$100,000 and over
Number of returns(1,000) . . . . .	86,724	16,204	22,587	16,341	11,546	7,839	10,158	2,049
Source of income—								
Adjusted gross income (AGI) . . . . .	2,700.8	90.8	337.4	403.7	400.5	349.3	658.4	460.6
Salaries and wages . . . . .	2,078.4	72.7	260.7	338.6	341.9	296.8	531.8	235.8
Interest received . . . . .	153.3	10.3	27.5	18.9	17.1	14.1	29.9	34.6
Dividends in AGI . . . . .	63.5	2.1	6.3	5.8	5.7	5.2	14.7	23.7
Business; profession, net profit less loss . . . . .	102.9	2.7	9.3	13.3	11.3	10.2	28.6	7.7
Pensions and annuities in AGI . . . . .	116.2	5.1	28.3	20.5	17.0	14.1	23.4	26.6
Sales of property <sup>2</sup> net gain less loss . . . . .	132.6	2.5	2.7	4.1	4.5	5.1	21.6	92.0
Rents and royalties, net income less loss . . . . .	-5.8	-0.1	-0.6	-1.7	-1.7	-1.3	-3.7	3.3
Other sources, <sup>3</sup> net . . . . .	59.8	-4.4	3.1	3.1	4.8	5.2	12.1	35.9
Percent of all returns—								
Number of returns . . . . .	81.1	15.1	21.1	15.3	10.8	7.3	9.5	1.9
Adjusted gross income . . . . .	97.4	3.3	12.2	14.6	14.4	12.6	23.7	16.6
Salaries and wages . . . . .	96.0	3.4	12.0	15.6	15.8	13.7	24.6	10.9
Interest received . . . . .	90.7	6.1	16.3	11.8	10.1	8.3	17.7	20.5
Dividends in AGI . . . . .	95.1	3.1	9.5	8.7	8.5	7.8	22.0	35.5
Business; profession, net profit less loss . . . . .	97.5	2.5	8.8	12.6	10.7	9.6	27.1	26.2
Pensions and annuities in AGI . . . . .	93.1	4.1	22.7	16.4	13.6	11.3	18.8	6.2
Sales of property <sup>2</sup> net gain less loss . . . . .	96.5	1.8	2.0	3.0	3.3	3.7	15.7	66.9

<sup>1</sup> Includes a small number of taxable returns with no adjusted gross income. <sup>2</sup> Includes sales of capital assets and other property \$2,090 million for 1987. <sup>3</sup> Includes statutory adjustments of \$28,712 million for 1987.

Source: U.S. Internal Revenue Service, *Statistics of Income, Individual Income Tax Returns*, 1987.

### No. 527. Federal Individual Income Tax Returns, Income, and Taxes, 1970 to 1988, and by State, 1988

YEAR, DIVISION, STATE	Number of returns <sup>1</sup> (1,000)	Adjusted gross income (AGI) <sup>2</sup>	INCOME TAX		YEAR, DIVISION, STATE	Number of returns <sup>1</sup> (1,000)	Adjusted gross income (AGI) <sup>2</sup>	INCOME TAX	
			Total <sup>3</sup> (mil. dol.)	Per capita <sup>4</sup> (dol.)				Total <sup>3</sup> (mil. dol.)	Per capita <sup>4</sup> (dol.)
1970 . . . . .	74,278	631,626	82,880	406	S.A. . . . .	19,269	528,253	72,947	1,720
1975 . . . . .	82,229	947,785	124,526	578	DE . . . . .	316	9,222	1,268	1,921
1980 . . . . .	93,902	1,613,731	250,341	1,102	MD . . . . .	2,281	72,437	10,120	2,188
1985 . . . . .	102,037	2,289,333	336,638	1,410	DC . . . . .	324	9,766	1,465	2,380
1986 . . . . .	103,634	2,472,560	380,562	1,579	VA . . . . .	2,775	82,543	11,377	1,892
1987 . . . . .	107,402	2,772,620	388,357	1,587	WV . . . . .	679	15,439	1,892	1,009
U.S., 1988 . . . . .	110,348	3,064,260	431,416	1,755	NC . . . . .	2,930	72,137	9,174	1,414
Northeast . . . . .	23,974	751,383	111,755	2,209	SC . . . . .	1,463	33,860	4,034	1,164
N.E. . . . .	6,480	206,404	31,190	2,406	GA . . . . .	2,741	73,302	9,768	1,541
ME . . . . .	560	13,613	1,735	1,439	FL . . . . .	5,760	159,547	23,849	1,933
NH . . . . .	551	16,986	2,493	2,298	E.S.C. . . . .	6,153	142,979	18,405	1,189
VT . . . . .	262	6,719	902	1,616	KY . . . . .	1,462	33,897	4,317	1,159
MA . . . . .	2,858	93,776	14,027	2,381	TN . . . . .	2,097	50,988	6,949	1,419
RI . . . . .	473	13,237	1,849	1,862	AL . . . . .	1,624	38,631	4,852	1,183
CT . . . . .	1,676	62,073	10,184	3,151	MS . . . . .	970	19,463	2,287	873
M.A. . . . .	17,494	544,879	80,565	2,141	W.S.C. . . . .	10,823	265,829	37,200	1,384
NY . . . . .	8,066	282,846	39,081	2,182	AR . . . . .	932	19,932	2,439	1,018
NJ . . . . .	4,012	137,372	21,016	2,723	LA . . . . .	1,625	36,696	4,743	1,076
PA . . . . .	5,416	144,761	20,468	1,706	OK . . . . .	1,261	29,224	3,774	1,167
Midwest . . . . .	26,556	711,818	98,138	1,639	TX . . . . .	7,005	179,977	26,244	1,559
E.N.C. . . . .	18,790	515,942	71,868	1,707	West . . . . .	22,982	653,914	91,380	1,803
OH . . . . .	4,910	126,962	16,995	1,564	Mt. . . . .	5,739	144,417	18,924	1,420
IN . . . . .	2,444	62,376	8,307	1,494	MT . . . . .	341	6,994	885	1,099
IL . . . . .	5,196	154,863	23,201	1,998	ID . . . . .	391	8,632	1,056	1,053
MI . . . . .	4,071	115,419	15,986	1,730	WY . . . . .	199	4,870	679	1,415
WI . . . . .	2,169	56,322	7,379	1,527	CO . . . . .	1,493	39,650	5,365	1,626
W.N.C. . . . .	7,766	195,876	26,270	1,479	NM . . . . .	623	13,548	1,653	1,095
MN . . . . .	1,955	53,715	7,114	1,651	AZ . . . . .	1,520	39,322	5,089	1,455
IA . . . . .	1,225	28,546	3,725	1,316	UT . . . . .	634	15,622	1,786	1,056
MO . . . . .	2,224	57,033	7,766	1,511	NV . . . . .	538	15,779	2,431	2,306
ND . . . . .	279	5,844	780	1,139	Pac. . . . .	17,243	509,497	72,456	1,939
SD . . . . .	299	5,987	807	1,130	WA . . . . .	2,129	58,391	8,226	1,768
NE . . . . .	707	16,680	2,224	1,387	OR . . . . .	1,245	30,732	3,926	1,418
KS . . . . .	1,077	28,071	3,874	1,552	CA . . . . .	13,012	398,831	57,265	2,022
South . . . . .	36,245	937,061	128,552	1,519	AK . . . . .	336	7,327	1,113	2,120
					HI . . . . .	521	14,216	1,926	1,757

<sup>1</sup> Beginning 1985, includes returns filed by nonresident aliens and certain self-employment tax returns. <sup>2</sup> Less deficit. <sup>3</sup> Includes additional tax for tax preferences self-employment tax, tax from investment credit recapture and other income-related taxes. Total is before earned income credit. <sup>4</sup> Based on resident population as of July 1.

Source: U.S. Internal Revenue Service, *Statistics of Income Bulletin*, Spring 1990.

# **No. 528. Federal Individual Income Tax—Effective (Average) and Marginal Tax Rates, for Selected Income Groups: 1970 to 1990**

[Refers to income after exclusions. Effective rate represents tax liability divided by stated income. The marginal tax rate is the percentage of the first additional dollar of income which would be paid in income tax. Computations assume the low income allowance, standard deduction, zero bracket amount, or itemized deductions equal to 10 percent of adjusted gross income, whichever is greatest. Excludes self employment tax. See *Historical Statistics, Colonial Times to 1970*, series 412-439, for similar data on net income]

	TAX LIABILITY (dol.)					EFFECTIVE RATE (percent)					MARGINAL TAX RATE (percent)							
	1970 <sup>2</sup>	1979-80	1985	1988	1989	1990	1970 <sup>2</sup>	1979-80	1985	1988	1989	1990	1970	1979-80	1985	1988	1989	1990
ADJUSTED GROSS INCOME <sup>1</sup>																		
CURRENT DOLLARS																		
Single person, no dependents:																		
\$5,000.....	683	250	177	8	735	705	13.7	5.0	3.5	0.2	7.4	7.1	19.5	16	12	15	15	15
\$10,000.....	1,778	1,177	888	758	2,235	2,205	17.8	11.8	8.9	7.6	11.2	11.0	28.7	21	16	15	15	15
\$20,000.....	5,030	3,837	2,854	2,258	5,235	5,205	25.2	19.2	14.3	11.3	12.6	12.0	49.2	39	26	15	15	15
\$25,000.....	7,144	5,484	4,125	3,294	7,114	7,084	28.6	21.9	16.5	13.2	16.7	16.3	54.3	44	34	28	28	28
\$30,000.....	11,904	9,194	6,916	5,954	11,904	11,874	34.0	26.3	19.8	17.0	19.3	19.0	61.5	55	42	28	28	28
\$35,000.....	19,695	15,032	12,067	9,734	19,695	19,665	38.4	32.1	24.1	19.5	22.6	22.3	65.6	63	48	33	33	33
\$40,000.....	34,019	28,487	22,195	17,154	34,019	33,989	45.4	39.3	29.6	22.9	22.6	22.3	65.6	63	48	33	33	33
Married couple, 2 dependents <sup>3</sup> :																		
\$5,000.....	275	4,500	4,550	4,700	4,700	4,700	5.5	4.0	1.1	1.0	1.0	1.0	15.0	4	4	4	4	4
\$10,000.....	1,122	374	432	858	4,910	4,953	11.2	3.7	1.3	1.3	1.3	1.3	19.5	16	16	15	15	15
\$20,000.....	3,213	2,265	1,882	1,080	1,020	953	16.1	11.3	8.4	5.6	5.1	4.9	25.6	21	16	15	15	15
\$25,000.....	4,490	3,497	2,566	1,830	1,770	1,703	18.0	14.0	10.3	7.3	7.1	6.8	32.8	28	18	15	15	15
\$30,000.....	7,677	6,571	4,916	3,330	3,270	3,203	21.9	18.6	14.0	9.5	9.3	9.2	40.0	37	25	15	15	15
\$35,000.....	13,674	12,118	9,086	6,549	6,281	5,960	27.3	24.2	18.2	13.1	12.6	11.9	49.2	43	33	28	28	28
\$50,000.....	25,594	23,404	17,649	12,849	13,637	12,386	34.1	31.2	23.5	17.1	16.8	16.5	56.4	54	42	28	28	28
\$75,000.....																		
CONSTANT (1988) DOLLARS																		
Single person, no dependents:																		
\$5,000.....	1,730	3,490	4,490	5,000	5,230	5,480	4.1	0.8	2.6	0.2	0.4	0.5	15.0	14	11	15	15	15
\$10,000.....	3,450	6,970	8,990	10,000	10,460	10,950	10.9	8.6	8.2	7.6	7.7	7.7	18.5	18	15	15	15	15
\$20,000.....	6,910	13,950	17,970	20,000	20,920	21,900	15.4	14.9	13.3	11.3	11.3	11.4	22.9	26	23	15	15	15
\$25,000.....	8,640	17,430	22,460	25,000	26,150	27,380	16.8	17.4	15.6	13.2	13.3	13.4	25.9	30	26	15	15	15
\$30,000.....	12,090	24,400	31,450	35,000	36,610	38,330	19.3	21.7	18.6	17.0	17.1	17.1	32.8	34	30	28	28	28
\$35,000.....	17,270	34,860	44,930	50,000	52,290	54,750	23.2	26.2	22.7	19.5	19.5	19.5	40.0	44	38	28	28	28
\$50,000.....	25,910	52,290	67,390	75,000	78,440	82,130	29.2	32.8	28.1	22.9	22.9	22.9	51.3	55	48	33	33	33
Married couple, 2 dependents <sup>3</sup> :																		
\$5,000.....	1,730	3,490	4,490	5,000	5,230	5,480	4.1	1.0	1.1	1.0	1.0	1.0	14.0	4	4	4	4	4
\$10,000.....	3,450	6,970	8,990	10,000	10,460	10,950	2.5	1.5	1.2	1.2	1.2	1.2	14.0	4	4	4	4	4
\$20,000.....	6,910	13,950	17,970	20,000	20,920	21,900	6.7	7.5	7.6	5.4	5.5	5.7	17.9	18	18	15	15	15
\$25,000.....	8,640	17,430	22,460	25,000	26,150	27,380	10.2	9.9	9.4	7.3	7.4	7.5	19.5	21	20	15	15	15
\$30,000.....	12,090	24,400	31,450	35,000	36,610	38,330	12.4	13.6	12.8	9.5	9.6	9.7	22.6	28	25	15	15	15
\$35,000.....	17,270	34,860	44,930	50,000	52,290	54,750	15.0	18.7	16.9	13.1	13.2	13.3	25.6	37	33	28	28	28
\$50,000.....	25,910	52,290	67,390	75,000	78,440	82,130	18.4	24.9	22.1	17.1	17.2	17.3	32.8	49	38	28	28	28
\$75,000.....																		

<sup>1</sup> Represents zero. <sup>2</sup> See footnote, table 523. <sup>3</sup> Only one spouse is assumed to work. <sup>4</sup> Refundable earned income credit.

Source: U.S. Dept. of the Treasury, unpublished data.

## No. 529. Federal Civilian Employment, by Branch, Agency, and Area: 1980 and 1989

[As of September 30]

AGENCY	TOTAL			UNITED STATES		WASHINGTON DC METRO AREA (MSA)	
	1980	1989	Per- cent change 1980- 1989	1980	1989	1989	Percent change 1980- 1989
<b>Total, all agencies</b>	<b>3,104,151</b>	<b>3,123,731</b>	<b>0.6</b>	<b>2,978,725</b>	<b>2,977,621</b>	<b>356,386</b>	<b>-2.9</b>
Legislative Branch, total <sup>1</sup>	39,710	37,690	-5.1	39,825	37,637	35,336	-4.9
Congress	19,096	19,504	2.1	19,096	19,504	19,504	2.1
U.S. Senate	7,195	7,401	2.9	7,195	7,401	7,401	2.9
House of Representatives	11,888	12,090	1.7	11,888	12,090	12,090	1.7
Architect of the Capitol	2,168	2,161	-0.3	2,168	2,161	2,161	-0.3
Judicial Branch	15,178	21,915	44.4	14,987	21,663	1,855	14.9
Supreme Court	331	327	-1.2	331	327	327	-1.2
U.S. Courts	14,847	21,588	45.4	14,656	21,336	1,528	19.1
Executive Branch, total	3,049,263	3,064,126	0.5	2,925,103	2,918,321	319,205	-2.7
Executive Office of the President <sup>1</sup>	1,886	1,577	-16.4	1,879	1,567	1,567	-16.6
White House Office	406	371	-8.6	406	371	371	-8.6
Office of Management and Budget	616	527	-14.4	616	527	527	-14.4
Office of Administration	166	202	21.7	166	202	202	21.7
Council of Economic Advisors	35	32	-8.6	35	32	32	-8.6
Executive Departments	1,945,255	2,065,038	6.2	1,844,576	1,939,431	240,193	0.3
State	23,497	25,327	7.8	8,187	9,152	8,229	18.9
Treasury	124,663	152,548	22.4	123,649	151,517	20,546	14.2
Defense	960,116	1,075,437	12.0	883,468	975,047	90,145	15.1
Justice	56,327	79,667	41.4	55,457	78,217	19,364	20.8
Interior	77,357	77,545	0.2	77,031	77,175	9,176	-10.8
Agriculture	129,139	122,062	-5.5	127,637	120,567	12,529	-7.6
Commerce	48,563	45,091	-7.1	47,838	44,366	19,015	-6.8
Labor	23,400	18,125	-22.5	23,299	18,085	6,211	-21.7
Health & Human Services	155,862	122,259	-21.5	154,715	121,550	26,927	-19.0
Housing & Urban Development	16,964	13,544	-20.2	16,790	13,416	3,406	-29.1
Transportation	72,361	65,615	-9.3	71,638	65,104	9,165	-12.4
Energy	21,557	17,130	-20.5	21,549	17,123	6,085	-28.2
Education	7,364	4,696	-36.2	7,363	4,692	3,246	-28.0
Veterans Affairs <sup>2</sup>	228,285	245,982	7.8	225,955	243,420	6,169	-5.1
Independent agencies <sup>1</sup>	1,102,122	997,511	-9.5	1,078,648	977,323	77,445	-10.8
Environmental Protection Agency	14,715	15,590	5.9	14,700	15,572	5,348	2.3
Equal Employment Opportunity Comm.	3,515	2,743	-22.0	3,515	2,743	662	-24.4
Federal Deposit Insurance Corporation	3,520	9,031	156.6	3,463	9,017	1,208	13.3
Fed. Emergency Managmt Agency	3,427	3,048	-11.1	3,410	3,038	1,361	-14.8
General Services Administration <sup>3</sup>	37,654	20,063	-46.7	37,549	19,981	6,699	-47.1
National Aeronautics & Space Admin	23,714	24,165	1.9	23,692	24,156	5,229	3.2
Nuclear Regulatory Commission	3,283	3,288	0.2	3,283	3,288	2,172	-14.7
Office of Personnel Management	8,280	6,859	-17.2	8,259	6,829	2,633	-24.2
Small Business Administration	5,804	4,653	-19.8	5,679	4,572	832	-13.2
Smithsonian Institution, Summary	4,403	5,158	17.1	4,301	5,019	4,766	17.2
Tennessee Valley Authority	51,714	28,676	-48.4	51,710	26,676	15	-
U.S. Information Agency	8,138	8,723	7.2	3,317	4,370	4,119	34.6
U.S. International Development Cooperation Agency	6,152	4,816	-21.7	2,740	2,400	2,392	-12.1
U.S. Postal Service	660,014	826,310	25.2	657,138	822,661	22,588	30.0

- Represents zero. <sup>1</sup> Includes other branches, or other agencies, not shown separately. <sup>2</sup> Formerly Veterans Administration. <sup>3</sup> 1980 figure includes the National Archives and Records Administration which became an independent agency in 1985. Source: U.S. Office of Personnel Management, *Federal Civilian Workforce Statistics—Employment and Trends*, bimonthly.

## No. 530. Federal White Collar Civilian Employment, by Sex and Grade: 1970 to 1989

[1970-1985, as of Oct. 31; thereafter as of Sep. 30. Represents full-time white-collar employment]

GRADE <sup>1</sup>	TOTAL (1,000)					PERCENT WOMEN				
	1970	1980	1985	1987	1989	1970	1980	1985	1987	1989
<b>Total employment<sup>2</sup></b>	<b>1,885</b>	<b>2,006</b>	<b>2,156</b>	<b>2,203</b>	<b>(NA)</b>	<b>33.1</b>	<b>38.6</b>	<b>47.4</b>	<b>48.2</b>	<b>(NA)</b>
General Schedule and equivalent pay system	1,259	1,473	1,561	1,585	1,608	40.3	45.1	47.7	48.4	48.7
Grades 1-6 (\$10,581 to \$23,628)	521	561	563	549	518	72.2	74.1	74.5	74.9	74.8
Grades 7-10 (\$20,195 to \$35,969)	302	357	377	389	388	33.4	46.3	50.3	51.4	53.5
Grades 11-12 (\$42,601 to \$46,571)	264	335	388	407	434	9.5	19.3	27.5	30.0	32.9
Grades 13-15 (\$42,601 to \$76,982)	164	217	231	239	267	3.0	8.2	12.1	14.2	17.0
Grades 16-18 (\$89,451 to \$78,200) <sup>3</sup>	8	3	1	1	1	1.4	4.4	6.1	6.9	9.1
Postal pay system <sup>4</sup>	521	504	553	600	(NA)	(NA)	26.8	33.2	36.2	(NA)

NA Not available. <sup>1</sup> Pay ranges shown for General Schedule grades are as of January 31, 1990. <sup>2</sup> Includes other systems, not shown separately. <sup>3</sup> Beginning 1980, change in number reflects shift of senior level employees to Senior Executive Service. <sup>4</sup> Source: U.S. Postal Service, *National Payroll Hours*, annual. Source: Except as noted, U.S. Office of Personnel Management, *Occupations of Federal White-Collar and Blue-Collar Workers*, biennial, and *The Pay Structure of the Federal Civil Service*, annual.

**No. 531. Federal Civilian Employment and Annual Payroll, by Branch: 1970 to 1989**

[Annual employment: For fiscal year ending in year shown; see text, section 9. Includes employees in U.S. territories and in foreign countries. Data represent employees in active-duty status, including intermittent employees. Annual employment figures are averages of monthly figures. Excludes Central Intelligence Agency, National Security Agency, and, as of November 1984, the Defense Intelligence Agency. See also *Historical Statistics, Colonial Times to 1970*, series Y 308-317]

YEAR	EMPLOYMENT						PAYROLL (mil. dol.)				
	Total (1,000)	Percent of U.S. employ- ed	Executive		Legisla- tive (1,000)	Judicial (1,000)	Total	Executive		Legisla- tive	Judicial
			Total (1,000)	Defense (1,000)				Total	Defense		
1970	<sup>2</sup> 2,928	3.7	<sup>2</sup> 2,891	1,195	30	7	28,562	<sup>2</sup> 28,117	11,352	353	92
1975	2,862	3.4	2,834	1,036	37	10	40,899	39,944	14,356	589	166
1979	2,897	2.9	2,844	970	40	13	53,590	52,513	18,065	817	260
1980	<sup>2</sup> 2,987	3.0	<sup>2</sup> 2,933	971	40	14	58,012	<sup>2</sup> 56,841	18,795	883	288
1981	2,909	2.9	2,855	986	40	15	63,793	62,510	21,227	922	360
1982	2,871	2.9	2,816	1,019	39	16	65,503	64,125	22,226	980	398
1983	2,878	2.9	2,823	1,033	39	16	68,878	68,420	23,406	1,013	445
1984	2,935	2.8	2,879	1,052	40	17	74,616	73,084	25,253	1,081	451
1985	3,001	2.8	2,944	1,080	39	18	80,599	78,992	28,330	1,098	509
1986	3,047	2.8	2,991	1,089	38	19	82,598	80,941	29,272	1,112	545
1987	3,075	2.7	3,018	1,084	38	19	85,543	83,797	29,786	1,153	593
1988	3,113	2.7	3,054	1,073	38	21	88,841	86,960	29,609	1,226	656
1989	3,133	2.7	3,074	1,067	38	22	92,847	90,870	30,301	1,266	711

<sup>1</sup> Civilian only. See table 635. <sup>2</sup> Includes 33,000 temporary census workers. <sup>3</sup> Includes 81,116 temporary census workers.

Source: U.S. Office of Personnel Management, *Federal Civilian Workforce Statistics—Employment and Trends*, bimonthly (formerly the *Monthly Release of Federal Civilian Workforce Statistics*), and unpublished data.

**No. 532. Federal Civilian Employment—Summary: 1970 to 1989**

[In thousands. As of Dec. 31. Excludes U.S. Territories and foreign countries, Central Intelligence Agency, National Security Agency, and the Defense Intelligence Agency. Partially estimated]

CHARACTERISTICS	UNITED STATES									WASHINGTON, DC <sup>1</sup>				
	1970	1975	1980	1985	1986	1987	1988	1989		1970	1980	1985	1988	1989
Paid employment	2,645	2,741	2,782	2,902	2,895	2,972	2,981	2,974		318	366	353	354	358
Male	1,931	1,896	1,790	1,769	1,765	1,813	1,730	1,711		180	202	191	184	182
Female	714	845	892	1,133	1,130	1,159	1,251	1,263		136	164	162	170	176
Full-time	2,516	2,496	2,504	2,589	2,575	2,651	2,648	2,674		308	342	335	336	342
Other	129	245	278	313	320	321	333	300		8	24	18	18	16
Competitive service <sup>2</sup>	2,393	1,714	1,692	1,710	1,678	1,724	1,707	1,733		262	258	246	244	249
Permanent appointment	2,281	1,654	1,622	1,628	1,606	1,638	1,632	1,661		251	247	234	234	241
Temp. and indef. appoint'mt.	112	60	70	82	72	86	75	71		11	11	12	10	8
Excepted and Senior Executive Services (SES) <sup>3</sup>	252	1,027	1,091	1,191	1,217	1,249	1,275	1,241		54	107	108	110	109
Permanent appointment	184	863	917	1,015	1,035	1,057	1,070	1,049		38	70	73	77	76
Temp. and indef. appointment	68	164	174	176	182	192	205	192		16	37	35	33	33
White-collar <sup>4</sup>	2,113	2,255	2,324	2,478	2,490	2,568	2,596	2,588		278	335	327	331	336
Blue-collar	532	486	458	424	405	404	385	386		38	31	26	23	22

<sup>1</sup> Through June 30, 1980, represents SMSA; thereafter, MSA. <sup>2</sup> In 1971, under Postal Reorganization Act of 1970, U.S. Postal Service employees were changed from competitive service to excepted service. <sup>3</sup> Excepted from competitive requirements of Civil Service Act. Prior to 1980 SES was not included in total. <sup>4</sup> Through 1980, based on full-time employment; beginning 1985, based on total workforce.

**No. 533. Accessions to and Separations from Paid Civilian Employment in the Federal Government: 1970 to 1990**

[In thousands, except rate. For fiscal year ending in year shown; see text, section 9. Includes accessions and separations of full-time, part-time, and intermittent employees]

ITEM	UNITED STATES								WASHINGTON, DC <sup>1</sup>				
	1970 <sup>2</sup>	1975	1980 <sup>2</sup>	1985	1988	1989	Oct. 1989- Mar. 1990		1980 <sup>2</sup>	1985	1988	1989	Oct. 1989- Mar. 1990
Accessions, total	727.0	564.2	995.2	692.9	620.4	635.5	351.6		94.1	62.5	65.7	67.2	26.4
Monthly rate <sup>3</sup>	2.2	1.7	2.9	1.9	1.8	1.8	2.0		2.3	1.6	1.6	1.7	1.3
Separations, total	796.7	588.9	1,004.0	530.1	571.3	605.7	242.8		89.2	58.0	59.1	58.3	23.2
Monthly rate	2.4	1.8	3.0	1.6	1.6	1.7	1.4		2.2	1.5	1.4	1.5	1.2
Quit <sup>4</sup>	334.4	212.9	227.7	218.3	207.5	205.1	81.3		32.9	25.0	24.7	25.6	9.2

<sup>1</sup> See footnote 1, table 532. <sup>2</sup> Includes temporary census enumerators. <sup>3</sup> Per 100 employees. <sup>4</sup> Represents voluntary resignations by employees or separations by agency if employee declines new assignment, abandons position, joins military, or fails to return from military furlough.

Source of tables 532 and 533: U.S. Office of Personnel Management, *Federal Civilian Workforce Statistics—Employment and Trends*, bimonthly, and unpublished data.

**No. 534. Paid Civilian Employment in the Federal Government: 1988**

[As of December 31. Excludes members and employees of Congress, Central Intelligence Agency, Defense Intelligence Agency, employees overseas, temporary census enumerators, seasonal and on-call employees, temporary Christmas help of the U.S. Postal Service, and National Security Agency]

DIVISION, AND STATE	Total (1,000)	Percent defense	DIVISION, AND STATE	Total (1,000)	Percent defense
<b>1988 total</b> <sup>1</sup>	<b>2,941</b>	<b>32.3</b>	Georgia	88	43.4
<b>New England</b>	<b>128</b>	<b>26.9</b>	Maryland	132	32.3
Connecticut	24	20.7	North Carolina	46	32.9
Maine	18	60.0	South Carolina	33	60.2
Massachusetts	62	19.6	Virginia	160	67.5
New Hampshire	8	20.3	West Virginia	16	11.3
Rhode Island	11	41.1	<b>East South Central</b>	<b>175</b>	<b>33.0</b>
Vermont	5	12.6	Alabama	58	45.0
<b>Middle Atlantic</b>	<b>372</b>	<b>26.8</b>	Kentucky	35	37.9
New Jersey	77	34.0	Mississippi	24	43.4
New York	159	12.4	Tennessee	57	13.0
Pennsylvania	136	39.8	<b>West South Central</b>	<b>276</b>	<b>36.7</b>
<b>East North Central</b>	<b>327</b>	<b>26.4</b>	Arkansas	19	25.4
Illinois	107	20.0	Louisiana	34	26.7
Indiana	42	36.1	Oklahoma	47	52.1
Michigan	58	21.4	Texas	176	35.7
Ohio	93	36.9	<b>Mountain</b>	<b>193</b>	<b>32.6</b>
Wisconsin	28	11.4	Arizona	38	27.4
<b>West North Central</b>	<b>175</b>	<b>22.2</b>	Colorado	53	26.3
Iowa	19	8.1	Idaho	10	13.6
Kansas	25	27.5	Montana	11	11.9
Minnesota	32	9.2	Nevada	10	20.0
Missouri	67	30.1	New Mexico	27	38.3
Nebraska	16	25.8	Utah	37	60.2
North Dakota	8	25.3	Wyoming	6	18.1
South Dakota	9	16.9	<b>Pacific</b>	<b>460</b>	<b>41.5</b>
<b>South Atlantic</b>	<b>800</b>	<b>34.7</b>	Alaska	15	34.3
Delaware	5	33.6	California	325	41.1
District of Columbia	210	8.2	Hawaii	27	76.9
Florida	109	29.9	Oregon	29	11.4
			Washington	65	44.2

<sup>1</sup> Preliminary. Includes employees not specified by State.

Source: U.S. Office of Personnel Management, *Biennial Report of Employment by Geographic Area*

**No. 535. Paid Full-Time Federal Civilian Employment, All Areas: 1985 to 1989**

[As of March 31. Excludes employees of Congress and Federal courts, maritime seamen of Dept. of Commerce, and small number for whom rates were not reported. See text, section 10 for explanation of general schedule and wage system. See also *Historical Statistics, Colonial Times to 1970*, series Y 318-331]

COMPENSATION AUTHORITY	EMPLOYEES(1,000)					AVERAGE PAY				
	1985	1986	1987	1988	1989	1985	1986	1987	1988	1989
<b>Total</b>	<b>2,590</b>	<b>2,616</b>	<b>2,625</b>	<b>2,014</b>	<b>2,016</b>	<b>26,139</b>	<b>26,369</b>	<b>27,429</b>	<b>28,211</b>	<b>29,618</b>
General Schedule	1,450	1,462	1,458	1,480	1,494	26,186	26,274	27,421	28,114	29,655
Wage System	418	409	391	383	374	23,288	23,837	24,432	24,965	25,462
Postal pay system <sup>1</sup>	586	606	633	(NA)	(NA)	26,559	26,744	26,925	(NA)	(NA)
Other	136	139	143	151	148	34,413	34,814	36,859	37,393	39,764

NA Not available. <sup>1</sup> Source: U.S. Postal Service, *National Payroll Hours*, annual.

Source: Except as noted, U.S. Office of Personnel Management, *Pay Structure of the Federal Civil Service*, annual.

**No. 536. Federal General Schedule Employee Pay Increases: 1965 to 1991**

[Percent change from prior year shown, except 1965, change from 1964. Represents legislated pay increases. For some years data based on range; for details see source]

EFFECTIVE DATE	Average increase	EFFECTIVE DATE	Average increase	EFFECTIVE DATE	Average increase
Oct. 1, 1965	3.6	Oct. 1, 1973	4.8	Oct. 1, 1982	4.0
July 1, 1966	2.9	Oct. 1, 1974	5.5	Jan. 1, 1984	4.0
Oct. 1, 1967	4.5	Oct. 1, 1975	5.0	Jan. 1, 1985	3.5
July 1, 1968	4.9	Oct. 1, 1976	5.2	Jan. 1, 1986	-
July 1, 1969	9.1	Oct. 1, 1977	7.0	Jan. 1, 1987	3.0
Dec. 27, 1969	6.0	Oct. 1, 1978	5.5	Jan. 1, 1988	2.0
Jan. 1, 1971	6.0	Oct. 1, 1979	7.0	Jan. 1, 1989	4.1
Jan. 1, 1972	5.5	Oct. 1, 1980	9.1	Jan. 1, 1990	3.6
Oct. 1, 1972	5.1	Oct. 1, 1981	4.8	Jan. 1, 1991, est.	3.5

- Represents zero.

Source: U.S. Office of Personnel Management, *Pay Structure of the Federal Civil Service*, annual.

**No. 537. Federal Paid Civilian Employment, by Agency: 1970 to 1989**

[As of end of fiscal year; see text, section 9. See headnote, table 531. Includes U.S. outlying areas and foreign countries.  
See also *Historical Statistics Colonial Times to 1970*, series Y 308-317]

AGENCY	1970	1975	1980	1985	1988	1989
<b>All Agencies . . . . .</b>	<b>2,921,909</b>	<b>2,896,944</b>	<b>2,875,866</b>	<b>3,020,531</b>	<b>3,112,823</b>	<b>3,123,731</b>
Legislative Branch . . . . .	30,715	38,531	39,710	38,764	37,547	37,690
Judicial Branch . . . . .	6,887	10,399	15,178	18,225	21,502	21,915
Executive Branch <sup>1</sup> . . . . .	2,884,307	2,848,014	2,820,978	2,963,542	3,053,774	3,064,126
Executive Office of the President . . . . .	4,742	1,918	1,866	1,526	1,554	1,577
<b>Executive Departments . . . . .</b>	<b>1,981,291</b>	<b>1,950,015</b>	<b>1,945,255</b>	<b>2,036,426</b>	<b>2,049,524</b>	<b>2,065,038</b>
Agriculture . . . . .	116,012	120,999	129,139	117,750	120,869	122,062
Commerce . . . . .	<sup>2</sup> 57,674	36,228	<sup>2</sup> 48,563	35,150	<sup>2</sup> 52,819	<sup>2</sup> 45,091
Census Bureau . . . . .	(NA)	(NA)	<sup>2</sup> 19,925	8,633	<sup>2</sup> 27,295	<sup>2</sup> 19,317
Defense . . . . .	1,193,784	1,041,829	960,116	1,084,549	1,049,619	1,075,437
Education <sup>3</sup> . . . . .	(X)	(X)	7,364	4,889	4,542	4,696
Energy <sup>4</sup> . . . . .	(X)	(X)	21,557	16,749	17,031	17,130
Health and Human Services <sup>3</sup> . . . . .	108,044	147,125	155,662	140,151	123,270	122,259
Social Security Admin. . . . .	(NA)	(NA)	84,272	82,967	69,007	66,687
Housing and Urban Development <sup>5</sup> . . . . .	15,190	17,161	16,964	12,289	13,342	13,544
Interior . . . . .	73,361	80,198	77,357	77,485	78,216	77,545
Justice . . . . .	39,257	51,541	56,327	64,433	76,515	79,667
Labor . . . . .	10,991	14,834	23,400	18,260	18,178	18,125
State . . . . .	39,753	30,376	23,497	25,254	25,634	25,327
Transportation . . . . .	65,985	75,035	72,361	62,227	63,506	65,615
Treasury . . . . .	92,521	121,546	124,663	130,084	160,516	152,548
Internal Revenue Service . . . . .	(NA)	(NA)	85,981	94,998	120,887	112,053
Veterans Affairs . . . . .	168,719	213,143	228,285	247,156	245,467	245,992
<b>Independent Agencies:</b>						
Environ. Protection Agency . . . . .	(X)	10,772	14,715	13,788	15,309	15,590
National Aeronautics & Space Admin. . . . .	32,548	26,447	23,714	22,562	23,130	24,165
Office of Personnel Management <sup>7</sup> . . . . .	5,508	8,157	8,280	6,353	6,673	6,859
Railroad Retirement Board . . . . .	1,734	1,961	1,795	1,681	1,674	1,692
Small Business Administration . . . . .	4,269	4,796	5,804	4,960	4,588	4,853
Tennessee Valley Authority . . . . .	22,244	28,423	51,714	32,035	28,290	26,676

NA Not available. X Not applicable. <sup>1</sup> Includes agencies not shown separately. <sup>2</sup> Includes decennial census enumerators. <sup>3</sup> Dept. of Education established Sept. 1979; formerly included with Health and Human Services. <sup>4</sup> Dept. of Energy established Oct. 1, 1977. <sup>5</sup> Includes Housing and Home Finance Agency. <sup>6</sup> Formerly Veterans Administration. <sup>7</sup> Formerly Civil Service Commission.

Source: U.S. Office of Personnel Management, *Federal Civilian Workforce Statistics - Employment and Trends*, bimonthly; (formerly the Monthly Release of Federal Civilian Work Force Statistics).

**No. 538. Federal Government Employment, by Race and National Origin, and by Pay System: 1982 and 1989**

[As of Sept. 30. Covers total employment for only Executive Branch agencies participating in OPM's Central Personnel Data File (CPDF). Excludes foreign nationals abroad and U.S. Postal Service]

PAY SYSTEM	1982					1989				
	Total employees (1,000)	Race/National origin				Total employees (1,000)	Race/National origin			
		Total <sup>1</sup> (1,000)	Per-cent of total	Black non-His-panic (1,000)	His-panic (1,000)		Total <sup>1</sup> (1,000)	Per-cent of total	Black non-His-panic (1,000)	His-panic (1,000)
<b>All pay systems, total <sup>2</sup> . . . . .</b>	<b>2,008.6</b>	<b>484.0</b>	<b>24.1</b>	<b>311.1</b>	<b>90.0</b>	<b>2,148.4</b>	<b>581.2</b>	<b>27.1</b>	<b>355.4</b>	<b>112.6</b>
General Schedule and equivalent <sup>3</sup> . . . . .	1,508.3	336.1	22.3	222.0	59.0	1,655.4	432.6	26.1	272.0	80.9
Grades 1-4 (\$10,581-\$18,947) . . . . .	303.6	101.9	33.6	71.0	16.1	251.7	103.4	41.1	70.6	16.4
Grades 5-8 (\$16,305-\$29,081) . . . . .	464.9	126.5	27.2	90.2	20.2	510.0	165.8	32.5	113.0	28.4
Grades 9-12 (\$24,705-\$46,571) . . . . .	530.0	87.6	16.5	50.1	18.7	634.1	131.6	20.8	72.2	29.6
Grades 13-15 (\$42,601-\$76,982) . . . . .	209.8	20.1	9.6	10.7	4.0	259.6	31.8	12.2	18.2	6.5
Executive, total . . . . .	7.8	0.6	7.7	0.3	0.1	9.6	0.7	7.2	0.4	0.1
Wage pay system . . . . .	414.0	134.6	32.5	83.5	28.0	384.4	129.7	33.7	75.9	28.1
Other pay systems <sup>4</sup> . . . . .	69.3	10.1	14.6	3.7	2.3	98.3	18.2	18.5	7.0	3.5

<sup>1</sup> Includes American Indians, Alaska Natives, Asians, and Pacific Islanders, not shown separately. <sup>2</sup> Due to the inclusion of unspecified employee records, the pay systems listed do not add to the total. <sup>3</sup> Pay rates as of January 1990 for general schedule. Each grade (except Executive) includes several salary steps. Range is from lowest to highest step of grades shown. <sup>4</sup> Includes white-collar employment in other than General Schedule and Equivalent or Executive pay plans.

Source: U.S. Office of Personnel Management, *1989 Affirmative Employment Statistics*, biennial.



### No. 539. Federal Land and Buildings Owned and Leased, and Predominant Land Usage: 1970 to 1988

[For fiscal years ending in years shown; see text section 9. Covers Federal real property throughout the world, except as noted. Usage covers land in United States only (50 States and DC). Cost of land figures represent total cost of property owned in year shown and excludes unreserved public domain; reserved for national parks, national forests, military installations, and other purposes; and historical sites acquired by methods other than purchase. Properties are reported at actual or estimated cost as of date of acquisition without considering depreciation, obsolescence, or economic changes in value. For data on Federal land by State, see table 335]

ITEM AND AGENCY	Unit	1970	1975	1980	1983	1984	1985	1986	1987	1988
<b>Federally owned:</b>										
Land	Mil. acres.	762	761	720	732	727	727	727	724	688
Buildings, number <sup>1</sup>	1,000	418	405	403	418	438	454	429	412	442
Buildings, floor area <sup>1</sup>	Mil. sq/ft.	2,542	2,502	2,522	2,609	2,725	2,860	2,731	2,700	2,780
Cost of land, buildings, etc. <sup>2</sup>	Bil. dol.	79	91	107	132	147	148	158	165	164
<b>Federally leased:</b>										
Land	Mil. acres.	1.6	1.2	1.4	1.4	1.8	1.3	1.3	1.6	1.6
Buildings, floor area <sup>1</sup>	Mil. sq/ft.	182	210	214	206	203	237	246	248	248
Rental property, cost	Mil. dol.	451	684	1,054	1,532	1,547	1,681	1,774	1,893	2,001
<b>Predominant usage:</b>										
Forest and wildlife	Mil. acres.	761.3	760.4	719.5	732.0	726.6	727.4	727.1	724.1	688.2
Grazing	Mil. acres.	503.2	502.3	421.8	434.0	430.4	430.6	430.6	430.6	399.8
Parks and historic sites	Mil. acres.	163.5	164.0	162.2	162.1	153.0	154.7	154.6	154.4	151.3
Military, exc. airfields	Mil. acres.	24.6	25.3	92.6	95.6	91.4	94.0	98.0	96.1	98.7
Flood control, navigation	Mil. acres.	17.7	18.1	18.5	16.9	19.8	26.0	18.1	16.2	16.6
Reclamation, irrigation	Mil. acres.	7.4	8.0	8.3	8.3	8.3	5.8	5.8	5.8	5.8
Power development	Mil. acres.	7.5	7.0	4.8	3.8	5.9	5.3	5.2	5.2	5.9
Air fields	Mil. acres.	2.1	1.5	1.5	1.5	1.2	1.0	1.0	1.0	0.9
	Mil. acres.	1.5	2.3	0.4	1.5	2.5	2.4	2.3	1.8	1.7

<sup>1</sup> Excludes data for Dept. of Defense military functions outside United States. <sup>2</sup> Includes other uses not shown separately.

Source: U.S. General Services Administration, *Inventory Report on Real Property Owned by the United States Throughout the World*, annual.

### No. 540. Public Lands—Disposal Transactions Leases, Permits and Licenses: 1980 to 1989

[For fiscal year ending in year shown; see text, section 9. Period figures are totals, not annual averages. See also *Historical Statistics, Colonial Times to 1970*, series J 10-15 and J 28-32]

ITEM	Unit	1980	1984	1985	1986	1987	1988	1989
Applications, entries, and selections allowed <sup>1</sup>	1,000 acres	1,167	1,835	1,404	4	1	1	1
Applications, entries, and selections approved	1,000 acres	176	4,837	6,491	683	1,812	1,387	579
Patents and certificates <sup>1</sup>	1,000 acres	2,495	1,449	4,217	3,704	3,000	5,419	780
Cash receipts, total <sup>2</sup>	Mil. dol.	5,079	7,914	6,939	5,864	5,014	4,698	
Mineral leases <sup>3</sup>	Mil. dol.	618	1,005	1,165	904	773	853	955
Outer Continental Shelf leases <sup>3</sup>	Mil. dol.	4,101	6,694	5,542	4,716	4,021	3,548	2,929
Timber sales	Mil. dol.	216	153	138	162	153	241	253
Public land, materials sales	Mil. dol.	8	14	12	14	8	7	15
Fees and commissions	Mil. dol.	29	2	2	2	2	3	3
Mineral class, total	Number	106,125	411,825	119,419	105,513	89,789	82,585	83,762
Leases	Number	105,963	117,849	119,101	105,226	89,546	82,450	83,656
Oil and gas <sup>5</sup>	Number	103,571	115,382	116,985	102,885	87,568	80,570	81,920
Coal <sup>6</sup>	Number	522	450	625	605	552	541	537
Other	Number	1,870	2,017	1,491	1,736	1,426	1,339	1,199
Permits <sup>7</sup>	Number	132	348	316	246	231	121	96
Licenses <sup>8</sup>	Number	30	57	2	41	12	14	10
Grazing leases <sup>9</sup>	Number	7,700	7,550	7,387	7,218	7,164	7,197	7,263
Permits <sup>9</sup>	Number	14,741	13,053	12,493	12,394	12,368	12,537	12,362

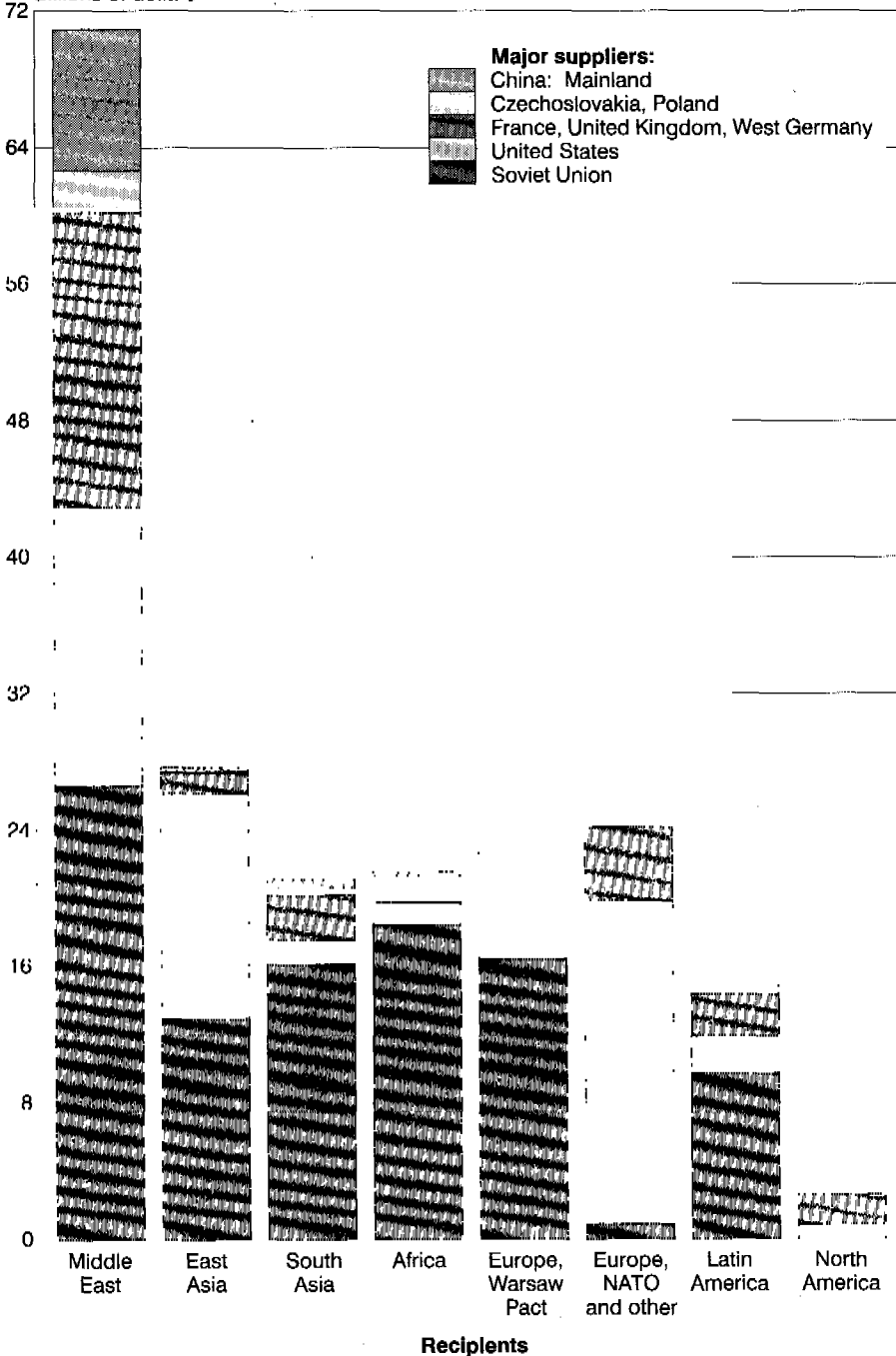
<sup>1</sup> Covers homestead, desert land, and mineral entries, public auction sales, Indian and State selections; and other disposal transaction; excludes Indian fee and reissue trusts and corrective patents. <sup>2</sup> Includes items not shown separately. <sup>3</sup> Source: Minerals Management Service, *Mineral Revenues*, annual through 1981; thereafter, *Budget Revenue Records*. <sup>4</sup> Includes miscellaneous nonenergy leases, permits, and licenses on acquired military and other Federal lands not separable by type. <sup>5</sup> For data on Outer Continental Shelf, see section 25. <sup>6</sup> Includes competitive, noncompetitive, preference right, and exchange leases beginning fiscal year 1985. <sup>7</sup> Does not include free-use permits for disposition of mineral materials (sand and gravel, top soil, quarry rock, etc.). <sup>8</sup> Beginning 1984, as of September 30. Lands outside grazing districts, which are owned, leased, or otherwise controlled by the United States and which are subject to leasing for grazing purposes. <sup>9</sup> Licenses and permits within grazing districts.

Source: Except as noted, U.S. Bureau of Land Management, *Public Land Statistics*, annual.

Figure 11.1

**Cummulative Arms Transfers: 1984-88**

Billions of dollars



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 550.



## Section 11

# National Defense and Veterans Affairs

This section presents data on national defense and its human and financial costs; active and reserve military personnel; ships, equipment and aircraft; and federally sponsored programs and benefits for veterans. The principal sources of these data are the annual *Selected Manpower Statistics* and the *Atlas/Data Abstract for the United States and Selected Areas* issued by the Office of the Secretary of Defense; *Annual Report of Secretary of Veterans Affairs, Department of Veterans Affairs*, and *The Budget of the United States Government*, Office of Management and Budget. For more data on expenditures, personnel, and ships, see section 31.

**Department of Defense (DOD).**—The Department of Defense is responsible for providing the military forces of the United States. It includes the Office of the Secretary of Defense, the Joint Chiefs of Staff, the Army, the Navy, the Air Force, and the defense agencies. The President serves as Commander in Chief of the Armed Forces; from him, the authority flows to the Secretary of Defense and through the Joint Chiefs of Staff to the commanders of unified and specified commands (e.g., Strategic Air Command).

**Reserve components.**—Reserve personnel of the Armed Forces consist of the Army National Guard, Army Reserve, Naval Reserve, Marine Corps Reserve, Air National Guard, Air Force Reserve, and Coast Guard Reserve. They provide trained personnel available for active duty in the Armed Forces in time of war or national emergency and at such other times as authorized by law.

The National Guard has dual Federal-State responsibilities and uses jointly provided equipment, facilities, and budget support. The President is empowered to mobilize the National Guard and to use such of the Armed Forces as he considers necessary to enforce Federal authority in any State.

The ready reserve includes selected reservists who are intended to assist active forces in a war and the individual ready reserve who, in a major war, would be used to fill out active and reserve units and later would be a source of combat replacements; a portion of the ready reserve serves in an active status. The standby reserve cannot be called to active duty unless the Congress gives explicit approval. The retired reserve represents a low potential for mobilization.

**Department of Veterans Affairs.**—The Department of Veterans Affairs administers laws authorizing benefits for eligible former and present members of the Armed Forces, and for the beneficiaries of deceased members. Veterans benefits available under various acts of Congress include compensation for service-connected disability or death; pensions for nonservice-connected disability or death; vocational rehabilitation, education, and training; home loan insurance; life insurance; health care; special housing and automobiles or other conveyances for certain disabled veterans; burial and plot allowances; and educational assistance to families of deceased or totally disabled veterans, servicemen missing in action, or prisoners of war. Since these benefits are legislated by Congress, the dates they were enacted and the dates they apply to veterans may be different from the actual dates the conflicts occurred.

VA estimates of veterans cover all persons with active duty service during periods of war or armed conflict and until 1982 include those living outside the United States. Veteran population estimates for September 1982 are for the 50 States, the District of Columbia and Puerto Rico. Veterans whose active duty service was entirely during periods of peacetime are eligible for some veterans benefits and, where appropriate, are included in VA estimates.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

## No. 541. National Defense Outlays and Veterans Benefits: 1960 to 1990

[For fiscal year ending in year shown; see text, section 9. Includes outlays of Department of Defense, Veterans Administration, and other agencies for activities primarily related to national defense and veterans programs. For explanation of average annual percent change, see Guide to Tabular Presentation. Minus sign (-) indicates decline. See *Historical Statistics, Colonial Times to 1970*, series Y 472, 473 and Y 476, for related data]

Year	NATIONAL DEFENSE AND VETERANS OUTLAYS				ANNUAL PERCENT CHANGE <sup>1</sup>				DEFENSE OUTLAYS, PERCENT OF—	
	Total outlays (bil. dol.)	Defense outlays		Veterans outlays (bil. dol.)	Total outlays	Defense outlays		Veterans outlays	Federal outlays	Gross national product <sup>2</sup>
		Current dollars (bil. dol.)	Constant (1982) dollars (bil. dol.)			Current dollars	Constant (1982) dollars			
1960	53.5	48.1	192.1	5.4	2.5	2.4	-1.9	3.1	52.2	8.5
1962	58.0	52.3	202.2	5.6	4.0	4.3	2.6	1.7	49.0	9.4
1963	58.9	53.4	197.1	5.5	1.6	2.0	-2.5	-1.9	48.0	9.1
1964	60.4	54.8	198.8	5.7	2.6	2.5	0.9	2.9	46.2	8.7
1965	56.3	50.6	181.4	5.7	6.8	-7.6	-8.8	0.7	42.8	7.5
1966	64.0	58.1	197.9	5.9	13.7	14.8	9.1	3.5	43.2	7.9
1967	78.2	71.4	235.1	6.7	22.1	22.9	18.8	13.8	45.4	9.0
1968	89.0	81.9	254.8	7.0	13.8	14.7	8.4	4.4	46.0	9.6
1969	90.1	82.5	243.4	7.6	1.3	0.7	-4.5	8.5	44.9	8.9
1970	90.4	81.7	225.6	8.7	0.3	-1.0	-7.3	13.6	41.8	8.3
1971	88.7	78.9	202.7	9.8	-1.9	-3.5	-10.2	12.7	37.5	7.5
1972	89.9	79.2	190.9	10.7	1.4	0.4	-5.8	9.8	34.3	6.9
1973	88.7	76.7	175.1	12.0	1.3	-3.1	-8.3	12.0	31.2	6.0
1974	92.7	79.3	163.3	13.4	4.6	3.5	-6.7	11.4	29.5	5.6
1975	103.1	86.5	159.8	16.6	11.2	9.0	-2.1	24.0	26.0	5.7
1976	108.1	89.6	153.6	18.4	4.8	3.6	-3.9	11.0	24.1	5.3
1976, TO <sup>3</sup>	26.2	22.3	37.1	4.0	(X)	(X)	(X)	(X)	23.2	5.0
1977	115.3	97.2	154.3	18.0	6.7	8.5	0.5	-2.1	23.8	5.0
1978	123.5	104.5	155.0	19.0	7.1	7.5	0.5	5.2	22.8	4.8
1979	136.3	116.3	159.1	19.9	10.4	11.3	2.6	5.0	23.1	4.8
1980	155.2	134.0	164.0	21.2	13.9	15.2	3.1	6.3	22.7	5.0
1981	180.5	157.5	171.4	23.0	16.3	17.6	4.5	8.5	23.2	5.3
1982	209.3	185.3	185.3	24.0	15.9	17.6	8.1	4.2	24.9	5.9
1983	234.7	209.9	201.3	24.8	12.1	13.3	8.6	3.3	26.0	6.3
1984	253.0	227.4	211.3	25.6	7.8	8.3	5.0	3.2	26.7	6.2
1985	279.0	252.7	230.0	26.3	10.3	11.1	8.8	2.7	26.7	6.4
1986	299.7	273.4	244.0	26.4	7.4	8.2	6.1	0.4	27.6	6.5
1987	308.8	282.0	251.0	26.8	3.0	3.1	2.9	1.5	28.1	6.4
1988	319.8	290.4	252.8	29.4	3.6	3.0	0.7	9.7	27.3	6.1
1989	333.7	303.6	256.6	30.1	4.3	4.5	1.5	2.4	26.2	5.9
1990, final	328.4	299.3	247.0	29.1	-1.6	-1.4	-3.7	-3.3	23.9	5.5

X Not applicable. <sup>1</sup> Change from prior year shown; for 1960, change from 1955. <sup>2</sup> Represents fiscal year GNP; for definition, see text, section 14. <sup>3</sup> Transition quarter, July-Sept.

Source: U.S. Office of Management and Budget, *Budget of the United States Government*, annual.

## No. 542. Federal Budget Outlays for National Defense Functions: 1970 to 1990

[In billions of dollars, except percent. For fiscal year ending in year shown; see text, section 9. Minus sign (-) indicates decline. See *Historical Statistics, Colonial Times to 1970*, series Y 473, for total]

DEFENSE FUNCTION	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990, est.
Total	81.7	134.0	157.5	185.3	209.9	227.4	252.7	273.4	282.0	290.4	303.6	296.3
Percent change <sup>1</sup>	10.1	15.2	17.6	17.6	13.3	8.3	11.1	8.2	3.1	3.0	4.5	-2.4
Defense Dept., military	80.1	130.9	153.9	180.7	204.4	220.9	245.2	265.5	274.0	281.9	294.9	286.8
Military personnel	29.0	40.9	47.9	55.2	60.9	64.2	67.8	71.5	72.0	76.3	80.7	75.3
Percent of military	36.2	31.2	31.2	30.5	29.8	29.0	27.7	26.9	26.3	27.1	27.0	26.3
Operation, maintenance	21.6	44.8	51.9	59.7	64.9	67.4	72.4	75.3	76.2	84.5	87.0	86.1
Procurement	21.6	29.0	35.2	43.3	53.6	61.9	70.4	76.5	80.7	77.2	81.6	80.9
Research and development	7.2	13.1	15.3	17.7	20.6	23.1	27.1	32.3	33.6	34.8	37.0	36.5
Military construction	1.2	2.5	2.5	2.9	3.5	3.7	4.3	5.1	5.9	5.9	5.3	5.4
Family housing	0.6	1.7	1.7	2.0	2.1	2.4	2.6	2.8	2.9	3.1	3.3	3.4
Other <sup>2</sup>	-1.1	-1.1	-0.6	-0.1	-1.2	-1.7	0.6	2.0	2.6	0.2	0.1	-0.9
Atomic energy activities <sup>3</sup>	1.4	2.9	3.4	4.3	5.2	6.1	7.1	7.4	7.5	7.9	7.9	8.9
Defense-related activities <sup>4</sup>	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.5	0.5	0.6

<sup>1</sup> Change from immediate prior year; for 1970, change from 1965. <sup>2</sup> Revolving and management funds, trust funds, special foreign currency program, allowances, and offsetting receipts. <sup>3</sup> Defense activities only. <sup>4</sup> Includes civil defense activities.

Source: U.S. Office of Management and Budget, *Budget of the United States Government*, annual.

**No. 543. National Defense—Funds Available and Outlays: 1975 to 1990**

[In billions of dollars, except percent. For fiscal year ending in year shown, except as noted; see text, section 9. See *Historical Statistics, Colonial Times to 1970*, series Y 458-460 for outlays]

ITEM	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990, est.
<b>Funds available</b>	<b>102.7</b>	<b>167.1</b>	<b>204.7</b>	<b>243.5</b>	<b>280.1</b>	<b>309.2</b>	<b>346.9</b>	<b>351.2</b>	<b>347.9</b>	<b>320.1</b>	<b>328.1</b>	<b>328.0</b>
Budget authority	87.6	143.9	180.0	216.5	245.0	265.2	294.7	289.1	287.4	292.0	299.6	301.6
Department of Defense-Military	85.8	140.6	176.1	211.5	238.9	258.2	286.8	281.4	279.5	283.8	290.8	291.4
Atomic energy	1.8	3.2	3.9	5.1	6.2	7.0	7.8	7.7	8.0	8.3	8.7	10.3
Unobligated balances	15.1	23.3	24.7	27.0	35.1	44.0	52.2	62.1	60.4	42.8	41.7	(NA)
Department of Defense-Military	15.1	23.0	24.2	26.5	34.6	43.4	51.6	61.5	60.0	42.3	41.2	(NA)
Atomic energy	(NA)	0.3	0.5	0.5	0.6	0.6	0.6	0.6	0.4	0.5	0.5	(NA)
<b>Outlays (Defense)</b>	<b>86.5</b>	<b>134.0</b>	<b>157.5</b>	<b>185.3</b>	<b>209.9</b>	<b>227.4</b>	<b>252.7</b>	<b>273.4</b>	<b>282.0</b>	<b>290.4</b>	<b>303.6</b>	<b>296.3</b>
Percent of funds available	84.2	80.2	76.9	76.1	74.9	73.6	72.9	77.8	81.1	90.7	90.9	(NA)
Department of Defense-Military	84.9	130.9	153.9	180.7	204.4	220.9	245.2	265.5	274.0	281.9	294.9	286.6
Atomic energy	1.7	3.1	3.6	4.6	5.5	6.5	7.6	7.9	8.0	8.4	8.7	9.551

NA Not available. <sup>1</sup> Includes defense budget authority, balances, and outlays by other departments. <sup>2</sup> Excluding accruals. <sup>3</sup> Includes other defense related activities. <sup>4</sup> Start of year.

Source: U.S. Office of Management and Budget, *Budget of the United States Government*, annual.

**No. 544. National Defense—Military Budget Authority, by Major Mission: 1975 to 1989**

[In billions of dollars. For fiscal year ending in year shown; see text, section 9. Detail may not add to total because of revisions to total and not to detail]

MISSION	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989, est.
<b>Total</b>	<b>87.6</b>	<b>143.9</b>	<b>216.5</b>	<b>245.0</b>	<b>265.2</b>	<b>294.7</b>	<b>289.1</b>	<b>287.4</b>	<b>283.8</b>	<b>290.2</b>
General purpose	28.1	52.2	88.1	98.8	100.7	118.4	116.2	114.9	114.9	112.8
Training, medical	20.0	29.2	39.6	42.2	43.3	33.6	33.6	35.5	37.3	38.5
Research and development	7.7	11.9	16.9	18.7	21.5	24.4	26.7	27.5	28.4	29.1
Intelligence and communications	6.3	9.1	13.9	17.3	20.0	25.1	26.4	27.7	28.3	29.6
Strategic forces	7.2	11.1	15.3	19.7	26.1	27.4	24.2	21.1	19.8	21.2
Central supply and maintenance	9.1	16.0	21.1	21.6	23.4	26.7	24.4	22.7	24.3	25.3
Guard and reserve	4.8	7.9	10.6	12.1	12.2	15.8	15.6	15.7	16.9	17.2
Airlift and sealift	0.9	2.1	4.0	4.3	5.5	8.7	7.8	7.1	4.4	5.4
Admin. and assoc. activities	2.0	2.5	3.6	4.1	4.8	6.1	7.1	6.6	6.7	6.9
Support of other nations	1.8	0.8	0.9	0.7	0.7	0.6	0.5	0.7	0.8	1.0

Source: U.S. Office of Management and Budget, *Budget of the United States Government*, annual.

**No. 545. Employment—Defense-Related Agencies: 1970 to 1988**

[In thousands, except percent. Annual averages]

EMPLOYMENT	1970	1980	1982	1983	1984	1985	1986	1987	1988
<b>Total U.S. employment</b>	<b>80,796</b>	<b>100,907</b>	<b>101,194</b>	<b>102,510</b>	<b>106,702</b>	<b>108,858</b>	<b>111,303</b>	<b>114,177</b>	<b>116,677</b>
<b>Federal</b>	<b>4,763</b>	<b>4,386</b>	<b>4,401</b>	<b>4,430</b>	<b>4,521</b>	<b>4,608</b>	<b>4,601</b>	<b>4,709</b>	<b>4,690</b>
Resident Armed Forces	2,118	1,604	1,668	1,676	1,697	1,706	1,706	1,737	1,709
Civilian personnel	2,645	2,782	2,733	2,754	2,824	2,902	2,895	2,972	2,981
<b>Federal defense-related agencies, excluding Armed Forces</b>	<b>1,211</b>	<b>948</b>	<b>979</b>	<b>1,016</b>	<b>1,033</b>	<b>1,073</b>	<b>1,059</b>	<b>1,079</b>	<b>1,041</b>
Percent of Federal civilian personnel	44.3	33.1	35.7	36.6	36.8	37.3	36.5	36.3	34.9
<b>Federal defense-related agencies</b>	<b>3,329</b>	<b>2,552</b>	<b>2,647</b>	<b>2,692</b>	<b>2,730</b>	<b>2,779</b>	<b>2,765</b>	<b>2,816</b>	<b>2,750</b>
Percent of total Federal	68.7	57.1	60.1	60.5	60.6	60.7	60.0	59.8	58.6
Percent of total U.S.	4.1	2.5	2.6	2.6	2.6	2.6	2.5	2.5	2.4

<sup>1</sup> Includes resident Armed Forces. <sup>2</sup> See table 532. <sup>3</sup> Source: Beginning 1980, U.S. Dept. of Defense, *Civilian Manpower Statistics*, annual (Sept. issues).

Source: Except as noted, U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

**No. 546. Military Prime Contract Awards to All Businesses, by Program: 1980 to 1989**

[In billions of dollars. Net values for fiscal year ending in year shown; see text, section 9. Includes all new prime contracts; debit or credit changes in contracts are also included. Actions cover official awards, amendments, or other changes in prime contracts to obtain military supplies, services, or construction. Excludes term contracts and contracts which do not obligate a firm total dollar amount or fixed quantity, but includes job orders, task orders, and delivery orders against such contracts]

DOD PROCUREMENT PROGRAM	1980	1982	1983	1984	1985	1986	1987	1988	1989
Total	83.7	124.7	140.5	146.0	163.7	158.8	156.5	151.4	139.3
Intragovernmental	10.2	12.8	9.9	10.1	12.4	9.9	8.8	8.9	9.6
For work outside the U.S.	5.4	7.5	7.2	8.3	8.6	9.1	8.9	8.2	6.4
Educ. and non-profit institutions	1.5	2.0	2.2	2.7	3.1	3.4	3.5	3.5	3.3
With business firms for work in the U.S.	66.7	102.5	121.1	124.9	139.6	136.5	135.3	130.8	120.0
Major hard goods	41.0	67.9	80.8	86.3	98.1	92.8	93.0	85.9	79.9
Aircraft	12.5	21.1	26.3	29.2	34.6	32.3	27.7	25.0	24.2
Electronics and communication equip.	9.8	14.2	16.7	19.7	22.0	19.7	22.6	17.8	18.1
Missiles and space systems	7.9	12.7	14.7	16.7	18.7	19.4	19.8	19.7	18.7
Ships	6.0	9.6	12.8	9.4	10.4	9.4	11.5	13.7	9.6
Tanks, ammo. and weapons	5.1	10.3	10.3	11.4	12.5	12.0	11.6	9.7	9.2
Services	5.9	7.9	10.4	8.5	9.1	10.4	11.0	12.0	11.7

<sup>1</sup> Covers only purchases from other Federal agencies and reimbursable purchases on behalf of foreign governments.

<sup>2</sup> Includes Department of Defense. Includes other business not shown separately. Contracts awarded for work in U.S. possessions, and other areas subject to complete sovereignty of U.S.; contracts in a classified location; and any intragovernmental contracts entered into overseas.

Source: U.S. Dept. of Defense, *Prime Contract Awards*, semiannual.

**No. 547. DOD Contract Awards—Summary: 1989**

[For years ending Sept. 30. Contracts refer to awards made in year specified; expenditures relating to awards may extend over several years. **Civilian employees** include United States citizen and foreign national direct hire civilians and civilian personnel involved in civil functions in the United States. Excludes indirect hire civilians and those direct hire civilians not subject to OMB ceiling controls. **Military personnel** include active duty personnel based ashore. Excludes personnel temporarily shore-based in a transient status, or afloat. **Payroll outlays** include the gross earnings of civilian and active duty military personnel for services rendered to the government and for cash allowances for benefits. Excludes employer's share of employee benefits, accrued military retirement benefits and most permanent change of station costs]

STATE	Contract awards <sup>1</sup> (mil. dol.)	Payroll (mil. dol.)	PERSONNEL (1,000)		STATE	Contract awards (mil. dol.)	Payroll (mil. dol.)	PERSONNEL (1,000)	
			Civilian	Military				Civilian	Military
<b>U.S. ....</b>	<b>119,917</b>	<b>66,180</b>	<b>964.6</b>	<b>1,342.1</b>	DC .....	1,236	951	17.9	13.6
<b>Northeast. ....</b>	<b>29,042</b>	<b>6,242</b>	<b>128.5</b>	<b>82.6</b>	VA .....	5,897	7,634	111.7	96.2
N.E. ....	16,268	2,044	34.9	29.7	WV .....	163	58	2.0	0.4
ME. ....	370	490	10.7	5.6	NC .....	1,104	2,673	15.5	92.3
NH. ....	478	145	1.8	3.6	SC .....	568	1,912	20.7	41.6
VT. ....	163	20	0.6	0.1	GA .....	1,864	2,762	39.9	63.3
MA. ....	8,757	650	12.2	9.7	FL .....	4,452	3,246	33.8	77.8
RI. ....	417	287	4.5	4.1	E.S.C. ....	4,078	3,907	60.6	84.7
CT. ....	6,082	452	5.0	6.7	KY .....	333	1,444	14.0	38.8
M.A. ....	12,774	4,197	93.6	52.9	TN .....	1,118	393	7.7	9.9
NY. ....	6,552	1,293	20.2	28.9	AL .....	1,392	1,378	25.7	21.2
NJ. ....	3,393	1,205	21.5	18.0	MS. ....	1,235	692	13.3	14.7
PA. ....	2,828	1,699	52.0	6.0	W.S.C. ....	11,985	7,527	100.3	189.4
<b>Midwest. ....</b>	<b>20,277</b>	<b>6,924</b>	<b>135.9</b>	<b>136.2</b>	AR .....	370	336	5.2	9.0
E.N.C. ....	10,428	3,996	89.6	65.2	LA .....	1,693	925	8.5	25.3
OH. ....	5,069	1,434	35.8	11.7	OK .....	659	1,358	24.4	28.2
IN. ....	1,763	597	15.7	5.7	TX .....	9,263	4,908	62.3	127.0
IL. ....	1,249	1,290	21.7	38.3	<b>West</b> .....	<b>35,208</b>	<b>19,923</b>	<b>252.2</b>	<b>422.9</b>
MI. ....	1,266	557	13.1	8.6	Mt. ....	7,835	4,337	62.8	110.9
WI. ....	1,081	118	3.3	0.9	MT. ....	81	131	1.4	4.6
W.N.C. ....	9,848	2,928	46.3	71.1	ID .....	75	147	1.3	5.2
MN. ....	1,774	109	3.6	0.8	WY. ....	67	117	1.2	3.8
IA. ....	426	47	1.5	0.4	CO .....	2,928	1,362	14.4	40.0
MO. ....	6,283	1,053	23.5	16.8	NM. ....	625	840	9.2	15.0
ND. ....	122	276	1.9	10.8	AZ .....	2,847	894	11.2	26.2
SD. ....	67	182	1.5	7.0	UT .....	983	768	22.0	5.8
NE. ....	222	457	4.8	13.1	NV .....	230	281	2.2	10.3
KS. ....	955	803	9.5	22.3	Pac. ....	27,373	15,586	189.5	312.0
<b>South. ....</b>	<b>35,390</b>	<b>33,092</b>	<b>448.0</b>	<b>700.4</b>	WA .....	2,951	2,172	29.4	40.5
S.A. ....	19,327	21,658	287.0	426.4	OR .....	179	121	3.2	0.7
DE. ....	171	143	1.8	4.6	CA .....	23,125	10,529	131.5	204.2
MD. ....	3,871	2,277	43.7	36.6	AK .....	540	761	5.1	22.8
					HI .....	579	2,002	20.2	43.8

<sup>1</sup> Military awards for supplies, services, and construction. Net value of contracts of over \$25,000 for work in each State and D.C. Figures reflect impact of prime contracting on State distribution of defense work. Often the State in which a prime contractor is located is not the State where the subcontracted work is done. See also headnote, table 546. Undistributed civilians and military personnel, their payrolls and prime contract awards for performance in classified locations are excluded.

Source: U.S. Dept. of Defense, *Atlas/Data Abstract for the United States and Selected Areas*, annual.

## No. 548. Worldwide Military Expenditures: 1980 to 1988

[For military expenditures and Armed Forces by country, see section 31. GNP = Gross national product]

COUNTRY GROUP	MILITARY EXPENDITURES (bil. dol.)									PER CAPITA (dol.)	
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1980	1988
<b>CURRENT DOLLARS</b>											
<b>Worldwide, total</b> <sup>1</sup>	<b>636</b>	<b>719</b>	<b>804</b>	<b>857</b>	<b>910</b>	<b>963</b>	<b>990</b>	<b>1,034</b>	<b>1,032</b>	<b>202</b>	<b>202</b>
United States	144	170	196	217	237	266	281	296	308	894	1,250
Percent of total	22.7	23.6	24.4	25.3	26.1	27.6	28.3	28.6	29.8	(X)	(X)
Developed countries <sup>2</sup>	705	725	759	786	807	842	857	876	865	650	754
Developing countries <sup>2</sup>	195	203	216	215	217	211	198	192	167	58	42
NATO countries <sup>3</sup>	345	363	387	406	421	447	456	466	467	597	763
Warsaw Pact countries	330	333	343	348	353	360	365	372	359	879	898
Soviet Union	280	283	289	293	297	303	306	313	300	1,053	1,047
<b>CONSTANT (1988) DOLLARS</b>											
<b>Worldwide, total</b>	<b>899</b>	<b>928</b>	<b>975</b>	<b>1,001</b>	<b>1,024</b>	<b>1,053</b>	<b>1,055</b>	<b>1,068</b>	<b>1,032</b>	<b>202</b>	<b>202</b>
United States	204	219	238	254	267	291	299	306	308	894	1,250
Percent of total	22.6	23.6	24.4	25.3	26.0	27.6	28.4	28.6	29.8	(X)	(X)
Developed countries <sup>2</sup>	705	725	759	786	807	842	857	876	865	650	754
Developing countries <sup>2</sup>	195	203	216	215	217	211	198	192	167	58	42
NATO countries <sup>3</sup>	345	363	387	406	421	447	456	466	467	597	763
Warsaw Pact countries	330	333	343	348	353	360	365	372	359	879	898
Soviet Union	280	283	289	293	297	303	306	313	300	1,053	1,047
<b>PERCENT OF GNP</b>											
<b>Worldwide, total</b>	<b>5.3</b>	<b>5.4</b>	<b>5.7</b>	<b>5.7</b>	<b>5.6</b>	<b>5.6</b>	<b>5.5</b>	<b>5.4</b>	<b>5.0</b>	<b>(X)</b>	<b>(X)</b>
United States	5.3	5.6	6.2	6.4	6.3	6.6	6.6	6.5	6.3	(X)	(X)
Developed countries <sup>2</sup>	5.2	5.2	5.5	5.5	5.4	5.5	5.5	5.4	5.2	(X)	(X)
Developing countries <sup>2</sup>	6.1	6.3	6.7	6.5	6.4	6.0	5.5	5.2	4.3	(X)	(X)
NATO countries <sup>3</sup>	4.3	4.5	4.8	4.9	4.9	5.0	5.0	4.9	4.8	(X)	(X)
Warsaw Pact countries <sup>4</sup>	11.6	11.6	11.7	11.6	11.8	11.8	11.6	11.6	11.0	(X)	(X)
Soviet Union	12.9	12.9	12.9	12.8	12.8	12.9	12.6	12.7	11.9	(X)	(X)

X Not applicable. <sup>1</sup> Includes countries not shown separately. <sup>2</sup> Twenty-eight developed countries; see table 549 for selected countries; for complete list see source. <sup>3</sup> North Atlantic Treaty Organization. <sup>4</sup> The meaning of the ratio of military expenditures to GNP differs somewhat between most Communist countries and non-Communist countries because of different estimating procedures. For details, see source.

## No. 549. Arms Trade in Constant (1988) Dollars—Selected Countries: 1986 to 1988

[In millions of dollars, except percent. Because some countries exclude arms imports or exports from their trade statistics and their "total" imports and exports are therefore understated and because arms transfers maybe estimated independently of trade data, the ratio of arms to total imports or exports maybe overstated and may even exceed 100 percent]

COUNTRY	1986	1987	1988		COUNTRY	1986	1987	1988	
			Total	Arms imports as percent of total imports				Total	Arms imports as percent of total imports
<b>World total</b> <sup>1</sup>	<b>49,110</b>	<b>55,950</b>	<b>48,610</b>	<b>(NA)</b>	<b>RECIPIENTS</b>	<b>37,700</b>	<b>45,200</b>	<b>37,810</b>	<b>5.6</b>
<b>EXPORTERS</b>					<b>Developing</b> <sup>1</sup>	<b>1,385</b>	<b>1,446</b>	<b>2,600</b>	<b>288.9</b>
Canada	149	165	180	0.2	Afghanistan	639	594	825	10.6
China: Mainland	1,279	2,376	3,100	0.5	Algeria	1,385	1,653	1,600	(NA)
Czechoslovakia	1,385	1,240	850	0.8	Angola	32	62	20	0.4
France	4,582	2,789	1,890	0.1	Argentina	1,705	1,859	1,700	22.4
Poland	1,492	1,240	675	3.8	Cuba	1,172	1,549	725	3.1
Soviet Union	22,380	23,040	21,400	0.1	Egypt	85	52	60	(NA)
United Kingdom	1,598	2,169	725	0.3	El Salvador	352	1,033	725	80.6
United States	9,803	14,770	14,300	0.2	Ethiopia	170	289	575	4.7
West Germany	852	1,890	360	0.4	Greece	3,197	3,512	3,200	16.7
<b>IMPORTERS</b>					India	2,451	1,519	2,000	18.2
<b>Developed</b> <sup>1</sup>	<b>11,410</b>	<b>10,740</b>	<b>10,800</b>	<b>0.5</b>	Iran	6,074	5,681	4,600	37.1
Australia	1,066	749	1,300	3.6	Iraq	533	1,859	1,900	12.6
Canada	139	176	210	0.2	Israel	277	362	320	11.6
Czechoslovakia	1,172	956	210	0.8	Jordan	139	145	190	3.6
East Germany	1,066	320	875	(NA)	Kuwait	1,385	646	575	11.5
Hungary	192	413	60	0.3	Libya	96	413	90	1.9
Italy	234	207	270	0.2	Morocco	639	516	525	65.6
Japan	852	981	1,100	0.6	Nicaragua	448	434	1,000	32.3
Poland	1,279	852	1,000	3.8	North Korea	107	103	30	1.4
Romania	533	124	20	(NA)	Oman	320	320	340	5.2
Soviet Union	1,279	1,240	1,100	1.0	Pakistan	160	444	30	1.0
United Kingdom	719	568	625	0.3	Peru	4,049	5,681	3,000	14.9
United States	440	625	646	0.2	Saudi Arabia	586	646	600	1.2
West Germany	373	754	900	0.4	South Korea	352	1,007	900	1.5
					Spain	1,279	1,963	1,300	58.5
					Syria	639	981	775	5.4
					Turkey	107	103	60	0.5
					Venezuela	2,238	1,963	1,500	(NA)
					Vietnam	298	403	400	28.6
					Yemen (Sanaa)				

NA Not available. <sup>1</sup> Includes countries not shown separately.  
Source of tables 548 and 549: U.S. Arms Control and Disarmament Agency, *World Military Expenditures and Arms Transfers*, annual.

# No. 550. Arms Transfers—Cumulative Value for Period 1984-1988, by Major Supplier and Recipient Country

[In millions of dollars]

RECIPIENT	Total <sup>1</sup>	SUPPLIER							
		Soviet Union	United States	France	United Kingdom	West Germany	China: Mainland	Poland	Czechoslovakia
<b>World, total <sup>1</sup></b>	<b>248,370</b>	<b>101,240</b>	<b>59,500</b>	<b>18,105</b>	<b>9,335</b>	<b>7,255</b>	<b>6,725</b>	<b>5,315</b>	<b>5,600</b>
NATO	24,135	90	17,415	855	-	1,700	1,970	20	-
Warsaw Pact	24,675	16,425	-	30	-	-	20	2,440	3,870
OPEC	75,345	21,735	7,460	12,095	7,820	3,200	920	2,140	805
<b>Africa</b>	<b>28,035</b>	<b>18,460</b>	<b>1,290</b>	<b>1,285</b>	<b>260</b>	<b>635</b>	<b>125</b>	<b>1,430</b>	<b>85</b>
Algeria	3,270	2,500	100	50	-	140	-	410	5
Angola	6,865	6,100	-	80	-	-	-	-	50
Ethiopia	4,100	3,900	-	-	20	-	-	20	-
Libya	6,315	3,600	-	60	10	-	30	925	30
Morocco	890	-	280	250	20	-	-	-	-
Mozambique	1,130	1,100	-	5	-	5	-	-	-
Nigeria	1,325	30	130	150	5	340	50	60	-
Sudan	350	-	120	30	30	10	-	-	-
<b>East Asia</b>	<b>31,490</b>	<b>12,950</b>	<b>13,220</b>	<b>270</b>	<b>275</b>	<b>500</b>	<b>440</b>	-	<b>90</b>
China: Mainland	2,465	525	230	100	-	200	60	-	-
Taiwan	3,885	-	3,000	10	-	-	-	-	-
North Korea	2,370	2,200	-	20	50	-	-	-	30
Malaysia	1,040	-	280	-	-	10	190	-	-
South Korea	2,570	-	2,500	10	-	40	-	-	-
Thailand	1,490	-	1,000	-	220	30	110	-	-
Vietnam	8,580	8,500	-	-	-	-	-	-	-
<b>South Asia</b>	<b>22,035</b>	<b>16,130</b>	<b>1,420</b>	<b>1,920</b>	<b>530</b>	<b>310</b>	<b>420</b>	<b>100</b>	<b>320</b>
Afghanistan	6,540	6,500	-	-	-	-	-	-	-
India	13,120	9,800	200	1,900	-	260	420	50	320
Pakistan	2,010	-	1,200	20	330	30	-	20	-
<b>Europe, NATO</b>	<b>19,270</b>	<b>90</b>	<b>15,485</b>	<b>845</b>	-	<b>600</b>	<b>1,320</b>	<b>20</b>	-
Belgium	1,610	-	1,600	-	-	-	-	-	-
Denmark	550	-	450	20	-	50	-	-	-
France	890	-	800	-	-	10	-	-	-
Greece	1,560	90	700	490	-	-	160	20	-
Italy	1,120	-	1,100	-	-	-	-	-	-
Netherlands	2,540	-	2,100	-	-	10	410	-	-
Norway	1,045	-	675	10	-	-	70	-	-
Turkey	3,230	-	2,000	20	-	470	650	-	-
United Kingdom	3,320	-	3,300	-	-	-	-	-	-
West Germany	3,020	-	2,500	280	-	60	-	-	-
<b>Europe, Warsaw Pact</b>	<b>24,675</b>	<b>16,425</b>	-	<b>30</b>	-	-	<b>20</b>	<b>2,440</b>	<b>3,870</b>
Bulgaria	4,040	3,500	-	-	-	-	20	40	460
Czechoslovakia	3,880	3,700	-	-	-	-	-	30	30
East Germany	4,600	3,600	-	-	-	-	-	30	700
Hungary	960	600	-	-	-	-	-	130	180
Poland	4,600	4,300	-	-	-	-	-	290	-
Soviet Union	5,780	-	-	-	-	-	-	1,900	2,500
<b>Europe, other</b>	<b>6,550</b>	<b>815</b>	<b>3,495</b>	<b>130</b>	-	<b>610</b>	<b>820</b>	-	-
Spain	2,430	-	2,100	80	-	30	10	-	-
Sweden	480	-	430	-	-	-	10	-	-
Switzerland	2,215	-	675	-	-	500	800	-	-
Yugoslavia	815	675	130	-	-	-	-	-	-
<b>Latin America</b>	<b>17,815</b>	<b>9,730</b>	<b>2,170</b>	<b>825</b>	-	<b>145</b>	<b>1,480</b>	<b>380</b>	<b>135</b>
Argentina	750	-	70	5	-	-	575	-	-
Chile	340	-	10	70	-	60	130	-	-
Colombia	820	-	120	-	-	-	650	-	-
Cuba	8,830	7,400	-	-	-	-	-	350	130
Ecuador	370	-	80	100	-	-	-	-	-
Peru	860	220	110	340	-	70	-	-	-
Venezuela	1,180	-	575	30	-	-	-	-	5
<b>Middle East</b>	<b>89,065</b>	<b>26,640</b>	<b>16,300</b>	<b>12,750</b>	<b>8,270</b>	<b>3,155</b>	<b>1,360</b>	<b>1,370</b>	<b>1,100</b>
Egypt	6,425	460	2,800	825	450	170	50	-	-
Iran	10,520	5	10	100	2,500	100	10	70	20
Iraq	29,650	15,400	-	3,100	2,800	30	675	675	750
Israel	6,100	-	6,100	-	-	-	-	-	-
Jordan	1,730	875	480	120	-	110	5	-	-
Kuwait	1,325	180	210	525	-	110	150	-	-
Saudi Arabia	19,530	5,800	7,500	2,500	2,100	-	-	-	-
Syria	8,255	6,900	-	20	20	-	10	625	330
Yemen (Sanaa)	1,420	1,300	30	-	-	5	-	-	-
<b>North America</b>	<b>3,765</b>	-	<b>850</b>	<b>10</b>	-	<b>1,100</b>	<b>650</b>	-	-
Canada	910	-	850	-	-	-	-	-	-
United States	2,855	-	-	10	-	1,100	650	-	-

- Represents zero. <sup>1</sup> Includes countries not shown separately.Source: U.S. Arms Control and Disarmament Agency, *World Military Expenditures and Arms Transfers*, annual.



**No. 551. Arms Delivered, by Selected Supplier and Major Weapon Type: 1984-88**

[The suppliers included are the five largest single exporters of major weapons in terms of magnitude of deliveries as well as other countries of the two major alliances; excluded are Albania, Bulgaria, Greece, Malta, Spain, Turkey, and Yugoslavia]

TYPE OF WEAPON	Total <sup>1</sup>	Soviet Union	Other Warsaw Pact	United States <sup>2</sup>	France	United Kingdom	Other NATO	China: Mainland
<b>Land armaments:</b> Tanks . . . . .	7,287	3,680	885	848	85	130	62	1,245
Anti-air artillery . . . . .	2,765	1,215	114	44	25	36	118	830
Field artillery . . . . .	9,586	3,590	85	812	209	4	1,243	1,411
Armored personnel carriers . . . . .	14,884	7,455	1,690	1,338	910	44	915	1,410
<b>Naval craft:</b> Major surface combatants <sup>5</sup>	80	26	4	1	7	13	21	2
Other surface combatants <sup>6</sup>	507	108	2	22	18	40	22	17
Submarines . . . . .	27	11	-	-	-	-	13	2
Missile attack boats . . . . .	27	4	-	-	1	-	8	14
<b>Aircraft:</b> Combat aircraft (supersonic) . . . . .	1,737	1,035	-	372	146	62	-	75
Combat aircraft (subsonic) . . . . .	402	123	-	143	18	70	-	44
Other aircraft <sup>7</sup> . . . . .	1,537	430	154	167	73	21	252	28
Helicopters . . . . .	1,652	950	39	206	284	11	85	-
Missiles (surface-to-air) . . . . .	28,018	16,480	5,100	1,707	1,082	550	84	735

- Represents zero. <sup>1</sup> Includes other countries not shown separately. <sup>2</sup> United States data are by fiscal years, while other suppliers' data are by calendar years. <sup>3</sup> Includes weapons over 23 millimeters. <sup>4</sup> Includes mobile rocket launchers, mortars, and recoilless rifles over 100 millimeters. <sup>5</sup> Includes aircraft carriers, cruisers, destroyers, destroyer escorts, and frigates. <sup>6</sup> Includes motor torpedo boats, subchasers, and minesweepers. <sup>7</sup> Includes reconnaissance aircraft, trainers, transports, and utility aircraft.

Source: U.S. Arms Control and Disarmament Agency, *World Military Expenditures and Arms Transfers*, annual.

**No. 552. Estimates of Total Dollar Costs of American Wars**

[In millions of dollars, except percent. Service-connected veterans' benefits estimated at 40 percent of total veterans benefits, except as noted]

ITEM	World War II	Vietnam Conflict	Korean Conflict	World War I	Civil War: Union	Civil War: Confederacy	Spanish American War	American Revolution	War of 1812	Mexican War
Original incremental, direct costs: <sup>1</sup>										
Current dollars . . . . .	380,000	140,600	50,000	32,700	2,300	1,000	270	100-140	89	82
Constant (1967) dollars . . . . .	816,300	148,800	69,300	100,000	8,500	3,700	1,100	400-680	170	300
Percent 1 year's GNP . . . . .	188	14	15	43	74	123	2	104	14	4
Service-connected benefits <sup>2</sup> . . . . .	96,666	32,288	19,512	19,580	3,290	-	2,111	28	20	26
Interest, pmts. on war loans <sup>3</sup> . . . . .	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	11,000	1,200	( <sup>4</sup> )	60	20	14	10
Current cost to 1988 <sup>5</sup> . . . . .	456,666	172,288	69,512	63,280	6,790	( <sup>4</sup> )	2,441	170	120	120

- Represents zero. <sup>1</sup> Figures are rounded and taken from Claudia D. Goldin, *Encyclopedia of American Economic History*, p. 938. <sup>2</sup> Total cost to Oct. 1, 1988. For World War I and later wars, benefits are actual service-connected figures from Annual Report of Veterans Administration. For earlier wars, service-connected veterans' benefits are estimated at 40 percent of total, the approximate ratio of service-connected to total benefits since World War I. <sup>3</sup> Total cost to 1986. Interest payments are a very rough approximation based on the percentage of the original costs of each war financed by money creation and debt, the difference between the level of public debt at the beginning of the war and at its end, and the approximate time required to pay off the war debts. <sup>4</sup> Unknown. <sup>5</sup> Figures are rounded estimates.

Source: Originally presented in U.S. Congress, Joint Economic Committee, *The Military Budget and National Economic Priorities*, Part 1, 91st Congress, 1st session (Statement of James L. Clayton); subsequently revised and updated by James L. Clayton, University of Utah, Salt Lake City, Utah.

**No. 553. U.S. Military Sales and Assistance to Foreign Governments: 1950 to 1989**

[In millions of dollars, except as indicated. For fiscal year ending in year shown; see text section 9. Department of Defense (DOD) sales deliveries cover deliveries against DOD sales orders authorized under Arms Export Control Act, as well as earlier and applicable legislation. For details regarding individual programs, see source]

ITEM	1950-1979 <sup>1</sup>	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Military sales agreements . . . . .	71,965	12,431	6,409	16,824	14,560	13,350	10,678	6,732	6,834	12,094	10,864
Weapons and ammunition . . . . .	30,568	6,313	1,889	6,750	7,748	6,232	3,500	2,282	1,866	5,217	4,400
Support equipment <sup>2</sup> . . . . .	9,477	848	944	3,645	1,061	1,921	1,733	674	793	1,024	1,082
Spare parts and modifications . . . . .	16,296	1,572	2,266	3,365	3,086	2,611	2,372	1,617	1,757	3,159	2,517
Support services . . . . .	15,624	3,698	1,310	3,064	2,665	2,586	3,073	2,159	2,418	2,694	2,865
Military construction sales agreements . . . . .	12,091	1,596	882	86	22	342	948	70	144	258	56
Military sales deliveries <sup>3</sup> . . . . .	48,444	7,208	9,088	10,556	13,001	9,664	8,493	7,915	11,506	9,307	7,715
Military sales financing <sup>4</sup> . . . . .	19,855	1,950	3,046	3,884	5,107	5,716	4,940	4,947	4,053	4,049	4,273
Military assistance programs <sup>5</sup> . . . . .	53,661	266	250	395	413	700	812	841	976	702	542
Military assistance program deliveries <sup>6</sup> . . . . .	53,060	435	309	416	173	129	22	27	39	19	14
IMET program/deliveries <sup>6</sup> . . . . .	1,946	25	28	44	47	52	55	51	55	46	47
Students trained (1,000) <sup>5</sup> . . . . .	497	4	5	6	7	6	4	6	6	6	5

<sup>1</sup> Includes transition quarter, July-September 1976. <sup>2</sup> Includes aircraft, ships, support vehicles, communications equipment, and other supplies. <sup>3</sup> Includes military construction sales deliveries. <sup>4</sup> Includes Military Assistance Service Funded (MASF) program data, Section 506(a) drawdown authority, and MAP Merger Funds as follows: FY 1982-\$134 million; FY 1983-\$324 million; FY 1984-\$642 million; FY 1985-\$758 million; FY 1986-\$752 million; FY 1987-\$906 million; FY 1988-\$684 million; FY 1989-\$427 million. <sup>5</sup> Includes Military Assistance Service Funded (MASF) program data and Section 506(a) drawdown authority. <sup>6</sup> IMET=International Military Education and Training program.

Source: U.S. Defense Security Assistance Agency, *Foreign Military Sales, Foreign Military Construction Sales, and Military Assistance Facts*, annual, and unpublished data.

### No. 554. U.S. Military Sales Deliveries to Foreign Governments, by Country: 1950 to 1989

[In millions of dollars. For fiscal years ending in year shown; see text, section 9. Represents Department of Defense military sales]

COUNTRY	1950-1981 <sup>1</sup>	1982	1983	1984	1985	1986	1987	1988	1989	
									Total	Percent distribution
<b>Total<sup>2</sup></b>	<b>64,740</b>	<b>10,556</b>	<b>13,001</b>	<b>9,664</b>	<b>8,493</b>	<b>7,915</b>	<b>11,506</b>	<b>9,307</b>	<b>7,715</b>	<b>100.00</b>
Australia	1,962	127	322	395	522	409	609	862	401	5.20
Belgium	895	294	273	196	119	28	27	223	153	1.99
Canada	1,473	116	111	139	73	114	127	214	161	2.09
China: Taiwan	1,579	386	389	275	339	247	376	494	352	4.56
Denmark	595	200	159	40	47	24	62	154	101	1.31
Egypt	657	945	1,007	313	599	620	1,029	537	333	4.31
El Salvador	6	17	28	77	114	108	79	94	92	1.19
France	389	16	14	45	45	143	99	37	37	0.48
Greece	1,434	131	157	105	115	73	79	129	139	1.80
Indonesia	206	15	29	18	18	13	24	33	39	0.50
Israel	7,177	838	259	215	479	192	1,295	753	233	3.02
Italy	777	25	26	54	55	66	75	62	65	0.85
Japan	846	330	386	333	390	152	249	213	177	2.29
Jordan	842	122	256	77	122	63	55	59	65	0.84
Kuwait	583	86	72	49	34	71	59	41	62	0.81
Morocco	479	56	50	69	49	37	43	74	34	0.44
Netherlands	1,018	450	517	402	339	284	425	299	441	5.71
Norway	773	249	251	191	30	43	77	119	99	1.28
Pakistan	401	145	249	439	327	128	134	139	180	2.33
Philippines	155	22	11	14	16	37	32	70	73	0.95
Portugal	20	9	13	26	98	27	27	15	32	0.42
Saudi Arabia	14,108	3,932	6,032	3,575	2,270	2,788	3,475	1,364	1,111	14.40
Singapore	196	23	83	33	22	135	143	198	39	0.50
South Korea	1,820	213	298	258	258	354	353	335	331	4.29
Spain	799	91	68	66	93	263	826	638	687	8.91
Sudan	84	71	12	24	25	28	26	25	18	0.24
Thailand	721	140	160	162	118	117	95	314	214	2.77
Tunisia	84	12	25	85	155	26	44	21	25	0.33
Turkey	791	188	150	305	390	280	279	735	697	9.03
United Kingdom	2,783	328	478	447	386	361	199	181	133	1.72
Venezuela	245	19	33	129	196	68	50	28	13	0.17
West Germany	6,726	419	323	336	222	206	325	324	572	7.41

<sup>1</sup> Includes transactions for the transition quarter, July-September 1976. <sup>2</sup> Includes countries not shown.

Source: U.S. Defense Security Assistance Agency, *Foreign Military Sales, Foreign Military Construction Sales, and Military Assistance Facts*, annual.

### No. 555. Summary of Active and Reserve Military Personnel and Forces: 1989 to 1991

ITEM	1989	1990, est	1991, est	ITEM	1989	1990, est	1991, est
Military personnel (1,000):				Marine divisions	3	3	3
Active	2,130	2,076	2,039	Reserves	1	1	1
Army	770	744	728	Naval forces (total):			
Navy	593	591	585	Total naval vessels	566	551	546
Air Force	571	545	530	Aircraft carriers	14	14	14
Marine Corps	197	197	197	Battleships	4	4	2
Guard and Reserve	1,171	1,155	1,152	Nuclear attack submarines	96	91	86
Army	776	757	757	Amphibious assault ships	65	64	66
Navy	152	153	150	Sealift fleet	69	68	66
Air Force	199	201	202	Air Forces:			
Marine Corps	44	44	44	Air Force fighter wings (equiv.):			
Strategic forces:				Active	25	24	24
Intercontinental ballistic missiles:				Reserves	12	12	12
Peacekeeper	50	50	50	Navy attack wings: Active	13	13	13
Minuteman	950	950	950	Reserves	2	2	2
Poseidon-Trident	576	608	656	Marine Corps wings: Active	3	3	3
Strategic bomber squadrons	21	19	19	Reserves	1	1	1
General purpose forces:				Air Force B-52 squadrons: Active	3	2	2
Land forces:				Reserves	-	-	-
Army divisions (Active)	18	18	16	Strategic airlift squadrons: Active	20	20	20
Reserves	10	10	10	Reserves	5	5	5

- Represents zero.

Source: U.S. Office of Management and Budget, *Budget of the United States Government*, annual.

## No. 556. Active Duty Military Personnel—U.S./Soviet Union Summary: 1980—1989

(In thousands)

ITEM	1980	1982	1983	1984	1985	1986	1987	1988	1989	Net change, 1980-1989
Strategic nuclear services:										
United States <sup>1</sup>	140	140	139	139	134	130	98	93	67	-73
Soviet Union <sup>2</sup>	901	775	773	773	773	805	811	800	842	-59
Tactical/mobility services:										
United States	1,910	1,969	2,030	2,046	2,061	2,072	2,067	2,040	1,945	35
Army	776	780	779	781	778	775	775	772	769	-7
Navy	506	534	538	545	554	561	566	571	570	64
Air Force	440	463	518	523	531	537	526	500	409	-31
Marine Corps	188	192	195	197	198	199	200	197	197	9
Soviet Union <sup>3</sup>	3,289	3,703	3,805	3,905	3,953	3,963	3,676	3,603	3,423	134
Ground Forces	2,450	2,840	2,930	3,020	3,020	3,030	2,800	2,725	2,535	85
Navy	407	418	429	436	463	463	440	450	450	43
Air Force <sup>3</sup>	420	431	431	433	454	454	420	410	420	-
Naval Infantry	12	14	15	16	16	16	16	18	18	6

- Represents or rounds to zero. <sup>1</sup> Change between 1986 and 1987 reflect changes in counting rules, not actual reductions.

<sup>2</sup> Sudden decreases in 1982 resulted from the Soviet reorganization of its former long-range aviation and air defense forces.

<sup>3</sup> Decrease in 1987 was a result of reassessment.

## No. 557. Intercontinental Ballistic Missiles (ICBMs), Submarines, and Bombers—U.S. and Soviet Union Balance: 1980 to 1989

WEAPONS SYSTEM	1980	1983	1984	1985	1986	1987	1988	1989	NET CHANGE	
									1980-1989	1988-1989
ICBMs:										
United States <sup>1</sup>	1,052	1,040	1,030	1,017	999	996	1,000	1,000	-52	-
Minuteman II	450	450	450	450	450	450	450	450	-	-
Minuteman III	550	550	550	550	534	514	500	500	-50	-
Peacekeeper (MX)	-	-	-	-	10	32	50	50	50	-
Soviet Union	1,398	1,398	1,398	1,398	1,418	1,389	1,348	(NA)	(NA)	(NA)
SS-11	640	520	520	448	440	420	400	350	-290	-50
SS-13	60	60	60	60	60	60	60	60	-	-
SS-17	150	150	150	150	150	145	125	75	-75	-50
SS-18	308	308	308	308	308	308	308	308	-	-
SS-19	240	360	360	360	360	350	330	300	60	-30
SS-24	-	-	-	-	-	6	12	60	60	48
SS-25	-	-	-	72	100	100	125	220	220	95
Warheads:										
United States	2,152	2,140	2,130	2,117	2,157	2,312	2,450	2,450	298	-
Soviet Union	5,002	6,420	6,420	6,420	6,440	6,400	6,265	(NA)	(NA)	(NA)
Submarine systems:										
SLBMs: <sup>2</sup>										
United States	576	568	592	600	640	640	608	656	80	48
Trident I	80	264	288	312	384	384	384	384	304	-
Poseidon	416	304	304	288	256	256	224	224	-192	-
Polaris A-3	80	-	-	-	-	-	-	(NA)	(NA)	(NA)
Soviet Union	985	961	946	931	967	969	966	924	-61	-42
SS-N-5	57	45	42	39	39	27	24	-	-57	-24
SS-N-6	484	368	336	304	272	256	240	192	-272	-48
SS-N-8	292	292	292	292	292	286	286	280	-12	-6
SS-N-17	12	12	12	12	12	12	12	12	-	-
SS-N-18	160	224	224	224	224	224	224	224	64	-
SS-N-20	-	20	40	60	80	100	100	120	120	20
SS-N-23	-	-	-	-	48	64	80	96	96	16
Warheads:										
United States	4,880	5,152	5,344	5,376	5,632	5,632	5,312	5,696	816	384
Soviet Union	1,625	1,957	2,122	2,307	2,695	2,941	3,082	3,362	1,737	280
Bombers:										
United States	376	297	297	297	312	363	372	358	-18	-14
B-1B	-	-	-	-	26	81	90	90	90	-
B-52D	75	-	-	-	-	-	-	-	-75	-
B-52G	151	151	151	151	150	150	150	136	-15	-14
B-52H	90	90	90	90	84	84	84	84	-6	-
FB-111	60	56	56	56	52	48	48	48	-12	-
Soviet Union	220	260	300	325	325	326	350	335	115	-15
M-4 Bison	45	45	45	30	15	1	-	-	-45	-
Tu-95 BEAR	100	100	100	100	100	100	100	60	-40	-40
Tu-95 BEAR-H	-	-	25	50	50	60	75	80	80	5
Tu-22M Backfire	75	115	130	145	160	165	175	195	120	20

- Represents zero. NA Not available. <sup>1</sup> Includes weapons not shown separately. <sup>2</sup> Submarine-launched ballistic missile.

Source of tables 556 and 557: The Congress of the United States, Library of Congress, Congressional Research Service, *U.S./Soviet Military Balance, Statistical Trends, 1980-1990*, July 1990.

**No. 558. Department of Defense Manpower: 1950 to 1989**

[In thousands. As of end of fiscal year; see text, section 9. Includes National Guard, Reserve, and retired regular personnel on extended or continuous active duty. Excludes Coast Guard. Other officer candidates are included under enlisted personnel. See also *Historical Statistics, Colonial Times to 1970*, series Y 904-916]

YEAR	Total <sup>1 2</sup>	ARMY			NAVY <sup>3</sup>			MARINE CORPS			AIR FORCE		
		Total <sup>2</sup>	Offic- ers	Enlist- ed	Total <sup>2</sup>	Offic- ers	Enlist- ed	Total <sup>2</sup>	Offic- ers	Enlist- ed	Total <sup>2</sup>	Offic- ers	Enlist- ed
1950	1,459	593	73	519	381	45	333	74	7	67	411	57	354
1955	2,935	1,109	122	986	661	75	583	205	18	187	960	137	823
1960	2,475	873	101	770	617	70	545	171	16	154	815	130	683
1961	2,483	859	100	757	626	70	552	177	16	161	821	129	690
1962	2,806	1,066	116	949	664	75	585	191	17	174	884	135	746
1963	2,699	976	108	866	664	78	584	190	17	173	869	134	733
1964	2,686	973	111	861	666	76	585	190	17	173	857	133	721
1965	2,654	969	112	855	670	78	588	190	17	173	825	132	690
1966	3,092	1,200	118	1,080	743	80	659	262	21	241	887	131	753
1967	3,375	1,442	144	1,297	750	82	664	285	24	262	897	135	759
1968	3,546	1,570	166	1,402	764	85	674	307	25	283	905	140	762
1969	3,458	1,512	173	1,337	774	85	684	310	26	284	862	135	723
1970	3,065	1,323	167	1,153	691	81	606	260	25	235	791	130	657
1971	2,713	1,124	149	972	622	75	542	212	22	191	755	126	625
1972	2,322	811	121	687	587	73	511	198	20	178	726	122	600
1973	2,252	801	116	682	564	71	490	196	19	177	691	115	572
1974	2,162	783	106	674	546	67	475	189	19	170	644	110	529
1975	2,128	784	103	678	535	66	466	196	19	177	613	105	503
1976	2,082	779	99	678	525	64	458	192	19	174	585	100	481
1977	2,075	782	98	680	530	63	462	192	19	173	571	96	470
1978	2,062	772	98	670	530	63	463	191	18	172	570	95	470
1979	2,027	759	97	657	523	62	457	185	18	167	559	96	459
1980	2,051	777	99	674	527	63	460	188	18	170	558	98	456
1981	2,083	781	102	675	540	65	470	191	18	172	570	99	467
1982	2,109	780	103	673	553	67	481	192	19	173	583	102	476
1983	2,123	780	106	669	558	68	485	194	20	174	592	105	483
1984	2,138	780	108	668	565	69	491	196	20	176	597	106	486
1985	2,151	781	110	667	571	71	495	198	20	178	602	108	489
1986	2,169	781	110	667	581	72	504	199	20	179	608	109	495
1987	2,174	781	108	668	587	72	510	200	20	179	607	107	495
1988	2,138	772	107	660	593	72	516	197	20	177	576	105	467
1989	2,130	770	107	658	593	72	516	197	20	177	571	104	463

<sup>1</sup> Beginning 1980, excludes Navy Reserve personnel on active duty for Training and Administration of Reserves (TARS). From 1969, includes the Full-Time Guard and Reserve. <sup>2</sup> Includes Cadets. <sup>3</sup> Prior to 1980, includes Navy Reserve personnel on active duty for Training and Administration of Reserves (TARS).

Source: U.S. Dept. of Defense, *Selected Manpower Statistics*, annual.

**No. 559. Military Personnel on Active Duty, by Service: 1975 to 1989**

[In thousands. As of end of fiscal year; see text, section 9. Includes National Guard, Reserve, and retired regular personnel on extended or continuous active duty. Excludes Coast Guard. Military cadets, Naval Academy midshipmen, Air Force Academy cadets, and other officer candidates are included under enlisted personnel. See also *Historical Statistics, Colonial Times to 1970*, series Y 904-916]

BRANCH OF SERVICE	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	2,129	2,062	2,027	2,052	2,084	2,110	2,124	2,140	2,151	2,169	2,174	2,138	2,130
Army	784	772	759	777	781	780	780	780	781	781	781	772	770
Officers	103	98	97	99	102	103	106	108	110	110	108	107	107
Enlisted	678	670	657	674	675	673	669	668	667	667	668	660	658
Cadets	3.0	4.3	4.3	4.4	4.5	4.6	4.6	4.6	4.5	4.6	4.4	4.4	4.5
Navy	535	530	523	527	540	553	558	565	571	581	587	593	593
Officers	66	63	62	63	65	67	68	69	71	72	72	72	72
Enlisted	466	463	457	460	470	481	485	491	495	504	510	516	516
Midshipmen	3.3	3.7	3.8	4.5	4.6	4.5	4.5	4.5	4.6	4.7	4.6	4.6	4.6
Marine Corps	196	191	185	188	191	192	194	196	198	199	200	197	197
Officers	19	18	18	18	18	19	20	20	20	20	20	20	20
Enlisted	177	172	167	170	172	173	174	176	178	179	179	177	177
Air Force	613	570	559	558	570	583	592	597	602	608	607	576	571
Officers	105	95	96	98	99	102	105	106	108	109	107	105	104
Enlisted	503	470	459	456	467	476	483	486	489	495	495	467	463
Cadets	4.4	4.4	4.4	4.4	4.4	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.4

Source: U.S. Dept. of Defense, *Selected Manpower Statistics*, annual.

**No. 560. Military Personnel on Active Duty, by Location: 1970 to 1989**

[In thousands, 1970 and 1975, as of Dec. 31; thereafter, as of end of fiscal year; see text, section 9]

ITEM	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>Total</b> . . . . .	<b>2,874</b>	<b>2,084</b>	<b>2,051</b>	<b>2,109</b>	<b>2,123</b>	<b>2,138</b>	<b>2,151</b>	<b>2,169</b>	<b>2,174</b>	<b>2,138</b>	<b>2,130</b>
Shore-based <sup>1</sup> . . . . .	2,627	1,884	1,840	1,880	1,889	1,908	1,920	1,929	1,928	1,891	1,884
Afloat <sup>2</sup> . . . . .	247	200	211	229	234	230	231	240	246	248	246
United States <sup>3</sup> . . . . .	1,987	1,630	1,562	1,580	1,604	1,628	1,636	1,644	1,650	1,598	1,620
Foreign countries . . . . .	887	455	488	528	519	510	516	526	524	541	510

<sup>1</sup> Includes Navy personnel temporarily on shore. <sup>2</sup> Includes Marine Corps. <sup>3</sup> Includes outlying areas.Source: U.S. Dept. of Defense, *Selected Manpower Statistics*, annual; and unpublished data.**No. 561. Military Personnel on Active Duty in Foreign Countries: 1989**

(As of end of fiscal year)

COUNTRY	1989	COUNTRY	1989	COUNTRY	1989
<b>Total</b> . . . . .	<b>509,873</b>	<b>China</b> . . . . .	<b>32</b>	<b>Afloat</b> . . . . .	<b>8,288</b>
Ashore . . . . .	452,916	Hong Kong . . . . .	35	Western Hemisphere <sup>1</sup> . . . . .	21,462
Afloat . . . . .	56,957	Indonesia . . . . .	35	Antigua . . . . .	66
Western Europe <sup>1</sup> . . . . .	341,278	Japan . . . . .	49,861	Bahamas, The . . . . .	27
Austria . . . . .	30	New Zealand . . . . .	59	Bermuda . . . . .	1,174
Denmark . . . . .	68	Philippines . . . . .	14,745	Brazil . . . . .	51
France . . . . .	83	Rep. of Korea . . . . .	44,461	Canada . . . . .	551
Germany, F. Rep. <sup>2</sup> . . . . .	248,621	Singapore . . . . .	29	Colombia . . . . .	42
Greece . . . . .	3,382	Thailand . . . . .	161	Costa Rica . . . . .	32
Greenland . . . . .	192	Afloat . . . . .	24,747	Cuba (Guantanamo) . . . . .	2,467
Iceland . . . . .	3,237	Africa, Near East, . . . . .	11,829	El Salvador . . . . .	93
Italy . . . . .	15,706	and South Asia <sup>1</sup> . . . . .	168	Honduras . . . . .	1,158
Netherlands . . . . .	2,882	Bahrain . . . . .	1,048	Mexico . . . . .	31
Norway . . . . .	220	British Indian Ocean Ter. . . . .	1,182	Panama . . . . .	12,719
Portugal . . . . .	2,013	Egypt . . . . .	31	Peru . . . . .	43
Spain . . . . .	8,735	India . . . . .	75	Venezuela . . . . .	40
Switzerland . . . . .	32	Israel . . . . .	30	Afloat . . . . .	2,733
Turkey . . . . .	4,862	Kenya . . . . .	41	Antarctica . . . . .	57
United Kingdom . . . . .	27,639	Morocco . . . . .	37	Eastern Europe <sup>1</sup> . . . . .	207
Afloat . . . . .	21,189	Pakistan . . . . .	416	German Dem. Rep. . . . .	53
E. Asia and Pac. <sup>1</sup> . . . . .	134,912	Saudi Arabia . . . . .	34	U.S.S.R. . . . .	54
Australia . . . . .	717	United Arab Emirates . . . . .			

<sup>1</sup> Includes items not shown separately. <sup>2</sup> Includes West Berlin.Source: U.S. Department of Defense, *Selected Manpower Statistics*, annual.**No. 562. Coast Guard Personnel on Active Duty: 1970 to 1989**

(As of end of fiscal year; see text, section 9)

YEAR	Total	Officers	Cadets	Enlisted	YEAR	Total	Officers	Cadets	Enlisted
1970 . . . . .	37,689	5,512	653	31,524	1984 . . . . .	38,705	6,790	759	31,156
1975 . . . . .	36,788	5,630	1,177	29,981	1985 . . . . .	38,595	6,775	733	31,087
1979 . . . . .	38,559	6,340	806	31,413	1986 . . . . .	37,284	6,577	754	29,953
1980 . . . . .	39,381	6,463	877	32,041	1987 . . . . .	38,576	6,644	859	31,073
1981 . . . . .	39,760	6,519	981	32,260	1988 . . . . .	37,723	6,530	887	30,306
1982 . . . . .	38,248	6,431	902	30,915	1989 . . . . .	37,453	6,614	867	29,972
1983 . . . . .	39,708	6,535	811	32,362					

Source: U.S. Dept. of Transportation, *Annual Report of the Secretary of Transportation*.**No. 563. Vietnam Conflict—U.S. Military Forces in Vietnam, and Casualties: 1957 to 1990**

[Military forces as of Dec. 31. All U.S. forces withdrawn by Jan. 27, 1973]

ITEM	Unit	1957-1990, total	1957-1964	1965	1966	1967	1968	1969	1970	1971	1972	1973-1990
<b>Military forces</b> . . . . .	<b>1,000</b> . . . . .	<b>(X)</b>	<b>123.3</b>	<b>184.3</b>	<b>385.3</b>	<b>485.6</b>	<b>536.1</b>	<b>475.2</b>	<b>234.6</b>	<b>156.8</b>	<b>24.2</b>	<b>-</b>
<b>Battle deaths</b> <sup>2</sup> . . . . .	<b>Number</b> . . . . .	<b>47,355</b>	<b>279</b>	<b>1,432</b>	<b>5,047</b>	<b>9,463</b>	<b>14,623</b>	<b>9,426</b>	<b>4,230</b>	<b>1,376</b>	<b>361</b>	<b>1,118</b>
<b>Killed</b> . . . . .	<b>Number</b> . . . . .	<b>38,498</b>	<b>197</b>	<b>1,124</b>	<b>4,142</b>	<b>12,624</b>	<b>7,525</b>	<b>8,117</b>	<b>3,486</b>	<b>1,082</b>	<b>205</b>	<b>-</b>
<b>Died of wounds</b> . . . . .	<b>Number</b> . . . . .	<b>5,210</b>	<b>10</b>	<b>111</b>	<b>579</b>	<b>979</b>	<b>1,598</b>	<b>1,168</b>	<b>555</b>	<b>160</b>	<b>28</b>	<b>22</b>
<b>Died while missing</b> . . . . .	<b>Number</b> . . . . .	<b>3,647</b>	<b>72</b>	<b>197</b>	<b>326</b>	<b>959</b>	<b>401</b>	<b>141</b>	<b>189</b>	<b>134</b>	<b>128</b>	<b>1,068</b>

- Represents zero. X Not applicable. <sup>1</sup> For 1964 only. <sup>2</sup> Casualties from enemy action. Deaths exclude 10,796 servicemen who died in accidents or from disease. <sup>3</sup> Includes servicemen who died while captured.

Source: National Archives and Records Administration, unpublished data from Combat Area Casualties database.

**No. 564. Armed Forces Personnel—Summary of Major Conflicts**

[For Revolutionary War, number of personnel serving not known, but estimates range from 184,000 to 250,000; for War of 1812, 286,730 served; for Mexican War, 78,718 served. Dates of the major conflicts may differ from those specified in various laws providing benefits for veterans. See table 563 for data on Vietnam conflict. See also *Historical Statistics, Colonial Times to 1970*, series Y 856-903]

ITEM	Unit	Civil War <sup>1</sup>	Spanish-American War	World War I	World War II	Korean conflict	Vietnam conflict
Personnel serving <sup>2</sup>	1,000	2,213	307	4,735	<sup>3</sup> 16,113	<sup>4</sup> 5,720	<sup>5</sup> 8,744
Average duration of service	Months	20	8	12	33	19	23
Service abroad: Personnel serving	Percent.	(NA)	<sup>6</sup> 29	53	73	<sup>7</sup> 56	(NA)
Average duration	Months	(NA)	1.5	6	16	13	(NA)
Casualties: <sup>8</sup> Battle deaths <sup>2</sup>	1,000	140	(Z)	53	292	34	<sup>10</sup> 47
Wounds not mortal <sup>2</sup>	1,000	282	2	204	671	103	<sup>10</sup> 153
Draftees: Classified	1,000	777	(X)	24,234	36,677	9,123	<sup>5</sup> 75,717
Examined	1,000	522	(X)	3,764	17,955	3,685	<sup>5</sup> 8,611
Rejected	1,000	160	(X)	803	6,420	1,189	<sup>5</sup> 3,880
Inducted	1,000	46	(X)	2,820	10,022	1,560	<sup>5</sup> 1,759

NA Not available. X Not applicable. Z Fewer than 500. <sup>1</sup> Union forces only. Estimates of the number serving in Confederate forces range from 600,000 to 1.5 million. <sup>2</sup> Source U.S. Department of Defense, *Selected Manpower Statistics, FY 1988*, annual. <sup>3</sup> Covers Dec. 1, 1941, to Dec. 31, 1946. <sup>4</sup> Covers June 25, 1950, to July 27, 1953. <sup>5</sup> Covers Aug. 4, 1964, to Jan. 27, 1973. <sup>6</sup> Army and Marines only. Excludes Navy. Covers July 1950 through Jan. 1955. Far East area only. <sup>7</sup> During hostilities only. For periods covered, see footnotes 3, 4, and 5. <sup>8</sup> Covers Jan. 1, 1961, to Jan. 27, 1973. Includes known military service personnel who have died from combat related wounds.

Source: Except as noted, the President's Commission on Veterans' Pensions, *Veterans' Benefits in the United States*, vol. I, 1956; and U.S. Dept. of Defense, unpublished data.

**No. 565. Enlisted Military Personnel Accessions: 1980 to 1989**

[In thousands. For years ending Sept. 30]

BRANCH OF SERVICE	1980	1985	1988	1989	BRANCH OF SERVICE	1980	1985	1988	1989
<b>Total</b> . . . . .	<b>582</b>	<b>529</b>	<b>532</b>	<b>530</b>	<b>Marine Corps</b> . . . . .	<b>58</b>	<b>57</b>	<b>52</b>	<b>49</b>
<b>Army</b> . . . . .	<b>265</b>	<b>200</b>	<b>210</b>	<b>224</b>	First enlistments . . . . .	42	36	35	33
First enlistments . . . . .	163	117	105	112	Reenlistments . . . . .	15	19	16	16
Reenlistments . . . . .	97	84	104	111					
<b>Navy</b> . . . . .	<b>127</b>	<b>139</b>	<b>149</b>	<b>155</b>	<b>Air Force</b> . . . . .	<b>132</b>	<b>132</b>	<b>121</b>	<b>102</b>
First enlistments . . . . .	75	67	73	74	First enlistments . . . . .	76	68	42	44
Reenlistments . . . . .	36	50	52	62	Reenlistments . . . . .	56	64	79	58

Source: U.S. Dept. of Defense, *Selected Manpower Statistics*, annual.

**No. 566. Military Personnel on Active Duty and Monthly Basic Pay: 1985 to 1989**

[Personnel as of Sept. 30; basic pay as of January, except as noted]

RANK/GRADE	PERSONNEL (1,000)				MONTHLY BASIC PAY (dollars)			
	1985	1987	1988	1989	1985	1987	1988	1989
Total <sup>1</sup>	2,151.0	2,174.2	2,138.2	2,130.2	(X)	(X)	(X)	(X)
Recruit—E-1	127.6	110.5	119.6	128.9	620	658	671	699
Private—E-2	140.6	160.3	145.1	151.9	695	738	753	784
Pvt. 1st class—E-3	336.3	337.2	304.7	281.6	723	767	782	814
Corporal—E-4	444.4	447.2	458.9	456.8	810	860	877	913
Sergeant—E-5	356.2	363.0	360.9	362.1	980	1,040	1,060	1,104
Staff Sgt.—E-6	237.8	245.5	244.5	245.7	1,300	1,379	1,407	1,465
Sgt. 1st class—E-7	131.9	134.9	133.0	134.0	1,584	1,680	1,714	1,784
Master Sgt.—E-8	38.5	39.4	38.3	37.9	1,818	1,929	1,968	2,048
Sgt. Major—E-9	15.1	15.4	15.2	15.1	2,184	2,317	2,363	2,460
Warrant Officer—W-1	2.4	2.1	2.7	3.2	1,495	1,586	1,618	1,685
Chief Warrant—W-4	3.2	3.4	3.2	3.1	2,732	2,898	2,956	3,077
2d Lt.—O-1	39.7	34.5	35.3	34.0	1,189	1,261	1,286	1,339
1st Lt.—O-2	42.7	45.1	42.4	42.0	1,495	1,586	1,618	1,685
Captain—O-3	104.4	105.9	105.8	106.2	2,176	2,308	2,354	2,451
Major—O-4	53.3	53.7	53.2	53.6	2,754	2,921	2,980	3,102
Lt. Colonel—O-5	32.8	33.0	32.9	32.4	3,413	3,621	3,694	3,845
Colonel—O-6	14.7	14.6	14.4	14.0	4,330	4,593	4,685	4,877
Brig. General—O-7	0.5	0.5	0.5	0.5	4,928	5,228	5,333	5,551
Major General—O-8	0.4	0.4	0.4	0.4	5,667	<sup>25</sup> 5,900	<sup>26</sup> 6,042	<sup>26</sup> 6,290
Lt. General—O-9	0.1	0.1	0.1	0.1	<sup>25</sup> 5,725	<sup>25</sup> 5,900	<sup>26</sup> 6,042	<sup>26</sup> 6,292
General—O-10	(Z)	(Z)	(Z)	(Z)	<sup>25</sup> 5,725	<sup>25</sup> 5,900	<sup>26</sup> 6,042	<sup>26</sup> 6,292

X Not applicable. Z Fewer than 50. <sup>1</sup> Includes cadets and midshipmen and warrant officers, W-2 and W-3. <sup>2</sup> Statutory limitation.

Source: U.S. Dept. of Defense, *Selected Manpower Statistics*, annual, and Office of the Comptroller, unpublished data.

**No. 567. Military Reserve Personnel: 1970 to 1989**

[In thousands. As of end of fiscal year; see text, section 9. Excludes U.S. Coast Guard Reserve. The ready reserve includes selected reservists who are intended to assist active forces in a war and the individual ready reserve who, in a major war, would be used to fill out active and reserve units and later would be a source of combat replacements; a portion of the ready reserve serves in an active status. The standby reserve cannot be called to active duty unless the Congress gives its explicit approval. The retired reserve represents a low potential for mobilization]

RESERVE STATUS AND BRANCH OF SERVICE	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Total reserves</b> . . . . .	<b>3,639</b>	<b>2,656</b>	<b>2,109</b>	<b>2,169</b>	<b>2,267</b>	<b>2,250</b>	<b>2,295</b>	<b>2,310</b>	<b>2,370</b>	<b>2,434</b>	<b>2,455</b>	<b>2,536</b>	<b>2,540</b>
Ready reserve . . . . .	2,574	1,529	1,203	1,263	1,317	1,359	1,419	1,491	1,566	1,613	1,620	1,642	1,631
Standby reserve . . . . .	492	412	103	86	65	52	44	44	44	41	38	34	29
Retired reserve . . . . .	573	715	803	821	885	839	832	775	760	780	798	862	879
Army . . . . .	2,221	1,631	1,173	1,218	1,337	1,360	1,408	1,428	1,481	1,506	1,509	1,525	1,530
Navy . . . . .	808	521	427	438	436	415	423	425	431	464	471	525	522
Air Force . . . . .	610	504	509	514	494	476	463	457	459	462	475	488	488

Source: U.S. Dept. of Defense, *Official Guard and Reserve Manpower Strengths and Statistics*, quarterly.

**No. 568. Ready Reserve Personnel Profile—Race, Age, and Sex: 1989 and 1990**

ITEM	RACE					PERCENT DISTRIBUTION			
	Total	White	Black	Asian	American Indian	White	Black	Asian	American Indian
<b>1989, total</b> . . . . .	<b>1,676,105</b>	<b>1,282,456</b>	<b>372,785</b>	<b>13,237</b>	<b>7,647</b>	<b>76.5</b>	<b>22.2</b>	<b>0.8</b>	<b>0.5</b>
Male . . . . .	1,357,453	1,139,498	199,771	11,573	6,611	68.0	11.9	0.7	0.4
Officers . . . . .	214,783	200,325	12,487	1,664	307	12.0	0.7	0.1	(Z)
Enlisted . . . . .	1,142,670	939,173	187,284	9,909	6,304	56.0	11.2	0.6	0.4
Female . . . . .	318,652	142,958	172,994	1,664	1,036	8.5	10.3	0.1	0.1
Officers . . . . .	35,717	28,760	6,580	313	64	1.7	0.4	(Z)	(Z)
Enlisted . . . . .	282,935	114,198	166,414	1,351	972	6.8	9.9	0.1	0.1
<b>1990, total</b> . . . . .	<b>1,558,867</b>	<b>1,269,278</b>	<b>271,470</b>	<b>14,608</b>	<b>3,511</b>	<b>81.4</b>	<b>17.4</b>	<b>0.9</b>	<b>0.2</b>
Male . . . . .	1,362,014	1,137,557	209,360	12,724	2,373	73.0	13.4	0.8	0.2
Officers . . . . .	218,033	203,061	12,851	1,794	327	13.0	0.8	0.1	(Z)
Enlisted . . . . .	1,143,981	934,496	196,509	10,930	2,046	59.9	12.6	0.7	0.1
Female . . . . .	196,845	131,721	62,110	1,884	1,130	8.4	4.0	0.1	0.1
Officers . . . . .	18,277	11,785	6,095	339	58	0.8	0.4	(Z)	(Z)
Enlisted . . . . .	178,568	119,936	56,015	1,545	1,072	7.7	3.6	0.1	0.1

Z Less than .05 percent.

Source: U.S. Dept. of Defense, *Official Guard and Reserve Manpower Strengths and Statistics*, annual.

**No. 569. Military Reserve Costs: 1970 to 1989**

[In millions of dollars. As of end of fiscal year; see text, section 9. Army and Air Force data include National Guard]

TYPE OF COST	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Total</b> . . . . .	<b>2,547</b>	<b>7,968</b>	<b>9,997</b>	<b>10,462</b>	<b>12,069</b>	<b>14,300</b>	<b>18,445</b>	<b>19,631</b>	<b>18,961</b>	<b>19,240</b>	<b>20,748</b>
Operations and maintenance . . . . .	994	3,526	4,164	4,716	5,137	5,128	5,734	5,770	6,168	6,670	6,765
Personnel . . . . .	1,083	2,456	3,141	3,912	4,633	5,065	7,703	8,500	8,382	8,837	9,129
Procurement . . . . .	187	1,458	1,953	969	1,627	3,371	5,009	4,383	3,322	2,533	3,520
Active-duty support . . . . .	234	408	506	556	386	433	581	607	609	616	651
Construction . . . . .	49	120	233	309	286	303	408	371	480	584	605

Source: U.S. Dept. of Defense, unpublished data.

**No. 570. National Guard—Summary: 1970 to 1989**

[As of end of fiscal year; see text, section 9. Includes Puerto Rico]

ITEM	Unit	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
Army National Guard: Units . . . . .	Number . . . . .	3,052	3,245	3,379	3,429	4,351	4,353	5,712	6,125	5,982	5,715
Personnel . . . . .	1,000 . . . . .	410	403	368	418	434	438	446	452	455	457
Funds obligated <sup>2</sup> . . . . .	Mil. dol . . . . .	752	1,322	1,802	2,980	3,093	4,387	4,825	4,955	5,258	5,354
Value of equipment . . . . .	Mil. dol . . . . .	1,600	4,100	7,600	13,100	14,300	18,800	19,700	22,300	27,390	30,129
Air National Guard: Units . . . . .	Number . . . . .	958	1,106	1,054	1,185	1,202	1,184	1,229	1,281	1,272	1,339
Personnel . . . . .	1,000 . . . . .	90	95	96	102	105	109	113	115	115	116
Funds obligated <sup>2</sup> . . . . .	Mil. dol . . . . .	467	890	1,678	2,478	2,488	2,813	2,809	2,886	3,072	3,183
Value of equipment (est.) <sup>3</sup> . . . . .	Mil. dol . . . . .	(NA)	3,100	5,200	6,300	17,500	21,400	26,100	23,668	25,683	27,481

NA Not available. <sup>1</sup> Officers and enlisted personnel. <sup>2</sup> Federal funds; includes personnel, operations, maintenance, and military construction. <sup>3</sup> Beginning 1984, increase due to repricing of aircraft to current year dollars to reflect true replacement value.

Source: National Guard Bureau, *Annual Review of the Chief, National Guard Bureau*, and unpublished data.

## No. 571. Living Veterans—States and Other Areas: 1980 to 1988

[Estimates in thousands. As of end of fiscal year; see text, section 9. Data were estimated starting with veteran's place of residence as of April 1, 1980, based on 1980 Census of Population data, extended to later years on the basis of estimates of veteran interstate migration, separations from the Armed Forces, and mortality; not directly comparable with earlier estimates previously published by the VA. Excludes 423,000 veterans whose only active-duty military service occurred since September 8, 1980, and who failed to satisfy the minimum service requirement. Also excludes a small indeterminate number of National Guard personnel or reservists who incurred service-connected disabilities while on an initial tour of active duty for training only]

YEAR, STATE, AND AREA	Total veter- ans <sup>1</sup>	WAR VETERANS							Service be- tween and Viet- nam only	Post- Viet- nam era <sup>5</sup>
		Total <sup>1</sup>	World War I	World War II <sup>2 3</sup>	Korean conflict		Vietnam era			
					Total <sup>2 3 4</sup>	No prior war- time service <sup>4</sup>	Total <sup>3 4</sup>	No prior war- time service		
1980	28,640	23,965	461	11,720	5,434	4,331	8,118	7,453	3,086	1,120
1981	28,563	23,716	404	11,491	5,393	4,308	8,175	7,513	3,076	1,320
1982	28,399	23,421	348	11,241	5,346	4,280	8,210	7,551	3,064	1,479
1983	28,202	23,109	297	10,978	5,294	4,249	8,238	7,584	3,051	1,623
1984	28,027	22,782	250	10,700	5,237	4,215	8,263	7,616	3,037	1,803
1985	27,732	22,274	206	10,346	5,135	4,143	8,215	7,578	3,009	2,058
1986	27,682	22,017	171	10,076	5,105	4,134	8,264	7,636	3,004	2,283
1987	27,469	21,646	140	9,765	5,034	4,089	8,270	7,652	2,987	2,473
1988, total	<sup>6</sup> 27,279	<sup>6</sup> 21,268	114	<b>9,444</b>	<b>4,960</b>	<b>4,041</b>	<b>8,277</b>	<b>7,669</b>	<b>2,967</b>	<b>2,695</b>
United States	27,155	21,175	113	<b>9,415</b>	<b>4,925</b>	<b>4,010</b>	<b>8,242</b>	<b>7,636</b>	<b>2,956</b>	<b>2,677</b>
Alabama	402	314	2	137	83	66	122	109	43	39
Alaska	73	57	(Z)	14	11	10	35	33	9	6
Arizona	411	325	2	153	75	55	130	115	39	43
Arkansas	266	205	1	96	47	36	81	72	28	25
California	2811	2238	12	983	564	423	903	820	307	226
Colorado	397	310	1	111	74	58	155	139	44	40
Connecticut	388	307	2	144	73	61	104	100	46	30
Delaware	77	60	(Z)	27	14	11	23	21	8	9
District of Columbia	57	44	(Z)	21	12	9	15	14	5	6
Florida	1492	1204	9	651	284	197	410	347	127	135
Georgia	652	496	2	193	120	93	233	208	69	78
Hawaii	101	79	(Z)	32	20	15	37	32	11	10
Idaho	116	90	(Z)	37	20	16	39	37	13	12
Illinois	1233	958	5	431	214	189	342	333	145	115
Indiana	640	477	3	197	108	96	188	182	75	81
Iowa	332	258	2	105	57	52	102	99	35	35
Kansas	283	226	2	99	51	42	89	83	30	24
Kentucky	363	284	2	123	66	56	109	102	40	34
Louisiana	429	331	1	143	75	60	137	127	48	45
Maine	154	120	1	52	28	23	47	44	16	17
Maryland	525	406	2	176	103	80	163	148	59	53
Massachusetts	676	534	4	265	123	102	171	163	75	60
Michigan	1007	756	4	309	164	148	303	296	115	125
Minnesota	489	378	3	149	84	75	156	152	59	48
Mississippi	232	180	1	85	45	36	66	58	24	24
Missouri	629	489	3	214	116	97	187	176	68	65
Montana	106	83	1	33	17	15	36	35	12	10
Nebraska	185	144	1	60	35	30	57	53	21	18
Nevada	138	108	(Z)	45	29	22	48	42	17	12
New Hampshire	141	109	1	45	25	21	47	43	16	15
New Jersey	875	691	4	344	161	139	214	204	103	69
New Mexico	173	135	1	56	31	24	60	54	16	20
New York	1829	1423	8	701	316	282	442	431	203	177
North Carolina	684	534	2	241	126	104	208	187	69	71
North Dakota	72	55	(Z)	20	12	11	24	23	9	8
Ohio	1285	980	5	438	212	187	362	350	142	149
Oklahoma	401	319	2	133	73	57	139	128	41	35
Oregon	345	271	2	113	56	45	117	111	38	32
Pennsylvania	1508	1182	6	579	258	222	389	375	170	130
Rhode Island	118	95	1	47	22	18	32	30	11	10
South Carolina	352	273	1	117	68	52	118	102	36	37
South Dakota	78	61	1	25	15	14	23	21	9	9
Tennessee	522	403	2	171	91	76	167	154	56	56
Texas	1791	1393	6	558	319	248	641	581	191	184
Utah	154	122	1	49	27	22	53	50	17	13
Vermont	63	47	(Z)	19	11	9	20	19	7	8
Virginia	668	516	2	222	142	102	225	189	71	72
Washington	588	462	2	182	111	82	217	195	65	54
West Virginia	222	173	1	80	37	32	65	61	23	23
Wisconsin	561	423	3	174	91	81	170	165	71	62
Wyoming	59	46	(Z)	16	10	8	23	22	7	5
Puerto Rico	124	93	(Z)	29	34	31	35	33	11	18

Z Fewer than 500. <sup>1</sup> Includes peacetime veterans not shown separately, who served only between World War I and World War II, and those who served only between World War II and the Korean conflict. Veterans who served in more than one wartime period are counted only once. Includes Vietnam era (no prior wartime service), Korean conflict (no prior wartime service), World War II, and World War I. <sup>2</sup> Includes 269,000 who served in the Vietnam era, Korean conflict, and World War II. <sup>3</sup> Includes 649,000 who served in both World War II and the Korean conflict. <sup>4</sup> Includes 339,000 who served in both the Korean conflict and the Vietnam era. <sup>5</sup> Service only after May 7, 1975. <sup>6</sup> There is also 1 living Spanish-American War veteran and an estimated 65 living Mexican Border conflict veterans.

Source: U.S. Dept. of Veterans Affairs, Office of Information Management and Statistics, *Veteran Population September 30, 1988*, October, 1988, RCS 70-0561.



### No. 572. Veterans Living in the United States and Puerto Rico, by Age and by Service: 1988

[In thousands, except as indicated. As of Sept. 30. Estimated. Excludes 487,000 veterans whose only active duty military service occurred since Sept. 30, 1980. See headnote, table 571. See *Historical Statistics, Colonial Times to 1970*, series Y 943-956, for all veterans]

AGE	Total veterans	WARTIME VETERANS							PEACETIME VETERANS	
		Total <sup>1</sup>	Vietnam era		Korean conflict		World War II <sup>3,4</sup>	World War I	Total	Post- Vietnam era <sup>5</sup>
			Total <sup>2,3</sup>	No prior wartime service	Total <sup>2,3,4</sup>	No prior wartime serv- ice <sup>2</sup>				
All ages . . . . .	<b>27,279</b>	<b>21,268</b>	<b>8,277</b>	<b>7,669</b>	<b>4,960</b>	<b>4,041</b>	<b>9,444</b>	<b>114</b>	<b>6,011</b>	<b>2,695</b>
Under 30 years old . . . . .	1,420	12	12	12	-	-	-	-	1,408	1,408
30-34 years old . . . . .	1,641	690	690	690	-	-	-	-	951	951
35-39 years old . . . . .	2,388	2,147	2,147	2,147	-	-	-	-	240	238
40-44 years old . . . . .	3,448	3,252	3,252	3,252	-	-	-	-	196	51
45-49 years old . . . . .	2,502	1,256	1,242	1,241	15	15	-	-	1,246	24
50-54 years old . . . . .	2,592	1,199	370	256	943	943	-	-	1,393	15
55-59 years old . . . . .	3,237	2,929	279	53	2,693	2,608	269	-	308	6
60-64 years old . . . . .	3,619	3,547	147	13	797	421	3,113	-	72	(Z)
65 years old and over . . . . .	6,431	6,237	138	6	512	55	6,062	114	194	1

- Represents zero. Z Less than 500. <sup>1</sup> Veterans who served in more than one wartime period are counted only once. <sup>2</sup> Includes Vietnam era (no prior wartime service), Korean conflict (no prior wartime service), World War II, and World War I. <sup>3</sup> Includes 339,000 who served in both the Korean conflict and the Vietnam era. <sup>4</sup> Includes 269,000 who served in the Vietnam era, Korean conflict, and World War II. <sup>5</sup> Includes 649,000 who served in both World War II and the Korean conflict. <sup>6</sup> Service only after May 7, 1975. <sup>7</sup> There is also 1 living Spanish-American War veteran and an estimated 65 living Mexican Border conflict veterans.

Source: U.S. Dept. of Veterans Affairs, Office of Information Management and Statistics, *Veteran Population*, annual.

### No. 573. Disabled Veterans Receiving Compensation: 1970 to 1988

[In thousands, except as indicated. As of end of fiscal year; see text, section 9. Represents veterans receiving compensation for service-connected disabilities. Totally disabled refers to veterans with any disability, mental or physical, deemed to be total and permanent which prevents the individual from maintaining a livelihood and are rated for disability at 100 percent]

MILITARY SERVICE	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988
Disabled, all periods <sup>1</sup> . . . . .	2,092	2,220	2,274	2,275	2,263	2,251	2,240	2,225	2,212	2,199
Peace-time . . . . .	185	194	262	302	319	335	352	367	382	398
World War I . . . . .	85	55	30	22	18	15	12	10	18	6
World War II . . . . .	1,416	1,309	1,193	1,141	1,111	1,080	1,049	1,015	992	947
Korea . . . . .	239	240	236	231	229	226	223	220	218	215
Vietnam . . . . .	167	423	553	579	587	595	604	613	623	633
Totally disabled, all periods <sup>1</sup> . . . . .	124	123	121	138	139	137	136	133	132	131
Peace-time . . . . .	15	16	20	24	25	25	26	26	26	26
World War I . . . . .	11	6	3	2	2	1	1	1	1	1
World War II . . . . .	63	58	51	57	58	56	54	51	49	47
Korea . . . . .	16	16	16	18	17	17	17	16	16	16
Vietnam . . . . .	18	26	31	37	37	38	38	39	40	41
Compensation (mil. dol.) . . . . .	2,393	3,797	6,104	7,594	8,007	8,041	8,270	8,379	8,434	8,721

<sup>1</sup> Includes Spanish-American War and Mexican Border service, not shown separately.

Source: U.S. Dept. of Veterans Affairs, *Annual Report of the Secretary of Veterans Affairs*, and unpublished data.

### No. 574. Veterans Benefits—Expenditures, by Program: 1970 to 1988

[In millions of dollars. For fiscal years ending in year shown; see text, section 9. On an accrued expenditure basis]

PROGRAM	1970	1975	1980	1983	1984	1985	1986	1987	1988
Total <sup>1</sup> . . . . .	10,201	18,003	23,187	28,196	28,494	30,119	31,556	32,365	33,791
Compensation and pensions <sup>2</sup> . . . . .	5,330	7,551	11,257	13,881	13,942	14,234	14,399	14,399	14,880
Educ'nal asst. and readjustm't benefits . . . . .	1,047	4,529	2,383	1,678	1,043	1,169	907	916	998
Medical services; adminstr. expenses . . . . .	2,009	3,919	6,647	8,722	9,123	9,992	10,269	10,641	11,299
Hospital; domiciliary constr'n <sup>4</sup> . . . . .	75	136	342	458	486	557	567	589	634
Insurance and indemnities . . . . .	1,181	1,345	1,637	1,694	1,750	1,853	2,008	1,689	1,734
Loan guaranty revolving fund . . . . .	249	423	445	1,187	1,511	1,626	2,667	3,333	3,635
Direct loans . . . . .	180	84	49	8	8	8	9	9	6

<sup>1</sup> Excludes expenditures from personal funds of patients. Includes expenditures from VA Revolving Supply Fund and insurance trust funds and miscellaneous expenditures. <sup>2</sup> Includes expenditures for statutory burial awards, special clothing allowance, mortgage life insurance, invalid lifts, headstones and markers, and other expenses. <sup>3</sup> Includes National Cancer Institute expenditures (transfer to Dept. of Veterans Affairs). <sup>4</sup> Includes construction grants for State extended care facilities. Beginning 1975, includes expenditures for health manpower training facilities.

Source: U.S. Dept. of Veterans Affairs, *Annual Report of the Secretary of Veterans Affairs*.

**No. 575. Veterans Benefits—Expenditures, by War: 1940 to 1988**

[In millions of dollars. For fiscal year ending in year shown; see text, section 9. Refers to expenditures of Dept. of Veterans Affairs and predecessor agencies. See also *Historical Statistics, Colonial Times to 1970*, series Y 971-983]

PERIOD OR YEAR	Total, all wars	Mexican War and Indian Wars	Civil War	Spanish-American War	World War I	World War II	Korean conflict <sup>1</sup>	Service between Korea and Vietnam only	Vietnam <sup>2</sup>	Peacetime
<b>Total</b> . . . . .	<b>3,526,512</b>	<b>198</b>	<b>8,574</b>	<b>5,939</b>	<b>76,431</b>	<b>243,427</b>	<b>48,957</b>	<b>10,804</b>	<b>97,154</b>	<b>34,909</b>
To 1939 . . . . .	<sup>3</sup> 18,914	147	8,356	1,537	8,557	(X)	(X)	(X)	(X)	198
1940-1954 . . . . .	55,719	32	179	2,282	9,261	42,476	823	(X)	(X)	666
1955-1969 . . . . .	87,862	7	34	1,558	25,846	41,109	13,472	1,569	1,331	6
1970-1984 . . . . .	277,951	5	5	523	29,038	121,959	25,107	9,235	74,578	17,500
1970 . . . . .	8,905	(Z)	1	54	1,944	3,881	898	481	1,328	318
1971 . . . . .	10,240	(Z)	1	51	1,917	4,317	865	648	2,083	358
1972 . . . . .	11,314	1	1	45	1,980	4,699	905	728	2,571	384
1973 . . . . .	12,817	1	1	40	1,908	5,138	988	791	3,535	415
1974 . . . . .	13,878	1	1	39	1,835	5,439	1,051	848	4,159	505
1975 . . . . .	16,419	1	(Z)	38	1,897	6,196	1,219	1,089	5,392	587
1976 . . . . .	18,798	1	(Z)	39	1,861	7,024	1,378	1,246	6,509	740
1977 <sup>4</sup> . . . . .	23,063	(Z)	(Z)	45	2,401	9,616	1,900	617	7,447	1,037
1978 . . . . .	19,529	(Z)	(Z)	35	2,001	8,421	1,686	532	5,902	952
1979 . . . . .	20,276	(Z)	(Z)	35	2,096	9,140	1,830	545	5,556	1,075
1980 . . . . .	21,299	(Z)	(Z)	36	2,063	9,841	2,044	614	5,463	1,238
1981 . . . . .	22,663	(Z)	(Z)	18	1,727	10,656	2,309	528	5,889	1,736
1982 . . . . .	24,356	(Z)	(Z)	18	1,653	11,469	2,596	568	6,085	1,966
1983 . . . . .	25,914	(Z)	(Z)	16	1,543	12,024	2,753	( <sup>5</sup> )	6,291	<sup>5</sup> 3,287
1984 . . . . .	28,280	(Z)	(Z)	14	2,212	14,098	2,685	( <sup>5</sup> )	6,369	<sup>5</sup> 2,902
1985 . . . . .	27,540	1	(Z)	15	1,288	12,539	3,084	( <sup>5</sup> )	6,446	<sup>5</sup> 4,167
1986 . . . . .	28,900	3	(Z)	13	1,245	12,652	3,191	( <sup>5</sup> )	7,222	<sup>5</sup> 4,575
1987 . . . . .	29,626	3	(Z)	11	1,196	12,692	3,280	( <sup>5</sup> )	7,577	<sup>5</sup> 4,867
1988 . . . . .	<sup>6</sup> 26,741	2	(Z)	9	984	12,453	3,556	( <sup>5</sup> )	6,148	<sup>5</sup> 3,575

X Not applicable. Z Less than \$500,000. <sup>1</sup> June 27, 1950 to Jan. 31, 1955. <sup>2</sup> Service from Aug. 5, 1964, to May 7, 1975. <sup>3</sup> Includes \$70 million for the Revolutionary War and \$49 million for the War of 1812. <sup>4</sup> 15 months ending Sept 30. <sup>5</sup> Service between Korea and Vietnam only combined with peacetime. <sup>6</sup> Includes \$648 million for capital additions and insurance and indemnities.

Source: U.S. Dept. of Veterans Affairs, unpublished data.

**No. 576. Veterans Compensation and Pension Benefits—Number on Rolls and Average Payment, by Period of Service and Status: 1980 to 1988**

[As of Sept. 30. Living refers to veterans receiving compensation for disability incurred or aggravated while on active duty and war veterans receiving pension and benefits for nonservice connected disabilities. Deceased refers to deceased veterans whose dependents were receiving pensions and compensation benefits. See also *Historical Statistics, Colonial Times to 1970*, series Y 998-999]

PERIOD OF SERVICE AND VETERAN STATUS	VETERANS ON ROLLS (1,000)					AVERAGE PAYMENT (annual basis) <sup>1</sup> (dol.)				
	1980	1985	1986	1987	1988	1980	1985	1986	1987	1988
<b>Total</b> . . . . .	<b>4,646</b>	<b>4,006</b>	<b>3,899</b>	<b>3,808</b>	<b>3,725</b>	<b>2,370</b>	<b>3,505</b>	<b>3,647</b>	<b>3,741</b>	<b>3,949</b>
Living veterans . . . . .	3,195	2,931	2,883	2,844	2,804	2,600	3,666	3,764	3,821	4,003
Service connected . . . . .	2,273	2,240	2,225	2,212	2,199	2,669	3,692	3,766	3,808	3,967
Nonservice connected . . . . .	922	690	658	631	606	2,428	3,581	3,755	3,865	4,133
Deceased veterans . . . . .	1,451	1,075	1,016	964	921	1,863	3,066	3,315	3,504	3,787
Service connected . . . . .	358	336	331	328	325	3,801	5,836	6,100	6,296	6,649
Nonservice connected . . . . .	1,093	739	685	636	595	1,228	1,809	1,968	2,066	2,224
Prior to World War I . . . . .	14	7	6	5	5	1,432	1,855	1,979	2,068	2,226
Living . . . . .	(Z)	(Z)	(Z)	(Z)	(Z)	2,634	4,436	5,920	5,420	9,149
World War I . . . . .	692	381	334	295	261	1,683	2,461	2,664	2,817	2,986
Living . . . . .	198	68	53	42	32	2,669	4,439	4,906	5,243	5,759
World War II . . . . .	2,520	2,097	2,020	1,943	1,869	2,307	3,317	3,440	3,513	3,724
Living . . . . .	1,849	1,575	1,518	1,464	1,407	2,462	3,460	3,563	3,621	3,823
Korean conflict <sup>2</sup> . . . . .	446	399	395	393	392	2,691	4,114	4,276	4,389	4,618
Living . . . . .	317	309	308	308	307	2,977	4,260	4,366	4,457	4,658
Peacetime . . . . .	312	404	419	433	449	3,080	3,973	4,008	3,965	4,023
Living . . . . .	262	352	367	382	398	2,828	3,589	3,614	3,563	3,613
Vietnam era <sup>3</sup> . . . . .	662	716	726	738	749	2,795	4,021	4,138	4,244	4,463
Living . . . . .	569	626	637	649	661	2,709	3,849	3,941	4,029	4,220

Z Fewer than 500. <sup>1</sup> Averages calculated by multiplying average monthly payment by 12. <sup>2</sup> Service during period June 27, 1950, to Jan. 31, 1955. <sup>3</sup> Service from Aug. 5, 1964, to May 7, 1975.

Source: U.S. Dept. of Veterans Affairs, *Annual Report of the Secretary of Veterans Affairs*, and unpublished data.

**No. 577. Veterans Administration Health Care Summary: 1980 to 1988**

[For years ending Sept. 30]

ITEM	Unit	1980	1985	1988	ITEM	Unit	1980	1985	1988
Facilities operating:					Radiology examinations . . .	Million	5.7	5.4	5.6
Hospitals . . . . .	Number	172	172	172	Inpatients treated <sup>4</sup> . . . . .	1,000	1,359	1,435	1,224
Domiciliaries . . . . .	Number	16	16	29	VA facilities . . . . .	1,000	1,275	1,339	1,130
Outpatient clinics . . . . .	Number	226	226	233	Other facilities . . . . .	1,000	84	96	94
Nursing home units . . . . .	Number	92	115	119	Average daily inpatients <sup>5</sup> . . . . .	1,000	105	100	96
Employment <sup>1</sup> . . . . .	1,000	194	203	202	VA facilities . . . . .	1,000	84	75	70
Obligations <sup>2</sup> . . . . .	Mil. dol.	6,215	9,258	10,540	Other facilities . . . . .	1,000	21	25	26
Medical care . . . . .	Mil. dol.	5,972	8,936	10,230	Outpatient medical visits . . . . .	Million	18.0	19.6	23.2
Research in health care . . . . .	Mil. dol.	138	227	215	VA staff . . . . .	Million	15.8	17.8	21.5
Prescriptions dispensed . . . . .	Million	36.7	48.1	58	Fee-basis . . . . .	Million	2.2	1.8	1.8
Laboratory <sup>3</sup> . . . . .	Million	215	173	188					

<sup>1</sup> Net full-time equivalent. <sup>2</sup> 1980, cost-basis; thereafter, obligation-basis. Includes other obligations not shown separately. <sup>3</sup> Total unweighted laboratory workload. <sup>4</sup> Based on the number of discharges and deaths during the fiscal year, plus the number on the rolls (bed occupants and patients on authorized leave of absence) at the end of the fiscal year. Excludes interhospital transfers. <sup>5</sup> Patients receiving hospital care, or nursing bed care.

Source: U.S. Dept. of Veterans Affairs, *Annual Report of the Secretary of Veterans Affairs; Directory of VA Facilities*, biennial; and unpublished data.

**No. 578. Veterans Assistance to Persons in Education and Training Programs: 1980 to 1988**

[In thousands. For fiscal years ending in year shown; see text, section 9. Represents persons in training during year]

PROGRAM	1980	1981	1982	1983	1984	1985	1986	1987	1988
Post-Korea Education Assistance <sup>1</sup> . . . . .	1,107	949	778	644	528	402	308	239	203
Institutions of higher education . . . . .	842	736	620	517	421	326	257	203	176
Resident schools other than college . . . . .	149	122	98	88	78	54	35	26	19
Correspondence schools . . . . .	42	35	21	13	10	7	6	4	4
On-the-job training . . . . .	74	55	38	25	19	15	9	7	4
Children's Educational Assistance . . . . .	82.6	82.6	80.3	70.9	63.6	55.3	48.4	43.4	40.9
Institutions of higher education . . . . .	75.5	74.6	72.1	63.7	57.1	50.0	43.9	39.7	37.8
Schools other than college . . . . .	6.5	7.5	7.8	7.0	6.2	5.2	4.3	3.6	3
Special restorative training . . . . .	0.1	0.1	(Z)	(Z)	0.1	(Z)	(Z)	(Z)	(Z)
On-the-job training . . . . .	0.5	0.4	0.3	0.2	0.2	0.2	0.1	0.1	0.1
Spouses, Widows/Widowers Educational Assistance Program . . . . .	13.0	11.9	10.6	8.8	7.6	6.6	5.9	5.3	5
Institutions of higher education . . . . .	10.8	10.1	9.0	7.5	6.5	5.7	5.0	4.5	4.3
Schools other than college . . . . .	2.2	1.8	1.6	1.3	1.1	1.0	0.9	0.7	0.6
Vocational Rehabilitation Program for Disabled Veterans . . . . .	25.5	29.8	30.9	30.6	29.0	26.9	25.8	24.6	24.7

Z Fewer than 50. <sup>1</sup> Includes some Post-Vietnam veterans.

Source: U.S. Dept. of Veterans Affairs, *Annual Report of the Secretary of Veterans Affairs*, and unpublished data.

**No. 579. Veterans Guaranteed and Insured Loans: 1970 to 1988**

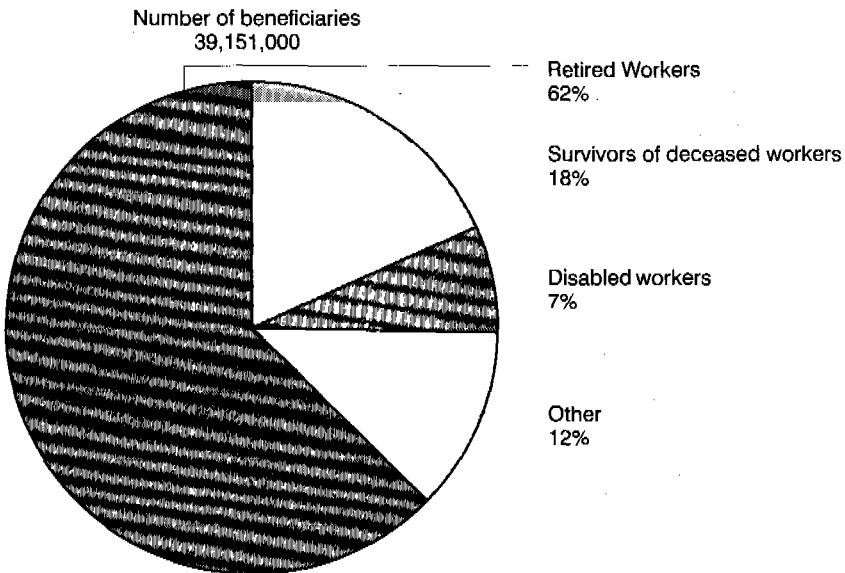
[For fiscal years ending in year shown, see text, section 9. Includes mobile home loans. See section 26 for VA loan characteristics]

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
Number of loans . . . . .	1,000	186.2	290.2	297.4	187.6	103.4	245.1	251.6	178.9	313.8	479.5	234.7
Home . . . . .	1,000	186.2	288.2	289.2	178.2	92.9	231.6	238.5	170.0	307.7	474.4	232.6
Amount of loans . . . . .	Mil. dol	3,683	8,091	14,815	10,008	5,542	14,670	15,612	11,452	21,966	34,900	17,302
Home . . . . .	Mil. dol	3,682	8,072	14,653	9,822	5,332	14,389	15,333	11,263	21,833	34,783	17,254
Guaranty and insurance . . . . .	Mil. dol	1,971	3,702	6,370	4,248	2,292	5,736	6,034	4,363	7,896	12,237	6,172
Home . . . . .	Mil. dol	1,971	3,096	6,289	4,155	2,187	5,596	5,895	4,269	7,830	12,180	6,149

Source: U.S. Dept. of Veterans Affairs, *Annual Report of the Secretary of Veterans Affairs*.

Figure 12.1

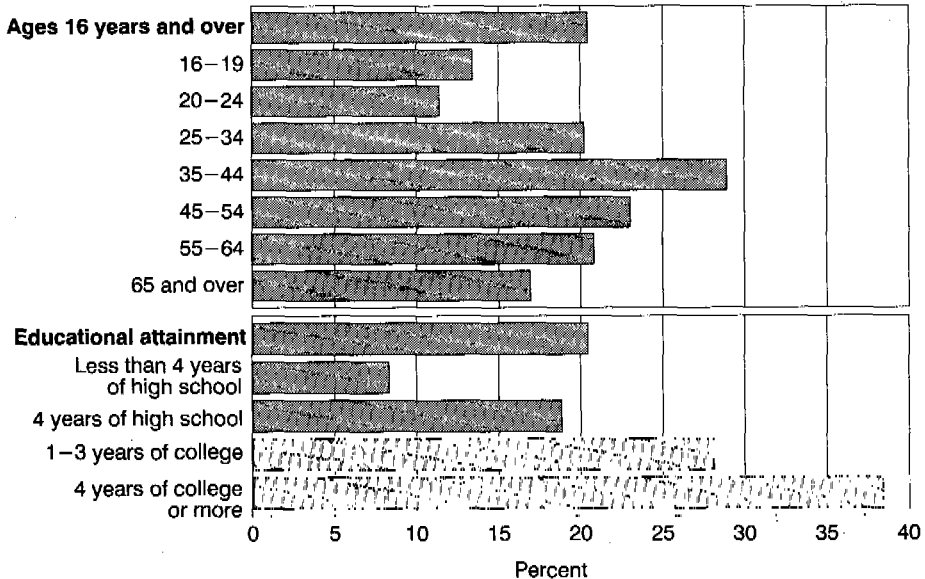
### Percentage of Persons Receiving Monthly Social Security Benefits, by Type of Beneficiary: 1989



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 593.

Figure 12.2

### Adult Population Doing Volunteer Work: 1989



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 624.



## Section 12

# Social Insurance and Human Services

This section presents data related to governmental expenditures for social welfare; governmental programs for old-age, survivors, disability, and health insurance (OASDHI); governmental employee retirement; Individual Retirement Account, Keogh account and private pension plans; government unemployment and temporary disability insurance; Federal supplemental security income payments and aid to the needy; child and other welfare services; and Federal food programs. Also included here are selected data on workers' compensation, including black lung benefits; vocational rehabilitation; child support; child care; and philanthropic trusts and foundations.

The principal source for these data is the Department of Health and Human Services' (HHS) monthly *Social Security Bulletin* which presents current data on many of the programs and summary data in annual statistical supplements. Current data on employment security are published annually in the Department of Labor's *Unemployment Insurance, Financial Data*. Statistics on aid to families with dependent children (AFDC) are presented in the U.S. Family Support Administration's annual publication, *Quarterly Public Assistance Statistics*.

**Social Insurance under the Social Security Act.**— Programs established by the Social Security Act provide protection against wage loss resulting from retirement, prolonged disability, death, or unemployment, and protection against the cost of medical care during old age and disability. The Federal OASDHI program provides monthly cash benefits to retired or disabled insured workers and their dependents and to survivors of insured workers. To be eligible, a worker must have had a specified period of employment in which OASDHI taxes were paid. A worker becomes eligible for full benefits at age 65, although reduced benefits may be obtained up to 3 years earlier; the worker's spouse is under the same limitations. Survivor benefits are payable to dependents of deceased insured workers. Disability benefits are payable to an insured worker under age 65 with a prolonged disability and to the disabled worker's dependents on the same basis as dependents of retired workers. Also, disability benefits are provided at age 50 to the disabled widow or widower of a deceased worker who was fully insured at the time of death. A lump sum benefit is generally payable on the death of an insured worker to a spouse or minor children. For information on the Medicare program, see section 3.

Retirement, survivors, disability, and hospital insurance benefits are funded by a payroll tax on annual earnings (up to a maximum of earnings set by law) of workers, employers, and the self-employed. The maximum taxable earnings are adjusted periodically through Federal legislation to reflect increasing income levels (see table 591). Tax receipts and benefit payments are administered through Federal trust funds. Special benefits for uninsured persons; hospital benefits for persons 65 and over with specified amounts of Social Security coverage less than that required for cash benefit eligibility; and that part of the cost of supplementary medical insurance not financed by contributions from participants are financed from Federal general revenues.

Unemployment insurance is presently administered by the U.S. Employment and Training Administration and each State's employment security agency. By agreement with the U.S. Secretary of Labor, State agencies also administer unemployment compensation for eligible ex-service members and Federal employees, unemployment assistance under the Disaster Relief Act of 1970, and workers assistance and relocation allowances under the Trade Act.

Under State unemployment insurance laws, benefits related to the individual's past earnings are paid to unemployed eligible workers. State laws vary concerning the length of time benefits are paid and their amount. In most States, benefits are payable for 26 weeks and, during periods of high unemployment, extended benefits are payable under a Federal-State program to those who have exhausted their regular State benefits. The basic benefit can vary among States by over 100 percent. Some States also supplement the basic benefit with allowances for dependents.

Unemployment insurance is funded by a Federal unemployment tax levied on the taxable payrolls of most employers. Taxable payroll under the Federal Act and most State laws is the first \$7,000 in wages paid each worker during a year. Employers are allowed a percentage credit of

taxable payroll for contributions paid to States under State unemployment insurance laws. The remaining percent of the Federal tax finances administrative costs, the Federal share of extended benefits, and advances to States. About 97 percent of wage and salary workers are covered by unemployment insurance.

**Retirement Programs for Government Employees.**—The Civil Service Retirement System (CSRS) and the Federal Employees' Retirement System (FERS) are the two major programs providing age and service, disability, and survivor annuities for Federal civilian employees. In general, employees hired after December 31, 1983 are covered under FERS and the social security program (OASDHI) and employees on staff prior to that date are members of CSRS and are covered under Medicare. CSRS employees were offered the option of transferring to FERS during 1987. There are separate retirement systems for the uniformed services (supplementing OASDHI) and for certain special groups of Federal employees.

State and local government employees are covered for the most part by State and local retirement systems similar to the Federal civil service retirement system. In many jurisdictions these benefits supplement OASDHI coverage.

**Workers' compensation.**—All States provide protection against work-connected injuries and deaths, although some States exclude certain workers (e.g., domestic help). Federal laws cover Federal employees, private employees in the District of Columbia, and longshoremen and harbor workers. In addition, the Social Security Administration and the Department of Labor administer a "black lung" benefits program for coal miners disabled by pneumoconiosis and for specified dependents and survivors. Specified occupational diseases are compensable to some extent. In most States, benefits are related to the worker's salary. The benefits may or may not be augmented by dependents' allowances or automatically adjusted to prevailing wage levels.

**Public aid.**—State-administered public assistance programs (Aid to Families with Dependent Children (AFDC), emergency assistance and general assistance) and the Federal Supplemental Security Income (SSI) program administered by the Social Security Administration provide benefits to persons who qualify. AFDC and emergency assistance are in part federally funded while the costs of general assistance are met entirely with State and local funds.

The SSI program replaced Federal grants for aid to the aged, blind, and disabled in the 50 States and the District of Columbia in 1974. Residents of the Northern Mariana Islands became eligible in 1978. Federal grants continue for aid to the aged, blind, and disabled in Guam, Puerto Rico, and the Virgin Islands. The SSI program provides a minimum income for the aged, blind, and disabled and establishes uniform national basic eligibility requirements and payment standards. Most States supplement the basic SSI payment.

**Federal Food Stamp program.**—Under the Food Stamp program, single persons and those living in households meeting nationwide standards for income and assets may receive coupons redeemable for food at most retail food stores. The monthly amount of coupons a unit receives is determined by household size and income. Households without income receive the determined monthly cost of a nutritionally adequate diet for their household size. This amount is updated to account for food price increases. Households with income receive the difference between the amount of a nutritionally adequate diet and 30 percent of their income, after certain allowable deductions.

To qualify for the program, a household must have less than \$2,000 in disposable assets (\$3,000 if one member is aged 60 or older), gross income below 130 percent of the official poverty guidelines, and net income below 100 percent of the poverty guidelines. Households with a person aged 60 or older or a disabled person receiving SSI, Social Security, or veterans' disability benefits may have gross income exceeding 130 percent of the poverty guidelines. All households must meet these requirements, even those receiving other Federal assistance payments. Households are certified for varying lengths of time, depending on their income sources and individual circumstances.

**Health and welfare services.**—Programs providing health and welfare services are aided through Federal grants to States for child welfare services, vocational rehabilitation, activities for the aged, maternal and child health services, maternity and infant care projects, comprehensive health services, and a variety of public health activities. For information about the Medicaid program, see section 3.

**Noncash benefits.**—The Bureau of the Census annually collects data on the characteristics of recipients of noncash (in-kind) benefits to supplement the collection of annual money income data in the Current Population Survey (see text, section 1 and section 15). Noncash benefits are those benefits received in a form other than money which serve to enhance or improve the economic well-being of the recipient. As for money income, the data for noncash benefits are for the calendar year prior to the date of the interview. The major categories of noncash benefits covered are public transfers (e.g. Food stamps, school lunch, public housing, and Medicaid) and employer or union-provided benefits to employees.

**Statistical reliability.**—For discussion of statistical collection, estimation, and sampling procedures and measures of statistical reliability applicable to HHS and Census Bureau data, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

### No. 580. Private Expenditures for Social Welfare, by Type: 1975 to 1988

[In millions of dollars, except percent]

TYPE	1975	1980	1982	1983	1984	1985	1986	1987	1988
<b>Total</b> .....	<b>124,741</b>	<b>242,695</b>	<b>316,504</b>	<b>353,715</b>	<b>369,259</b>	<b>437,205</b>	<b>483,061</b>	<b>539,837</b>	<b>601,218</b>
Percent of gross national product .....	7.8	8.8	10.0	10.4	10.3	10.5	11.4	11.9	12.3
Health .....	76,400	143,900	189,000	208,500	227,300	245,200	259,800	280,500	312,400
Income maintenance <sup>1</sup> .....	21,725	50,589	69,444	81,680	92,636	115,546	140,106	167,980	188,793
Private pension plan payments <sup>2</sup> .....	14,398	37,560	54,325	66,683	76,683	98,450	122,209	148,811	168,948
Short-term sickness and disability <sup>3</sup> .....	43,396	6,280	6,884	6,993	7,673	8,216	8,248	9,014	9,615
Long-term disability <sup>4</sup> .....	( <sup>5</sup> )	1,282	1,688	1,817	1,874	1,937	2,263	2,293	2,295
Life insurance and death <sup>5</sup> .....	3,195	4,339	5,264	5,417	5,742	6,245	6,498	6,814	7,031
Education .....	16,626	26,751	32,697	35,911	38,872	42,634	45,612	49,519	52,913
Welfare and other services .....	9,990	21,455	25,362	27,624	30,451	33,825	37,543	41,838	47,112

<sup>1</sup> Includes accidental death and dismemberment and supplemental unemployment benefits, not shown separately.  
<sup>2</sup> Covers benefits paid for solely by employers and all benefits of employment-related pension plans to which employee contributions are made. Excludes individual savings plans such as IRA's and Keogh plans. Pension plan benefits include monthly benefits and lump-sum distributions to retired and disabled employees and their dependents and to survivors of deceased employees. Also includes preretirement lump-sum distributions. <sup>3</sup> Covers wage and salary workers in private industry.  
<sup>4</sup> Long-term disability included with sickness and disability benefits. <sup>5</sup> Covers all wage and salary workers.

Source: U.S. Social Security Administration, *Annual Statistical Supplement to the Social Security Bulletin*, annual.

### No. 581. Social Welfare Expenditures Under Public Programs as Percent of GNP and Total Government Outlays: 1960 to 1988

[See headnote, table 582. For explanation of annual percent change, see Guide to Tabular Presentation]

YEAR	TOTAL EXPENDITURES				FEDERAL				STATE AND LOCAL GOVERNMENT			
	Total (bil. dol.)	Annual percent change <sup>1</sup>	Percent of—		Total (bil. dol.)	Annual percent change <sup>1</sup>	Percent of—		Total (bil. dol.)	Annual percent change <sup>1</sup>	Percent of—	
			Total GNP <sup>2</sup>	Total govt. outlays			Total GNP <sup>2</sup>	Total Federal outlays			Total GNP <sup>2</sup>	Total State and local outlays
1960 .....	52.3	8.3	10.3	38.4	25.0	9.0	4.9	28.1	27.3	7.7	5.4	60.1
1970 .....	145.6	10.8	14.7	46.5	77.1	11.9	7.8	40.0	68.4	9.6	6.9	57.9
1975 .....	289.1	14.7	19.0	56.6	166.8	16.7	11.0	53.6	122.3	12.3	8.0	61.6
1980 .....	492.0	11.2	18.4	57.1	302.4	12.6	11.3	54.2	189.5	9.2	7.1	62.9
1985 .....	732.0	8.3	18.5	52.2	449.3	8.2	11.4	48.6	282.7	8.3	7.2	60.2
1987 .....	833.3	6.7	18.8	53.4	496.2	5.1	11.2	50.0	337.1	9.2	7.6	60.0
1988 .....	885.8	6.3	18.5	55.6	523.1	5.4	10.9	49.1	362.6	7.6	7.6	60.1

<sup>1</sup> Change from prior year shown; for 1960, change from 1950. <sup>2</sup> Gross national product.

Source: U.S. Social Security Administration, *Social Security Bulletin*, May 1991.

**No. 582. Social Welfare Expenditures Under Public Programs: 1960 to 1988**

[In millions of dollars, except percent. For fiscal years ending in year shown; see text, section 9. Represents outlays from trust funds (mostly social insurance funds built up by earmarked contributions from insured persons, their employers, or both) and budgetary outlays from general revenues. Includes administrative expenditures, capital outlay, and some expenditures and payments outside U.S. See table 583 for program detail. For explanation of annual percent change, see Guide to Tabular Presentation. See *Historical Statistics, Colonial Times to 1970*, series H 1-47, for related but not comparable data]

YEAR	SOCIAL WELFARE OUTLAYS		Social insurance	Public aid	Health and medical programs <sup>1</sup>	Veterans programs	Education	Housing	Other social welfare	All health and medical care <sup>2</sup>
	Total	Annual percent change								
TOTAL										
1960	52,293	<sup>3</sup> 8.3	19,307	4,101	4,464	5,479	17,626	177	1,139	8,395
1970	145,555	10.8	54,691	16,488	9,606	9,078	50,845	701	4,145	25,061
1975	289,084	14.7	123,013	41,357	16,742	17,019	80,834	3,172	6,947	51,401
1980	491,986	11.2	229,754	71,975	27,263	21,466	121,050	6,879	13,599	100,259
1985	732,042	8.3	369,595	98,154	39,053	27,042	172,048	12,598	13,552	173,332
1986	782,305	6.9	390,770	104,747	43,945	27,445	189,276	11,962	14,161	187,884
1987	833,265	6.5	412,862	110,981	48,371	28,051	204,549	13,174	15,278	204,197
1988	885,767	6.3	432,195	120,375	52,540	29,254	219,368	16,556	15,480	219,613
FEDERAL										
1960	24,957	<sup>3</sup> 9.0	14,307	2,117	1,737	5,367	868	144	417	2,918
1970	77,130	11.9	45,246	9,649	4,568	8,952	5,876	582	2,259	16,363
1975	166,795	16.7	99,715	27,186	7,890	16,570	8,629	2,541	4,284	33,469
1980	302,438	12.6	191,162	48,666	12,840	21,254	13,452	6,278	8,786	68,939
1985	449,296	8.2	310,175	61,985	18,029	26,704	13,796	11,059	7,548	122,950
1986	471,177	4.9	326,016	65,722	19,433	27,072	15,022	10,090	7,822	130,664
1987	496,211	5.3	342,920	69,233	20,806	27,641	16,062	11,044	8,504	141,220
1988	523,145	5.4	358,412	74,137	22,681	28,845	16,952	14,006	8,112	149,102
STATE AND LOCAL										
1960	27,337	<sup>3</sup> 7.7	4,999	1,984	2,727	112	16,758	33	723	3,478
1970	68,425	9.6	9,446	6,839	5,038	126	44,970	120	1,886	8,898
1975	122,289	12.3	23,298	14,171	8,852	449	72,205	631	2,683	17,932
1980	189,548	9.2	38,592	23,309	14,423	212	107,597	601	4,813	31,320
1985	282,746	8.3	59,420	36,169	21,024	338	158,251	1,540	6,004	50,382
1986	311,128	10.0	64,754	39,026	24,512	373	174,253	1,872	6,338	57,220
1987	337,054	8.3	69,941	41,748	27,565	410	188,487	2,129	6,773	62,977
1988	362,622	7.6	73,783	46,237	29,859	409	202,416	2,550	7,368	70,511
PERCENT OF TOTAL EXPENDITURES, BY TYPE										
1960	100.0	(X)	36.9	7.8	8.5	10.5	33.7	0.3	2.2	12.2
1970	100.0	(X)	37.6	11.3	6.6	6.2	34.9	0.5	2.8	17.2
1980	100.0	(X)	46.7	14.6	5.5	4.4	24.6	1.4	2.8	20.4
1985	100.0	(X)	50.5	13.4	5.3	3.7	23.5	1.7	1.9	23.7
1987	100.0	(X)	49.5	13.3	5.8	3.4	24.5	1.6	1.8	24.5
1988	100.0	(X)	48.8	13.6	5.9	3.3	24.8	1.9	1.7	27.8
PERCENT FEDERAL OF TOTAL										
1960	47.7	(X)	74.1	51.6	38.9	98.0	4.9	81.4	36.6	45.6
1970	53.0	(X)	82.7	58.5	47.6	98.6	11.6	82.9	54.5	65.3
1980	61.5	(X)	83.2	67.6	47.1	99.0	11.1	91.3	64.6	68.8
1985	61.4	(X)	83.9	63.1	46.2	98.9	8.0	87.8	55.7	70.9
1987	59.6	(X)	83.1	62.5	43.0	98.5	7.8	83.9	55.7	69.2
1988	59.1	(X)	82.9	61.6	43.2	98.6	7.7	84.6	52.4	67.9
PER CAPITA (Current dollars) <sup>4</sup>										
1960	285	<sup>3</sup> 6.4	105	22	24	30	96	2	6	35
1970	698	9.4	262	79	46	43	244	4	20	120
1980	2,122	11.8	990	311	118	92	523	33	59	434
1985	3,008	7.2	1,516	404	161	111	708	52	56	714
1987	3,359	5.7	1,662	448	195	112	826	53	62	825
1988	3,538	5.3	1,724	482	210	116	878	66	62	879
PER CAPITA (Constant (1988) dollars) <sup>4 5</sup>										
1960	1,080	<sup>3</sup> 4.1	397	83	91	114	363	8	23	132
1970	2,025	6.5	760	229	133	125	708	12	58	348
1980	3,052	4.2	1,423	448	170	132	752	47	85	624
1985	3,355	1.9	1,691	451	180	124	790	58	62	797
1987	3,491	2.0	1,727	466	203	116	858	55	64	857
1988	3,538	1.3	1,724	482	210	116	878	66	62	879

X Not applicable. <sup>1</sup> Excludes program parts of social insurance, public aid, veterans, and other social welfare. <sup>2</sup> Combines "Health and medical programs" with medical services included in social insurance, public aid, veterans, vocational rehabilitation, and antipoverty programs. <sup>3</sup> Change from 1950. <sup>4</sup> Excludes payments within foreign countries for education, veterans, OASDHI, and civil service retirement. <sup>5</sup> Constant dollar figures are based on implicit price deflators for personal consumption expenditures published by U.S. Bureau of Economic Analysis; see table 779.

Source: U.S. Social Security Administration, *Social Security Bulletin*, May 1991.



### No. 583. Social Welfare Expenditures, by Source of Funds and Public Program: 1980 to 1988

[In millions of dollars. See headnote, table 582, and *Historical Statistics, Colonial Times to 1970*, series H 1-47, for related but not comparable data]

PROGRAM	FEDERAL				STATE AND LOCAL			
	1980	1985	1987	1988	1980	1985	1987	1988
<b>Total</b>	<b>302,438</b>	<b>449,296</b>	<b>496,211</b>	<b>523,145</b>	<b>189,548</b>	<b>282,746</b>	<b>337,054</b>	<b>362,822</b>
<b>Social insurance</b>	<b>191,162</b>	<b>310,176</b>	<b>342,920</b>	<b>358,412</b>	<b>38,592</b>	<b>59,420</b>	<b>69,941</b>	<b>73,783</b>
Old-age, survivors, disability, health	152,110	257,535	286,340	300,048	(X)	(X)	(X)	(X)
Health insurance (Medicare)	34,992	71,384	81,631	83,610	(X)	(X)	(X)	(X)
Public employee retirement	26,983	40,504	44,080	45,753	12,507	22,540	28,060	30,442
Railroad employee retirement	4,769	6,276	6,549	6,676	(X)	(X)	(X)	(X)
Unemployment insurance and employment services	4,408	2,804	2,947	2,965	13,919	15,740	15,099	13,152
Other railroad employee insurance	224	189	189	100	(X)	(X)	(X)	(X)
State temporary disability insurance	(X)	(X)	(X)	(X)	1,377	1,944	2,545	2,754
Workers' compensation	2,668	3,067	2,816	2,869	10,789	19,197	24,237	27,435
Hospital and medical benefits	130	280	348	367	3,596	6,800	9,271	10,743
<b>Public aid</b>	<b>48,686</b>	<b>61,965</b>	<b>69,233</b>	<b>74,137</b>	<b>23,309</b>	<b>36,169</b>	<b>41,748</b>	<b>46,237</b>
Public assistance	23,542	33,523	39,907	43,431	21,522	33,934	38,910	43,224
Medical vendor payments (Medicaid)	14,550	22,677	27,613	30,771	13,020	22,418	25,992	29,745
Social services	1,757	2,057	2,023	2,025	586	666	674	675
Supplemental security income	6,440	9,605	10,800	11,674	1,787	2,235	2,838	3,013
Food stamps	9,083	12,513	12,362	13,071	(X)	(X)	(X)	(X)
Other	9,601	6,344	6,164	5,961	(X)	(X)	(X)	(X)
<b>Health and medical programs</b>	<b>12,840</b>	<b>18,029</b>	<b>20,806</b>	<b>22,661</b>	<b>14,423</b>	<b>21,024</b>	<b>27,565</b>	<b>29,859</b>
Hospital and medical care	6,636	9,877	11,861	12,874	5,687	6,688	10,483	11,395
Civilian programs	2,438	2,455	2,736	3,088	5,667	6,688	10,463	11,395
Defense Department	4,198	7,422	9,125	9,786	(X)	(X)	(X)	(X)
Maternal and child health programs	351	422	441	468	519	800	1,146	1,218
Medical research	4,428	5,992	6,667	7,503	496	899	1,161	1,207
Medical facilities construction	210	339	264	(NA)	1,450	1,336	1,227	1,444
Other	1,215	1,399	1,573	1,836	6,291	11,301	13,568	14,595
<b>Veterans programs</b>	<b>21,254</b>	<b>26,704</b>	<b>27,641</b>	<b>26,645</b>	<b>212</b>	<b>338</b>	<b>410</b>	<b>409</b>
Pensions and compensation	11,306	14,333	14,522	14,914	(X)	(X)	(X)	(X)
Health and medical programs	6,204	9,493	10,503	11,331	(X)	(X)	(X)	(X)
Hospital and medical care	5,750	8,609	9,522	10,152	(X)	(X)	(X)	(X)
Hospital construction	323	458	772	964	(X)	(X)	(X)	(X)
Medical and prosthetic research	131	227	210	215	(X)	(X)	(X)	(X)
Education	2,401	1,171	742	653	(X)	(X)	(X)	(X)
Life insurance	865	796	938	963	(X)	(X)	(X)	(X)
Welfare and other	679	912	936	984	212	338	410	409
<b>Education</b>	<b>13,452</b>	<b>13,796</b>	<b>16,062</b>	<b>16,952</b>	<b>107,597</b>	<b>158,251</b>	<b>186,487</b>	<b>202,416</b>
Elementary and secondary	7,430	7,276	8,247	8,826	79,720	113,419	146,655	159,009
Construction	41	23	21	46	6,483	8,335	11,304	11,743
Higher	4,468	5,102	6,191	6,477	21,708	36,028	41,831	43,406
Construction	42	32	2	1	1,466	2,314	3,084	3,198
Vocational and adult	1,207	1,087	1,247	1,288	6,169	8,804	(12)	(12)
<b>Housing</b>	<b>6,278</b>	<b>11,059</b>	<b>11,044</b>	<b>14,006</b>	<b>601</b>	<b>1,540</b>	<b>2,129</b>	<b>2,550</b>
<b>Other social welfare</b>	<b>6,786</b>	<b>7,548</b>	<b>8,504</b>	<b>8,112</b>	<b>4,813</b>	<b>6,004</b>	<b>6,773</b>	<b>7,368</b>
Vocational rehabilitation	1,006	1,167	1,386	1,489	245	350	387	416
Medical services and research	237	275	319	343	56	85	94	101
Institutional care	74	121	130	138	408	259	384	393
Child nutrition	4,209	4,349	5,050	4,956	643	960	1,180	1,294
Child welfare	57	200	222	239	743	(NA)	(NA)	(NA)
Special CSA and ACTION programs	2,303	504	520	153	(X)	(X)	(X)	(X)
Welfare, not elsewhere classified	1,137	1,188	1,196	1,137	2,774	4,435	4,822	5,264

NA Not available. X Not applicable.

<sup>1</sup> Excludes refunds to those leaving service. Federal data include military retirement. <sup>2</sup> Includes compensation for Federal employees and ex-servicemen, trade adjustment and cash training allowance, and payments under extended, emergency, disaster, and special unemployment insurance programs. <sup>3</sup> Unemployment and temporary disability insurance. <sup>4</sup> Cash and medical benefits in 5 areas. Includes private plans where applicable. <sup>5</sup> Benefits paid by private insurance carriers. <sup>6</sup> State funds, and self-insurers. Federal includes black lung benefit programs. <sup>7</sup> Includes payments under State general assistance programs and work incentive activities, not shown separately. <sup>8</sup> Medical vendor payments are those made directly to suppliers of medical care. <sup>9</sup> Refugee assistance, surplus food for the needy, and work-experience training programs under the Comprehensive Employment and Training Act. Beginning 1985, includes low-income energy assistance program. <sup>10</sup> Includes medical care for military dependent families. <sup>11</sup> Excludes servicemen's group life insurance. <sup>12</sup> Federal expenditures include administrative costs (Department of Education) and research, not shown separately. <sup>13</sup> Beginning 1986, all state and local vocational education costs included with elementary-secondary. <sup>14</sup> Construction costs of vocational and adult education programs included under elementary-secondary expenditures. <sup>15</sup> Federal expenditures represent primarily surplus foods for nonprofit institutions. <sup>16</sup> Surplus food for schools and programs under National School Lunch and Child Nutrition Acts. <sup>17</sup> Represents primarily child welfare services under title V of the Social Security Act. <sup>18</sup> Includes domestic volunteer programs under ACTION and community action and migrant workers programs under Community Services Administration. <sup>19</sup> Federal expenditures include administrative expenses of the Secretary of Health and Human Services; Indian welfare and guidance; and aging and juvenile delinquency activities. State and local include antipoverty and manpower programs, child care and adoption services, legal assistance, and other unspecified welfare services.

Source: U.S. Social Security Administration, *Social Security Bulletin*, May 1991.

**No. 584. Cash and Noncash Benefits for Persons With Limited Income: 1985 to 1988**

[For years ending September 30, except as noted. Programs covered in this table provide cash, goods, or services to persons who make no payment and render no service in return. In case of job and training programs and some educational benefits, recipients must work or study for wages, training allowances, stipends, grants, or loans. Most of the programs base eligibility on individual, household, or family income, but some use group or area income tests; and a few offer help on the basis of presumed need.]

PROGRAM	AVERAGE MONTHLY RECIPIENTS (1,000)			EXPENDITURES (mil. dol.)					
				Total <sup>1</sup>			Federal		
	1985	1987	1988	1985	1987	1988	1985	1987	1988
<b>Total</b> .....	(X)	(X)	(X)	143,526	160,550	173,018	105,404	116,456	125,565
Medical care <sup>2</sup> .....	(X)	(X)	(X)	49,581	60,292	66,463	27,737	34,955	38,466
Medicaid <sup>3</sup> .....	<sup>4</sup> 21,814	<sup>4</sup> 23,183	<sup>4</sup> 23,930	41,150	49,329	54,304	22,844	27,960	30,567
Veterans <sup>5</sup> .....	<sup>6</sup> 504	<sup>6</sup> 570	<sup>6</sup> 585	<sup>7</sup> 3,053	<sup>7</sup> 3,035	<sup>7</sup> 5,855	<sup>7</sup> 3,053	<sup>7</sup> 5,035	<sup>7</sup> 5,855
General assistance .....	(NA)	(NA)	(NA)	<sup>7</sup> 3,125	<sup>7</sup> 3,652	<sup>7</sup> 3,927			
Indian Health Services .....	<sup>8</sup> 931	<sup>8</sup> 1,000	<sup>8</sup> 1,000	862	929	1,006	862	929	1,006
Maternal and child health services .....	(NA)	(NA)	(NA)	783	813	860	478	497	527
Community health centers .....	<sup>8</sup> 5,200	<sup>8</sup> 5,500	<sup>8</sup> 5,250	383	420	395	383	420	395
Cash aid <sup>2</sup> .....	(X)	(X)	(X)	38,119	44,089	47,619	24,969	29,269	32,181
A.F.D.C. <sup>3</sup> <sup>9</sup> .....	10,813	11,065	10,920	16,736	18,454	18,997	8,909	9,996	10,302
Unemployment Security Income <sup>3</sup> .....	4,305	4,569	4,302	11,857	13,744	14,687	<sup>10</sup> 9,603	<sup>10</sup> 10,893	<sup>10</sup> 11,663
Pensions for needy veterans <sup>11</sup> .....	<sup>12</sup> 14,889	<sup>12</sup> 12,267	<sup>12</sup> 12,201	3,842	3,790	3,862	3,842	3,790	3,862
General assistance .....	<sup>13</sup> 71,323	<sup>13</sup> 71,193	<sup>13</sup> 71,145	<sup>14</sup> 2,499	<sup>14</sup> 2,642	<sup>14</sup> 2,700			
Earned income tax credit .....	<sup>15</sup> 17,313	<sup>15</sup> 22,311	<sup>15</sup> 27,741	1,645	3,298	4,927	1,645	3,298	4,927
Food benefits <sup>2</sup> .....	(X)	(X)	(X)	20,391	21,060	21,490	19,362	19,893	20,247
Food stamps <sup>3</sup> <sup>13</sup> .....	21,400	20,600	20,100	13,470	13,535	14,369	12,599	12,539	13,289
School lunch program <sup>14</sup> .....	<sup>15</sup> 11,500	<sup>15</sup> 11,600	<sup>15</sup> 11,700	<sup>16</sup> 2,665	<sup>16</sup> 2,281	<sup>16</sup> 3,057	<sup>16</sup> 2,665	<sup>16</sup> 2,281	<sup>16</sup> 3,057
Women, infants and children <sup>17</sup> .....	3,138	3,430	3,598	1,500	1,664	1,802	1,500	1,664	1,802
Temporary emergency food assistance .....	(NA)	(NA)	(NA)	1,327	896	588	1,327	896	588
Nutrition program for elderly <sup>18</sup> .....	<sup>19</sup> 3,630	<sup>19</sup> 3,496	<sup>19</sup> 3,494	614	649	587	456	478	424
Housing benefits <sup>2</sup> .....	(X)	(X)	(X)	14,113	13,211	14,701	14,113	13,211	14,701
Lower-income housing asst. (Sec. 8) <sup>20</sup> .....	<sup>21</sup> 2,010	<sup>21</sup> 2,240	<sup>21</sup> 2,338	6,818	8,125	9,133	6,818	8,125	9,133
Low-rent public housing .....	<sup>22</sup> 191,355	<sup>22</sup> 191,390	<sup>22</sup> 191,393	3,408	2,161	2,526	3,408	2,161	2,526
Rural housing loans .....	<sup>23</sup> 20,411	<sup>23</sup> 20,244	<sup>23</sup> 20,262	21,790	21,144	21,271	21,190	21,144	21,271
Interest reduction payments .....	<sup>24</sup> 20,628	<sup>24</sup> 20,528	<sup>24</sup> 20,528	619	638	628	619	638	628
Rural rental housing loans .....	<sup>25</sup> 20,262	<sup>25</sup> 20,172	<sup>25</sup> 20,172	<sup>26</sup> 2,903	<sup>26</sup> 2,555	<sup>26</sup> 2,555	<sup>26</sup> 2,903	<sup>26</sup> 2,555	<sup>26</sup> 2,555
Education aid <sup>2</sup> .....	(X)	(X)	(X)	9,970	10,279	10,507	9,516	9,768	9,966
Pell grants .....	<sup>27</sup> 22,797	<sup>27</sup> 22,660	<sup>27</sup> 22,862	<sup>28</sup> 23,800	<sup>28</sup> 23,580	<sup>28</sup> 24,187	<sup>28</sup> 23,800	<sup>28</sup> 23,580	<sup>28</sup> 24,187
Guaranteed student loans .....	<sup>29</sup> 23,477	<sup>29</sup> 23,300	<sup>29</sup> 23,440	<sup>30</sup> 3,868	<sup>30</sup> 3,179	<sup>30</sup> 2,664	<sup>30</sup> 3,868	<sup>30</sup> 3,179	<sup>30</sup> 2,664
Head Start .....	448	447	448	1,309	1,413	1,508	1,047	1,130	1,206
College Work-Study Program .....	<sup>31</sup> 22,737	<sup>31</sup> 22,738	<sup>31</sup> 22,785	<sup>32</sup> 555	<sup>32</sup> 593	<sup>32</sup> 588	<sup>32</sup> 555	<sup>32</sup> 593	<sup>32</sup> 588
Supplemental Educational Opportunity Grants .....	<sup>33</sup> 22,720	<sup>33</sup> 22,689	<sup>33</sup> 22,660	<sup>34</sup> 23,375	<sup>34</sup> 23,395	<sup>34</sup> 23,408	<sup>34</sup> 23,375	<sup>34</sup> 23,395	<sup>34</sup> 23,408
Services <sup>2</sup> .....	(X)	(X)	(X)	5,084	5,587	5,542	3,551	3,607	3,562
Social services (Title 20) <sup>25</sup> .....	(NA)	(NA)	(NA)	4,258	4,680	4,680	2,725	2,700	2,700
Community services block grant .....	(X)	(X)	(X)	372	409	377	372	409	377
Jobs and training <sup>2</sup> .....	(X)	(X)	(X)	3,976	3,853	3,820	3,895	3,782	3,748
Training for disadvantaged adults and youth .....	<sup>35</sup> 27,350	<sup>35</sup> 27,393	<sup>35</sup> 27,414	<sup>36</sup> 28,186	<sup>36</sup> 28,184	<sup>36</sup> 28,180	<sup>36</sup> 28,186	<sup>36</sup> 28,184	<sup>36</sup> 28,180
Summer youth employment program <sup>37</sup> .....	<sup>38</sup> 29,785	<sup>38</sup> 29,723	<sup>38</sup> 29,604	<sup>39</sup> 28,725	<sup>39</sup> 28,750	<sup>39</sup> 28,718	<sup>39</sup> 28,725	<sup>39</sup> 28,750	<sup>39</sup> 28,718
Job Corps <sup>38</sup> .....	<sup>39</sup> 27,411	<sup>39</sup> 27,411	<sup>39</sup> 27,411	<sup>40</sup> 28,617	<sup>40</sup> 28,656	<sup>40</sup> 28,716	<sup>40</sup> 28,617	<sup>40</sup> 28,656	<sup>40</sup> 28,716
Senior community service employment program .....	<sup>41</sup> 30,64	<sup>41</sup> 30,66	<sup>41</sup> 30,65	<sup>42</sup> 28,362	<sup>42</sup> 28,673	<sup>42</sup> 28,668	<sup>42</sup> 28,326	<sup>42</sup> 28,336	<sup>42</sup> 28,331
Work incentive program .....	<sup>43</sup> 31,013	<sup>43</sup> 31,914	(NA)	297	140	103	267	126	93
Energy assistance <sup>2</sup> .....	(X)	(X)	(X)	2,292	2,179	1,946	2,261	1,971	1,764
Low-income energy assistance <sup>3</sup> .....	<sup>44</sup> 326,800	<sup>44</sup> 326,800	<sup>44</sup> 326,200	<sup>45</sup> 332,095	<sup>45</sup> 332,013	<sup>45</sup> 331,780	<sup>45</sup> 2,070	<sup>45</sup> 1,810	<sup>45</sup> 1,603
Other <sup>34</sup> .....	(X)	(X)	(NA)	(X)	(X)	930	(X)	(X)	930

- Represents zero. NA Not available. X Not applicable. <sup>1</sup> Includes State and local government expenditures not shown separately. <sup>2</sup> Includes other programs not shown separately. Expenditure data include administrative expenses. <sup>3</sup> Unduplicated annual number. <sup>4</sup> Medical care for veterans with a non-service-connected disability. <sup>5</sup> For 1985, estimated number of patients discharged from hospital during year. For other years, estimated number of inpatients. <sup>6</sup> Estimated. <sup>7</sup> Annual numbers. <sup>8</sup> Aid to Families with Dependent Children program. Excludes data for foster care program and child support operations (cost and collections). <sup>9</sup> Excludes Federal sums spent for SSI (State supplements) to Indo-Chinese refugees. <sup>10</sup> Includes dependents and survivors. <sup>11</sup> Estimate as of September. <sup>12</sup> Includes Puerto Rico's nutritional assistance program. <sup>13</sup> Free and reduced-price segments. <sup>14</sup> Estimated daily average. <sup>15</sup> Includes estimate of commodity assistance. <sup>16</sup> Special supplemental food program for women, infants and children. <sup>17</sup> No income test required but preference given to those with greatest need. <sup>18</sup> Units eligible for payment at end of year. <sup>19</sup> Represents total families or dwelling units during year. <sup>20</sup> Amount of loans obligated. <sup>21</sup> Total numbers for the school year ending in year shown. <sup>22</sup> Appropriation available for school year ending the fiscal year named. <sup>23</sup> Net obligations for school year beginning in fiscal year named. <sup>24</sup> Non-Federal expenditure data are rough estimates. <sup>25</sup> Programs represent specific titles under the Job Training and Partnership Act (JTPA). <sup>26</sup> Average monthly enrollment for program year. <sup>27</sup> Federal funds are appropriations. <sup>28</sup> Total participants (June-August). <sup>29</sup> Annual number of jobs authorized. <sup>30</sup> New registrants only. <sup>31</sup> Number of households that received heating and winter crisis aid. <sup>32</sup> Includes sums transferred by States to other programs. State spending includes funds received as "oil overcharge" settlements. <sup>33</sup> Represents State Legalization Impact Assistance Grants, first offered in 1988, to offset State and local costs of welfare, health care, and education provided to legalized aliens.

Source: Library of Congress, Congressional Research Service, "Cash and Noncash Benefits for Persons With Limited Income: Eligibility Rules, Recipient and Expenditure Data, FY 1986-88," Report No. 89-585 EPW, October 1989 and earlier reports.

**No. 585. Households Receiving Means-Tested Noncash Benefits: 1980 to 1989**

[In thousands, except percent. Households as of March of following year. Covers civilian noninstitutional population, including persons in the Armed Forces living off post or with their families on post. A means-tested benefit program requires that the household's income and/or assets fall below specified guidelines in order to qualify for benefits. The means-tested noncash benefits covered are food stamps, free or reduced-price school lunches, public or subsidized housing, and Medicaid. There are general trends toward under-estimation of noncash beneficiaries. Households are classified according to poverty status of family or nonfamily household; for explanation of poverty level, see text, section 14. Based on Current Population Survey; see text, section 1, and Appendix III]

TYPE OF BENEFIT RECEIVED	1980	1985	1986	1987	1989			
					Total	Below poverty level		Above poverty level
						Number	Percent distribution	
Total households	82,368	88,458	89,479	91,066	93,347	11,369	100.0	81,978
Receiving at least one noncash benefit	14,266	14,466	14,809	14,277	15,012	7,023	61.8	7,989
Not receiving cash public assistance	7,860	7,860	8,181	7,730	8,342	2,945	25.9	5,397
Receiving cash public assistance	6,407	6,607	6,628	6,547	6,669	4,078	35.9	2,591
Total households receiving—								
Food stamps	6,769	6,779	6,593	6,351	6,508	4,635	40.8	1,873
School lunch	5,532	5,752	5,979	5,778	5,943	3,066	27.0	2,877
Public housing	2,777	3,799	3,789	3,983	4,085	2,305	20.3	1,780
Medicaid	8,287	8,178	8,521	8,314	9,180	4,945	43.5	4,235

<sup>1</sup> Households receiving money from Aid to Families with Dependent Children program, Supplemental Security Income program or other public assistance programs.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, No. 155 and earlier reports and unpublished data.

**No. 586. Public Income-Maintenance Programs—Cash Benefit Payments: 1970 to 1989**

[Includes payments outside the United States and benefits to dependents, where applicable]

PROGRAM	PAYMENTS (bil. dol.)										PERCENT		
	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989	1970	1980	1989
Total <sup>1</sup>	60.6	228.1	282.9	298.6	309.1	335.4	356.8	372.2	392.0	(NA)	100.0	100.0	100.0
Percent of personal income <sup>2</sup>	7.3	10.1	10.6	10.5	9.9	9.9	10.1	9.8	9.6	(NA)	(X)	(X)	(X)
OASDI <sup>3</sup>	31.6	120.3	155.7	166.9	175.5	186.1	198.1	204.7	216.4	227.1	52.2	52.8	55.3
Public employee retirement <sup>4</sup>	9.2	40.6	51.4	55.0	59.0	63.0	66.9	72.1	76.2	(NA)	15.2	17.8	19.5
Railroad retirement	1.8	4.9	5.8	6.0	6.1	6.3	6.4	6.5	6.7	6.9	2.9	2.1	1.7
Veterans' pensions, compensation	5.5	11.4	13.3	13.7	13.8	14.3	14.5	14.5	14.9	15.0	9.1	5.0	3.8
Unemployment benefits <sup>5</sup>	4.2	18.9	21.1	19.2	13.6	14.4	16.0	14.4	13.2	13.5	7.0	8.3	3.4
Temporary disability benefits	0.7	1.4	1.6	1.6	1.8	1.8	2.1	2.5	2.8	(NA)	1.2	0.6	0.7
Workers' compensation <sup>6</sup>	2.0	9.7	11.3	11.9	13.3	22.3	24.7	27.1	29.7	(NA)	3.3	4.2	7.6
Public assistance	4.9	12.1	13.0	13.9	14.6	15.3	16.1	16.5	17.0	17.6	8.0	5.3	4.3
Supplemental Security Income <sup>7</sup>	(X)	7.9	9.0	9.5	10.4	11.1	12.9	13.6	14.7	15.2	(X)	3.4	3.7

NA Not available. X Not applicable. <sup>1</sup> Includes lump sum death benefits, not shown separately. Lump sum death benefits for State and local government employee retirement systems are not available beginning 1987. <sup>2</sup> For base data, see table 708. <sup>3</sup> Old-age, survivors, and disability insurance under Federal Social Security Act; see text, section 12. <sup>4</sup> Excludes refunds of contributions to employees who leave service. <sup>5</sup> Beginning 1981, covers State unemployment insurance, Ex-Servicemen's Compensation Act and railroad unemployment insurance only. <sup>6</sup> Includes black lung benefits. <sup>7</sup> Beginning 1975, Federal grants to States for aid to aged, blind, and disabled replaced by Supplemental Security Income programs; see text, section 12.

Source: U.S. Social Security Administration, *Social Security Bulletin*, monthly and unpublished data.

**No. 587. Estimated Workers Under Social Insurance Programs: 1970 to 1989**

[In millions. As of December, except as noted. See also *Historical Statistics, Colonial Times to 1970*, series H 51-56]

EMPLOYMENT AND COVERAGE STATUS	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total labor force <sup>1,2</sup>	88.2	109.1	110.7	112.7	113.5	115.7	117.5	119.8	122.0	123.8	125.7
Paid civilian population	77.6	98.9	99.0	98.4	102.2	105.5	107.7	110.2	113.3	115.6	117.4
Unpaid family workers	0.8	0.6	0.5	0.5	0.6	0.5	0.4	0.3	0.4	0.4	0.3
Unemployed	2.6	7.4	9.0	11.6	9.0	8.0	7.7	7.5	6.5	6.1	6.3
Armed Forces <sup>2</sup>	3.4	2.1	2.2	2.2	1.7	1.7	1.7	1.8	1.8	1.7	1.7
Civilian population covered by:											
Public retirement programs	75.3	96.4	96.4	95.7	99.5	104.4	106.6	109.1	112.2	114.5	116.3
OASDI <sup>3</sup>	69.2	89.3	89.5	88.9	92.7	98.0	100.3	102.9	106.0	108.4	110.3
Railroad retirement	0.6	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3
Public employees retirement <sup>4</sup>	5.5	6.6	6.4	6.4	6.4	6.0	6.0	5.9	5.9	5.8	5.8
Unemployment insurance	55.8	87.2	89.9	87.9	91.3	95.8	98.2	100.2	103.7	106.9	109.1
Workers' compensation	59.0	79.1	78.8	78.1	80.5	83.4	85.1	87.2	90.0	92.8	95.3
Temporary disability insurance	14.6	18.4	18.4	18.1	18.7	19.3	19.8	20.3	21.6	21.8	(NA)

NA Not available. <sup>1</sup> Data from U.S. Bureau of Labor Statistics and based on U.S. Bureau of the Census' Current Population Survey; see text, section 1, and Appendix III. <sup>2</sup> Excludes Armed Forces overseas beginning 1983. <sup>3</sup> OASDI=Old-age, survivors, disability, and health insurance. Excludes members of Armed Forces and railroad employees. <sup>4</sup> Data represent yearly averages. Excludes State and local government employees covered by both OASDI and their own retirement program.

Source: U.S. Social Security Administration, *Annual Statistical Supplement to the Social Security Bulletin*.

### No. 588. Social Insurance and Related Programs—Cash Beneficiaries and Benefits, by Program: 1980 to 1988

[Includes some beneficiaries and benefit payments for some programs in outlying areas. OASDHI=Old-age, survivors, disability, and health insurance, Federal programs under Social Security Act; see text, section 12. Partly estimated. See also *Historical Statistics, Colonial Times to 1970*, series H 125-171]

PROGRAM	BENEFICIARIES <sup>1</sup> (1,000)					AMOUNT OF BENEFITS (mil. dol.)				
	1980	1985	1986	1987	1988	1980	1985	1986	1987	1988
<b>Total</b> . . . . .	(X)	(X)	(X)	(X)	(X)	207,797	301,529	316,272	328,640	345,025
Percent of personal income . . . . .	(X)	(X)	(X)	(X)	(X)	9.2	9.1	9.0	8.7	8.5
<b>Retirement</b> <sup>2</sup> . . . . .	(X)	(X)	(X)	(X)	(X)	113,252	187,532	198,226	209,074	223,530
OASDHI . . . . .	22,267	25,739	26,157	26,755	27,168	77,905	132,298	140,418	146,836	156,696
Public employee retirement . . . . .	4,208	5,317	5,554	5,768	5,876	32,416	51,372	53,865	58,178	62,641
Federal civil service . . . . .	913	1,122	1,166	1,186	1,237	10,227	16,111	15,869	16,959	18,295
Other Federal employee . . . . .	1,149	1,283	1,299	1,313	1,337	11,397	16,078	16,390	16,681	17,725
State and local government . . . . .	2,146	2,912	3,089	3,269	3,302	10,792	19,183	21,607	24,538	26,621
Railroad retirement . . . . .	589	566	575	568	562	2,931	3,862	3,943	4,060	4,193
<b>Disability</b> <sup>2,4</sup> . . . . .	(X)	(X)	(X)	(X)	(X)	39,659	52,129	55,156	57,770	60,310
OASDHI . . . . .	4,729	3,873	3,715	4,034	4,046	15,437	18,647	19,524	20,414	21,386
Public employee retirement . . . . .	720	699	682	658	652	5,371	6,710	7,746	7,803	7,456
Federal civil service . . . . .	355	332	326	318	311	2,885	3,404	4,476	4,563	4,016
Other Federal employee . . . . .	157	144	144	143	143	1,275	1,459	1,437	1,433	1,479
State and local government . . . . .	208	223	212	196	198	1,211	1,848	1,833	1,807	1,961
Railroad retirement . . . . .	95	85	84	83	82	564	696	706	738	776
Veterans Admin. programs . . . . .	3,194	2,933	2,894	2,850	2,811	8,602	10,748	10,886	11,210	11,347
Workers' compensation . . . . .	(NA)	(NA)	(NA)	(NA)	(NA)	7,245	12,646	13,333	14,179	15,738
Black lung benefit program . . . . .	252	156	140	127	114	1,077	795	836	809	789
Temporary disability:										
State insurance . . . . .	199	169	148	152	157	1,300	1,844	2,067	2,545	2,754
Railroad insurance . . . . .	14	11	12	11	10	63	43	58	72	64
<b>Survivor monthly benefits</b> . . . . .	(X)	(X)	(X)	(X)	(X)	34,986	46,289	45,668	47,069	48,602
OASDHI . . . . .	8,260	7,162	7,127	7,184	7,222	26,654	34,807	33,785	35,029	35,664
Public employee retirement . . . . .	763	858	881	897	923	2,895	4,761	4,985	5,366	5,764
Federal civil service . . . . .	439	501	516	528	541	1,830	3,177	3,306	3,581	3,805
Other Federal employee . . . . .	71	114	128	136	147	301	616	677	734	830
State and local government . . . . .	253	243	237	233	235	664	968	1,002	1,041	1,129
Railroad retirement . . . . .	330	311	289	285	279	1,372	1,702	1,722	1,737	1,763
Veterans Admin. programs . . . . .	1,465	1,062	1,035	979	932	2,755	3,310	3,375	3,123	3,499
Workers' compensation . . . . .	(NA)	(NA)	(NA)	(NA)	(NA)	675	980	1,032	1,067	1,185
Black lung benefit program . . . . .	158	148	144	140	135	635	730	768	747	728
<b>Lump-sum payments</b> . . . . .	(X)	(X)	(X)	(X)	(X)	964	818	1,106	337	353
OASDHI . . . . .	(X)	(X)	(X)	(X)	(X)	395	143	136	138	142
Public employee retirement . . . . .	(X)	(X)	(X)	(X)	(X)	377	542	840	56	69
Federal civil service . . . . .	(X)	(X)	(X)	(X)	(X)	23	3	6	6	7
Other Federal employee . . . . .	(X)	(X)	(X)	(X)	(X)	3	6	6	6	7
State and local government . . . . .	(X)	(X)	(X)	(X)	(X)	352	502	778	(NA)	(NA)
Railroad retirement . . . . .	(X)	(X)	(X)	(X)	(X)	14	9	10	9	8
Veterans Admin. programs . . . . .	(X)	(X)	(X)	(X)	(X)	178	124	120	134	134
<b>Unemployment</b> . . . . .	(X)	(X)	(X)	(X)	(X)	18,935	14,761	16,116	14,391	12,230
State unemployment insurance . . . . .	2,830	2,409	2,391	2,032	1,833	18,756	14,629	15,988	14,276	12,159
Railroad unemployment insurance . . . . .	38	29	24	17	13	179	132	128	115	71

NA Not available. X Not applicable. <sup>1</sup> For old-age, survivors, disability, and health insurance, average monthly number; for public employee retirement systems, railroad retirement program, veterans programs, and the black lung benefit program, number on rolls June 30; for State unemployment and temporary disability insurance, average weekly number; for railroad unemployment and temporary disability insurance, average number during 14-day registration period. <sup>2</sup> Includes benefits to dependents where applicable. <sup>3</sup> Benefits for career military personnel (those with 20 years' service) are paid by the U.S. Dept. of Defense and are included under "Other Federal employee". <sup>4</sup> Excludes payments for medical care. <sup>5</sup> Payable in CA, NJ, NY, RI, and PR under public and private plans. Data for beneficiaries in NJ not available. <sup>6</sup> Lump sums are for burial of deceased veterans. <sup>7</sup> Includes payments made by the States as agents of the Federal Government under the Federal employees' unemployment compensation program and under the Ex-Servicemen's Compensation Act of 1958, and payment under the extended unemployment insurance programs, the Trade Expansion Act of 1962, the Disaster Relief Act of 1970 and the Trade Act of 1974. Beginning 1985, payments cover State unemployment insurance and Ex-Servicemen's Compensation Act only. Beneficiaries relate to regular State unemployment insurance, Federal employee (1980), and ex-servicemen programs only. Includes Puerto Rico.

Source: U.S. Social Security Administration, *Annual Statistical Supplement to the Social Security Bulletin*, and unpublished data.

### No. 589. Selected Social Insurance Programs—Estimated Payrolls of Covered Employment in Relation to Wages and Salaries: 1970 to 1988

[In billions of dollars, except percent. Data for Federal civilian and military personnel cover all areas. Gross amount before deduction of social insurance contributions. OASDI: Old-age, survivors, disability, and health insurance programs under Social Security Act; see text, section 12. See also *Historical Statistics, Colonial Times to 1970*, series H 57-69]

PROGRAM	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total earnings <sup>1</sup>	615	1,553	1,697	1,717	1,867	2,073	2,232	2,381	2,573	2,785
All wages and salaries	549	1,372	1,510	1,586	1,676	1,839	1,975	2,094	2,250	2,431
Civilian	528	1,342	1,475	1,546	1,634	1,794	1,926	2,044	2,198	2,378
Payrolls covered by—										
Retirement programs <sup>2</sup>	528	1,318	1,445	1,529	1,614	1,782	1,904	2,029	2,177	2,371
OASDI <sup>3</sup>	480	1,229	1,348	1,423	1,502	1,665	1,779	1,899	2,042	2,227
Railroad retirement <sup>4</sup>	6	13	13	13	12	13	13	12	12	12
Federal civil service	26	52	56	59	62	65	70	72	74	80
State and local government	53	123	135	143	153	162	175	190	203	219
Unemployment insurance <sup>5</sup>	389	1,303	1,433	1,500	1,583	1,739	1,970	1,983	2,046	2,215
Workers' compensation program <sup>6</sup>	441	1,136	1,247	1,301	1,382	1,516	1,618	1,725	1,845	1,997
Net earnings in self-employment covered by OASDI	48	98	99	99	109	117	122	139	156	166
Percent of civilian payrolls covered by—										
OASDI <sup>3</sup>	90.9	92.6	92.5	93.1	92.6	92.9	92.4	92.9	92.9	93.7
Railroad retirement <sup>4</sup>	1.2	1.0	0.9	0.8	0.7	0.7	0.7	0.6	0.5	0.5
Federal civil service retirement	5.0	3.9	3.8	3.9	3.8	3.7	3.6	3.5	3.4	3.4
State and local government retirement	10.1	9.2	9.2	9.2	9.4	9.0	8.1	9.3	9.2	9.2
Unemployment insurance	73.7	97.1	97.1	97.0	96.9	97.0	97.1	97.0	93.1	93.1
Workers' compensation programs <sup>6</sup>	83.6	84.6	84.5	84.1	84.6	84.5	84.0	84.4	84.0	84.0

<sup>1</sup> Data from U.S. Bureau of Economic Analysis. Earnings include self-employed; wages and salaries represent civilian and military pay in cash and in kind. <sup>2</sup> Adjusted for duplication in coverage by both OASDI and State and local government retirement systems. <sup>3</sup> Taxable plus estimated nontaxable wages and salaries. <sup>4</sup> Includes Armed Forces in all areas.

<sup>5</sup> Payrolls of employers insured with private carriers, State funds, or self-insured, and pay covered by Federal programs in all areas. <sup>6</sup> Percent computed after excluding Armed Forces payroll covered by OASDI.

### No. 590. Selected Social Insurance Programs—Source of Funds From Contributions and Transfers: 1970 to 1989

[In millions of dollars]

PROGRAM AND SOURCE OF FUNDS	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
Social Security trust funds:										
Old-age and survivors insurance (OASI)										
Employer	30,705	103,996	124,353	143,878	167,062	182,368	194,325	206,049	233,202	252,869
Employee	14,489	49,731	59,105	63,935	78,110	83,682	90,261	95,499	107,427	117,558
Self-employed	14,204	49,438	58,918	63,731	73,991	83,400	89,796	95,122	106,913	116,783
Government	1,564	4,289	5,649	5,049	6,632	7,720	8,755	10,122	13,059	13,502
Tax credits <sup>1</sup>	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Taxation of benefits <sup>2</sup>	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Disability insurance (DI)	4,497	13,385	22,159	19,112	16,135	18,430	18,637	19,655	22,100	24,089
Employer	2,154	6,307	10,597	8,379	7,536	8,119	8,703	9,282	10,301	11,274
Employee	2,117	6,254	10,574	8,339	7,142	8,087	8,658	9,253	10,252	11,197
Self-employed	210	694	824	830	741	776	856	982	1,257	1,297
Government <sup>1</sup>	16	130	174	1,565	92	1,048	31	21	27	30
Tax credits <sup>2</sup>	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Taxation of benefits <sup>3</sup>	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Hospital insurance (HI) <sup>4</sup>	5,820	24,982	35,976	41,283	43,571	48,035	55,648	59,595	63,451	68,884
Employer	2,379	11,591	16,791	18,187	20,396	22,613	25,986	27,750	29,233	32,258
Employee	2,332	11,518	16,734	18,128	20,356	22,549	25,879	27,637	29,086	32,045
Self-employed	169	739	1,061	943	1,381	1,970	2,308	2,805	3,555	3,519
Government <sup>1</sup>	874	671	1,015	3,639	899	47	657	580	596	86
Tax credits <sup>2</sup>	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Supplementary medical insurance (SMI) <sup>5</sup>										
Aged	2,189	10,466	15,981	19,097	22,221	23,863	23,524	30,969	34,964	41,637
Disabled	1,096	2,707	3,341	3,845	4,721	5,105	5,218	6,747	7,983	9,793
Government	(X)	304	356	391	445	508	504	661	778	993
Railroad retirement <sup>6</sup>	1,093	7,455	12,284	14,861	17,054	18,250	17,802	23,560	26,203	30,852
Employer	968	2,630	3,304	3,604	4,803	4,966	4,811	4,858	4,596	(NA)
Employee	510	1,722	2,036	2,014	2,379	2,417	2,413	2,370	2,669	(NA)
Government <sup>1</sup>	439	594	858	849	1,022	1,110	1,120	1,102	1,279	(NA)
Federal civil service	19	313	410	741	1,068	1,099	873	285	430	(NA)
Employer (Federal and DC govt.)	3,870	19,986	23,964	25,124	25,566	27,160	27,718	27,785	28,802	(NA)
Employee	2,001	16,220	18,736	20,673	20,900	22,472	23,022	23,144	24,258	(NA)
State and local government <sup>6</sup>	1,869	3,766	4,228	4,451	4,666	4,688	4,696	4,641	4,544	(NA)
Employer (government)	7,895	25,654	30,782	32,790	34,309	37,455	39,185	41,597	46,709	(NA)
Employee	4,920	18,776	22,366	24,050	25,305	27,699	28,599	30,356	34,894	(NA)
Government <sup>1</sup>	2,975	6,878	8,416	8,740	9,004	9,756	10,586	11,241	11,815	(NA)

NA Not available. X Not applicable. <sup>1</sup> Represents cost of gratuitous military service wage credits and, for OASI only, Federal payments for special age-72 benefits. For HI only, also includes transfers of appropriations for HI benefits of persons not insured for cash benefits under OASI, DI, or railroad retirement and, beginning 1980, transfers for Professional Standards Review Organization expenditures. Beginning 1983, includes taxes on deemed wage credits for military service performed after 1956.

<sup>2</sup> See footnotes 5 and 6, table 591. <sup>3</sup> Revenues arising from application of income tax to up to half of the social security benefits of beneficiaries who have substantial amounts of other income. Minus sign (-) indicates tax refunds. <sup>4</sup> Includes other sources not shown separately. <sup>5</sup> Includes premiums paid on behalf of eligibles by State governments under "buy-in" arrangements.

<sup>6</sup> Excludes HI contributions and includes employer contributions to supplement benefit account. <sup>7</sup> Includes voluntary contributions to purchase additional annuity. <sup>8</sup> Estimated.

Source of tables 589 and 590: U.S. Social Security Administration, *Annual Statistical Supplement to the Social Security Bulletin*.

### No. 591. Social Security—Covered Employment, Earnings, and Contribution Rates: 1970 to 1989

[Includes Puerto Rico, Virgin Islands, American Samoa, and Guam. Represents all reported employment. Data are estimated. OASDI=Old-age, survivors, disability, and health insurance; SMI=Supplementary medical insurance. See also *Historical Statistics, Colonial Times to 1970*, series H 172-185]

ITEM	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
Workers with insured status <sup>1</sup>	Million	105.7	137.4	143.0	145.0	147.0	148.7	150.6	152.7	155.2	157.6
Male	Million	61.9	75.4	77.7	78.4	78.8	79.7	80.7	81.5	82.5	83.4
Female	Million	43.8	62.0	65.3	66.6	68.2	69.0	69.9	71.2	72.7	74.2
Under 25 years old	Million	17.7	25.5	25.3	24.4	23.1	22.3	21.9	21.3	21.2	20.8
25 to 34 years old	Million	22.3	34.9	37.3	38.0	39.7	39.9	40.0	40.6	41.0	41.2
35 to 44 years old	Million	19.0	22.4	24.3	25.9	27.2	28.5	29.8	31.2	32.3	33.5
45 to 54 years old	Million	19.0	18.6	18.6	18.6	18.8	19.0	19.3	19.8	20.5	21.4
55 to 59 years old	Million	7.8	9.2	9.2	9.2	9.1	9.1	9.0	8.9	8.8	8.7
60 to 64 years old	Million	6.3	7.9	8.3	8.4	8.6	8.7	8.8	8.7	8.7	8.7
65 to 69 years old	Million	5.1	6.7	7.0	7.1	7.1	7.3	7.5	7.6	7.7	7.9
70 years old and over	Million	8.5	12.1	13.0	13.4	13.4	13.9	14.3	14.7	15.0	15.4
Workers reported with—											
Taxable earnings <sup>2</sup>	Million	93	112	111	112	116	120	123	125	130	132
Maximum earnings <sup>2</sup>	Million	24	10	8	7	7	7	7	8	8	8
Earnings in covered employment	Bill. dol.	532	1,326	1,517	1,608	1,772	1,912	2,035	2,198	2,411	2,619
Reported taxable <sup>2</sup>	Bill. dol.	416	1,176	1,365	1,454	1,609	1,724	1,844	1,960	2,101	2,264
Percent of total	Percent	78.2	88.7	90.0	90.4	90.8	90.2	90.6	89.2	87.1	86.4
Average per worker:											
Total earnings <sup>2</sup>	Dollars	5,711	11,817	13,669	14,345	15,260	15,955	16,587	17,584	18,610	19,826
Taxable earnings <sup>2</sup>	Dollars	4,464	10,500	12,297	12,982	13,871	14,367	14,992	15,680	16,215	17,139
Annual maximum taxable earnings	Dollars	7,800	25,900	32,400	35,700	37,800	39,600	42,000	43,800	45,000	48,000
Maximum tax <sup>2</sup>	Dollars	374	1,588	2,171	2,392	2,533	2,792	3,003	3,132	3,380	3,605
Contribution rates for OASDI: <sup>4</sup>											
Each employer and employee	Percent	4.80	6.13	6.70	6.70	57.00	7.05	7.15	7.15	7.51	7.51
Self-employed <sup>5</sup>	Percent	6.90	8.10	9.35	9.35	14.00	14.10	14.30	14.30	15.02	15.02
SMI, monthly premium <sup>7</sup>	Dollars	5.30	9.80	12.20	12.20	14.60	15.50	15.50	17.90	24.80	31.90

<sup>1</sup> Fully insured for retirement and/or survivor benefits as of beginning of year. <sup>2</sup> Includes self-employment. <sup>3</sup> Employee's maximum tax; see footnote 5. <sup>4</sup> As of January 1, 1990 each employee and employer pays 7.65 percent and the self-employed pay 15.3 percent. <sup>5</sup> Employee pays 6.7 percent. Employee's additional 3 percent is supplied from general revenues. <sup>6</sup> Self-employed pays 11.3 percent in 1984, 11.8 percent in 1985, 12.3 percent in 1986 and 1987, and 13.02 percent in 1988 and 1989. The additional amount is supplied from general revenues. <sup>7</sup> 1970-82, as of July 1; beginning 1983, as of January 1. As of January 1, 1990 the monthly premium is \$29.90.

Source: U.S. Social Security Administration, *Annual Statistical Supplement to the Social Security Bulletin*, and unpublished data.

### No. 592. Social Security Trust Funds: 1970 to 1989

[In millions of dollars, except percent. See also *Historical Statistics, Colonial Times to 1970*, series H 238-242]

TYPE OF TRUST FUND	1970	1980	1983	1984	1985	1986	1987	1988	1989
<b>Old-age and survivors insurance (OASI):</b>									
Net contribution income	30,256	103,456	136,337	166,957	180,165	194,165	205,992	233,159	252,835
Interest received <sup>2</sup>	1,515	1,845	6,706	2,566	1,871	3,069	4,660	7,568	11,985
Benefit payments <sup>3</sup>	28,798	105,083	149,221	157,841	167,248	176,813	183,587	195,454	207,971
Assets, end of year	32,454	22,823	19,672	27,117	35,842	39,081	62,149	102,899	155,063
<b>Disability insurance (DI):</b>									
Net contribution income <sup>1</sup>	4,481	13,255	17,991	16,135	17,413	18,637	19,655	22,100	24,088
Interest received <sup>2</sup>	277	485	1,569	1,174	870	803	648	600	707
Benefit payments <sup>3</sup>	3,085	15,515	17,524	17,898	18,827	19,653	20,519	21,895	22,811
Assets, end of year	5,614	3,829	5,195	3,959	6,321	7,780	6,658	6,864	7,905
<b>Hospital insurance (HI):</b>									
Net contribution income <sup>1,7</sup>	4,881	23,866	38,169	42,468	47,703	54,717	58,780	62,570	68,505
Interest received <sup>2</sup>	158	1,149	3,285	3,150	3,362	3,619	4,874	6,364	6,790
Benefit payments	5,124	25,064	39,337	43,257	47,480	49,758	49,498	52,517	60,011
Assets, end of year	3,202	13,749	12,858	15,691	20,499	39,957	53,732	69,640	85,558
<b>Supplementary medical insurance (SMI):</b>									
Net premium income	1,096	3,011	4,236	5,187	5,613	5,722	7,409	8,761	10,785
Transfers from general revenue	1,093	7,455	14,861	17,054	18,250	17,802	23,560	26,203	30,852
Interest received	12	408	725	859	1,243	1,141	875	861	1,077
Benefit payments	1,975	10,635	18,106	19,661	22,947	26,239	30,820	33,970	38,365
Assets, end of year	188	4,530	7,070	9,698	10,824	8,291	8,394	8,990	12,201

<sup>1</sup> Includes deposits by States and deductions for refund of estimated employee-tax overpayment. Beginning in 1983, includes government contributions on deemed wage credits for military service in 1957 and later. Beginning 1984 includes tax credits on wages paid in 1984 and net earnings from self-employment in 1984-89; and taxation of benefits (OASI and DI, only). <sup>2</sup> Beginning in 1983, includes interest on advance tax transfers and interest on reimbursement for unnegotiated checks. Data for 1983 and 1984 reflect interest on deemed wage credits for military service performed after 1956. Data for 1983-1986 reflect interest on interfund borrowing. <sup>3</sup> Includes payments for vocational rehabilitation services furnished to disabled persons receiving benefits because of their disabilities. Beginning in 1983, amounts reflect deductions for unnegotiated benefit checks. <sup>4</sup> Data adjusted to reflect 12 months of benefit payments. <sup>5</sup> Includes \$18 billion borrowed from the DI and HI Trust Funds. Repayments on Jan. 31, 1985, reduced such amounts to \$13.2 billion. <sup>6</sup> Excludes \$5 billion lent to the OASI Trust Fund. Repayment on Jan. 31, 1985, reduced the total to \$2.5 billion. <sup>7</sup> Beginning in 1980, includes premiums from aged individuals enrolled in HI. <sup>8</sup> Excludes \$12 billion lent to the OASI Trust Fund. Repayment on Jan. 31, 1985, reduced the total to \$10.6 billion.

Source: U.S. Social Security Administration, *Annual Report of Board of Trustees, OASI, DI, HI, and SMI Trust Funds*. Also published in *Social Security Bulletin*, monthly.

**No. 593. Social Security (OASDI)—Benefits, by Type of Beneficiary: 1970 to 1989**

[A person eligible to receive more than one type of benefit is generally classified or counted only once as a retired-worker beneficiary. OASDI=Old-age, survivors, and disability insurance. See also headnote, table 591; Appendix III; and *Historical Statistics, Colonial Times to 1970*, series H 197-229]

TYPE OF BENEFICIARY	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>BENEFITS IN CURRENT-PAYMENT STATUS<sup>1</sup> (end of year)</b>										
<b>Number of benefits (1,000).</b>	<b>26,229</b>	<b>35,585</b>	<b>35,839</b>	<b>36,085</b>	<b>36,479</b>	<b>37,058</b>	<b>37,703</b>	<b>38,190</b>	<b>38,827</b>	<b>39,151</b>
Retired workers <sup>2</sup> (1,000)	13,349	19,562	20,763	21,419	21,906	22,432	22,980	23,440	23,858	24,327
Disabled workers <sup>3</sup> (1,000)	1,493	2,859	2,604	2,569	2,597	2,657	2,728	2,786	2,830	2,885
Wives and husbands <sup>2,4</sup> (1,000)	2,952	3,477	3,405	3,347	3,355	3,375	3,387	3,381	3,367	3,365
Children (1,000)	4,122	4,607	3,883	3,593	3,408	3,319	3,295	3,244	3,204	3,185
Under age 18	3,315	3,423	2,934	2,812	2,729	2,699	2,665	2,604	2,534	2,488
Disabled children <sup>5</sup>	271	450	472	488	506	526	545	561	574	586
Students <sup>6</sup>	537	733	476	293	173	94	84	79	96	91
Of retired workers	546	639	558	512	477	457	450	439	432	423
Of deceased workers	2,688	2,610	2,321	2,146	2,010	1,917	1,878	1,837	1,809	1,780
Of disabled workers	889	1,358	1,004	936	921	945	966	968	963	962
Widowed mothers <sup>7</sup> (1,000)	523	562	515	400	382	372	351	329	318	312
Widows and widowers <sup>2,8</sup> (1,000)	3,227	4,411	4,595	4,694	4,779	4,863	4,928	4,984	5,029	5,071
Parents <sup>9</sup> (1,000)	29	15	12	11	10	10	9	8	7	6
Special benefits <sup>9</sup> (1,000)	534	93	63	51	40	32	25	19	14	10
<b>Average monthly benefit, current dollars:</b>										
Retired workers <sup>2</sup>	118	341	419	441	461	479	489	513	537	567
Retired worker and wife <sup>2</sup>	199	567	702	743	780	814	831	873	914	966
Disabled workers <sup>3</sup>	131	371	441	456	471	484	488	508	530	556
Wives and husbands <sup>2,4</sup>	59	164	203	217	227	236	241	253	265	281
Children of retired workers	45	140	165	176	188	198	204	216	228	242
Children of deceased workers	82	240	285	298	314	330	337	352	368	385
Children of disabled workers	39	110	128	136	139	142	141	146	151	157
Widowed mothers <sup>7</sup>	87	246	303	309	322	332	338	353	368	388
Widows and widowers, nondisabled <sup>2</sup>	102	311	379	396	415	433	444	468	493	522
Parents <sup>9</sup>	103	276	335	350	364	378	386	407	428	454
Special benefits <sup>9</sup>	45	105	125	129	134	138	140	145	151	158
<b>Average monthly benefit, constant (1989) dollars:</b>										
Retired workers <sup>2</sup>	374	498	541	549	552	553	557	561	562	567
Retired worker and wife <sup>2</sup>	631	828	907	925	934	939	948	954	956	966
Disabled workers <sup>3</sup>	415	542	570	568	564	558	557	555	555	556
Wives and husbands <sup>2,4</sup>	187	240	262	270	272	272	275	278	277	281
Children of deceased workers	260	351	368	371	376	382	385	386	385	385
Widowed mothers <sup>7</sup>	276	359	391	385	386	383	386	386	385	388
Widows and widowers, nondisabled <sup>2</sup>	323	454	490	493	497	500	507	511	516	522
<b>BENEFITS AWARDED DURING YEAR (1,000)</b>										
<b>Number of benefits.</b>	<b>3,722</b>	<b>4,215</b>	<b>3,859</b>	<b>3,756</b>	<b>3,691</b>	<b>3,796</b>	<b>3,853</b>	<b>3,734</b>	<b>3,681</b>	<b>3,646</b>
Retired workers <sup>2</sup>	1,338	1,620	1,625	1,670	1,607	1,690	1,734	1,682	1,654	1,657
Disabled workers <sup>3</sup>	350	389	299	311	362	377	417	418	409	426
Wives and husbands <sup>2,4</sup>	436	469	430	436	425	440	441	411	391	380
Children	1,091	1,174	922	753	722	714	701	685	706	675
Widowed mothers <sup>7</sup>	112	108	87	82	74	72	69	65	63	60
Widows and widowers <sup>2,8</sup>	363	452	495	502	500	502	491	475	458	449
Parents <sup>9</sup>	2	1	1	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
Special benefits <sup>9</sup>	30	1	1	1	1	1	(Z)	(Z)	(Z)	(Z)
<b>BENEFIT PAYMENTS DURING YEAR (mil. dol.)</b>										
<b>Total amount <sup>11</sup></b>	<b>31,863</b>	<b>120,472</b>	<b>156,137</b>	<b>167,033</b>	<b>175,762</b>	<b>186,195</b>	<b>196,692</b>	<b>204,156</b>	<b>217,214</b>	<b>230,850</b>
Monthly benefits <sup>12</sup>	31,570	120,118	155,934	166,827	175,551	185,968	196,489	203,953	217,006	230,644
Retired workers <sup>2</sup>	18,437	70,359	95,123	103,578	109,957	116,823	123,584	126,513	136,987	146,027
Disabled workers <sup>3</sup>	2,448	12,817	14,810	15,196	15,623	16,483	17,409	18,053	19,165	20,314
Wives and husbands <sup>2,4</sup>	2,194	7,043	9,191	9,934	10,396	11,061	11,700	12,130	12,820	13,578
Children	3,517	10,514	11,302	10,782	10,651	10,710	10,899	10,956	11,337	11,539
Under age 18	2,701	7,374	8,312	8,330	8,401	8,502	8,687	8,516	8,695	8,725
Disabled children <sup>5</sup>	250	1,048	1,387	1,497	1,621	1,760	1,961	2,010	2,189	2,346
Students <sup>6</sup>	566	2,093	1,602	955	629	447	251	429	453	468
Of retired workers	303	1,142	1,223	1,143	1,135	1,140	1,166	1,183	1,219	1,249
Of deceased workers	2,760	7,389	8,204	7,911	7,775	7,762	7,843	7,846	8,120	8,254
Of disabled workers	454	1,982	1,875	1,728	1,741	1,809	1,890	1,926	1,999	2,036
Widowed mothers <sup>7</sup>	574	1,572	1,861	1,771	1,474	1,474	1,457	1,388	1,392	1,401
Widows and widowers <sup>2,8</sup>	4,055	17,638	23,488	25,425	27,325	29,330	31,345	32,833	35,233	37,723
Parents <sup>9</sup>	39	55	59	56	53	51	48	44	43	41
Special benefits <sup>9</sup>	306	119	100	85	71	57	47	36	29	21
Lump sum	294	355	203	205	212	207	203	203	208	206

Z Fewer than 500. <sup>1</sup> Benefit payment actually being made at a specified time with no deductions or with deductions amounting to less than a month's benefits; i.e., the benefits actually being received. <sup>2</sup> 62 years and over. <sup>3</sup> Disabled workers under age 65. <sup>4</sup> Includes wife beneficiaries with entitled children in their care and entitled divorced wives. <sup>5</sup> 18 years old and over. Disability began before age 19 and, beginning 1973, before age 22. <sup>6</sup> Full-time students aged 18-21 through 1984 and aged 18 and 19 beginning 1985. <sup>7</sup> Includes surviving divorced mothers with entitled children in their care and, beginning June 1975, widowed fathers with entitled children in their care. <sup>8</sup> Includes widows aged 60-61, surviving divorced wives aged 60 and over, disabled widows and widowers aged 50 and over; and beginning Jan. 1973, widowers aged 60-61. <sup>9</sup> Benefits for persons aged 72 and over not insured under regular or transitional provisions of Social Security Act. <sup>10</sup> Constant dollar figures are based on the consumer price index published by the U.S. Bureau of Labor Statistics; see table 770. <sup>11</sup> Represents total disbursements of benefit checks by the U.S. Dept. of the Treasury during the years specified. <sup>12</sup> Distribution by type estimated.

Source: U.S. Social Security Administration, *Annual Statistical Supplement to the Social Security Bulletin*, and unpublished data.

# **No. 594. Social Security—Beneficiaries, Annual Payments, and Average Monthly Benefit, 1970 to 1989, and by State and Other Areas, 1989**

[Number of beneficiaries in current-payment status and average monthly benefit as of December. See also headnote, table 593, and Appendix III]

YEAR, DIVISION, STATE, AND OTHER AREA	NUMBER OF BENEFICIARIES (1,000)				ANNUAL PAYMENTS (mil.dol.)				AVERAGE MONTHLY BENEFIT (dol.)		
	Total	Retired workers and dependents <sup>1</sup>	Survivors	Disabled workers and dependents	Total	Retired workers and dependents <sup>1</sup>	Survivors <sup>2</sup>	Disabled workers and dependents	Retired workers <sup>3</sup>	Disabled workers	Widows and widowers <sup>4</sup>
1970.....	26,229	17,093	6,470	2,665	31,863	21,076	7,721	3,067	118	131	102
1980.....	35,585	23,309	7,598	4,678	120,472	78,025	27,010	15,437	341	371	311
1983.....	36,085	25,021	7,251	3,813	167,033	114,133	35,369	17,530	441	456	396
1984.....	36,479	25,474	7,182	3,822	175,762	121,023	36,839	17,900	461	471	415
1985.....	37,058	25,989	7,162	3,907	186,195	128,536	38,824	18,836	479	484	433
1986.....	37,703	26,541	7,166	3,995	196,692	135,949	40,896	19,847	489	488	444
1987.....	38,190	26,988	7,157	4,045	204,156	141,329	42,315	20,512	513	508	468
1988.....	38,627	27,390	7,163	4,074	217,214	150,526	44,996	21,692	537	530	493
1989, total.....	39,151	27,853	7,170	4,129	230,850	160,352	47,625	22,873	567	556	522
United States.....	38,223	27,297	6,961	3,965	227,287	158,367	46,680	22,240	570	559	526
New England.....	2,109	1,589	333	187	12,909	9,503	2,352	1,054	(NA)	(NA)	(NA)
Maine.....	212	153	36	23	1,167	816	232	119	526	507	498
New Hampshire.....	158	120	24	14	955	709	168	78	570	552	544
Vermont.....	86	62	15	9	502	354	101	47	553	544	525
Massachusetts.....	956	717	153	86	5,801	4,234	1,081	486	570	546	550
Rhode Island.....	179	136	26	17	1,080	802	182	96	566	525	541
Connecticut.....	518	401	79	38	3,404	2,588	588	228	622	562	582
Middle Atlantic.....	6,231	4,580	1,089	562	39,561	28,405	7,781	3,375	(NA)	(NA)	(NA)
New York.....	2,805	2,056	475	273	17,887	12,887	3,357	1,643	606	580	561
New Jersey.....	1,212	905	203	104	7,933	5,821	1,477	635	620	580	573
Pennsylvania.....	2,214	1,618	411	185	13,741	9,697	2,947	1,097	585	577	551
East North Central.....	6,713	4,755	1,260	698	41,776	28,735	8,969	4,072	(NA)	(NA)	(NA)
Ohio.....	1,781	1,233	355	193	10,854	7,236	2,510	1,108	581	581	549
Indiana.....	900	635	166	99	5,590	3,845	1,178	567	591	577	552
Illinois.....	1,736	1,252	323	162	10,987	7,736	2,300	951	604	579	563
Michigan.....	1,468	1,027	277	164	9,296	6,306	1,995	995	605	610	562
Wisconsin.....	828	610	139	80	5,049	3,612	986	451	582	562	546
West North Central.....	2,991	2,190	539	281	17,483	12,392	3,656	1,435	(NA)	(NA)	(NA)
Minnesota.....	660	496	114	50	3,839	2,777	779	283	552	544	522
Iowa.....	520	385	93	41	3,097	2,212	654	231	569	551	531
Missouri.....	903	640	166	98	5,240	3,606	1,096	538	554	545	515
North Dakota.....	111	81	22	9	615	427	143	45	534	524	492
South Dakota.....	127	92	24	11	684	479	151	54	524	501	491
Nebraska.....	265	198	47	20	1,555	1,121	325	109	562	537	532
Kansas.....	405	300	73	32	2,453	1,770	508	175	579	542	542
South Atlantic.....	6,977	4,956	1,250	771	39,986	27,770	7,985	4,251	(NA)	(NA)	(NA)
Delaware.....	102	74	18	10	634	450	124	60	590	567	546
Maryland.....	599	434	114	51	3,611	2,524	775	312	566	573	533
District of Columbia.....	78	55	15	7	403	279	86	38	486	499	449
Virginia.....	816	562	158	96	4,566	3,049	993	524	532	540	484
West Virginia.....	368	226	84	58	2,110	1,249	548	313	561	593	495
North Carolina.....	1,046	718	196	132	5,738	3,875	1,152	711	526	521	454
South Carolina.....	529	349	104	76	2,882	1,884	596	402	526	524	450
Georgia.....	863	557	178	127	4,688	2,976	1,051	661	524	526	460
Florida.....	2,576	1,980	383	213	15,354	11,484	2,640	1,230	566	566	538
East South Central.....	2,588	1,652	551	385	13,742	8,542	3,241	1,959	(NA)	(NA)	(NA)
Kentucky.....	636	398	137	102	3,404	2,052	827	525	518	551	465
Tennessee.....	809	537	163	109	4,402	2,851	985	566	526	524	464
Alabama.....	697	444	154	99	3,719	2,304	908	507	521	528	456
Mississippi.....	446	273	97	76	2,217	1,335	521	361	486	508	419
West South Central.....	3,773	2,533	816	424	20,899	13,614	5,088	2,197	(NA)	(NA)	(NA)
Arkansas.....	463	307	90	66	2,419	1,557	525	337	506	523	448
Louisiana.....	641	385	157	99	3,444	2,004	946	494	526	562	478
Oklahoma.....	524	370	104	50	2,946	2,011	664	271	541	536	496
Texas.....	2,145	1,471	465	209	12,090	8,042	2,953	1,095	549	546	504
Mountain.....	1,881	1,365	319	197	10,977	7,761	2,117	1,099	(NA)	(NA)	(NA)
Montana.....	135	96	24	16	777	532	160	85	554	568	526
Idaho.....	154	114	26	14	881	634	170	77	551	565	522
Wyoming.....	60	43	11	6	359	251	75	33	567	561	533
Colorado.....	408	291	72	45	2,372	1,628	490	254	554	552	524
New Mexico.....	212	144	41	27	1,144	764	247	133	536	546	486
Arizona.....	570	425	89	56	3,411	2,481	801	329	574	584	544
Utah.....	185	135	33	17	1,092	784	218	90	577	546	546
Nevada.....	156	117	23	16	941	687	156	98	568	576	543
Pacific.....	4,958	3,677	804	478	29,954	21,645	5,511	2,796	(NA)	(NA)	(NA)
Washington.....	698	523	110	66	4,300	3,131	779	390	588	573	555
Oregon.....	482	366	75	41	2,928	2,160	525	243	578	578	545
California.....	3,601	2,652	592	357	21,711	15,593	4,033	2,085	579	583	545
Alaska.....	32	21	7	4	185	118	44	23	570	559	501
Hawaii.....	145	115	20	10	830	643	130	57	559	541	499
Puerto Rico.....	558	310	107	141	2,002	1,034	434	534	360	453	324
Guam.....	5	3	1	(Z)	18	10	6	2	416	464	379
American Samoa.....	3	2	1	1	9	4	3	2	301	384	295
Virgin Islands.....	10	6	2	1	46	31	10	5	489	484	459
Abroad.....	353	234	97	22	1,487	906	492	89	416	500	408

NA Not available. Z Less than 500. <sup>1</sup> Includes special benefits; see footnote 9, table 593. <sup>2</sup> Includes lump-sum payments to survivors of deceased workers. <sup>3</sup> Excludes persons with special benefits. <sup>4</sup> Nondisabled only.  
Source: U.S. Social Security Administration, Quarterly in *Social Security Bulletin*.



**No. 595. Pension Plan Coverage of Workers, by Selected Characteristics: 1989**

[Covers workers as of March of following year who had earnings in year shown. Based on Current Population Survey; see text, section 1 and Appendix III]

SEX AND AGE	NUMBER WITH COVERAGE (1,000)				PERCENT OF TOTAL WORKERS			
	Total <sup>1</sup>	White	Black	Hispanic <sup>2</sup>	Total <sup>1</sup>	White	Black	Hispanic <sup>2</sup>
<b>Total</b> .....	<b>52,074</b>	<b>45,041</b>	<b>5,532</b>	<b>2,565</b>	<b>39.2</b>	<b>39.4</b>	<b>39.8</b>	<b>28.2</b>
Male .....	29,855	26,362	2,679	1,449	41.9	42.4	39.8	25.3
Under 65 years old .....	29,179	25,736	2,645	1,428	42.7	43.2	40.2	25.3
15 to 24 years old .....	1,553	1,340	183	121	12.1	12.1	13.3	9.0
25 to 44 years old .....	17,214	15,057	1,657	880	46.5	47.0	45.0	27.6
45 to 64 years old .....	10,412	9,339	806	427	56.1	56.7	52.9	38.2
65 years old and over .....	676	626	33	21	24.2	24.4	21.9	24.3
Female .....	22,219	18,679	2,854	1,116	36.1	35.7	39.9	27.6
Under 65 years old .....	21,744	18,251	2,813	1,106	36.5	36.2	40.3	27.8
15 to 24 years old .....	1,494	1,270	195	99	12.4	12.3	13.9	10.9
25 to 44 years old .....	13,336	11,094	1,823	717	41.6	41.2	46.1	32.0
45 to 64 years old .....	6,914	5,887	796	290	45.0	44.5	49.2	35.0
65 years old and over .....	475	428	41	10	23.4	23.8	21.6	17.9

<sup>1</sup> Includes other races, not shown separately. <sup>2</sup> Hispanic persons may be of any race.

Source: U.S. Bureau of the Census, unpublished data.

**No. 596. Private Pension Plans—Summary, by Type of Plan: 1975 to 1988**

["Pension plan" is defined by the Employee Retirement Income Security Act (ERISA) as "any plan, fund, or program which was heretofore or is hereafter established or maintained by an employer or an employee organization, or by both, to the extent that such plan (a) provides retirement income to employees, or (b) results in a deferral of income by employees for periods extending to the termination of covered employment or beyond, regardless of the method of calculating the contributions made to the plan, the method of calculating the benefits under the plan, or the method of distributing benefits from the plan." A defined benefit plan provides a definite benefit formula for calculating benefit amounts - such as a flat amount per year of service or a percentage of salary or a percentage of salary times years of service. A defined contribution plan is a pension plan in which the contributions are made to an individual account for each employee. The retirement benefit is dependent upon the account balance at retirement. The balance depends upon amounts contributed, investment experience, and, in the case of profit sharing plans, amounts which may be allocated to the account due to forfeitures by terminating employees. Employee Stock Ownership Plans (ESOP) (see table 890) and 401(k) plans are included among defined contribution plans. Data are based on Form 5500 series reports filed with the Internal Revenue Service]

ITEM	Unit	TOTAL				DEFINED CONTRIBUTION PLAN				DEFINED BENEFIT PLAN			
		1975	1980	1985	1988, prel.	1975	1980	1985	1988, prel.	1975	1980	1985	1988, prel.
Number of plans .....	1,000 ..	340.2	589.9	805.4	(NA)	232.8	410.5	580.9	(NA)	107.4	179.4	224.5	(NA)
Total participants <sup>1 2</sup> .....	Million ..	44.5	57.9	74.7	77.4	11.5	19.9	35.0	37.4	33.0	38.0	39.7	40.0
Active participants <sup>1 3</sup> .....	Million ..	38.4	49.0	62.3	63.6	11.2	18.9	33.2	35.3	27.2	30.1	29.0	28.3
Contributions .....	Bil. dol. .	37.1	66.2	95.1	100.5	12.8	23.5	53.1	70.5	24.2	42.6	42.0	30.0
Benefits <sup>4</sup> .....	Bil. dol. .	19.1	35.3	92.6	124.5	6.2	13.1	40.1	61.0	12.9	22.1	52.4	63.5

NA Not available. <sup>1</sup> Includes double counting of workers in more than one plan. <sup>2</sup> Total participants include active participants, vested separated workers, and retirees. <sup>3</sup> Any workers currently in employment covered by a plan and who are earning or retaining credited service under a plan. Includes any nonvested former employees who have not yet incurred breaks in service. <sup>4</sup> Benefits paid directly from trust and premium payments made from plan to insurance carriers. Excludes benefits paid directly by insurance carriers.

Source: U.S. Dept. of Labor, Pension and Welfare Benefits Administration, *Trends in Pensions*, 1989.

**No. 597. Assets of Private and Public Pension Funds, by Type of Fund: 1970 to 1989**

[In billions of dollars. As of end of year. Except for corporate equities, represents book value. Excludes Social Security trust funds, see table 592]

TYPE OF PENSION FUND	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>Total, all types</b> .....	<b>240.8</b>	<b>916.1</b>	<b>1,179.2</b>	<b>1,392.1</b>	<b>1,532.0</b>	<b>1,801.8</b>	<b>2,057.6</b>	<b>2,247.9</b>	<b>2,558.8</b>	<b>2,941.5</b>
Private funds .....	153.0	641.6	818.7	968.8	1,045.5	1,248.1	1,418.7	1,542.5	1,744.4	1,986.3
Insured .....	41.0	172.0	242.9	286.4	331.6	400.0	476.9	538.9	627.7	735.9
Noninsured <sup>1</sup> .....	112.0	469.6	575.8	682.5	713.9	848.1	941.8	1,003.5	1,116.7	1,250.4
Corporate equities <sup>2</sup> .....	67.9	230.6	286.2	320.8	317.5	412.3	482.8	489.5	575.6	719.3
U.S. Government securities .....	3.0	50.6	77.2	89.2	96.4	104.5	111.4	123.2	135.0	147.0
Corporate bonds .....	29.4	77.7	89.9	100.3	110.5	121.0	128.3	157.4	169.7	172.8
Time deposits .....	0.7	25.1	33.2	40.7	44.1	51.7	57.3	72.3	81.0	70.8
Public funds .....	87.8	274.5	360.5	423.2	486.5	553.5	639.9	705.5	814.2	955.2
State and local government .....	60.3	198.1	262.5	311.2	356.6	404.7	469.4	517.0	606.1	726.3
Corporate bonds <sup>3</sup> .....	35.1	94.5	107.3	106.6	118.1	129.0	139.8	141.7	160.6	197.3
Corporate equities <sup>2</sup> .....	10.1	44.3	60.2	89.6	96.5	120.1	150.2	169.6	219.7	285.0
U.S. Government securities .....	6.6	40.0	71.2	88.2	111.2	123.5	144.2	168.7	194.5	200.8
Other .....	8.6	19.2	23.9	26.8	30.7	32.1	35.3	37.0	41.3	43.2
U.S. Government .....	27.5	76.4	97.9	112.0	130.0	148.8	169.6	188.4	208.1	228.9
Civil service <sup>4</sup> .....	23.0	73.9	97.4	111.4	126.9	144.6	163.4	181.6	200.3	220.1
Railroad retirement .....	4.5	2.5	0.5	0.6	3.1	4.2	6.2	6.8	7.8	8.7

<sup>1</sup> Covers all pension funds of corporations, nonprofit organizations, unions, and multi-employer groups. Also includes deferred profit-sharing plans and Federal Employees Retirement System (FERS) Thrift Savings Fund. Excludes health, welfare, and bonus plans. Includes other types of assets not shown separately. <sup>2</sup> Includes mutual fund shares. <sup>3</sup> Includes foreign bonds. <sup>4</sup> Includes U.S. Foreign Service Retirement and Disability Trust Fund and the Federal Employees Retirement System.

Source: Board of Governors of the Federal Reserve System, *Flow of Funds Accounts, Financial Assets and Liabilities Year-End, 1964-87*; *Annual Statistical Digest*, and unpublished data.

### No. 598. Individual Retirement Accounts (IRA) Plans—Value, by Type of Holder: 1981 to 1989

[As of December 31. Estimated]

TYPE OF HOLDER	AMOUNT (bil. dol.)										PERCENT DISTRIBUTION		
	1981	1982	1983	1984	1985	1986	1987	1988	1989		1981	1985	1989
<b>Total</b> . . . . .	<b>26.1</b>	<b>52.4</b>	<b>91.3</b>	<b>132.1</b>	<b>199.7</b>	<b>277.1</b>	<b>333.8</b>	<b>393.0</b>	<b>465.4</b>		<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Savings institutions . . . . .	14.2	20.2	31.7	43.4	56.4	69.0	77.1	90.0	97.5		54.4	28.2	21.0
Commercial banks . . . . .	5.8	13.6	26.5	37.2	51.5	67.0	77.0	88.0	98.9		22.2	25.8	21.3
Mutual funds . . . . .	2.6	5.7	10.7	16.5	31.6	53.7	72.2	86.0	111.8		9.9	15.8	24.0
Self directed . . . . .	(NA)	5.5	8.4	14.6	29.4	44.9	58.9	68.0	82.0	(NA)		14.7	17.6
Life insurance companies . . . . .	3.3	5.8	9.0	12.6	16.9	22.0	26.0	36.0	49.0		12.6	8.5	10.5
Credit unions . . . . .	0.2	1.6	5.0	7.8	13.9	20.5	22.6	25.0	26.2		0.8	7.0	5.6

NA Not available.

Source: Investment Company Institute, Washington, DC, *Mutual Fund Fact Book*, annual. (Copyright.)

### No. 599. Public Employee Retirement Systems—Beneficiaries and Benefits: 1970 to 1988

[Number of beneficiaries as of end of year]

YEAR	Unit	Total	LEVEL OF GOVERNMENT				TYPE OF BENEFIT			
			Federal			State and local	Age and service	Disability	Survivor	
			Total <sup>1</sup>	Civil service	Armed Forces				Monthly	Lump-sum
<b>Beneficiaries:</b>										
1970 . . . . .	1,000 . .	3,050	1,759	958	773	1,291	2,204	419	427	(X)
1980 . . . . .	1,000 . .	5,659	3,052	1,675	1,330	2,607	4,200	708	751	(X)
1985 . . . . .	1,000 . .	6,890	3,512	1,971	1,487	3,378	5,271	745	874	(X)
1986 . . . . .	1,000 . .	7,120	3,582	2,008	1,517	3,538	5,557	682	878	(X)
1987 . . . . .	1,000 . .	7,323	3,625	2,032	1,535	3,698	5,768	658	897	(X)
<b>Benefits:</b>										
1970 . . . . .	Mil. dol.	9,355	6,075	2,820	3,133	3,280	7,210	1,312	645	189
1980 . . . . .	Mil. dol.	41,060	28,042	15,065	12,478	13,018	32,416	5,371	2,896	377
1985 . . . . .	Mil. dol.	63,413	40,912	22,840	17,416	22,501	50,562	7,623	4,684	544
1986 . . . . .	Mil. dol.	67,438	42,218	23,707	17,713	25,220	53,866	7,747	4,986	840
1987 . . . . .	Mil. dol.	71,412	44,026	25,163	18,061	27,386	58,178	7,812	5,366	256
1988 . . . . .	Mil. dol.	75,400	45,689	25,813	18,991	29,711	(NA)	(NA)	(NA)	(NA)
<b>Average annual benefit per annuitant, current dollars:</b>										
1970 . . . . .	Dollars .	3,005	3,440	(NA)	(NA)	2,413	3,271	3,136	1,512	(X)
1980 . . . . .	Dollars .	7,190	9,181	(NA)	(NA)	4,859	7,719	7,588	3,855	(X)
1985 . . . . .	Dollars .	9,137	11,659	(NA)	(NA)	6,512	9,592	10,232	5,556	(X)
1987 . . . . .	Dollars .	9,744	12,129	(NA)	(NA)	7,406	10,086	11,880	5,980	(X)
<b>Average annual benefit per annuitant, constant (1987) dollars:</b>										
1970 . . . . .	Dollars .	8,721	9,983	(NA)	(NA)	7,003	9,493	9,086	4,382	(X)
1980 . . . . .	Dollars .	10,335	13,199	(NA)	(NA)	6,520	11,096	10,906	5,544	(X)
1985 . . . . .	Dollars .	9,808	12,516	(NA)	(NA)	6,990	10,297	10,984	5,964	(X)
1987 . . . . .	Dollars .	9,744	12,129	(NA)	(NA)	7,406	10,086	11,880	5,980	(X)

NA Not available. X Not applicable. <sup>1</sup> Includes other Federal agencies, not shown separately. <sup>2</sup> Lump-sum payments for State and local government are not available. <sup>3</sup> Constant dollar figures are based on implicit price deflators for personal consumption expenditures supplied by U.S. Bureau of Economic Analysis.

Source: U.S. Social Security Administration, *Social Security Bulletin*, June 1990 and unpublished data.

### No. 600. Federal Civil Service Retirement: 1970 to 1989

[As of end of fiscal year or for fiscal year ending in year shown; see text, section 9. See also *Historical Statistics, Colonial Times to 1970*, series H 262-270]

ITEM	Unit	1970	1980	1983	1984	1985	1986	1987	1988	1989
Employees covered <sup>1</sup> . . . . .	1,000 . .	2,650	2,720	2,660	2,660	2,750	2,800	2,810	2,800	2,880
Annuitants, total . . . . .	1,000 . .	958	1,675	1,870	1,910	1,955	2,008	2,032	2,089	2,113
Age and service . . . . .	1,000 . .	477	905	1,045	1,082	1,122	1,166	1,166	1,237	1,260
Disability . . . . .	1,000 . .	185	343	343	338	332	326	318	311	303
Survivors . . . . .	1,000 . .	296	427	482	490	501	516	528	541	550
Receipts, total <sup>2</sup> . . . . .	Mil. dol.	4,683	24,389	34,772	36,734	40,790	43,216	43,640	46,696	49,302
Employee contributions . . . . .	Mil. dol.	1,740	3,686	4,399	4,808	4,679	4,714	4,841	4,544	4,490
Federal government contributions . . . . .	Mil. dol.	1,952	15,562	20,615	20,848	22,301	22,980	23,144	24,258	25,367
Disbursements, total <sup>3</sup> . . . . .	Mil. dol.	2,752	14,977	20,889	21,951	23,203	24,694	25,772	26,306	29,712
Age and service annuitants . . . . .	Mil. dol.	2,129	12,639	17,602	18,403	19,414	20,702	21,678	23,889	25,095
Survivors . . . . .	Mil. dol.	389	1,912	2,783	2,943	3,158	3,304	3,485	3,749	4,033
<b>Average monthly benefit:</b>										
Age and service . . . . .	Dollars .	362	992	1,150	1,149	1,189	1,197	1,267	1,263	1,312
Disability . . . . .	Dollars .	221	723	851	851	881	881	893	930	967
Survivors . . . . .	Dollars .	116	382	486	501	528	536	552	583	615
Cash and security holdings . . . . .	Bil. dol.	22.4	73.7	110.0	124.7	142.3	160.8	178.7	197.1	216.7

<sup>1</sup> Excludes employees in Leave Without Pay status. <sup>2</sup> Includes interest on investments. <sup>3</sup> Includes refunds, death claims, and administration. <sup>4</sup> Includes disability annuitants.

Source: U.S. Office of Personnel Management, *Compensation Report*, annual.

**No. 601. State and Local Government Retirement Systems—Beneficiaries and Finances: 1970 to 1988**

[In millions of dollars, except as indicated. For fiscal years closed during the 12 months ending June 30]

YEAR AND LEVEL OF GOVERNMENT	Number of beneficiaries (1,000)	RECEIPTS					BENEFITS AND WITHDRAWALS			Cash and security holdings
		Total	Em- ployee contri- butions	Government contributions		Earnings on investments	Total	Bene- fits	With- drawals	
				State	Local					
1970: All systems	(NA)	9,848	2,788	2,046	2,554	2,460	3,638	3,037	801	54,918
State-administered	(NA)	7,184	2,149	1,978	1,237	1,821	2,382	1,913	469	39,966
Locally administered	(NA)	2,664	639	67	1,318	639	1,256	1,124	132	14,952
1980: All systems	(NA)	37,313	6,466	7,581	9,951	13,315	14,008	12,207	1,801	185,226
State-administered	(NA)	28,603	5,285	7,399	5,611	10,308	10,257	8,809	1,448	144,682
Locally administered	(NA)	8,710	1,180	181	4,340	3,008	3,752	3,399	353	40,544
1985: All systems	3,378	71,731	9,479	12,227	15,172	34,852	24,413	21,999	2,414	374,433
State-administered	2,661	56,313	7,913	11,976	8,944	27,480	18,230	16,183	2,047	296,951
Locally administered	716	15,418	1,567	251	6,228	7,372	6,183	5,816	367	77,481
1988: All systems	3,709	97,580	11,882	13,108	17,534	55,056	32,138	29,724	2,414	557,821
State-administered	2,934	76,444	9,942	12,798	10,596	43,108	24,210	22,445	1,765	437,874
Locally administered	775	21,136	1,941	310	6,938	11,948	7,930	7,280	650	119,747

NA Not available.

Source: U.S. Bureau of the Census, *Finances of Employee-Retirement Systems of State and Local Governments*, series GF, No. 2, annual and *Census of Governments*, 1987, Vol. 4, No. 6, *Employee Retirement Systems of State and Local Governments*.**No. 602. State Unemployment Insurance—Summary: 1970 to 1989**

[See headnote, table 603]

ITEM	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
Insured unemployment, avg. weekly	1,000	1,805	3,350	4,061	3,396	2,478	2,611	2,641	2,330	2,081	2,157
Percent of covered employment	Percent	3.4	3.9	4.6	3.9	2.8	2.9	2.8	2.3	2.0	2.1
Percent of civilian unemployed	Percent	44.1	43.9	38.0	31.7	29.0	31.4	32.1	31.4	31.0	33.0
Unemployment benefits, avg. weekly	Dollars	50	99	119	124	123	127	135	140	145	152
Percent of weekly wage	Percent	35.6	37.5	37.2	37.6	35.8	35.3	35.8	35.3	34.9	35.4
Weeks compensated	Million	78.9	149.0	185.3	155.5	111.6	119.3	121.4	105.2	94.2	98.2
Beneficiaries, first payments	1,000	6,402	10,001	11,648	8,907	7,765	8,350	8,361	7,205	6,861	7,367
Average duration of benefits <sup>2</sup>	Weeks	12.3	14.9	15.9	17.5	14.4	14.3	14.5	14.6	13.7	13.3
Claimants exhausting benefits	1,000	1,295	3,072	4,175	4,180	2,600	2,575	2,688	2,409	1,979	1,940
Percent of first payment <sup>3</sup>	Percent	24.4	33.2	38.5	38.4	34.1	31.3	32.1	30.6	28.5	28.1
Contributions collected <sup>4</sup>	Bil. dol.	2.5	11.4	12.2	14.6	18.8	19.3	18.1	17.6	17.7	16.1
Benefits paid	Bil. dol.	3.8	13.8	20.7	17.8	12.6	14.0	15.4	14.2	13.2	14.3
Funds available for benefits <sup>5</sup>	Bil. dol.	11.9	11.4	7.5	7.3	11.6	16.0	19.6	23.2	31.1	36.9
Average employer contribution rate <sup>6</sup>	Percent	1.3	2.5	2.5	2.8	3.2	3.1	2.7	2.6	2.5	2.2

<sup>1</sup> Insured unemployment as percent of average covered employment in preceding year. <sup>2</sup> Weeks compensated divided by first payment. <sup>3</sup> Based on first payments for 12-month period ending June 30. <sup>4</sup> Contributions from employers; also employees in States which tax workers. <sup>5</sup> End of year. Sum of balances in State clearing accounts, benefit-payment accounts, and State accounts in Federal unemployment trust funds. <sup>6</sup> As percent of taxable wages.

**No. 603. State Unemployment Insurance, by State and Other Areas: 1989**[Includes unemployment compensation for State and local government employees where covered by State law. For State data on insured unemployment, see table 665. See also *Historical Statistics, Colonial Times to 1970*, series H 305-317]

STATE	Beneficiaries, first payments (1,000)	Benefits paid (mil.dol.)	Avg. weekly unemployment benefits (dol.)	STATE	Beneficiaries, first payments (1,000)	Benefits paid (mil.dol.)	Avg. weekly unemployment benefits (dol.)	STATE	Beneficiaries, first payments (1,000)	Benefits paid (mil.dol.)	Avg. weekly unemployment benefits (dol.)
<b>Total</b>	<b>7,367</b>	<b>14,299</b>	<b>152</b>	KY	112	159	128	OH	305	478	130
AL	152	153	108	LA	99	165	105	OK	50	95	145
AK	33	73	157	ME	44	68	149	OR	108	207	155
AZ	74	125	117	MD	89	199	167	PA	406	994	182
AR	83	126	131	MA	261	819	212	RI	48	110	182
CA	1,024	1,705	121	MI	393	939	190	SC	97	104	121
CO	74	148	161	MIN	123	323	185	SD	8	11	119
CT	119	271	191	MS	72	93	109	TN	164	187	109
DE	22	34	163	MO	161	244	127	TX	340	752	160
DC	19	72	200	MT	22	35	132	UT	31	59	160
FL	187	340	145	NE	27	36	120	VT	19	30	141
GA	210	254	136	NV	36	65	153	WA	131	136	141
HI	19	39	177	NH	32	26	125	WV	168	372	156
ID	37	55	139	NJ	268	757	192	WY	53	96	142
IL	303	768	160	NM	28	57	125	WI	172	318	156
IN	116	121	105	NY	544	1,402	166	WY	10	24	160
IA	73	130	156	NC	211	223	146	PR	108	111	76
KS	69	153	167	ND	15	27	134	VI	1	3	124

Source of tables 602 and 603: U.S. Employment and Training Administration, *Unemployment Insurance Data Summary*, annual.

## No. 604. Workers' Compensation Payments: 1970 to 1988

[In millions of dollars, except as indicated. See headnote, table 605. See also *Historical Statistics, Colonial Times to 1970*, series H 332-345]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
Workers covered <sup>1</sup> (mil.)	59	67	79	78	77	78	82	84	86	91	94
Premium amounts paid	4,894	8,872	22,256	23,014	22,764	23,030	25,122	29,190	33,963	38,095	42,905
Private carriers	3,578	6,344	15,744	16,164	15,398	15,384	16,632	19,500	22,771	25,448	28,538
State funds	699	1,278	3,008	2,900	2,640	2,695	2,975	3,518	4,506	5,319	6,183
Federal programs <sup>2</sup>	152	435	1,142	1,174	1,509	1,458	1,569	1,721	1,771	1,788	1,911
Self-insurers	465	916	2,363	2,776	3,217	3,493	3,946	4,451	4,915	5,541	6,273
Annual benefits paid	3,031	6,598	13,618	15,054	16,407	17,575	19,685	22,224	24,647	27,390	30,789
By private carriers <sup>3</sup>	1,843	3,422	7,029	7,876	8,647	9,265	10,610	12,341	13,827	15,453	17,512
From State funds <sup>4</sup>	755	2,324	4,330	4,595	4,768	5,061	5,376	5,743	6,248	6,782	7,442
Employers' self-insurance <sup>5</sup>	432	852	2,259	2,583	2,993	3,249	3,700	4,140	4,572	5,154	5,836
Type of benefit:											
Medical/hospitalization	1,050	2,030	3,947	4,431	5,058	5,681	6,424	7,501	8,654	9,940	11,540
Compensation payments	1,981	4,568	9,671	10,623	11,349	11,894	13,261	14,723	15,993	17,450	19,249
Disability	1,751	3,843	8,359	9,224	9,862	10,385	11,666	13,064	14,348	15,817	17,646
Survivor	230	725	1,312	1,399	1,488	1,509	1,595	1,659	1,645	1,633	1,603
Percent of covered payroll:											
Workers' compensation costs <sup>6 7</sup>	1.11	1.32	1.96	1.85	1.75	1.67	1.64	1.80	1.97	2.06	2.15
Benefits	0.66	0.83	1.07	1.08	1.16	1.17	1.21	1.30	1.37	1.43	1.49

<sup>1</sup> Estimated per month. <sup>2</sup> Includes Federal employer compensation program and that portion of Federal black lung benefits program financed from employer contributions. <sup>3</sup> Net cash and medical benefits paid under standard workers' compensation policies. <sup>4</sup> Net cash and medical benefits paid by competitive and exclusive State funds and by Federal workers' compensation programs, including black lung benefit program. <sup>5</sup> Cash and medical benefits paid by self-insurers, plus value of medical benefits paid by employers carrying workers' compensation policies that exclude standard medical coverage. <sup>6</sup> Premiums written by private carriers and State funds, and benefits paid by self-insurers increased by 5-10 percent to allow for administrative costs. Also includes benefits paid and administrative costs of Federal system for government employees. <sup>7</sup> Excludes programs financed from general revenue-black lung benefits and supplemental pensions in some States.

Source: U.S. Social Security Administration, *Annual Statistical Supplement to the Social Security Bulletin*.

## No. 605. Workers' Compensation Payments, by State: 1980 to 1988

[In millions of dollars. Calendar-year data, except fiscal-year data for Federal civilian and other programs and for a few States with State funds. Payments represent cash and medical benefits and include insurance losses paid by private insurance carriers (compiled from the *Spectator (Insurance by States . . . of Casualty Lines)*, from reports of State insurance commissions, and from A. M. Best Co.); net disbursements of State funds (from the *Spectator*, from *Argus Casualty and Surety Chart*, and from State reports), estimated for some states; and self-insurance payments, estimated from available State data. Includes benefit payments under Longshoremen's and Harbor Workers' Compensation Act and Defense Bases Compensation Act for States in which such payments are made]

STATE	1980	1985	1986	1987	1988	STATE	1980	1985	1986	1987	1988
Total	13,618	22,224	24,647	27,390	30,789	Nebraska	42	68	76	88	101
Alabama	112	203	244	274	311	Nevada	69	123	149	180	237
Alaska	60	109	129	139	120	New Hampshire	48	91	110	128	143
Arizona	120	198	210	222	301	New Jersey	316	501	547	627	682
Arkansas	83	129	143	160	177	New Mexico	54	140	148	146	168
California	1,628	3,243	3,745	4,251	4,810	New York	637	985	1,103	1,207	1,345
Colorado	114	284	355	402	474	North Carolina	131	236	245	272	334
Connecticut	147	305	347	434	496	North Dakota	17	33	38	44	44
Delaware	21	41	46	51	57	Ohio	776	1,387	1,457	1,562	1,716
District of Columbia	69	74	76	87	81	Oklahoma	127	289	294	289	302
Florida	362	815	979	1,178	1,422	Oregon	275	396	452	510	556
Georgia	185	360	427	510	581	Pennsylvania	572	998	1,101	1,272	1,499
Hawaii	60	133	135	137	151	Rhode Island	55	97	113	143	168
Idaho	37	66	67	70	85	South Carolina	79	152	162	186	208
Illinois	699	912	993	1,068	1,277	South Dakota	13	26	28	36	40
Indiana	110	152	171	202	245	Tennessee	129	204	234	289	341
Iowa	99	121	131	141	169	Texas	701	1,564	1,835	2,074	2,462
Kansas	84	142	157	175	197	Utah	39	80	92	126	116
Kentucky	161	225	245	274	293	Vermont	15	30	35	41	44
Louisiana	301	466	485	544	565	Virginia	182	276	313	354	409
Maine	81	194	245	277	314	Washington	324	619	629	678	705
Maryland	187	306	328	374	397	West Virginia	176	285	322	355	363
Massachusetts	296	510	638	734	859	Wisconsin	170	287	327	369	422
Michigan	626	769	793	885	1,010	Wyoming	22	47	50	45	46
Minnesota	260	453	478	490	502	Federal programs:					
Mississippi	60	98	122	137	155	Civilian employees	776	1,055	1,116	1,146	1,253
Missouri	124	237	270	320	379	Black lung					
Montana	41	102	123	138	150	benefits <sup>1</sup>	1,739	1,803	1,582	1,545	1,499
						Other <sup>2</sup>	8	7	9	8	8

<sup>1</sup> Includes payments by Social Security Administration and by Department of Labor. <sup>2</sup> Primarily payments made to dependents of reservists who died while on active duty in the Armed Forces.

Source: U.S. Social Security Administration, *Social Security Bulletin*, July 1988, April 1990, and March 1991.

**No. 606. Black Lung Benefit Program—Beneficiaries and Payments: 1975 to 1989**

[In thousands, except as indicated. Benefits payable to miners disabled because of pneumoconiosis and to their dependents and survivors as a result of Federal Coal Mine Health and Safety Act of 1969 and subsequent amendments and revisions. Claims by miners or their survivors are handled by the Social Security Administration (SSA) or the Department of Labor, depending upon the date the claim was filed. Claims filed by a miner by June 30, 1973, and those filed by survivors by December 31, 1973 were processed by SSA. Benefits under the program as administered by SSA are paid out of Federal general tax revenues. Claims filed by a miner between July 1 and December 31, 1973 and all claims filed after December 1973 were processed by Department of Labor and are paid by either a responsible mine operator or the Department of Labor]

TYPE OF BENEFICIARY	SOCIAL SECURITY ADMINISTRATION						DEPARTMENT OF LABOR					
	1975	1980	1985	1987	1988	1989	1975	1980	1985	1987	1988	1989
Beneficiaries, total <sup>1</sup>	482	399	295	259	242	226	(NA)	139	160	153	149	144
Miners	165	120	78	64	57	51	(NA)	53	61	57	54	52
Widows	139	147	138	132	127	123	(NA)	27	38	41	42	43
Dependents <sup>2</sup>	177	133	79	64	57	51	(NA)	59	61	55	52	49
Payments (mil. dol.)	950	1,030	1,025	940	905	885	10	707	574	605	595	591

NA Not available. <sup>1</sup> As of end of year. <sup>2</sup> Dependent wife or child or surviving child, parent, brother, or sister.

Source: U.S. Social Security Administration, *Social Security Bulletin*, monthly; and U.S. Department of Labor, Employment Standards Administration, *Black Lung Benefits Act, Annual Report*.

**No. 607. Persons With Work Disability, by Selected Characteristics: 1989**

[In thousands, except percent. As of March. Covers civilian noninstitutional population and members of Armed Forces living off post or with their families on post. Persons are classified as having a work disability if they (1) have a health problem or disability which prevents them from working or which limits the kind or amount of work they can do; (2) have a service-connected disability or ever retired or left a job for health reasons; (3) did not work in survey reference week or previous year because of long-term illness or disability; or (4) are under age 65, and are covered by Medicare or receive Supplemental Security Income. Based on Current Population Survey; see text, section 1 and Appendix III]

AGE AND PARTICIPATION STATUS IN ASSISTANCE PROGRAMS	Total <sup>1</sup>	Male	Female	White	Black	Hispanic <sup>2</sup>
<b>Persons with work disability</b>	<b>13,838</b>	<b>7,082</b>	<b>6,756</b>	<b>11,020</b>	<b>2,461</b>	<b>987</b>
16-24 years old	1,147	583	564	871	244	104
25-34 years old	2,325	1,280	1,045	1,847	410	159
35-44 years old	2,861	1,542	1,319	2,320	444	223
45-54 years old	2,757	1,375	1,382	2,162	530	203
55-64 years old	4,748	2,302	2,446	3,821	834	297
<b>Percent work disabled of total population</b>	<b>8.8</b>	<b>9.2</b>	<b>8.4</b>	<b>8.2</b>	<b>13.2</b>	<b>7.8</b>
16-24 years old	3.5	3.6	3.4	3.3	5.2	3.2
25-34 years old	5.4	6.0	4.8	5.1	7.6	4.0
35-44 years old	8.0	8.7	7.3	7.6	11.4	8.4
45-54 years old	11.2	11.5	10.9	10.2	20.6	12.3
55-64 years old	22.2	22.8	21.6	20.3	39.6	25.8
<b>Percent of work disabled—</b>						
Receiving Social Security income	28.9	29.8	27.9	29.2	28.7	25.7
Receiving food stamps	18.3	14.4	22.4	13.4	39.7	23.4
Covered by Medicaid	24.9	19.7	30.4	20.7	42.6	35.3
Residing in public housing	4.0	2.5	5.7	2.5	10.5	7.1
Residing in subsidized housing	3.4	2.6	4.2	2.5	6.6	4.5

<sup>1</sup> Includes other races not shown separately. <sup>2</sup> Hispanic persons may be of any race.

Source: U.S. Bureau of the Census, unpublished data.

**No. 608. Vocational Rehabilitation—Summary: 1970 to 1989**

[For fiscal years ending in year shown; see text, section 9. Includes Puerto Rico, Guam, Virgin Islands, American Samoa, Northern Mariana Islands and Trust Territory of the Pacific Islands. Vocational rehabilitation of the disabled defined as restoration, preservation, or development of the ability to function in productive activity. Rehabilitation services provided by State vocational rehabilitation agencies with matching State and Federal funds include medical restoration, training, counseling, guidance, and placement services. See also *Historical Statistics, Colonial Times to 1970*, series H 392-397]

ITEM	Unit	1970	1980	1983	1984	1985	1986	1987	1988	1989
Federal and State expenditures <sup>1</sup>	Mil. dol.	558	2,076	1,254	1,366	1,452	1,506	1,649	1,776	1,867
Federal expenditures	Mil. dol.	432	2,817	937	1,038	1,100	1,144	1,275	1,373	1,446
Applicants processed for program eligibility	1,000	606	717	602	594	594	594	594	606	624
Percent accepted into program	Percent	68	58	58	59	60	58	58	58	58
Total persons rehabilitated <sup>2</sup>	1,000	277	277	216	225	227	223	219	218	220
Rehabilitation rate <sup>3</sup>	Percent	77	64	62	63	64	63	63	63	63
Severely disabled persons rehabilitated <sup>3, 5</sup>	1,000	142	124	132	135	135	136	141	146	145
Rehabilitation rate <sup>4</sup>	Percent	61	59	61	62	62	62	62	62	62
Percent of total persons rehabilitated	Percent	51	57	58	59	61	62	65	67	67
Persons served total <sup>5</sup>	1,000	876	1,095	939	936	932	924	917	919	929
Persons served, severely disabled <sup>5, 6</sup>	1,000	606	562	565	581	580	584	602	625	625
Percent of total persons served	Percent	(NA)	55	60	62	63	64	66	67	67

NA Not available. <sup>1</sup> Includes expenditures only under the basic support provisions of the Rehabilitation Act. <sup>2</sup> Estimates based on amounts appropriated. <sup>3</sup> Persons successfully placed into gainful employment. <sup>4</sup> Persons rehabilitated as a percent of all active case closures (whether rehabilitated or not). <sup>5</sup> Severely disabled individuals fall into any of the following three categories: (a) clients with specified major disabling conditions such as blindness and deafness; (b) clients who at any time in the vocational rehabilitation process had been Social Security disability beneficiaries or recipients of Supplemental Security Income; and (c) other individuals with substantial loss in conducting certain specified activities. <sup>6</sup> Includes active cases accepted for rehabilitation services during year plus active cases on hand at beginning of year.

Source: U.S. Dept. of Education, Rehabilitation Services Administration, *Caseload Statistics of State Vocational Rehabilitation Agencies in Fiscal Years*, and *State Vocational Rehabilitation Agency Program Data in Fiscal Years*, both annual.

**No. 609. Protection Against Short-Term Sickness Income Loss: 1970 to 1988**

[In millions of dollars, except percent. "Short-term sickness" refers to short-term or temporary nonwork-connected disability (lasting not more than 6 months) and the first 6 months of long-term disability. See also *Historical Statistics, Colonial Times to 1970*, series H 115-124]

ITEM	1970	1980	1982	1983	1984	1985	1986	1987	1988
Short-term sickness: Income loss	16,757	38,529	45,201	48,565	54,419	59,145	62,982	67,868	73,171
<b>Total protection provided</b> <sup>1</sup>	<b>5,888</b>	<b>14,426</b>	<b>16,251</b>	<b>16,395</b>	<b>17,904</b>	<b>19,623</b>	<b>20,278</b>	<b>22,347</b>	<b>23,736</b>
Protection as percent of loss	35.1	37.4	36.0	33.8	32.9	33.2	32.2	32.9	32.4
Benefits provided by protection:									
Individual insurance	694	1,280	1,595	1,152	1,410	1,796	1,774	2,062	2,057
Group benefits to workers in private employment	2,952	7,633	8,498	8,614	9,115	9,897	10,011	11,252	11,982
Private cash insurance <sup>2</sup>	1,476	3,271	2,931	2,708	2,507	2,601	2,268	2,673	2,901
Publicly operated cash sickness funds <sup>3</sup>	411	770	987	1,008	968	1,179	1,255	1,696	1,779
Sick leave	1,066	3,593	4,581	4,899	5,640	6,116	6,488	6,883	7,302
Sick leave for government employees	2,242	5,338	6,026	6,490	7,218	7,736	8,299	8,826	9,478

<sup>1</sup> Provided by individual insurance, group benefits to workers in private employment, and sick leave for government employees. Beginning 1980 includes benefits for the sixth month of disability payable under old-age, survivors, disability, and health insurance program, not shown separately. <sup>2</sup> Group accident and sickness insurance and self-insurance privately written either on a voluntary basis or in compliance with State temporary disability insurance laws in CA, HI, NJ, and NY. Includes a small but undetermined amount of group disability insurance benefits paid to government workers and to self-employed persons through farm, trade, or professional associations. <sup>3</sup> Includes State-operated plans in RI, CA, and NJ; State Insurance Fund and special fund for disabled unemployed in New York; and provisions of Railroad Unemployment Insurance Act.

Source: U.S. Social Security Administration, *Social Security Bulletin*, May 1986 and unpublished data.

**No. 610. Federal Food Programs: 1970 to 1989**

[For fiscal years ending in year shown; see text, section 9. Program data include Puerto Rico, Virgin Islands, Guam, American Samoa, and the Trust Territory when a Federal food program was operated in these areas. All participation data are average monthly figures except as noted. Participants are not reported for the special milk program, the nutrition program for the elderly, and the commodity distribution programs. Cost data are direct Federal benefits to recipients; they exclude Federal administrative payments and applicable State and local contributions. Federal costs for commodities and cash-in-lieu of commodities are shown separately from direct cash benefits for those programs receiving both]

PROGRAM	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>Food Stamp:</b>											
Participants	Million	4.3	21.1	21.7	21.6	20.9	19.9	19.4	19.1	18.6	18.8
Federal cost	Mil. dol.	550	8,721	10,208	11,152	10,696	10,744	10,605	10,500	11,149	11,682
<b>Nutrition assistance program for Puerto Rico:</b> <sup>1</sup>											
Federal cost	Mil. dol.	(X)	(X)	206	825	825	825	820	853	879	908
<b>National school lunch program (NSLP):</b> <sup>2</sup>											
Free lunches served	Million	739	1,671	1,622	1,714	1,702	1,657	1,678	1,656	1,651	1,627
Reduced-price lunches served	Million	(NA)	308	262	253	248	255	257	259	262	263
Children participating	Million	22.4	26.6	22.9	23.0	23.4	23.6	23.7	23.9	24.2	24.2
Federal cost	Mil. dol.	300	2,279	2,185	2,402	2,508	2,578	2,714	2,797	2,908	3,006
<b>School breakfast (SB):</b> <sup>3</sup>											
Children participating	Million	0.5	3.6	3.3	3.4	3.4	3.4	3.5	3.6	3.7	3.8
Federal cost	Mil. dol.	11	288	317	344	364	379	406	447	474	512
<b>Special school milk:</b>											
Quantity reimbursed	Mil. 1/2 pt	2,902	1,795	202	189	174	167	162	163	194	190
Federal cost	Mil. dol.	101	145	18	17	16	16	15	15	19	19
<b>Women-infant-children:</b> <sup>4</sup>											
Participants	Million	(X)	2.0	2.3	2.7	3.2	3.3	3.5	3.6	3.8	4.4
Federal cost	Mil. dol.	(X)	603	785	937	1,156	1,235	1,304	1,379	1,486	1,553
<b>Child and adult care (CC):</b> <sup>5</sup>											
Participants	Million	0.1	0.7	0.8	0.9	1.0	1.0	1.1	1.2	1.3	1.4
Federal cost	Mil. dol.	6	207	290	305	348	390	427	476	535	612
<b>Summer feeding (SF):</b> <sup>6</sup>											
Children participating	Million	0.2	1.9	1.4	1.4	1.4	1.5	1.5	1.6	1.6	1.7
Federal cost	Mil. dol.	2	106	81	95	94	101	106	114	113	132
<b>Needy family commodity:</b>											
Participants	Million	3.8	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Federal cost	Mil. dol.	282	24	33	35	40	47	49	49	47	52
<b>Nutrition program for the elderly:</b>											
Meals served	Million	(X)	166	189	201	213	225	228	232	240	244
Federal cost	Mil. dol.	(X)	75	101	120	127	134	137	139	146	145
<b>Federal cost of commodities donated to:</b> <sup>7</sup>											
Child nutrition (NSLP, CC, SF and SB)	Mil. dol.	265	930	795	799	853	840	869	919	853	795
Charitable institutions, summer camps	Mil. dol.	23	71	111	151	190	170	240	158	158	136
Emergency feeding <sup>10</sup>	Mil. dol.	(X)	(X)	180	1,002	1,032	973	846	846	593	265

NA Not available. X Not applicable. <sup>1</sup> Puerto Rico was included in the food stamp program until June 30, 1982. <sup>2</sup> See headnote, table 611. <sup>3</sup> Nine month (September through May) average daily meals (lunches or breakfasts) served divided by the ratio of average daily attendance to enrollment. <sup>4</sup> Covers special supplemental food program (WIC) and commodity supplemental food program; excludes elderly persons served by the commodity supplemental food program. <sup>5</sup> Program provides year-round subsidies to feed preschool children in child care centers and family day care homes. Certain care centers serving disabled or elderly adults also receive meal subsidies. <sup>6</sup> Annual average daily attendance at participating institutions. <sup>7</sup> Program provides free meals to children in poor areas during summer months. <sup>8</sup> Peak month (July) average daily attendance at participating institutions. <sup>9</sup> Includes the Federal cost of commodity entitlements, cash-in-lieu of commodities, and bonus foods. <sup>10</sup> Provides free commodities to needy persons for home consumption through food banks, hunger centers, soup kitchens, and similar non-profit agencies.

Source: U.S. Dept. of Agriculture, Food and Nutrition Service. In *Agricultural Statistics*, annual; and unpublished data.

### No. 611. Federal Food Stamp and National School Lunch Programs, by State: 1980 to 1989

[Cost data for years ending Sept. 30. Food stamp participants, as of Sept. 30; food stamp households, average monthly number participating in year ending Sept. 30. Data on pupils participating in National School Lunch Program are for month in which most pupils participated nationwide. For National School Lunch Program, covers public and private elementary and secondary schools and residential child care institutions. National School Lunch Program costs include Federal cash reimbursements at rates set by law for each meal served but do not include the value of USDA donated commodities utilized in this program]

REGION, DIVISION, AND STATE	FOOD STAMP PROGRAM									NATIONAL SCHOOL LUNCH PROGRAM					
	Households participating, 1989		Persons (1,000)			Cost (mil. dol.)				Persons (1,000)			Cost (mil. dol.)		
	Num- ber (1,000)	Per- cent of all house- holds	1980	1985	1989	1980	1985	1989		1980	1985	1989	1980	1985	1989
<b>Total</b> <sup>1</sup>	<b>7,217</b>	<b>(NA)</b>	<b>22,028</b>	<b>19,198</b>	<b>18,957</b>	<b>8,721</b>	<b>10,744</b>	<b>11,682</b>		<b>27,011</b>	<b>24,051</b>	<b>24,773</b>	<b>2,279</b>	<b>2,578</b>	<b>3,006</b>
<b>U.S.</b>	<b>7,209</b>	<b>7.8</b>	<b>20,115</b>	<b>19,148</b>	<b>18,929</b>	<b>7,859</b>	<b>10,702</b>	<b>11,653</b>		<b>26,384</b>	<b>23,400</b>	<b>24,189</b>	<b>2,200</b>	<b>2,466</b>	<b>2,900</b>
<b>Northeast</b>	<b>1,443</b>	<b>7.5</b>	<b>4,379</b>	<b>3,910</b>	<b>3,353</b>	<b>1,686</b>	<b>2,112</b>	<b>2,032</b>		<b>4,969</b>	<b>4,057</b>	<b>4,089</b>	<b>426</b>	<b>432</b>	<b>466</b>
<b>N.E.</b>	<b>267</b>	<b>5.4</b>	<b>945</b>	<b>711</b>	<b>637</b>	<b>361</b>	<b>367</b>	<b>316</b>		<b>1,366</b>	<b>1,008</b>	<b>1,019</b>	<b>104</b>	<b>90</b>	<b>91</b>
ME	37	7.9	139	109	82	60	62	48		146	115	111	13	12	11
NH	10	2.4	53	26	23	22	15	12		101	86	93	7	6	6
VT	15	6.9	46	41	34	18	20	17		59	46	46	5	4	4
MA	136	6.1	446	329	322	171	173	154		703	479	474	49	42	42
RI	25	6.6	87	69	58	31	35	33		69	56	57	7	7	7
CT	43	3.6	174	139	118	59	62	53		288	226	238	23	20	21
<b>M.A.</b>	<b>1,176</b>	<b>8.3</b>	<b>3,434</b>	<b>3,199</b>	<b>2,716</b>	<b>1,325</b>	<b>1,745</b>	<b>1,715</b>		<b>3,603</b>	<b>3,048</b>	<b>3,070</b>	<b>322</b>	<b>342</b>	<b>375</b>
NY	650	9.5	1,804	1,753	1,447	726	938	930		1,593	1,486	1,547	171	192	219
NJ	137	4.8	600	440	361	226	260	232		679	551	516	58	57	58
PA	389	8.6	1,030	1,005	908	373	547	554		1,331	1,012	1,007	93	93	99
<b>Midwest</b>	<b>1,848</b>	<b>8.1</b>	<b>4,340</b>	<b>4,955</b>	<b>4,594</b>	<b>1,809</b>	<b>2,915</b>	<b>3,025</b>		<b>6,767</b>	<b>5,666</b>	<b>5,796</b>	<b>457</b>	<b>513</b>	<b>589</b>
<b>E.N.C.</b>	<b>1,414</b>	<b>8.9</b>	<b>3,382</b>	<b>3,907</b>	<b>3,468</b>	<b>1,261</b>	<b>2,341</b>	<b>2,359</b>		<b>4,401</b>	<b>3,615</b>	<b>3,685</b>	<b>310</b>	<b>357</b>	<b>402</b>
OH	449	10.8	928	1,113	1,060	382	697	752		1,156	910	905	79	96	105
IN	100	4.8	399	385	284	154	242	185		717	621	628	39	41	50
IL	402	9.2	915	1,096	966	394	713	729		1,129	918	936	91	110	124
MI	363	10.6	903	949	875	263	541	537		866	723	748	69	73	81
WI	99	5.4	237	364	283	68	148	157		533	444	467	32	36	42
<b>W.N.C.</b>	<b>434</b>	<b>6.4</b>	<b>958</b>	<b>1,048</b>	<b>1,126</b>	<b>348</b>	<b>574</b>	<b>666</b>		<b>2,366</b>	<b>2,050</b>	<b>2,111</b>	<b>146</b>	<b>157</b>	<b>187</b>
MN	98	6.0	188	220	248	62	105	131		558	465	487	33	33	39
IA	67	6.1	156	203	163	54	107	97		439	391	377	24	26	30
MO	153	7.7	364	337	405	142	212	255		664	539	556	47	49	56
ND	14	5.7	28	31	37	9	16	21		93	94	94	5	6	8
SD	17	6.3	46	48	49	18	26	31		101	89	101	7	9	11
NE	36	5.8	72	95	90	25	44	50		203	187	192	11	14	17
KS	49	5.1	104	113	134	38	64	80		308	286	303	19	21	27
<b>South</b>	<b>2,719</b>	<b>8.5</b>	<b>8,396</b>	<b>7,362</b>	<b>7,718</b>	<b>3,438</b>	<b>4,189</b>	<b>4,842</b>		<b>10,464</b>	<b>9,786</b>	<b>10,018</b>	<b>952</b>	<b>1,050</b>	<b>1,248</b>
<b>S.A.</b>	<b>1,065</b>	<b>6.5</b>	<b>3,811</b>	<b>2,925</b>	<b>2,952</b>	<b>1,547</b>	<b>1,870</b>	<b>1,763</b>		<b>4,846</b>	<b>4,474</b>	<b>4,553</b>	<b>443</b>	<b>466</b>	<b>518</b>
DE	11	4.4	53	34	30	21	22	19		68	55	59	5	5	5
MD	106	6.1	335	273	248	140	171	176		434	347	357	36	34	37
DC	25	10.4	104	68	59	41	40	36		57	48	51	8	9	9
VA	138	6.1	412	340	327	158	189	206		717	610	614	51	53	56
WV	94	13.3	216	267	255	87	159	169		245	227	211	20	26	28
NC	154	6.2	592	449	388	234	237	228		887	814	774	90	82	85
SC	95	7.6	444	353	455	181	194	172		489	478	465	51	57	57
GA	181	7.7	658	524	493	264	290	302		894	890	932	80	88	99
FL	261	5.1	997	616	696	421	368	455		1,055	1,006	1,089	102	113	141
<b>E.S.C.</b>	<b>683</b>	<b>11.9</b>	<b>2,064</b>	<b>2,064</b>	<b>1,871</b>	<b>938</b>	<b>1,194</b>	<b>1,207</b>		<b>2,252</b>	<b>2,128</b>	<b>2,132</b>	<b>215</b>	<b>241</b>	<b>270</b>
KY	161	11.5	485	533	445	211	332	300		567	510	506	48	53	58
TN	193	10.3	674	496	496	282	280	312		648	611	607	55	60	66
AL	157	10.3	606	545	438	246	318	276		607	592	582	62	69	74
MS	172	18.5	518	490	492	199	264	319		430	415	437	50	59	72
<b>W.S.C.</b>	<b>972</b>	<b>9.9</b>	<b>2,302</b>	<b>2,373</b>	<b>2,895</b>	<b>952</b>	<b>1,325</b>	<b>1,872</b>		<b>3,366</b>	<b>3,184</b>	<b>3,333</b>	<b>294</b>	<b>343</b>	<b>460</b>
AR	83	9.1	301	233	223	122	126	130		356	298	296	31	34	39
LA	245	15.7	584	648	720	243	365	484		767	726	716	67	80	100
OK	102	8.2	214	250	251	73	134	159		408	368	363	30	34	43
TX	542	8.8	1,203	1,241	1,702	514	701	1,098		1,835	1,793	1,959	166	195	278
<b>West</b>	<b>1,200</b>	<b>6.3</b>	<b>3,000</b>	<b>2,922</b>	<b>3,264</b>	<b>1,126</b>	<b>1,485</b>	<b>1,753</b>		<b>4,184</b>	<b>3,892</b>	<b>4,287</b>	<b>365</b>	<b>470</b>	<b>596</b>
<b>Mt.</b>	<b>327</b>	<b>6.6</b>	<b>818</b>	<b>742</b>	<b>912</b>	<b>339</b>	<b>446</b>	<b>591</b>		<b>1,352</b>	<b>1,249</b>	<b>1,393</b>	<b>98</b>	<b>118</b>	<b>156</b>
MT	21	6.8	45	52	53	18	31	36		104	87	85	6	7	9
ID	21	5.7	65	53	57	29	36	37		120	122	131	7	10	13
WY	10	5.6	15	25	26	6	15	18		51	57	54	3	4	5
CO	82	6.4	173	168	208	71	94	133		299	284	290	21	24	30
NM	49	8.9	191	145	147	81	88	100		174	171	181	19	23	29
AZ	90	6.9	227	195	283	97	121	176		291	264	325	23	29	42
UT	34	6.4	65	74	94	22	40	61		233	209	261	14	16	22
NV	19	4.3	37	31	45	15	22	31		80	55	66	5	5	7
<b>Pac.</b>	<b>874</b>	<b>6.2</b>	<b>2,182</b>	<b>2,180</b>	<b>2,352</b>	<b>787</b>	<b>1,039</b>	<b>1,163</b>		<b>2,832</b>	<b>2,644</b>	<b>2,894</b>	<b>287</b>	<b>353</b>	<b>440</b>
WA	118	6.3	260	274	255	90	140	168		354	322	357	26	32	40
OR	91	8.1	213	214	204	80	142	150		277	230	240	18	22	25
CA	624	5.9	1,571	1,571	1,793	530	639	746		2,006	1,906	2,111	210	279	354
AK	9	5.0	32	24	23	27	25	24		33	39	38	4	6	7
HI	31	8.6	106	96	77	60	93	74		162	147	149	9	14	14

NA Not available. <sup>1</sup> Includes Puerto Rico, other outlying areas and Dept. of Defense overseas. After July 1, 1982 Puerto Rico was dropped from Food Stamp program and transferred to a nutrition assistance program. <sup>2</sup> Participation at year-end 1989 was atypical due to Hurricane Hugo disaster relief.

Source: U.S. Dept. of Agriculture, Food and Nutrition Service. In *Agricultural Statistics*, annual; and unpublished data.

### No. 612. Public Aid—Recipients and Average Monthly Cash Payments Under Supplemental Security Income (SSI) and Public Assistance: 1975 to 1989

[As of December, except as noted. Public assistance data for all years include Puerto Rico, Guam, and Virgin Islands; SSI data are for federally administered payments only. See text, section 12. Excludes payments made directly to suppliers of medical care. See also Appendix III and *Historical Statistics, Colonial Times to 1970*, series H 355-367]

PROGRAM	RECIPIENTS (1,000)					AVG. MONTHLY PAYMENTS (dol.)				
	1975	1980	1985	1988	1989	1975	1980	1985	1988	1989
SSI, total . . . . .	4,314	4,142	4,138	4,464	4,593	114	168	226	260	275
Aged . . . . .	2,307	1,808	1,504	1,433	1,439	91	128	164	188	199
Blind . . . . .	74	78	82	83	83	147	213	274	306	320
Disabled . . . . .	1,933	2,256	2,551	2,948	3,071	141	198	261	294	309
Old-age assistance <sup>1</sup> . . . . .	18	19	18	17	17	21	39	36	36	37
Aid to the blind <sup>1</sup> . . . . .	(Z)	(Z)	(Z)	(Z)	(Z)	15	36	39	39	40
Aid to permanently, totally disabled <sup>1</sup> . . . . .	17	21	23	25	25	15	35	38	38	39
AFDC: <sup>2</sup> Families . . . . .	3,568	3,843	3,721	3,752	3,879	229	288	341	379	383
Recipients <sup>3</sup> . . . . .	11,404	11,101	10,924	10,898	11,183	72	100	118	130	133
Children . . . . .	8,106	7,599	7,247	7,333	7,571	(NA)	(NA)	(NA)	(NA)	(NA)
General assistance cases . . . . .	692	796	1,051	904	935	144	161	(NA)	(NA)	(NA)

NA Not available. Z Fewer than 500. <sup>1</sup> Average monthly recipients and payments for the year. <sup>2</sup> Aid to Families with Dependent Children program. <sup>3</sup> Includes the children and one or both parents, or one caretaker relative other than a parent, in families where the needs of such adults were considered in determining the amount of assistance.

### No. 613. Public Aid Payments: 1970 to 1989

[In millions of dollars. See headnote, table 612. Supplemental Security Income data cover federally- and State-administered payments. See also Appendix III and *Historical Statistics, Colonial Times to 1970*, series H 346-354]

PROGRAM	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989
Payments, total <sup>1</sup> . . . . .	8,443	16,313	21,994	21,979	23,385	25,035	26,431	28,311	29,556	30,910	32,762
Supplemental Security Income <sup>2</sup> . . . . .	(X)	5,878	7,941	8,981	9,404	10,371	11,060	12,081	12,951	13,786	14,980
Aged . . . . .	(X)	2,605	2,734	2,824	2,814	2,973	3,035	3,096	3,194	3,299	3,476
Blind . . . . .	(X)	131	190	217	229	249	264	277	291	302	316
Disabled . . . . .	(X)	3,142	5,014	5,909	6,357	7,143	7,755	8,700	9,458	10,177	11,180
Public assistance <sup>1</sup> . . . . .	8,443	10,434	14,048	12,998	13,981	14,664	15,371	16,230	16,605	17,124	17,782
Old-age assistance . . . . .	1,862	5	9	8	8	8	8	8	7	7	7
Blind . . . . .	98	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
Permanently, totally disabled . . . . .	1,000	3	9	10	10	10	10	11	11	11	12
Families with dependent children . . . . .	4,853	9,211	12,475	12,878	13,838	14,505	15,196	16,033	16,373	16,827	17,466
Emergency assistance . . . . .	11	78	113	102	125	141	157	178	214	279	297
General assistance . . . . .	618	1,138	1,442	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. X Not applicable. Z Less than \$500,000. <sup>1</sup> Beginning 1982, excludes general assistance payments. <sup>2</sup> Includes data not available by reason for eligibility.

Source of tables 612 and 613: U.S. Social Security Administration, *Social Security Bulletin*, monthly and *Annual Statistical Supplement to the Social Security Bulletin*, and U.S. Family Support Administration, *Quarterly Public Assistance Statistics*, annual.

### No. 614. Public Aid Recipients as Percent of Population, by State: 1980 and 1989

[Total recipients as of June of Aid to Families with Dependent Children and of Federal Supplemental Security Income as percent of resident population. Based on estimated resident population as of July 1]

DIVISION AND STATE	1980	1989	DIVISION AND STATE	1980	1989	DIVISION AND STATE	1980	1989	DIVISION AND STATE	1980	1989
U.S. . . . .	6.5	6.1	IL . . . . .	7.0	6.7	WV . . . . .	6.0	8.2	Mt. . . . .	3.5	3.9
N.E. . . . .	6.9	5.1	MI. . . . .	8.9	8.3	NC . . . . .	5.8	5.3	MT . . . . .	3.4	4.6
ME . . . . .	7.4	6.1	WI. . . . .	6.1	6.6	SC . . . . .	7.6	5.5	ID . . . . .	3.1	2.6
NH . . . . .	3.0	1.8	W.N.C. . . . .	4.5	4.6	GA . . . . .	6.9	6.6	WY . . . . .	1.9	3.4
VT . . . . .	6.4	5.2	MN . . . . .	4.2	4.6	FL . . . . .	4.4	4.2	CO . . . . .	3.7	4.0
MA . . . . .	8.3	6.0	IA . . . . .	4.6	4.5	E.S.C. . . . .	7.9	7.4	NM . . . . .	6.1	5.7
RI . . . . .	7.2	5.9	MO . . . . .	5.9	5.5	KY . . . . .	7.2	7.0	AZ . . . . .	3.0	4.1
CT . . . . .	5.2	4.2	ND . . . . .	3.0	3.4	TN . . . . .	6.4	6.7	UT . . . . .	3.2	3.2
M.A. . . . .	7.6	6.5	SD . . . . .	4.2	4.0	AL . . . . .	8.1	6.3	NV . . . . .	2.3	2.8
NY . . . . .	8.4	7.6	NE . . . . .	3.2	3.5	MS . . . . .	11.4	11.0	Pac. . . . .	7.9	7.9
NJ . . . . .	7.4	5.1	KS . . . . .	3.8	3.9				WA . . . . .	4.9	5.8
PA . . . . .	6.7	5.8	SA . . . . .	6.8	5.1	W.S.C. . . . .	5.2	5.7	OR . . . . .	4.9	4.2
E.N.C. . . . .	6.6	6.7	DE . . . . .	6.6	4.0	AR . . . . .	7.2	6.0	CA . . . . .	8.8	8.8
OH . . . . .	6.0	7.1	MD . . . . .	6.1	4.9	LA . . . . .	8.3	9.2	AK . . . . .	4.6	4.6
IN . . . . .	3.7	3.6	DC . . . . .	15.5	10.5	OK . . . . .	5.2	5.0	HI . . . . .	7.3	5.0
			VA . . . . .	4.6	3.8	TX . . . . .	4.0	4.9			

Source: Compiled by U.S. Bureau of the Census. Data from U.S. Social Security Administration, *Social Security Bulletin*, monthly, and U.S. Family Support Administration, *Quarterly Public Assistance Statistics*, annual.



### No. 615. Aid to Families With Dependent Children (AFDC) and Supplemental Security Income (SSI)—Recipients and Payments, States and Other Areas: 1980 to 1989

[Recipients as of December. Data for SSI cover Federal SSI payments and/or federally-administered State supplementation, except as noted. For explanation of methodology, see Appendix III]

DIVISION AND STATE OR OTHER AREA	AFDC								SSI			
	Recipients <sup>1</sup> (1,000)			Payments for year (mil. dol.)			Average monthly payment per family		Recipients (1,000)		Payments for year (mil. dol.)	
	1980	1988	1989	1980	1988	1989	1988	1989	1980	1989	1980	1989
<b>Total</b> . . . . .	<b>11,101</b>	<b>10,898</b>	<b>11,183</b>	<b>12,475</b>	<b>16,827</b>	<b>17,466</b>	<b>\$374</b>	<b>\$383</b>	<b>2,142</b>	<b>2,593</b>	<b>2,715</b>	<b>14,559</b>
<b>U.S.</b> . . . . .	<b>10,923</b>	<b>10,707</b>	<b>10,987</b>	<b>12,409</b>	<b>16,754</b>	<b>17,388</b>	<b>(NA)</b>	<b>388</b>	<b>4,142</b>	<b>4,592</b>	<b>7,690</b>	<b>14,559</b>
<b>N. Eng.</b> . . . . .	<b>647</b>	<b>467</b>	<b>505</b>	<b>910</b>	<b>1,012</b>	<b>1,098</b>	<b>501</b>	<b>524</b>	<b>198.0</b>	<b>201.8</b>	<b>356</b>	<b>595</b>
ME	58	49	53	60	80	90	375	408	21.6	23.1	29	53
NH	24	12	15	27	22	26	408	417	5.4	6.6	8	417
VT	24	19	21	32	40	43	476	500	8.9	9.7	16	29
MA	348	239	256	510	566	600	545	559	123.6	115.2	241	361
RI	54	41	44	72	82	88	455	483	15.0	16.8	25	48
CT	140	106	117	209	221	252	491	534	23.4	30.4	39	487
<b>Mid. Atl.</b> . . . . .	<b>2,216</b>	<b>1,806</b>	<b>1,779</b>	<b>2,954</b>	<b>3,382</b>	<b>3,330</b>	<b>453</b>	<b>451</b>	<b>614.5</b>	<b>671.1</b>	<b>1,259</b>	<b>2,329</b>
NY	1,110	986	964	1,623	2,180	2,146	536	530	365.5	390.5	791	1,441
NJ	469	297	308	560	451	441	357	357	85.8	100.0	156	314
PA	637	524	508	771	751	743	352	356	163.2	180.6	312	574
<b>E. No. Cent.</b> . . . . .	<b>2,419</b>	<b>2,307</b>	<b>2,274</b>	<b>2,838</b>	<b>3,491</b>	<b>3,459</b>	<b>366</b>	<b>373</b>	<b>466.3</b>	<b>587.0</b>	<b>827</b>	<b>1,008</b>
OH	572	633	623	561	801	837	297	314	119.3	147.1	200	432
IN	170	148	149	139	166	183	263	263	41.4	56.8	60	155
IL	691	640	623	722	801	789	309	320	123.6	164.4	207	519
MI	753	637	641	1,063	1,227	1,223	480	480	113.8	136.0	237	437
WI	232	249	237	353	495	447	472	461	68.3	82.7	124	265
<b>W. No. Cent.</b> . . . . .	<b>614</b>	<b>611</b>	<b>619</b>	<b>697</b>	<b>907</b>	<b>925</b>	<b>361</b>	<b>368</b>	<b>190.3</b>	<b>207.5</b>	<b>270</b>	<b>527</b>
MN	146	163	164	207	342	343	520	523	31.9	38.1	42	98
IA	111	99	97	144	152	149	349	360	25.6	31.6	34	78
MO	216	202	207	182	215	223	263	272	84.4	82.2	128	215
ND	13	15	16	16	22	24	355	366	6.3	7.4	9	17
SD	19	19	19	19	21	22	271	271	8.0	9.6	10	23
NE	38	41	41	42	56	57	323	333	43.7	45.1	49	438
KS	72	73	77	87	99	107	339	349	20.4	23.3	28	59
<b>So. Atl.</b> . . . . .	<b>1,463</b>	<b>1,386</b>	<b>1,471</b>	<b>1,125</b>	<b>1,531</b>	<b>1,640</b>	<b>259</b>	<b>267</b>	<b>744.4</b>	<b>820.0</b>	<b>1,173</b>	<b>2,167</b>
DE	34	19	21	32	24	26	270	283	7.2	7.7	11	21
MD	220	176	181	214	253	272	336	356	48.3	57.4	82	168
DC	82	49	47	92	76	79	347	363	15.1	16.0	31	52
VA	176	147	150	160	169	169	258	260	80.6	92.0	120	235
WV	80	109	109	60	108	109	242	253	41.0	45.7	72	134
NC	202	196	216	154	212	225	243	238	140.6	144.7	210	363
SC	156	109	105	72	90	93	189	208	83.4	88.7	124	219
GA	234	262	285	138	276	295	258	261	154.5	156.9	233	387
FL	279	319	356	203	324	371	241	253	173.6	210.9	291	589
<b>E. So. Cent.</b> . . . . .	<b>704</b>	<b>656</b>	<b>688</b>	<b>386</b>	<b>423</b>	<b>454</b>	<b>152</b>	<b>180</b>	<b>470.1</b>	<b>488.9</b>	<b>716</b>	<b>1,259</b>
KY	175	154	171	136	146	161	209	223	93.7	109.8	151	303
TN	174	193	207	85	130	146	158	170	130.6	135.7	199	350
AL	178	130	130	84	62	61	114	114	134.1	130.9	195	325
MS	176	179	178	61	86	85	119	118	111.8	112.5	171	280
<b>W. So. Cent.</b> . . . . .	<b>718</b>	<b>979</b>	<b>1,038</b>	<b>401</b>	<b>707</b>	<b>743</b>	<b>183</b>	<b>183</b>	<b>543.3</b>	<b>545.8</b>	<b>793</b>	<b>1,347</b>
AR	85	70	71	51	54	55	191	193	77.8	74.5	107	171
LA	219	277	281	124	183	188	167	167	136.5	130.0	221	350
OK	92	103	105	92	121	125	281	288	67.3	59.0	100	144
TX	320	529	581	134	350	377	169	168	261.7	282.3	365	681
<b>Mid.</b> . . . . .	<b>302</b>	<b>381</b>	<b>407</b>	<b>274</b>	<b>450</b>	<b>477</b>	<b>291</b>	<b>293</b>	<b>118.2</b>	<b>150.2</b>	<b>188</b>	<b>417</b>
MT	20	28	32	19	41	40	363	356	6.8	9.4	11	26
ID	20	17	16	24	19	19	249	251	7.5	9.7	11	25
WY	7	14	14	9	19	19	304	307	1.8	3.2	4	8
CO	81	98	100	81	127	133	318	324	30.5	35.7	46	99
NM	56	59	60	42	55	55	225	225	25.4	29.6	41	79
AZ	60	103	117	40	107	122	268	271	29.8	40.9	53	120
UT	44	43	45	48	61	64	344	352	7.8	11.3	11	32
NV	14	20	23	11	21	25	273	277	6.8	10.5	11	28
<b>Pac.</b> . . . . .	<b>1,843</b>	<b>2,115</b>	<b>2,208</b>	<b>2,844</b>	<b>4,850</b>	<b>5,263</b>	<b>562</b>	<b>589</b>	<b>798.2</b>	<b>919.9</b>	<b>2,108</b>	<b>4,109</b>
WA	173	217	225	251	405	424	444	449	45.3	57.2	85	182
OR	94	88	87	147	131	139	349	361	22.2	29.7	35	86
CA	1,498	1,749	1,833	2,328	4,177	4,553	590	620	717.5	815.3	1,962	3,783
AK	16	19	19	27	54	55	599	619	3.1	4.4	6	12
HI	61	43	44	51	82	92	506	546	10.2	13.3	20	46
PR	170	183	189	60	68	72	101	102	(X)	(X)	(X)	(X)
GU	5	4	4	3	3	3	216	228	(X)	(X)	(X)	(X)
VI	3	3	3	2	2	2	195	280	(X)	(X)	(X)	(X)
N. Mariana	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	50.6	50.5	51	2

NA Not available. X Not applicable. <sup>1</sup> See footnote 3, table 612. <sup>2</sup> Includes small number of recipients whose residence was "unknown." <sup>3</sup> 1980 figures include payments to Indochina refugees (total, \$23.6 million) which were not available by State. <sup>4</sup> Data for persons with Federal SSI payments only; State has State-administered supplementation. <sup>5</sup> Data for persons with Federal SSI payments only; State supplementary payments not made.

Source: U.S. Social Security Administration, *Social Security Bulletin*, monthly, and *Annual Statistical Supplement to the Social Security Bulletin*; and U.S. Family Support Administration, *Quarterly Public Assistance Statistics*, annual.

**No. 616. Child Support—Award and Reciprocity Status of Women: 1981 to 1987**

[Women with own children under 21 years of age present from absent fathers as of spring of following year. Covers civilian noninstitutional population. Based on Current Population Survey; see text, section 1 and Appendix III]

AWARD AND RECIPROCY STATUS	ALL WOMEN						WOMEN BELOW THE POVERTY LEVEL					
	Number (1,000)			Percent distribution			Number (1,000)			Percent distribution		
	1981	1985	1987	1981	1985	1987	1981	1985	1987	1981	1985	1987
Total .....	8,387	8,808	9,415	100.0	100.0	100.0	2,588	2,797	3,191	100.0	100.0	100.0
Payments awarded .....	4,969	5,396	5,554	59.2	61.3	59.0	1,018	1,130	1,413	39.7	40.4	44.3
Supposed to receive payments	4,043	4,381	4,829	48.2	49.7	51.3	806	905	1,231	31.4	32.4	38.6
Not supposed to receive payments .....	926	1,015	725	11.0	11.5	7.7	212	225	182	8.3	8.0	5.7
Payments not awarded .....	3,417	3,411	3,861	40.7	38.7	41.0	1,547	1,668	1,778	60.3	59.6	55.7
Supposed to receive payments .....	4,043	4,381	4,829	100.0	100.0	100.0	806	905	1,231	100.0	100.0	100.0
Actually received payments .....	2,902	3,243	3,676	71.8	74.0	76.1	495	595	885	61.4	65.7	71.9
Received full amount .....	1,888	2,112	2,475	46.7	48.2	51.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Received partial amount .....	1,014	1,131	1,201	25.1	25.8	24.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Did not receive payments .....	1,140	1,138	1,153	28.2	26.0	23.9	311	310	346	38.6	34.3	28.1

NA Not available.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-23, No. 167.

**No. 617. Child Support and Alimony—Selected Characteristics of Women: 1987**

[See headnote, table 616. Alimony data are for ever-divorced and currently separated women. For definition of mean, see Guide to Tabular Presentation]

RECIPIENCY STATUS OF WOMEN	Unit	Total <sup>1</sup>	AGE			RACE		Hispanic <sup>2</sup>	CURRENT MARITAL STATUS			
			18 to 29 years	30 to 39 years	40 years and over	White	Black		Divorced	Married <sup>3</sup>	Single <sup>4</sup>	Separated
CHILD SUPPORT												
All women, total. . . . .	1,000 ..	9,415	3,169	3,924	2,321	6,467	2,686	937	2,958	2,386	2,625	1,381
Payments awarded. . . . .	1,000 ..	5,554	1,346	2,631	1,577	4,448	956	397	2,284	1,957	517	757
Percent of total. . . . .	Percent.	59.0	42.5	67.0	67.9	68.8	35.6	42.4	77.2	82.0	19.7	54.8
Supposed to receive child support in 1987. . . . .	1,000 ..	4,829	1,198	2,358	1,273	3,910	787	344	2,087	1,656	430	628
Percent received payment. . . . .	Percent.	76.1	76.3	75.0	78.1	76.6	73.2	75.6	78.0	72.9	83.3	74.0
Mean child support. . . . .	Dollars	2,710	1,946	2,742	3,354	2,950	1,503	2,628	3,073	2,540	1,632	2,745
Percent of total income. . . . .	Percent.	19.0	21.7	18.7	18.2	19.7	14.7	28.6	17.6	20.2	22.7	21.5
Women with incomes below the poverty level in 1987. . . . .												
Payments awarded. . . . .	1,000 ..	3,191	1,562	1,201	427	1,659	1,431	473	791	167	1,498	710
Percent of total. . . . .	Percent.	44.3	35.4	51.8	55.7	53.0	34.2	38.1	74.2	78.4	21.3	50.8
Supposed to receive child support in 1987. . . . .	1,000 ..	1,231	490	555	185	772	417	150	538	108	274	300
Percent received payment. . . . .	Percent.	71.9	73.9	69.7	73.5	71.1	72.9	79.3	68.4	70.4	83.9	68.3
Mean child support. . . . .	Dollars	1,673	1,458	1,816	1,842	1,962	1,187	2,850	1,799	1,646	1,018	2,222
Percent of total income. . . . .	Percent.	36.6	34.8	35.4	46.5	41.2	27.8	61.6	34.1	65.3	22.8	53.1
ALIMONY												
All women, total. . . . .	1,000 ..	19,271	2,748	5,821	10,703	16,119	2,698	1,299	8,110	7,321	(X)	2,727
Number awarded payments. . . . .	1,000 ..	3,243	302	624	2,317	2,954	205	151	1,373	1,421	(X)	269
Percent of total. . . . .	Percent.	16.8	11.0	10.7	21.6	18.3	7.6	11.6	16.9	19.4	(X)	9.9
Supposed to receive payments. . . . .	1,000 ..	1,186	181	333	671	1,053	96	55	591	430	(X)	148
Women with incomes below the poverty level in 1987. . . . .												
Number awarded payments. . . . .	1,000 ..	3,682	842	1,110	1,730	2,578	992	469	1,786	470	(X)	1,187
Percent of total. . . . .	Percent.	13.7	12.0	9.2	17.5	17.0	4.9	11.7	15.1	22.1	(X)	8.8
Supposed to receive payments. . . . .	1,000 ..	204	63	50	91	177	21	22	117	35	(X)	50

X Not applicable. <sup>1</sup> Includes other items, not shown separately. <sup>2</sup> Hispanic women may be of any race. <sup>3</sup> Remarried women whose previous marriage ended in divorce. <sup>4</sup> Never-married women.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-23, No. 167.

**No. 618. Child Support Enforcement Program—Caseload and Collections: 1980 to 1989**

[For years ending Sept. 30. Includes Puerto Rico, Guam, and the Virgin Islands. The Child Support Enforcement program locates absent parents, establishes paternity of children born out-of-wedlock, and establishes and enforces support orders. By law, these services are available to all families that need them. The program is operated at the State and local government level but 68 percent of administrative costs are paid by the Federal government. Child support collected for families not receiving Aid to Families with Dependent Children (AFDC) goes to the family to help it remain self-sufficient. Most of the child support collected on behalf of AFDC families goes to Federal and State governments to offset AFDC payments. Based on data reported by State agencies. Minus sign (-) indicates net outlay]

ITEM	Unit	1980	1983	1984	1985	1986	1987	1988	1989
Total cases	1,000	5,432	7,516	7,999	8,401	9,724	10,635	11,078	11,869
AFDC and AFDC arrears only caseload	1,000	(NA)	(NA)	(NA)	(NA)	7,220	7,655	7,501	7,608
AFDC cases	1,000	4,583	5,828	6,136	6,242	5,749	5,776	5,703	5,707
AFDC arrears only cases	1,000	(NA)	(NA)	(NA)	(NA)	1,472	1,879	1,798	1,901
Non-AFDC cases	1,000	849	1,688	1,863	2,159	2,503	2,981	3,577	4,262
Cases for which a collection was made:									
AFDC cases	1,000	503	595	647	684	582	609	621	657
AFDC arrears only cases	1,000	(NA)	(NA)	(NA)	(NA)	158	196	181	202
Non-AFDC cases	1,000	243	507	547	654	786	934	1,083	1,246
Percentage of cases with collections:									
AFDC cases	Percent	11.0	10.2	10.5	11.0	10.1	10.5	10.9	11.5
AFDC arrears only cases	Percent	(NA)	(NA)	(NA)	(NA)	10.8	10.5	10.1	10.6
Non-AFDC cases	Percent	28.7	30.0	29.4	30.3	31.4	31.3	30.3	29.2
Absent parents located, total	1,000	643	831	875	878	1,046	1,145	1,388	1,624
Paternities established, total	1,000	144	208	219	232	245	269	307	336
Support obligations established, total	1,000	374	496	573	669	731	812	870	936
<b>FINANCES</b>									
Collections, total	Mill. dol.	1,478	2,024	2,378	2,694	3,249	3,917	4,613	5,250
AFDC collections	Mill. dol.	603	880	1,000	1,090	1,225	1,348	1,486	1,593
State share	Mill. dol.	274	396	448	415	424	473	523	563
Incentive payments to States	Mill. dol.	72	121	134	145	158	185	221	266
Federal share	Mill. dol.	246	349	402	341	369	413	445	458
Payments to AFDC families <sup>2</sup>	Mill. dol.	10	15	17	189	275	278	298	307
Non-AFDC collections	Mill. dol.	874	1,144	1,378	1,604	2,023	2,569	3,128	3,656
Administrative expenditures, total	Mill. dol.	466	691	723	814	941	1,066	1,171	1,363
State share	Mill. dol.	117	204	216	243	308	316	366	426
Federal share	Mill. dol.	349	487	507	571	633	750	804	938
Program savings, total	Mill. dol.	127	174	260	86	9	5	18	-77
State share	Mill. dol.	230	312	366	317	274	342	378	403
Federal share	Mill. dol.	-103	-138	-105	-231	-264	-337	-360	-480
Total fees and costs recovered for non-AFDC cases	Mill. dol.	5	3	3	3	6	7	7	7
Percentage of AFDC payments recovered	Percent	5.2	6.6	7.0	7.3	8.6	9.1	9.8	10.1

NA Not available. <sup>1</sup> Reflects cases that are no longer receiving AFDC but still have outstanding child support due. <sup>2</sup> Beginning 1985, States were required to pass along to the family the first \$50 of any current child support collected each month.

Source: U.S. Department of Health and Human Services, Office of Child Support Enforcement, *Annual Report to Congress*.

**No. 619. Property Settlement Following Divorce—Selected Characteristics of Women: 1979 and 1988**

[As of spring. Covers ever-divorced women in the civilian noninstitutional population. A property settlement consists of a one-time cash settlement or other property (i.e., house, other real estate, car, or furniture) or a combination of both. Based on Current Population Survey; see text, section 1 and Appendix III]

RECIPIENCY STATUS OF WOMEN	Unit	Total <sup>1</sup>	AGE			RACE		Hispanic <sup>2</sup>	CURRENT MARITAL STATUS		
			18 to 29 years	30 to 39 years	40 years and over	White	Black		Divorced	Married <sup>3</sup>	Widowed <sup>4</sup>
<b>1979: Ever-divorced women</b>	1,000	12,025	2,067	3,273	6,684	10,568	1,307	548	5,311	5,758	955
Received property settlement	1,000	5,350	902	1,686	2,762	4,933	355	160	2,675	2,447	227
Percent receiving settlement	Percent	44.5	43.6	51.5	41.3	46.7	27.2	29.2	50.4	42.5	23.8
<b>1988: Ever-divorced women</b>	1,000	16,545	2,071	4,970	9,504	14,399	1,782	907	8,110	7,322	1,113
Received property settlement	1,000	5,259	475	1,620	3,164	4,918	244	202	2,798	2,208	253
Percent receiving settlement	Percent	31.8	22.9	32.6	33.3	34.2	13.7	22.3	34.5	30.2	22.7
Cash only <sup>5</sup>	1,000	1,392	125	504	763	1,325	38	34	629	702	60
Other types of settlement only <sup>6</sup>	1,000	3,664	340	1,024	2,299	3,395	205	148	2,031	1,445	188
Cash and other types	1,000	203	9	92	102	198	1	20	138	61	5

<sup>1</sup> Includes other items, not shown separately. <sup>2</sup> Hispanic women may be of any race. <sup>3</sup> Remarried women whose previous marriage ended in divorce. <sup>4</sup> Widowed women whose previous marriage ended in divorce. <sup>5</sup> A one-time cash settlement. <sup>6</sup> Other property (e.g., house, other real estate, cars, or furnishings).

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-23, No. 167.

### No. 620. Adoptions, by Relationship of Petitioner, 1960 to 1986, and Foreign Adoptions, 1975 to 1989

[Data on foreign adoptions for fiscal year ending in year shown; see text, section 9. Estimated. Data on total adoptions for 1960-1975 are generally based on material shown by Penelope Maza in "Adoption Trends: 1944-1975", Child Welfare Research Notes #9, issued by the U.S. Dept. of Health and Human Services, Administration for Children, Youth and Families. Data on domestic adoptions for 1982 and 1986 are based on data collected by the National Committee for Adoption from various State health, welfare, adoption, and statistical offices. For further comments, see source]

YEAR	TOTAL ADOPTIONS						FOREIGN ADOPTIONS <sup>1</sup>			
	Total	Related petitioners	Unrelated petitioners by type of agency making placement				Year	Number	Country of origin of adoptee	Number
			Total	Public agency	Private agency	Independent				
1960	107,000	49,200	57,800	13,300	20,800	23,700	1975	5,633	1989, total <sup>2</sup>	7,948
1965	142,000	65,300	76,700	20,700	32,200	23,800	1980	5,139	Korea	3,552
1970	175,000	85,800	89,200	29,500	40,100	19,600	1985	9,286	Colombia	735
1975	129,000	81,300	47,700	18,600	18,100	11,000	1986	9,945	India	677
1982 <sup>3</sup>	141,861	91,141	50,720	19,428	14,549	16,743	1987	10,097	Philippines	481
1986 <sup>3</sup>	104,088	52,931	51,157	20,064	15,053	16,040	1988	9,120	Peru	269

<sup>1</sup> Source: U.S. Immigration and Naturalization Service, *Statistical Yearbook of Immigration and Naturalization Service*.

<sup>2</sup> Includes other countries, not shown separately. <sup>3</sup> Domestic adoptions only.

Source: Except as noted, National Committee for Adoption, Inc., Washington, DC, *Adoption Factbook II, 1989* (copyright) and unpublished data.

### No. 621. Women, 20 to 54 Years Old, Who Have Ever Adopted a Child, by Relationship Before the Adoption: 1987

[In thousands, except percent. If a woman adopted more than one child of a different relationship, she would be counted once in each category. If adopted children are same relationship, she is counted once. Based on National Health Interview Survey; see Appendix III]

CHARACTERISTIC	Women ever mar- ried	WOMEN WHO EVER ADOPTED				CHARACTERISTIC	Women ever mar- ried	WOMEN WHO EVER ADOPTED			
		Total <sup>1</sup>		Un- relat- ed <sup>2</sup>	Re- lated			Total <sup>1</sup>		Un- relat- ed <sup>2</sup>	Re- lated
		Num- ber	Per- cent					Num- ber	Per- cent		
Total <sup>3</sup>	49,422	1,064	2.2	831	178	Hispanic origin:					
Age:						Hispanic	3,811	<sup>4</sup> 38	<sup>4</sup> 1.0	<sup>4</sup> 20	<sup>4</sup> 14
20-24 years	4,598	<sup>4</sup> 6	<sup>4</sup> 0.1	<sup>4</sup> 0	(NA)	Non-Hispanic	45,368	1,023	2.3	807	164
25-29 years	8,218	50	0.6	<sup>4</sup> 26	<sup>4</sup> 16	Years of school					
30-34 years	9,186	134	1.5	97	<sup>4</sup> 28	completed:					
35-39 years	8,799	205	2.3	169	<sup>4</sup> 24	Less than 12 years	7,880	118	1.5	59	55
40-44 years	7,277	243	3.3	200	<sup>4</sup> 32	12 years	21,948	415	1.9	314	68
45-49 years	5,966	237	4.0	186	<sup>4</sup> 43	13-15 years	10,301	272	2.6	228	<sup>4</sup> 36
50-54 years	5,379	190	3.5	148	<sup>4</sup> 35	16 or more years	9,033	260	2.9	229	<sup>4</sup> 19
Race:						Family income:					
White	42,635	956	2.2	772	134	Less than \$15,000	7,967	102	1.3	56	44
Black	5,010	85	1.7	<sup>4</sup> 41	<sup>4</sup> 40	\$15,000-\$24,999	9,309	193	2.1	145	<sup>4</sup> 33
Other	1,777	<sup>4</sup> 24	<sup>4</sup> 1.4	<sup>4</sup> 18	<sup>4</sup> 4	\$25,000-\$34,999	9,235	202	2.2	153	<sup>4</sup> 37
						\$35,000 or more	17,098	470	2.7	404	47

NA Not available. <sup>1</sup> Includes women who ever adopted with unknown relationship, not shown separately. <sup>2</sup> Includes foster children.

<sup>3</sup> Includes unknown responses, not shown separately. <sup>4</sup> Figure does not meet standards of reliability or precision.

Source: U.S. National Center for Health Statistics, *Vital and Health Statistics, Advance Data, No. 181*, January 1990, and unpublished data.

### No. 622. Weekly Child Care Expenditures: 1987

[In thousands, except as indicated. As of fall. See headnote, table 623]

ITEM	Total <sup>1</sup>	RACE		HISPANIC ORIGIN <sup>2</sup>		MONTHLY FAMILY INCOME				POVERTY LEVEL <sup>3</sup>		
		White	Black	Hispanic	Non-Hispanic	Less than \$1,250	\$1,250-\$2,499	\$2,500-\$3,749	\$3,750 or more	Below poverty level	Near poverty level <sup>4</sup>	Not poor <sup>5</sup>
Employed women with children under 15 . . . . .	18,501	15,402	2,517	1,557	16,944	2,661	5,941	5,073	4,826	1,434	811	16,256
Women making payments for child care . . . . .	6,168	5,106	844	590	5,578	739	1,918	1,777	1,735	346	228	5,595
<b>Weekly child care expenses (dol.) <sup>6</sup> . .</b>	<b>48.5</b>	<b>51.1</b>	<b>34.6</b>	<b>42.0</b>	<b>49.1</b>	<b>39.2</b>	<b>40.0</b>	<b>47.0</b>	<b>63.3</b>	<b>35.2</b>	<b>38.6</b>	<b>49.7</b>
Percent of income . . . . .	6.6	6.7	6.6	7.1	6.6	20.7	9.2	6.6	4.9	25.0	16.3	6.3

<sup>1</sup> Includes other races not shown separately. <sup>2</sup> Persons of Hispanic origin may be of any race. <sup>3</sup> For explanation of poverty level, see text, section 14. <sup>4</sup> 100-125 percent of poverty level. <sup>5</sup> 125 percent and over of poverty level. <sup>6</sup> Average (mean) expenditures for women making child care payments. Mean weekly child care expenditure prorated to a monthly average as a percent of average monthly family income for the 4 months preceding the survey date.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-70, No. 20.

### No. 623. Primary Child Care Arrangements Used by Employed Mothers for Children Under 15, by Age of Child: 1986 and 1987

[Data were obtained for the three youngest children under 15 years old. These children represent about 94 percent of all children under 15 years old of employed women (30.6 million children). Based on the Survey of Income and Program Participation; see text, section 14]

TYPE OF ARRANGEMENT	CHILDREN UNDER 5 YEARS									CHILDREN 5-14 YEARS	
	August 1986	Fall 1987								August 1986	Fall 1987
		Total	Age			Monthly family income					
			Under 1 year	1 to 2 years	3 to 4 years	Less than \$1,250	\$1,250-\$2,499	\$2,500-\$3,749	\$3,750 or more		
Total (1,000) . . . . .	9,582	9,124	1,485	3,771	3,868	1,422	3,074	2,566	2,061	19,225	19,718
PERCENT DISTRIBUTION											
Care in child's home . . . . .	28.4	29.9	31.2	32.7	26.6	32.6	30.8	30.5	25.8	32.8	13.5
By father . . . . .	14.6	15.3	15.6	15.8	14.7	11.7	19.6	17.0	9.1	11.1	6.7
By grandparent . . . . .	4.6	5.1	5.5	5.3	4.7	6.9	4.8	4.3	5.2	3.3	1.5
By other relative . . . . .	2.3	3.3	1.8	5.0	2.2	7.0	1.8	3.3	2.8	10.7	4.0
By nonrelative . . . . .	7.0	6.2	8.3	6.6	5.1	7.0	4.6	5.9	8.7	7.7	1.4
Care in another home . . . . .	42.0	35.6	38.4	41.3	29.0	40.9	36.1	33.8	33.7	17.0	5.4
By grandparent . . . . .	15.8	8.7	8.8	8.3	9.0	13.8	9.7	6.0	7.1	6.8	1.9
By other relative . . . . .	6.0	4.5	6.3	6.0	2.7	4.2	7.3	3.2	3.1	2.8	0.9
By nonrelative . . . . .	20.2	22.4	23.3	27.0	17.2	22.9	19.1	24.6	23.5	7.5	2.5
Day/group care center . . . . .	15.0	16.1	11.8	14.5	19.2	10.2	13.1	19.1	20.6	5.6	1.7
Nursery school/preschool . . . . .	3.0	8.3	2.3	3.6	15.1	5.3	5.7	9.1	13.2	0.6	0.6
Kindergarten/grade school . . . . .	0.2	1.0	-	-	2.3	0.4	1.1	1.0	1.2	22.0	71.1
Child cares for self . . . . .	-	0.3	0.4	0.2	0.2	-	0.8	-	-	13.2	4.1
Mother cares for child at work . . . . .	11.3	8.9	16.0	7.6	7.5	10.6	12.4	6.5	5.6	8.7	3.6

- Represents or rounds to zero.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-70, No. 20.

### No. 624. Percent of Adult Population Doing Volunteer Work: 1989

[For year ending in May. Covers civilian noninstitutional population, 16 years old and over. A volunteer is a person who performed unpaid work for an organization such as a church, the Boy or Girl Scouts, a school, Little League, etc. during the year. Persons who did work on their own such as helping out neighbors or relatives are excluded. Based on Current Population Survey; see text, section 1 and Appendix III]

CHARACTERISTIC	VOLUNTEER WORKERS		PERCENT DISTRIBUTION OF VOLUNTEERS, BY TYPE OF ORGANIZATION <sup>1</sup>							
	Number (1,000)	Per cent of population	Total	Churches, other religious organizations	Schools, educational institutions	Civic or political organizations	Hospitals, other health organizations	Social or welfare organizations	Sport or recreational organizations	Other organizations
Total <sup>2</sup> . . . . .	38,042	20.4	100.0	37.4	15.1	13.2	10.4	9.9	7.8	6.3
16-19 years old . . . . .	1,902	13.4	100.0	34.4	26.8	8.9	9.2	7.0	8.2	5.5
20-24 years old . . . . .	2,064	11.4	100.0	30.5	18.5	12.7	11.9	11.6	8.0	6.8
25-34 years old . . . . .	8,680	20.2	100.0	34.9	18.3	13.3	9.1	9.3	8.9	6.1
35-44 years old . . . . .	10,337	28.9	100.0	33.1	20.3	12.6	7.4	8.5	12.1	6.1
45-54 years old . . . . .	5,670	23.0	100.0	40.8	11.8	15.1	10.1	8.8	7.1	6.3
55-64 years old . . . . .	4,455	20.8	100.0	45.7	6.7	18.1	12.4	10.9	2.5	5.7
65 years old and over . . . . .	4,934	16.9	100.0	43.3	4.3	11.1	17.8	14.5	1.8	7.2
Male . . . . .	16,681	18.8	100.0	35.9	10.5	17.2	7.0	10.1	11.8	7.5
Female . . . . .	21,361	21.9	100.0	38.5	18.8	10.1	13.1	9.7	4.6	5.3
White . . . . .	34,823	21.9	100.0	36.6	15.1	13.5	10.7	9.8	8.0	6.3
Black . . . . .	2,505	11.9	100.0	50.4	12.4	9.6	7.0	10.4	4.6	5.6
Hispanic origin <sup>3</sup> . . . . .	1,289	9.4	100.0	42.2	18.3	9.6	8.5	8.9	6.9	5.6
Educational attainment: <sup>4</sup>										
Less than 4 years of high school . . . . .	2,939	8.3	100.0	48.4	6.6	10.0	10.0	13.1	4.8	7.0
4 years of high school . . . . .	11,105	18.8	100.0	41.5	12.5	11.2	11.1	8.8	8.2	6.7
1 to 3 years of college . . . . .	7,572	28.1	100.0	36.8	14.7	13.3	10.8	10.1	8.0	6.3
4 years of college or more . . . . .	12,459	38.4	100.0	32.9	17.4	16.4	9.7	10.1	7.8	5.7

<sup>1</sup> Organization for which most of the work was done. <sup>2</sup> Includes other races, not shown separately. <sup>3</sup> Persons of Hispanic origin may be of any race. <sup>4</sup> Persons 25 years old and over.

Source: U.S. Bureau of Labor Statistics, *News*, USDL 90-154, March 29, 1990.

### No. 625. Charity Contributions—Average Dollar Amount and Percent of Household Income, by Age of Respondent and Household Income: 1989

[Estimates cover households' contribution activity for the year and are based on respondents' replies as to contribution and volunteer activity of household. Based on a sample survey conducted during March-May, 1990 and subject to sampling variability; see source]

AGE	ALL CONTRIBUTING HOUSEHOLDS		CONTRIBUTORS AND VOLUNTEERS		HOUSEHOLD INCOME	ALL CONTRIBUTING HOUSEHOLDS		CONTRIBUTORS AND VOLUNTEERS	
	Average amount (dol.)	Percent of household income	Average amount (dol.)	Percent of household income		Average amount (dol.)	Percent of household income	Average amount (dol.)	Percent of household income
<b>Total</b> . . . . .	<b>978</b>	<b>2.5</b>	<b>1,192</b>	<b>2.9</b>	Under \$10,000 . . . . .	379	5.5	363	5.5
18-24 years . . . . .	484	1.2	635	1.5	\$10,000-\$19,999 . . . . .	485	3.2	640	4.1
25-34 years . . . . .	893	2.1	1,056	2.6	\$20,000-\$29,999 . . . . .	728	2.9	926	3.7
35-44 years . . . . .	956	2.2	1,158	2.6	\$30,000-\$39,999 . . . . .	894	2.6	987	2.8
45-54 years . . . . .	1,098	2.3	1,418	2.8	\$40,000-\$49,999 . . . . .	831	1.8	971	2.2
55-64 years . . . . .	1,420	3.6	1,950	4.7	\$50,000-\$59,999 . . . . .	941	1.7	1,144	2.1
65-74 years . . . . .	1,070	4.4	951	3.7	\$60,000-\$74,999 . . . . .	1,250	1.8	1,551	2.3
75 years and over . . . . .	698	3.2	1,005	4.5	\$75,000-\$99,999 . . . . .	2,793	3.2	3,961	4.5
					\$100,000 and over . . . . .	2,893	2.9	2,136	2.1

Source: Hodgkinson, Virginia, Murray Weitzman, and the Gallup Organization, Inc., *Giving and Volunteering in the United States: 1990 Edition*. (Copyright and published by INDEPENDENT SECTOR, Washington, DC, Fall 1990.)

### No. 626. Charity Contributions—Percent of Households Contributing, by Dollar Amount, Type of Charity, and Percentage of Income Contributed: 1989

[See headnote, table 625]

ANNUAL AMOUNT OF HOUSEHOLD CONTRIBUTIONS	PERCENT DISTRIBUTION		TYPE OF CHARITY	Per-centage of house-holds	Aver-age contribution per contrib-uting house-hold	PERCENTAGE OF HOUSEHOLD INCOME CONTRIBUTED	PERCENT DISTRIBUTION		Per-centage of respon-dents volun-teering
	All house-holds	Givers					All house-holds	Con-trib-uting house-holds	
None . . . . .	24.9	(X)	Arts, culture, humanities . . . . .	9.6	193	Total . . . . .	100.0	(X)	54.4
Givers . . . . .	75.1	100.0	Education . . . . .	19.1	291	Noncontributors . . . . .	24.9	(X)	25.7
\$1-\$100 . . . . .	16.3	27.0	Environment . . . . .	13.4	88	Contributors . . . . .	75.1	(X)	63.9
\$101-\$200 . . . . .	8.1	13.4	Health . . . . .	32.4	143	Reporting dollar amount and income . . . . .			
\$201-\$300 . . . . .	4.8	8.0	Human services . . . . .	23.0	263	Less than 1 percent . . . . .	59.6	100.0	63.6
\$301-\$400 . . . . .	4.6	7.8	International . . . . .	4.2	202	1-1.99 percent . . . . .	28.9	48.4	54.6
\$401-\$500 . . . . .	3.1	5.1	Private, community foundations . . . . .	6.4	116	2-2.99 percent . . . . .	10.9	18.3	66.7
\$501-\$600 . . . . .	2.6	4.3	Public, societal benefit . . . . .	11.2	120	3-4.99 percent . . . . .	5.8	9.8	66.0
\$601-\$700 . . . . .	1.5	2.5	Recreation - adults . . . . .	6.2	135	5 percent or more . . . . .	5.0	8.4	81.1
\$701-\$999 . . . . .	4.8	7.9	Religion . . . . .	53.2	896				
\$1,000 or more . . . . .	14.5	24.0	Youth development . . . . .	21.6	129				
Amount not reported . . . . .	14.7	(X)					9.0	15.1	77.5

X Not applicable.

Source: Hodgkinson, Virginia, Murray Weitzman, and the Gallup Organization, Inc., *Giving and Volunteering in the United States: 1990 Edition*. (Copyright and published by INDEPENDENT SECTOR, Washington, DC, Fall 1990.)

### No. 627. Private Philanthropy Funds, by Source and Allocation: 1970 to 1989

[In billions of dollars. Estimates for sources of funds based on U.S. Internal Revenue Service reports of corporate and foundation tax returns and individual charitable deductions; econometric formula utilizing Commerce Department data on personal income, Standard & Poor's 500 Composite Index, Census population data; and surveys conducted by the source and by Council for Aid to Education, The Conference Board, The Foundation Center, and other research organizations. Estimates for allocation of funds based on surveys of recipient organizations conducted by source and other groups. See *Historical Statistics, Colonial Times to 1970*, series H 398-411, for similar but not comparable data]

SOURCE AND ALLOCATION	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Total funds</b> . . . . .	<b>21.0</b>	<b>28.6</b>	<b>43.4</b>	<b>48.7</b>	<b>55.6</b>	<b>59.8</b>	<b>64.7</b>	<b>70.6</b>	<b>80.3</b>	<b>90.9</b>	<b>95.2</b>	<b>103.9</b>	<b>114.7</b>
Individuals . . . . .	16.2	23.5	36.6	40.7	46.4	48.5	53.5	58.5	66.2	74.6	78.0	86.4	96.4
Foundations . . . . .	1.9	1.7	2.2	2.8	3.1	3.2	3.6	4.0	4.9	5.4	5.9	6.2	6.7
Corporations . . . . .	0.8	1.2	2.3	2.4	2.5	2.9	3.6	4.1	4.5	4.7	4.7	4.8	5.0
Charitable bequests . . . . .	2.1	2.2	2.2	2.9	3.6	5.2	3.9	4.0	4.8	5.7	6.6	6.6	6.6
Allocation:													
Religion . . . . .	9.3	12.8	20.2	22.2	25.1	28.1	31.8	35.4	37.5	41.7	43.2	48.1	54.3
Health . . . . .	2.4	3.6	4.9	5.3	5.8	6.2	6.7	6.8	7.7	8.4	9.2	10.2	10.7
Education . . . . .	2.6	2.8	4.5	5.0	5.8	6.0	6.7	7.3	8.2	9.4	9.8	9.6	10.0
Human service . . . . .	2.9	2.9	4.5	4.9	5.6	6.3	7.2	7.9	8.6	9.1	9.8	10.5	11.4
Arts, culture and humanities . . . . .	0.7	1.6	2.7	3.2	3.7	5.0	4.2	4.5	5.1	5.8	6.3	6.8	7.5
Public/society benefit . . . . .	0.5	0.8	1.2	1.5	1.8	1.7	1.9	1.9	2.2	2.5	2.9	3.2	3.6
All other . . . . .	2.6	4.1	5.3	6.7	7.9	6.6	6.2	6.8	11.2	14.0	13.9	15.5	17.2

Source: AAFRC Trust for Philanthropy, New York, NY, *Giving USA*, annual. (Copyright.)

**No. 628. Foundations—Number and Finances, by Asset Size**

[Figures are for latest year reported by foundations, usually 1987 or 1988. Covers nongovernment nonprofit organizations with funds and programs managed by their own trustees or directors, whose goal was to maintain or aid social, educational, religious, or other activities deemed to serve the common good. Excludes organizations which make general appeals to the public for funds, act as trade associations for industrial or other special groups, or do not currently award grants]

ASSET SIZE	Number	Assets (mil. dol.)	Gifts received (mil. dol.)	Expen- ditures (mil. dol.)	Grants (mil. dol.)	PERCENT DISTRIBUTION				
						Number	Assets	Gifts received	Expen- ditures	Grants
<b>Total</b> . . . . .	<b>30,338</b>	<b>122,084</b>	<b>5,159</b>	<b>8,761</b>	<b>7,416</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Under \$50,000 . . . . .	7,794	142	167	228	217	25.7	0.1	3.2	2.6	2.9
\$50,000-\$99,999 . . . . .	3,309	241	62	87	80	10.9	0.2	1.2	1.0	1.1
\$100,000-\$249,999 . . . . .	5,288	863	178	240	222	17.4	0.7	3.5	2.7	3.0
\$250,000-\$499,999 . . . . .	3,721	1,336	182	230	200	12.3	1.1	3.5	2.6	2.7
\$500,000-\$999,999 . . . . .	3,222	2,303	263	302	253	10.6	1.9	5.1	3.4	3.4
\$1,000,000-\$4,999,999 . . . . .	4,607	10,045	996	1,090	927	15.2	8.2	19.3	12.4	12.5
\$5,000,000-\$9,999,999 . . . . .	1,054	7,451	518	712	603	3.5	6.1	10.0	8.1	8.1
\$10,000,000-\$49,999,999 . . . . .	1,024	21,393	1,432	1,745	1,468	3.4	17.5	27.8	19.9	19.8
\$50,000,000-\$99,999,999 . . . . .	162	11,260	534	762	613	0.5	9.2	10.3	8.7	8.3
\$100,000,000-\$249,999,999 . . . . .	97	15,413	586	1,051	908	0.3	12.6	11.4	12.0	12.2
\$250,000,000 or more . . . . .	60	51,635	240	2,317	1,925	0.2	42.3	4.6	26.4	26.0

Source: The Foundation Center, New York, NY, *The National Data Book of Foundations*, 14th edition, 1990.

**No. 629. Foundations—Grants Reported by Subject Field and Recipient Organization: 1989**

[Covers grants of \$5,000 or more in size. Number and dollar amounts of grants are distributed according to a new grants classification system adapted from the National Taxonomy of Exempt Entities. As a result, it is not possible to draw direct comparisons with data reported in earlier Grants Index volumes. Based on reports of 472 foundations. Grant sample totaling \$3.25 billion represented about 45 percent of all grant dollars awarded by private foundations. For definition of foundation, see headnote, table 628]

SUBJECT FIELD	NUMBER OF GRANTS		DOLLAR VALUE OF GRANTS		RECIPIENT ORGANIZATION <sup>1</sup>	NUMBER OF GRANTS		DOLLAR VALUE OF GRANTS	
	Num- ber	Per- cent distrib- ution	Amount (mil. dol.)	Per- cent distrib- ution		Num- ber	Per- cent distrib- ution	Amount (mil. dol.)	Per- cent distrib- ution
<b>Total</b> . . . . .	<b>46,431</b>	<b>100.0</b>	<b>3,254</b>	<b>100.0</b>	Community improvement organizations . . . . .	2,193	4.7	128	3.9
Arts and culture . . . . .	7,860	16.9	456	14.0	Educational institutions . . . . .	14,022	30.2	1,288	39.6
Education . . . . .	9,995	21.5	723	22.2	Colleges & universities . . . . .	8,957	19.3	963	29.6
Environment & animals . . . . .	2,058	4.4	160	4.9	Educational support agencies . . . . .	1,986	4.3	135	4.2
Health . . . . .	5,616	12.1	563	17.3	Hospitals/medical care facilities . . . . .	2,182	4.7	187	5.8
Human services . . . . .	10,462	22.5	493	15.2	Human service agencies . . . . .	8,242	17.8	336	10.3
International affairs, development & peace . . . . .	1,360	2.9	127	3.9	International organizations . . . . .	1,199	2.6	89	2.7
Public/society benefit . . . . .	5,243	11.3	327	10.0	Museums/historical societies . . . . .	2,148	4.6	198	6.1
Science and social science . . . . .	2,826	6.1	357	11.0	Performing arts groups . . . . .	3,166	6.8	129	4.0
Religion . . . . .	854	1.8	45	1.4	Professional societies & associations . . . . .	2,780	6.0	172	5.3
Other . . . . .	157	0.3	4	0.1	Science/social science organizations . . . . .	1,056	2.3	136	4.2

<sup>1</sup> Grants may be awarded to multiple types of recipient organizations and would thereby be double-counted.

Source: The Foundation Center, New York, NY, *Foundation Grants Index*, 19th Edition, 1990/1991.

**No. 630. Corporate Philanthropy—Donations, by Type of Beneficiary: 1975 to 1989**

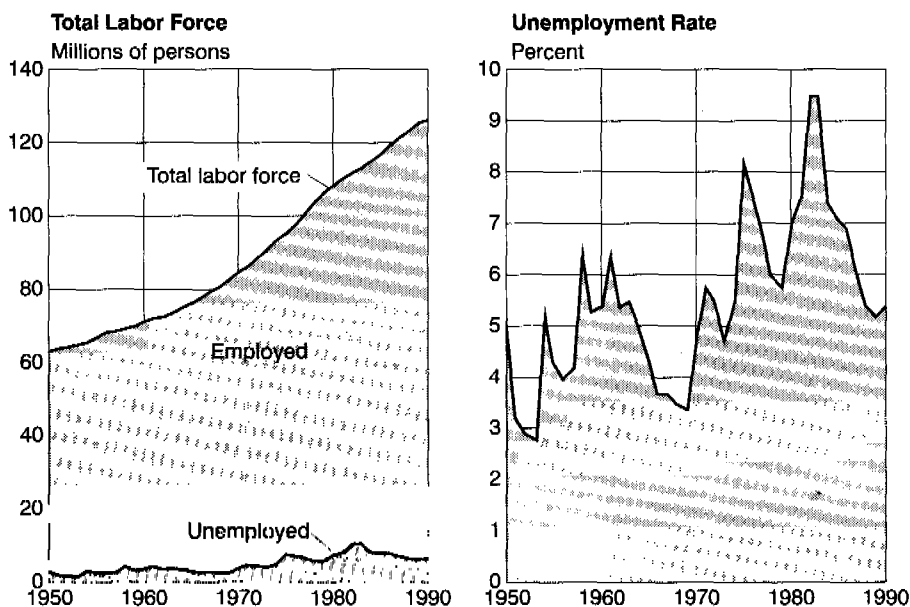
[In millions of dollars. Based on a sample of corporations that gave at least \$100,000; see source]

BENEFICIARY	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>Total</b> <sup>1</sup> . . . . .	<b>438.8</b>	<b>994.6</b>	<b>1,281.6</b>	<b>1,278.4</b>	<b>1,444.3</b>	<b>1,694.7</b>	<b>1,673.7</b>	<b>1,658.4</b>	<b>1,645.7</b>	<b>1,820.1</b>
Health and human services <sup>1</sup> . . . . .	180.0	337.9	397.3	367.6	399.9	494.1	468.6	450.5	480.2	481.0
Federated drives . . . . .	104.6	170.7	182.4	(NA)	193.9	(NA)	225.9	203.6	234.0	218.3
Other local health, human services . . . . .	20.5	41.7	44.6	(NA)	71.2	(NA)	(NA)	215.9	(NA)	(NA)
Education . . . . .	158.4	375.8	522.2	498.8	561.7	650.0	718.0	610.1	614.1	699.8
Dept. and research grants <sup>2</sup> . . . . .	23.8	64.7	114.6	(NA)	175.3	(NA)	198.5	(NA)	(NA)	(NA)
Employee matching gifts <sup>2</sup> . . . . .	14.0	45.4	71.2	(NA)	72.2	(NA)	98.7	108.5	108.2	115.0
Unrestricted operating grants <sup>2</sup> . . . . .	29.1	56.0	57.4	(NA)	34.7	(NA)	70.0	(NA)	(NA)	(NA)
Culture and art . . . . .	35.0	108.7	145.6	145.2	154.7	187.5	198.7	178.6	193.6	201.2
Civic, community activities <sup>1</sup> . . . . .	45.2	116.8	149.3	188.8	271.6	279.5	220.5	236.1	212.2	253.5
Community improvement . . . . .	15.2	47.0	48.2	(NA)	30.5	(NA)	12.6	53.4	51.3	87.0
Environment; ecology . . . . .	7.5	10.8	13.8	(NA)	97.1	(NA)	35.9	44.0	17.3	11.7

NA Not available. <sup>1</sup> Includes other beneficiaries not shown separately. <sup>2</sup> Higher education institutions.

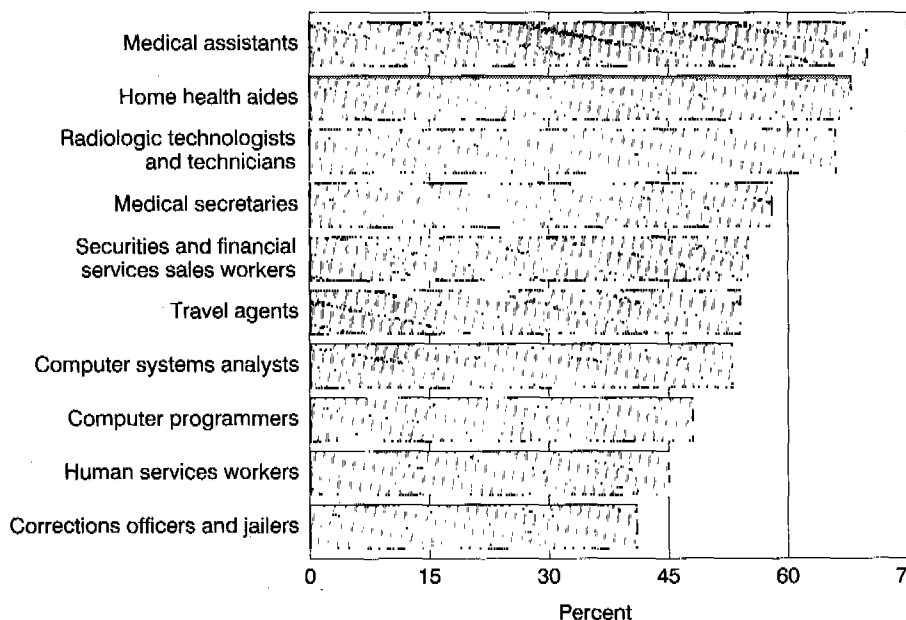
Source: The Conference Board, New York, NY, *Annual Survey of Corporate Contributions*. (Copyright.)

Figure 13.1  
**Labor Force Trends: 1950 to 1990**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 631.

Figure 13.2  
**10 Fastest Growing Occupations: 1988 to 2000**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 653.





## Section 13

# Labor Force, Employment, and Earnings

This section presents statistics on the labor force; its distribution by occupation and industry affiliation; and the supply of, demand for, and conditions of labor. The chief source of these data is the Current Population Survey conducted by the U.S. Bureau of the Census. Comprehensive historical data are published by the Bureau of Labor Statistics (BLS) in *Labor Force Statistics Derived From the Current Population Survey, 1948-87, BLS Bulletin 2307*. These data are supplemented on a current basis by the BLS monthly publications *Employment and Earnings* and the *Monthly Labor Review*. Detailed data on the labor force are also available from the Census Bureau's decennial census of population.

**Types of data.**—Most statistics in this section are obtained by two methods: household interviews or questionnaires, and reports of establishment payroll records. Each method provides data which the other cannot suitably supply. Population characteristics, for example, are readily obtainable only from the household survey, while detailed industrial classifications can be readily derived only from establishment records.

Household data are obtained from a monthly sample survey of the population. The Current Population Survey (CPS) is used to gather data for the calendar week including the 12th of the month and provides current comprehensive data on the labor force (see text, section 1). The CPS provides information on the work status of the population without duplication since each person is classified as employed, unemployed, or not in the labor force. Employed persons holding more than one job are counted only once, according to the job at which they worked the most hours during the survey week.

Monthly data from the CPS are published by the Bureau of Labor Statistics in *Employment and Earnings* and the related reports mentioned above. Data presented include national totals of the number of persons in the civilian labor force by sex, race, Hispanic origin, and age; the number employed; hours of work; industry and occupational groups; and the number unemployed, reasons for, and duration of unemployment. Monthly data from the CPS are also presented for 11 large States. Annual data shown in this section are averages of monthly figures for each calendar year, unless otherwise specified.

In addition to monthly data, the CPS also produces annual estimates of employment and unemployment for each State, 50 large metropolitan statistical areas, and selected cities. These estimates are published by BLS in its annual *Geographic Profile of Employment and Unemployment*. More detailed geographic data (e.g., for counties and cities) are provided by the decennial population censuses.

Data based on establishment records are compiled by BLS and cooperating State agencies as part of an ongoing Current Employment Statistics Program. Data, gathered from a sample of employers who voluntarily complete mail questionnaires monthly, are supplemented by data from other government agencies and adjusted at intervals to data from government social insurance program reports. The estimates exclude proprietors of unincorporated firms, self-employed persons, private household workers, unpaid family workers, agricultural workers, and the Armed Forces. In March 1989, reporting establishments employed 9 million manufacturing workers (48 percent of the total manufacturing employment at the time), 17 million workers in nonmanufacturing industries (24 percent of the total in nonmanufacturing), and 13 million Federal, State, and local government employees (71 percent of total government).

The establishment survey counts workers each time they appear on a payroll during the reference week (as with the CPS, the week including the 12th of the month). Thus, unlike the CPS, a person with two jobs is counted twice. The establishment survey is designed to provide detailed industry information for the Nation, States, and metropolitan areas on nonfarm wage and salary employment, average weekly hours, and average hourly and weekly earnings. Establishment survey data are published in *Employment and Earnings* and the *Monthly Labor Review*, cited above. Historical national and geographic data are published in *BLS Bulletin 2370, Employment, Hours, and Earnings, United States, 1909-90* and *Bulletin 2320, Employment, Hours, and Earnings, States and Areas, 1972-87*.

**Labor force.**—According to the CPS definitions, the civilian labor force comprises all civilians in the noninstitutional population 16 years and over classified as “employed” or “unemployed” according to the criteria below: Employed civilians comprise (a) all civilians, who, during the reference week, did any work for pay or profit (minimum of an hour’s work) or worked 15 hours or more as unpaid workers in a family enterprise, and (b) all civilians who were not working but who had jobs or businesses from which they were temporarily absent for noneconomic reasons (illness, weather conditions, vacation, labor-management dispute, etc.) whether they were paid for the time off or were seeking other jobs. Unemployed persons comprise all civilians who had no employment during the reference week, who made specific efforts to find a job within the previous four weeks (such as applying directly to an employer, or to a public employment service, or checking with friends) and who were available for work during that week, except for temporary illness. Persons on layoff from a job or waiting to report to a new job within 30 days are also classified as unemployed if they were available for work. All other civilian persons, 16 years old and over, are “not in the labor force”. The total labor force includes, in addition to the civilian employed and unemployed, members of the Armed Forces stationed in the United States. They are also included in the employed totals.

Beginning in 1982, changes in the estimation procedures and the introduction of 1980 census data caused substantial increases in the population and estimates of persons in all labor force categories. Rates on labor force characteristics, however, were essentially unchanged. In order to avoid major breaks in series, some 30,000 labor force series were adjusted back to 1970. The effect of the 1982 revisions on various data series and an explanation of the adjustment procedure used are described in “Revisions in the Current Population Survey in January 1982,” in the February 1982 issue of *Employment and Earnings*. The revisions did not, however, smooth out the breaks in series occurring between 1972 and 1979, and data users should make allowances for them in making certain data comparisons.

Beginning in January 1985, the CPS estimation procedure was revised due to the implementation of a new sample design. A description of the changes and an indication of their effect on the national estimates of labor force characteristics appear in “Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1985” in the February 1985 issue of *Employment and Earnings*. Overall, the revisions had only a slight effect on most estimates. The greatest impact was on estimates of persons of Hispanic origin, which were revised to the extent possible, back to January 1980.

Beginning in January 1986, the CPS estimation procedure was revised to reflect an explicit estimate of the number of undocumented immigrants (largely Hispanic) since 1980 and an improved estimate of the number of legal foreign-born emigrants for the same time period. The revisions had a comparatively small effect on the total population and labor force estimates, but their effect on the estimates of persons of Hispanic origin was more pronounced. As a result, data for Hispanics, to the extent possible, were again revised back to January 1980. An explanation of the changes and their effect on estimates of labor force characteristics appears in “Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1986” in the February 1986 issue of *Employment and Earnings*.

**Hours and earnings.**—Average hourly earnings, based on establishment data, are gross earnings (i.e., earnings before payroll deductions) and include overtime premiums; they exclude irregular bonuses and value of payments in kind. Hours are those for which pay was received. Wages and salaries from the CPS consist of total monies received for work performed by an employee during the income year. It includes wages, salaries, commissions, tips, piece-rate payments, and cash bonuses earned before deductions were made for taxes, bonds, union dues, etc. Persons who worked 35 hours or more are classified as working full time (see table 649).

**Industrial and occupational groups.**—Establishments responding to the establishment survey are classified into industries on the basis of their principal product or activity (determined by annual sales volume) in accordance with the *Standard Industrial Classification (SIC) Manual*, Office of Management and Budget. The SIC is a classification structure for the entire national economy. The structure provides data on a division and industry code basis, according to the level of industrial detail. For example, manufacturing is a major industrial division; food and kindred products (code 20) is one of its major groups. One of the ways this group is further divided is into meat products (code 201) and meat packing plants (code 2011). Periodically, the SIC is revised to reflect changes in the industrial composition of the economy. The 1987 *SIC Manual* has been issued; the previous was the 1972 *SIC Manual*. Tables shown in this *Abstract* indicate which *SIC Manual* the data shown are based on.

Industry data derived from the CPS beginning in January 1983 utilize the 1980 Census industrial classification developed from the 1972 SIC. CPS data from 1971 to 1982 were based on the 1970 census classification system which was developed from the 1967 SIC. Most of the industry categories were not affected by the change in classification.

The occupational classification system used in the 1980 census and in the CPS beginning in January 1983, evolved from the 1980 Standard Occupational Classification (SOC) system, first introduced in 1977. Occupational categories used in the 1980 census classification system are so radically different from the 1970 census system used in the CPS through 1982, that their implementation represented a break in historical data series. In cases where data have not yet been converted to the 1980 classifications and still reflect the 1970 classifications (e.g., table 681), comparisons between the two systems should not be made. To help users bridge the data gap, a limited set of estimates was developed for the 1972-82 period based on the new classifications. The estimates were developed by means of applying conversion factors created by double coding a 20-percent sample of CPS occupational records for 6 months during 1981-82. For further details, contact BLS.

**Productivity.**—The Bureau of Labor Statistics (BLS) publishes data on productivity as measured by output per hour (labor productivity), output per combined unit of labor and capital input (multifactor productivity), and, for manufacturing industries, output per combined unit of capital, labor, energy, materials, and purchased service inputs. Labor productivity and related indexes are published for the business sector as a whole and its major subsectors: nonfarm business, manufacturing, nonfinancial corporations, 146 specific industries, and various functional areas of the Federal civilian government. Multifactor productivity and related measures are published for the private business sector and its major subsectors. Productivity indexes which take into account capital, labor, energy, materials, and service inputs are published for the 20 major 2-digit industry groups which comprise the manufacturing sector, and for the steel and motor vehicle industries. The major sector data are published in the BLS quarterly news release, *Productivity and Costs* and in the annual *Multifactor Productivity Measures* release. The specific industry productivity measures are published annually in the BLS Bulletin, *Productivity Measures for Selected Industries*, and the *Handbook of Labor Statistics*. Detailed information on methods, limitations, and data sources appears in the *BLS Handbook of Methods*, BLS Bulletin 2285 (1988), chapters 10 and 11.

**Unions.**—As defined here, unions include traditional labor unions and employee associations similar to labor unions. Data on union membership status provided by BLS are for employed wage and salary workers and relate to their principal job. Earnings by union membership status are usual weekly earnings of full-time wage and salary workers. The information is collected through the Current Population Survey. For a full description of the method of collection and comparability with earlier data, see "New Data on Union Members and Their Earnings" in the January 1985 issue of *Employment and Earnings*, and "Changing Employment Patterns of Organized Workers" in the February 1985 issue of the *Monthly Labor Review*. Collective bargaining settlements data are available for bargaining situations involving 1,000 or more workers in private industry and State and local government.

**Work stoppages.**—Work stoppages include all strikes and lockouts known to BLS which last for at least one full day or shift and involve 1,000 or more workers. All stoppages, whether or not authorized by a union, legal or illegal, are counted. Excluded are work slowdowns and instances where employees report to work late, or leave early, to attend mass meetings or mass rallies.

**Seasonal adjustment.**—Many economic statistics reflect a regularly recurring seasonal movement which can be estimated on the basis of past experience. By eliminating that part of the change which can be ascribed to usual seasonal variation (e.g., climate or school openings and closings), it is possible to observe the cyclical and other nonseasonal movements in the series. However, in evaluating deviations from the seasonal pattern—that is, changes in a seasonally adjusted series—it is important to note that seasonal adjustment is merely an approximation based on past experience. Seasonally adjusted estimates have a broader margin of possible error than the original data on which they are based, since they are subject not only to sampling and other errors, but also are affected by the uncertainties of the adjustment process itself.

**Statistical reliability.**—For discussion of statistical collection, estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau and BLS data, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

### No. 631. Employment Status of the Noninstitutional Population 16 Years Old and Over: 1950 to 1990

[In thousands, except as indicated. Annual averages of monthly figures. Based on Current Population Survey; see text, section 1 and Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series D 11-19 and D 85-86]

YEAR	Noninstitutional population	LABOR FORCE								Not in labor force
		Number	Employed					Unemployed		
			Total	Resident Armed Forces	Civilian			Number	Percent of labor force <sup>1</sup>	
					Total	Agriculture	Non agricultural industries			
1950	106,164	63,377	60,087	1,169	58,918	7,160	51,758	3,288	5.2	42,787
1960	119,106	71,489	67,639	1,861	65,778	5,458	60,318	3,852	5.4	47,617
1965	128,459	76,401	73,034	1,946	71,088	4,361	66,726	3,366	4.4	52,058
1970	139,203	84,889	80,796	2,118	78,678	3,463	75,215	4,093	4.8	54,315
1975	154,831	95,453	87,524	1,676	85,846	3,408	82,438	7,929	8.3	59,377
1978	163,541	103,882	97,679	1,631	96,048	3,387	92,661	6,202	6.0	59,659
1979	166,460	106,559	100,421	1,597	98,824	3,347	95,477	6,137	5.8	59,900
1980	169,349	109,544	100,907	1,804	99,303	3,364	95,938	7,637	7.0	60,806
1981	171,775	110,315	102,042	1,645	100,397	3,368	97,030	8,273	7.5	61,480
1982	173,939	111,872	101,194	1,668	99,526	3,401	96,125	10,678	9.5	62,067
1983	175,881	113,226	102,510	1,676	100,834	3,383	97,450	10,717	9.5	62,665
1984	178,080	115,241	106,702	1,697	105,005	3,321	101,685	8,539	7.4	62,839
1985	179,912	117,167	108,856	1,706	107,150	3,179	103,971	8,312	7.1	62,744
1986	182,293	119,540	111,303	1,706	109,597	3,163	106,434	8,237	6.9	62,752
1987	184,490	121,602	114,177	1,737	112,440	3,208	109,232	7,425	6.1	62,888
1988	186,322	123,378	116,677	1,709	114,968	3,169	111,800	6,701	5.4	62,944
1989	188,081	125,557	119,030	1,688	117,342	3,199	114,142	6,528	5.2	62,523
1990	189,686	126,424	119,550	1,637	117,914	3,186	114,728	6,874	5.4	63,262
PERCENT DISTRIBUTION										
1950	100.0	59.7	56.6	1.1	55.5	6.7	48.8	3.1	(X)	40.3
1960	100.0	60.0	56.8	1.6	55.2	4.6	50.6	3.2	(X)	40.0
1970	100.0	61.0	58.0	1.5	56.5	2.5	54.0	2.9	(X)	39.0
1980	100.0	64.1	59.6	0.9	58.6	2.0	56.7	4.5	(X)	35.9
1985	100.0	65.1	60.5	0.9	59.6	1.8	57.8	4.6	(X)	34.9
1990	100.0	66.6	63.0	0.9	62.2	1.7	60.5	3.6	(X)	33.4

X Not applicable. <sup>1</sup> Unemployment as a percent of the labor force, including resident Armed Forces.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

### No. 632. Civilian Labor Force and Participation Rates by Race, Hispanic Origin, Sex, and Age, 1970 to 1989, and Projections, 2000

[For civilian noninstitutional population 16 years old and over. Annual averages of monthly figures. Rates are based on annual average civilian noninstitutional population of each specified group and represent proportion of each specified group in the civilian labor force. Based on Current Population Survey; see text, section 1 and Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series D 42-48]

RACE, SEX, AND AGE	CIVILIAN LABOR FORCE (millions)							PARTICIPATION RATE (percent)						
	1970	1975	1980	1985	1988	1989	2000	1970	1975	1980	1985	1988	1989	2000
Total <sup>1</sup>	82.8	93.8	106.9	115.5	121.7	123.9	141.1	60.4	61.2	63.8	64.8	65.9	66.5	69.0
White	73.6	82.8	93.6	99.9	104.8	106.4	119.0	60.2	61.5	64.1	65.0	66.2	66.7	69.5
Male	46.0	50.3	54.5	56.5	58.3	59.0	63.3	80.0	78.7	78.2	77.0	76.9	77.1	76.6
Female	27.5	32.5	39.1	43.5	46.4	47.4	55.7	42.6	45.9	51.2	54.1	56.4	57.2	62.9
Black <sup>2</sup>	9.2	9.3	10.9	12.4	13.2	13.5	16.5	61.8	58.8	61.0	62.9	63.8	64.2	66.5
Male	5.2	5.0	5.6	6.2	6.6	6.7	8.0	76.5	71.0	70.6	70.8	71.0	71.0	71.4
Female	4.0	4.2	5.3	6.1	6.6	6.8	8.5	49.5	48.9	53.2	56.5	58.0	58.7	62.5
Hispanic <sup>3</sup>	(NA)	(NA)	6.1	7.7	9.0	9.3	14.3	(NA)	(NA)	64.0	64.6	67.4	67.6	69.9
Male	(NA)	(NA)	3.8	4.7	5.4	5.6	8.3	(NA)	(NA)	81.4	80.3	81.9	82.0	80.3
Female	(NA)	(NA)	2.3	3.0	3.6	3.7	6.0	(NA)	(NA)	47.4	49.3	53.2	53.5	59.4
Male	51.2	56.3	61.5	64.4	66.9	67.8	74.3	79.7	77.9	77.4	76.3	76.2	76.4	75.9
16-19 years	4.0	4.8	5.0	4.1	4.2	4.1	4.4	56.1	59.1	60.5	56.8	56.9	57.9	59.0
16 and 17 years	1.8	2.1	2.1	1.7	1.7	1.6	1.9	47.0	48.6	50.1	45.1	46.1	46.3	48.9
18 and 19 years	2.2	2.7	2.9	2.5	2.4	2.5	2.5	66.7	70.6	71.3	68.9	68.1	69.2	69.7
20-24 years	5.7	7.6	8.6	8.3	7.6	7.5	6.9	83.3	84.5	85.9	85.0	85.0	85.3	86.5
25-34 years	11.3	14.2	17.0	18.8	19.7	19.9	16.6	96.4	95.2	95.2	94.7	94.3	94.4	94.1
35-44 years	10.5	10.4	11.8	14.5	16.1	16.6	20.2	96.9	95.6	95.5	95.0	94.5	94.5	94.3
45-54 years	10.4	10.4	9.9	9.9	10.6	10.9	16.4	94.3	92.1	91.2	91.0	90.9	91.1	90.5
55-64 years	7.1	7.0	7.2	7.1	6.8	6.8	7.8	83.0	75.6	72.1	67.9	67.0	67.2	68.1
65 years and over	2.2	1.9	1.9	1.8	2.0	2.0	2.0	26.8	21.6	19.0	15.8	16.5	16.6	14.7
Female	31.5	37.5	45.5	51.1	54.7	56.0	66.8	43.3	46.3	51.5	54.5	56.6	57.4	62.6
16-19 years	3.2	4.1	4.4	3.8	3.9	3.8	4.4	44.0	49.1	52.9	52.1	53.6	53.9	59.5
16 and 17 years	1.3	1.7	1.8	1.5	1.6	1.5	1.8	34.9	40.2	43.6	42.1	44.0	44.5	49.8
18 and 19 years	1.9	2.4	2.6	2.3	2.3	2.3	2.6	53.5	58.1	61.9	61.7	62.9	62.5	69.0
20-24 years	4.9	6.2	7.3	7.4	6.9	6.7	6.7	57.7	64.1	68.9	71.8	72.7	72.4	77.9
25-34 years	5.7	8.7	12.3	14.7	15.8	16.0	15.1	45.0	54.9	65.5	70.9	72.7	73.5	82.4
35-44 years	6.0	6.5	8.6	11.6	13.4	14.0	18.6	51.1	55.8	65.5	71.8	75.2	76.0	84.9
45-54 years	6.5	6.7	7.0	7.5	8.5	9.0	14.4	54.4	54.6	59.9	64.4	69.0	70.5	76.5
55-64 years	4.2	4.3	4.7	4.9	5.0	5.1	6.1	43.0	40.9	41.3	42.0	43.5	45.0	49.0
65 years and over	1.1	1.0	1.2	1.2	1.3	1.4	1.4	9.7	8.2	8.1	7.3	7.9	8.4	7.6

NA Not available. <sup>1</sup> Beginning 1975, includes other races not shown separately. <sup>2</sup> For 1970, Black and other. <sup>3</sup> Persons of Hispanic origin may be of any race.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly; *Monthly Labor Review*, November 1989; and unpublished data.

**No. 633. Hispanic Persons—Civilian Labor Force Participation: 1988 and 1989**  
 [For civilian noninstitutional population, 16 years old and over. Annual averages of monthly figures. Based on Current Population Survey; see text, section 1 and Appendix III]

ITEM	1988					1989				
	Total	Mex-ican	Puerto Rican	Cuban	Other His-panic origin <sup>1</sup>	Total	Mex-ican	Puerto Rican	Cuban	Other His-panic origin <sup>1</sup>
Total (1,000).....	13,325	8,013	1,599	849	2,864	13,791	8,295	1,545	886	3,065
Percent in labor force: Male.....	81.9	84.2	72.8	78.9	80.4	82.0	83.3	75.9	77.4	82.3
Female.....	53.2	53.9	41.4	54.9	57.8	53.5	54.4	42.9	50.5	58.0
Employed (1,000).....	8,250	5,066	807	537	1,840	8,573	5,247	803	531	1,992
Percent.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional.....	13.2	10.2	15.6	24.2	16.9	13.1	10.5	15.4	23.7	16.3
Tech., sales, and admin. support.....	25.0	22.1	28.7	34.6	28.6	24.0	21.5	29.9	33.5	25.7
Services.....	18.9	19.2	17.7	11.2	21.0	19.6	19.3	18.1	13.6	22.7
Precision production, craft, and repair.....	13.5	14.3	13.6	11.7	11.9	13.7	14.4	14.2	11.5	12.3
Operators, fabricators and laborers.....	23.9	26.2	23.6	17.7	19.7	24.0	26.3	21.2	16.8	21.0
Farming, forestry, and fishing.....	5.4	8.0	0.7	0.6	1.8	5.5	8.0	1.2	0.9	2.0
Percent unemployed: Male.....	8.1	8.7	9.0	4.8	6.5	7.6	7.9	9.9	5.3	6.1
Female.....	8.3	9.6	8.1	5.2	6.1	8.8	9.6	9.3	6.0	7.2

<sup>1</sup> Includes Central or South American and other Hispanic origin.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

**No. 634. Civilian Labor Force and Participation Rates, by Educational Attainment, Sex, and Race: 1970 to 1989**

[As of March. For civilian noninstitutional population 25 to 64 years of age. See headnote, table 632]

ITEM	CIVILIAN LABOR FORCE					PARTICIPATION RATE <sup>1</sup>				
	Total (1,000)	Percent distribution				Total	Less than high school	High school graduate	College	
		Less than high school	High School grad- uate	College					1-3 years	4 years or more
				1-3 years	4 years or more					
Total: <sup>2</sup> 1970	61,765	36.1	38.1	11.8	14.1	70.3	85.5	70.2	73.8	82.3
1975	67,774	27.5	39.7	14.4	18.3	70.5	61.6	70.5	75.7	84.5
1980	78,010	20.6	39.8	17.6	22.0	73.9	60.7	74.2	79.5	86.1
1985	88,424	15.9	40.2	19.0	24.9	76.2	59.9	75.9	81.6	87.7
1986	90,500	15.5	40.2	19.5	24.8	76.4	60.4	76.0	81.2	87.6
1987	92,966	14.9	40.2	19.7	25.3	77.2	60.9	76.6	81.9	88.1
1988	94,870	14.7	39.9	19.7	25.7	77.5	60.8	76.9	82.5	88.4
1989	97,318	14.0	39.6	20.0	26.4	78.2	60.5	77.9	83.3	88.4
Male: 1970	39,303	37.5	34.5	12.2	15.7	93.5	89.3	96.3	95.8	96.1
1975	41,628	28.9	36.1	14.8	20.2	90.3	82.6	93.2	93.3	95.7
1980	45,417	22.2	35.7	17.7	24.3	89.4	78.8	91.9	92.4	95.3
1985	49,647	17.7	36.9	18.3	27.1	88.6	72.2	90.0	91.2	94.6
1986	50,733	17.2	37.0	18.9	26.9	88.4	75.9	89.8	91.0	94.4
1987	51,860	16.8	37.1	18.9	27.2	88.8	77.2	89.6	91.9	94.2
1988	52,616	16.5	37.3	18.5	27.8	88.6	76.4	89.5	91.3	94.4
1989	53,668	15.7	36.9	19.2	28.2	88.8	75.9	89.6	91.8	94.5
Female: 1970	22,462	33.5	44.3	10.9	11.2	49.0	43.0	51.3	50.9	60.9
1975	26,146	26.5	45.5	13.9	14.1	52.3	44.1	53.9	57.3	62.7
1980	32,593	18.4	45.4	17.4	18.7	59.5	43.7	61.2	66.4	73.4
1985	38,779	13.7	44.4	19.9	22.0	64.7	44.3	65.0	72.5	78.6
1986	39,767	13.2	44.3	20.3	22.2	65.1	45.1	65.3	71.9	78.8
1987	41,105	12.5	44.0	20.7	22.8	66.2	44.9	66.4	72.7	80.3
1988	42,254	12.4	43.3	21.2	23.1	67.1	45.4	66.9	74.7	80.8
1989	43,650	11.9	42.9	20.9	24.3	68.3	45.5	68.5	75.4	81.1
White: 1970	55,044	33.7	39.3	12.2	14.8	70.1	65.2	69.7	73.3	81.9
1975	60,026	25.7	40.6	14.7	19.0	70.7	61.9	70.1	75.3	84.5
1980	68,509	19.1	40.2	17.7	22.9	74.2	61.4	73.7	79.2	86.0
1985	76,739	14.7	40.7	19.1	25.6	76.6	60.7	75.8	81.1	87.7
1986	78,225	14.5	40.4	19.5	25.6	76.7	61.2	75.7	80.8	87.6
1987	80,205	13.9	40.4	19.6	26.1	77.5	61.6	76.6	81.6	88.2
1988	81,886	13.8	40.1	19.7	26.4	78.1	62.2	76.9	82.2	88.6
1989	83,694	13.0	39.7	20.0	27.2	78.7	61.6	77.8	83.2	88.5
Black: 1970	6,721	55.5	28.2	8.0	8.3	72.0	67.1	76.8	81.0	87.4
1975	7,586	41.9	33.1	12.4	12.6	69.8	60.9	75.1	79.7	85.1
1980	7,731	34.7	38.1	16.3	11.0	71.5	58.1	79.2	82.0	90.1
1985	9,157	26.2	39.5	19.2	15.0	73.4	57.0	77.2	85.6	89.9
1986	9,569	23.9	41.1	20.1	14.8	74.7	57.7	78.4	84.8	91.7
1987	9,797	23.6	42.4	19.9	14.1	74.7	58.8	77.6	84.5	90.4
1988	9,985	22.6	43.0	19.2	15.2	74.3	56.2	77.9	85.8	90.6
1989	10,358	21.7	42.3	20.5	15.6	74.9	56.7	78.9	83.9	90.4

<sup>1</sup> Percent of the civilian population in each group in the civilian labor force. <sup>2</sup> Includes other races, not shown separately. For 1970, White and Black races only.

Source: U.S. Bureau of Labor Statistics, Bulletin 2307, and unpublished data.

# No. 635. Employment Status of the Civilian Noninstitutional Population 16 Years Old and Over by Sex, Race, and Hispanic Origin: 1960 to 1990

[In thousands, except as indicated. Annual averages of monthly figures. Based on Current Population Survey; see text, section 1, and Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series D 11-19 and D 85-86]

YEAR, SEX, RACE, AND HISPANIC ORIGIN	Civilian noninsti- tutional popula- tion	CIVILIAN LABOR FORCE						NOT IN LABOR FORCE	
		Total	Percent of popu- lation	Employed	Employ- ment/ popula- tion ratio <sup>1</sup>	Unemployed		Number	Percent of labor force
						Number	Percent of popu- lation		
<b>Total:</b> <sup>2</sup>									
1960	117,245	69,628	59.4	65,778	56.1	3,852	5.5	47,617	40.6
1970	137,085	82,771	60.4	78,678	57.4	4,093	4.9	54,315	39.6
1980	167,745	106,940	63.8	98,303	59.2	7,637	7.1	60,806	36.2
1985	178,206	115,461	64.8	107,150	60.1	8,312	7.2	62,744	35.2
1986	180,587	117,834	65.3	109,597	60.7	8,237	7.0	62,752	34.7
1987	182,753	119,865	65.6	112,440	61.5	7,425	6.2	62,888	34.4
1988	184,613	121,669	65.9	114,968	62.3	6,701	5.5	62,944	34.1
1989	186,393	123,869	66.5	117,342	63.0	6,528	5.3	62,523	33.5
1990	188,049	124,787	66.4	117,914	62.7	6,874	5.5	63,262	33.6
<b>Male:</b>									
1960	55,662	46,388	83.3	43,904	78.9	2,486	5.0	9,274	16.7
1970	64,304	51,228	79.7	48,990	76.2	2,238	4.4	13,076	20.3
1980	79,398	61,453	77.4	57,186	72.0	4,267	6.9	17,945	22.7
1985	84,469	64,411	76.3	59,891	70.9	4,521	7.0	20,058	23.7
1986	85,798	65,422	76.3	60,892	71.0	4,530	6.9	20,376	23.7
1987	86,899	66,207	76.2	62,107	71.5	4,101	6.2	20,692	23.8
1988	87,857	66,927	76.2	63,273	72.0	3,655	5.5	20,930	23.8
1989	88,762	67,840	76.4	64,315	72.5	3,525	5.5	20,823	23.6
1990	89,650	68,234	76.1	64,435	71.9	3,799	5.6	21,417	23.9
<b>Female:</b>									
1960	61,582	23,240	37.7	21,874	35.5	1,366	5.9	38,343	62.3
1970	72,782	31,543	43.3	29,688	40.8	1,855	5.9	41,239	56.7
1980	88,348	45,487	51.5	42,117	47.7	3,370	7.4	42,861	48.5
1985	93,736	51,050	54.5	47,259	50.4	3,791	7.4	42,686	45.5
1986	94,789	52,413	55.3	48,706	51.4	3,707	7.1	42,376	44.7
1987	95,853	53,658	56.0	50,334	52.5	3,324	6.2	42,195	44.0
1988	96,756	54,742	56.6	51,696	53.4	3,046	5.6	42,014	43.4
1989	97,630	56,030	57.4	53,027	54.3	3,003	5.4	41,601	42.6
1990	98,999	56,554	57.5	53,479	54.3	3,075	5.4	41,845	42.5
<b>White:</b>									
1960	105,282	61,915	58.8	58,850	55.9	3,065	5.0	43,367	41.1
1970	122,174	73,556	60.2	70,217	57.5	3,339	4.5	48,618	39.8
1980	146,122	83,600	64.1	87,715	60.0	5,884	6.3	52,522	35.9
1985	153,679	99,926	65.0	95,736	61.0	6,191	6.2	53,753	35.0
1986	155,432	101,801	65.5	95,660	61.5	6,140	6.0	53,631	34.5
1987	156,958	103,290	65.8	97,789	62.3	5,501	5.3	53,669	34.2
1988	158,194	104,756	66.2	99,812	63.1	4,944	4.7	53,439	33.8
1989	159,338	106,355	66.7	101,584	63.8	4,770	4.5	52,983	33.3
1990	160,415	107,177	66.8	102,087	63.6	5,091	4.7	53,237	33.2
<b>Black:</b>									
1973	14,917	8,976	60.2	8,128	54.5	846	9.4	5,941	39.8
1980	17,824	10,865	61.0	9,313	52.2	1,553	14.3	6,959	39.0
1985	19,664	12,364	62.9	10,501	53.4	1,864	15.1	7,299	37.1
1986	19,989	12,654	63.3	10,814	54.1	1,840	14.5	7,335	36.7
1987	20,352	12,993	63.8	11,309	55.6	1,884	13.0	7,359	36.2
1988	20,692	13,205	63.8	11,658	56.3	1,547	11.7	7,487	36.2
1989	21,021	13,497	64.2	11,953	56.9	1,544	11.4	7,524	35.8
1990	21,300	13,493	63.3	11,966	56.2	1,527	11.3	7,808	36.7
<b>Hispanic:</b> <sup>3</sup>									
1980	9,598	6,146	64.0	5,527	57.6	620	10.1	3,452	36.0
1985	11,915	7,698	64.6	6,888	57.8	811	10.5	4,217	35.4
1986	12,344	8,076	65.4	7,219	58.5	857	10.6	4,268	34.6
1987	12,867	8,541	66.4	7,790	60.5	751	8.8	4,327	33.6
1988	13,325	8,982	67.4	8,250	61.9	732	8.2	4,342	32.6
1989	13,791	9,323	67.6	8,573	62.2	750	8.0	4,468	32.4
1990	14,297	9,576	67.0	8,808	61.6	769	8.0	4,721	33.0
<b>Mexican:</b>									
1986	7,377	4,941	67.0	4,387	59.5	555	11.2	2,436	33.0
1988	8,013	5,572	69.5	5,066	63.2	506	9.1	2,441	30.5
1989	8,295	5,740	69.2	5,247	63.3	493	8.6	2,555	30.8
1990	8,742	5,970	68.3	5,478	62.7	492	8.2	2,773	31.7
<b>Puerto Rican:</b>									
1986	1,494	804	53.8	691	46.3	113	14.0	690	46.2
1988	1,599	883	55.2	807	50.5	76	8.6	716	44.8
1989	1,545	889	57.5	803	52.0	86	9.6	656	42.5
1990	1,546	859	55.6	780	50.5	79	9.1	687	44.4
<b>Cuban:</b>									
1986	842	570	67.7	533	63.3	36	6.4	272	32.3
1988	849	565	66.5	537	63.3	28	5.0	284	33.5
1989	886	562	63.5	531	59.9	31	5.6	324	36.6
1990	847	552	65.1	512	60.4	40	7.2	295	34.8

<sup>1</sup> Civilian employed as a percent of the civilian noninstitutional population. <sup>2</sup> Includes other races, not shown separately.

<sup>3</sup> Persons of Hispanic origin may be of any race. Includes persons of other Hispanic origin, not shown separately.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

## No. 636. Characteristics of the Civilian Labor Force, by State: 1989

[In thousands, except ratio and rate. For civilian noninstitutional population, 16 years old and over. Annual averages of monthly figures. Because of separate processing and weighting procedures, the totals for the United States differ from results obtained by aggregating totals for regions and States]

REGION, DIVISION AND STATE	TOTAL		EMPLOYED		Em- ployed/ popula- tion ratio <sup>1</sup>	UNEMPLOYED					PARTICIPA- TION RATE <sup>3</sup>	
	Num- ber	Fe- male	Total	Fe- male		Total		Rate <sup>2</sup>			Male	Female
						Num- ber	Fe- male	Total	Male	Fe- male		
<b>United States...</b>	<b>123,869</b>	<b>56,030</b>	<b>117,342</b>	<b>53,027</b>	<b>63.0</b>	<b>6,528</b>	<b>3,003</b>	<b>5.3</b>	<b>5.2</b>	<b>5.4</b>	<b>76.4</b>	<b>57.4</b>
<b>Northeast...</b>	<b>25,528</b>	<b>11,589</b>	<b>24,387</b>	<b>11,085</b>	<b>62.0</b>	<b>1,141</b>	<b>483</b>	<b>4.5</b>	<b>4.7</b>	<b>4.2</b>	<b>75.7</b>	<b>55.5</b>
<b>New England...</b>	<b>7,001</b>	<b>3,240</b>	<b>6,730</b>	<b>3,125</b>	<b>66.6</b>	<b>271</b>	<b>115</b>	<b>3.9</b>	<b>4.1</b>	<b>3.6</b>	<b>78.7</b>	<b>60.9</b>
Maine.....	616	284	590	273	63.6	25	12	4.1	4.2	4.1	75.5	58.1
New Hampshire.....	611	273	589	262	70.3	21	10	3.5	3.3	3.8	82.7	63.6
Vermont.....	307	142	296	137	68.8	11	6	3.7	3.4	4.1	80.0	63.7
Massachusetts.....	3,180	1,499	3,053	1,445	66.1	127	54	4.0	4.3	3.6	77.7	61.0
Rhode Island.....	525	236	504	226	65.5	21	10	4.1	4.1	4.1	77.9	59.2
Connecticut.....	1,761	807	1,697	782	67.5	64	24	3.7	4.2	3.0	80.4	60.8
<b>Middle Atlantic...</b>	<b>18,527</b>	<b>8,328</b>	<b>17,657</b>	<b>7,960</b>	<b>60.5</b>	<b>870</b>	<b>368</b>	<b>4.7</b>	<b>4.9</b>	<b>4.4</b>	<b>74.6</b>	<b>53.6</b>
New York.....	8,681	3,918	8,238	3,730	59.7	442	187	5.1	5.4	4.8	74.6	52.8
New Jersey.....	3,989	1,796	3,826	1,726	63.4	163	70	4.1	4.3	3.9	76.4	56.8
Pennsylvania.....	5,857	2,615	5,592	2,504	59.7	264	111	4.5	4.7	4.2	73.4	52.8
<b>Midwest...</b>	<b>30,775</b>	<b>13,953</b>	<b>29,123</b>	<b>13,208</b>	<b>64.2</b>	<b>1,651</b>	<b>745</b>	<b>5.4</b>	<b>5.4</b>	<b>5.3</b>	<b>77.6</b>	<b>59.0</b>
<b>East North Central...</b>	<b>21,516</b>	<b>9,718</b>	<b>20,280</b>	<b>9,165</b>	<b>63.4</b>	<b>1,236</b>	<b>553</b>	<b>5.7</b>	<b>5.8</b>	<b>5.7</b>	<b>77.1</b>	<b>58.3</b>
Ohio.....	5,419	2,459	5,118	2,327	62.0	300	132	5.5	5.7	5.4	75.2	56.8
Indiana.....	2,881	1,320	2,744	1,253	65.1	136	67	4.7	4.5	5.1	78.1	59.5
Illinois.....	6,015	2,701	5,656	2,544	64.0	359	157	6.0	6.1	5.8	78.7	58.5
Michigan.....	4,592	2,042	4,267	1,899	61.1	326	143	7.1	7.2	7.0	75.6	56.5
Wisconsin.....	2,611	1,197	2,497	1,144	68.1	114	53	4.4	4.3	4.4	79.8	63.1
<b>West North Central...</b>	<b>9,259</b>	<b>4,235</b>	<b>8,843</b>	<b>4,043</b>	<b>66.1</b>	<b>416</b>	<b>192</b>	<b>4.5</b>	<b>4.5</b>	<b>4.5</b>	<b>78.6</b>	<b>60.6</b>
Minnesota.....	2,343	1,048	2,241	1,006	68.6	102	42	4.3	4.6	4.0	81.0	62.7
Iowa.....	1,513	694	1,448	668	67.2	65	26	4.3	4.8	3.7	78.4	62.6
Missouri.....	2,614	1,220	2,471	1,146	63.7	143	74	5.5	5.0	6.1	76.8	58.3
North Dakota.....	331	149	317	143	66.2	14	7	4.3	4.2	4.5	78.1	60.8
South Dakota.....	361	166	346	158	66.7	15	7	4.2	3.9	4.5	78.1	61.7
Nebraska.....	812	378	787	365	65.9	25	12	3.1	2.9	3.3	77.2	59.8
Kansas.....	1,284	579	1,233	556	66.5	52	23	4.0	4.0	4.0	79.3	60.1
<b>South...</b>	<b>41,749</b>	<b>19,004</b>	<b>39,377</b>	<b>17,840</b>	<b>61.9</b>	<b>2,373</b>	<b>1,164</b>	<b>5.7</b>	<b>5.3</b>	<b>6.1</b>	<b>75.4</b>	<b>56.7</b>
<b>South Atlantic...</b>	<b>21,589</b>	<b>9,977</b>	<b>20,555</b>	<b>9,449</b>	<b>63.1</b>	<b>1,034</b>	<b>528</b>	<b>4.8</b>	<b>4.4</b>	<b>5.3</b>	<b>75.3</b>	<b>58.1</b>
Delaware.....	362	173	349	167	68.6	13	7	3.5	3.2	3.8	79.4	63.9
Maryland.....	2,523	1,181	2,430	1,135	68.3	93	46	3.7	3.5	3.9	79.7	63.1
District of Columbia.....	315	157	299	149	65.8	16	8	5.0	5.1	4.9	75.3	64.2
Virginia.....	3,145	1,466	3,023	1,398	66.5	123	68	3.9	3.3	4.6	77.9	61.3
West Virginia.....	767	325	701	298	49.0	66	27	8.6	8.8	8.2	65.5	42.9
North Carolina.....	3,391	1,556	3,272	1,497	66.3	119	59	3.5	3.2	3.8	77.7	60.4
South Carolina.....	1,695	777	1,615	736	62.9	80	40	4.7	4.3	5.2	76.6	58.8
Georgia.....	3,195	1,481	3,018	1,385	64.2	177	96	5.5	4.7	6.5	77.0	59.8
Florida.....	6,193	2,860	5,845	2,682	59.1	348	178	5.6	5.1	6.2	71.3	54.9
<b>East South Central...</b>	<b>7,184</b>	<b>3,258</b>	<b>6,730</b>	<b>3,030</b>	<b>58.4</b>	<b>454</b>	<b>228</b>	<b>6.3</b>	<b>5.8</b>	<b>7.0</b>	<b>73.1</b>	<b>53.0</b>
Kentucky.....	1,742	789	1,634	741	58.4	108	49	6.2	6.2	6.2	73.4	52.7
Tennessee.....	2,368	1,085	2,247	1,025	59.9	121	60	5.1	4.8	5.5	73.2	54.2
Alabama.....	1,907	850	1,773	780	57.7	134	70	7.0	6.1	8.2	73.4	52.0
Mississippi.....	1,166	533	1,076	485	56.8	91	49	7.8	6.6	9.1	71.8	52.7
<b>West South Central...</b>	<b>12,976</b>	<b>5,769</b>	<b>12,092</b>	<b>5,361</b>	<b>61.9</b>	<b>884</b>	<b>408</b>	<b>6.8</b>	<b>6.6</b>	<b>7.1</b>	<b>77.1</b>	<b>56.6</b>
Arkansas.....	1,135	520	1,053	480	58.8	82	40	7.2	6.9	7.6	71.3	56.0
Louisiana.....	1,900	820	1,749	754	55.4	151	66	7.9	7.8	8.1	72.7	49.1
Oklahoma.....	1,523	692	1,438	654	60.3	85	38	5.6	5.6	5.6	73.0	55.4
Texas.....	8,427	3,740	7,859	3,476	64.3	567	264	6.7	6.5	7.1	79.9	58.9
<b>West...</b>	<b>25,843</b>	<b>11,510</b>	<b>24,476</b>	<b>10,898</b>	<b>64.2</b>	<b>1,367</b>	<b>612</b>	<b>5.3</b>	<b>5.3</b>	<b>5.3</b>	<b>77.5</b>	<b>58.7</b>
<b>Mountain...</b>	<b>6,822</b>	<b>2,987</b>	<b>6,258</b>	<b>2,826</b>	<b>63.9</b>	<b>354</b>	<b>161</b>	<b>5.5</b>	<b>5.6</b>	<b>5.4</b>	<b>77.1</b>	<b>58.9</b>
Montana.....	405	182	381	172	63.9	24	10	5.9	6.0	5.7	76.7	59.6
Idaho.....	489	216	464	205	63.9	25	11	5.1	5.1	5.2	76.9	58.2
Wyoming.....	239	105	224	98	65.0	15	6	6.3	6.6	5.9	79.2	60.0
Colorado.....	1,695	800	1,597	750	64.9	98	50	5.8	5.4	6.2	77.7	61.1
New Mexico.....	698	313	651	295	59.4	46	18	6.7	7.4	5.7	73.8	54.4
Arizona.....	1,707	761	1,617	722	61.8	89	39	5.2	5.3	5.1	74.8	56.2
Utah.....	789	347	752	330	67.8	37	17	4.6	4.3	5.0	81.3	61.2
Nevada.....	602	263	572	254	68.0	30	10	5.0	6.1	3.6	80.4	62.7
<b>Pacific...</b>	<b>19,221</b>	<b>8,523</b>	<b>18,218</b>	<b>8,072</b>	<b>64.3</b>	<b>1,003</b>	<b>450</b>	<b>5.2</b>	<b>5.2</b>	<b>5.3</b>	<b>77.6</b>	<b>58.6</b>
Washington.....	2,451	1,115	2,300	1,042	64.7	151	74	6.2	5.8	6.6	76.9	61.4
Oregon.....	1,475	658	1,391	621	64.4	84	37	5.7	5.8	5.6	77.0	59.9
California.....	14,518	6,380	13,780	6,054	64.2	737	326	5.1	5.1	5.1	77.9	57.9
Alaska.....	253	115	236	109	67.4	17	7	6.7	7.4	5.8	79.9	64.8
Hawaii.....	525	254	511	248	64.7	13	6	2.6	2.6	2.5	74.1	59.9

<sup>1</sup> Civilian employment as a percent of civilian noninstitutional population.

<sup>2</sup> Percent unemployed of the civilian labor force.

<sup>3</sup> Percent of civilian noninstitutional population of each specified group in the civilian labor force.

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1989*.

**No. 637. Civilian Labor Force Status, by Selected Metropolitan Area: 1989**

[In thousands, except rate. For the civilian noninstitutional population 16 years old and over. Annual averages of monthly figures. Except as noted, data are derived from the Local Area Unemployment Statistics Program. For composition of metropolitan areas, see Appendix III]

METROPOLITAN AREAS RANKED BY LABOR FORCE SIZE, 1989	Em- ployed	UNEMPLOYED		METROPOLITAN AREAS RANKED BY LABOR FORCE SIZE, 1989	Em- ployed	UNEMPLOYED	
		Total	Rate <sup>1</sup>			Total	Rate <sup>1</sup>
<b>U.S. total</b> . . . . .	<b>117,342</b>	<b>6,528</b>	<b>5.3</b>	Denver, CO PMSA . . . . .	824.1	46.7	5.4
Los Angeles-Long Beach, CA PMSA <sup>2</sup> . . . . .	4,034.3	196.8	4.7	Kansas City, MO-Kansas City, KS, MSA . . . . .	808.1	41.5	4.9
New York, NY PMSA . . . . .	3,760.5	214.9	5.4	San Jose, CA PMSA . . . . .	814.5	32.3	3.8
Chicago, IL MSA . . . . .	3,115.5	182.8	5.5	Cincinnati, OH-KY-IN PMSA . . . . .	745.4	34.9	4.5
Philadelphia, PA-NJ PMSA . . . . .	2,335.9	92.4	3.8	Milwaukee, WI PMSA . . . . .	744.2	29.6	3.8
Washington, DC-MD-VA MSA . . . . .	2,156.6	59.5	2.7	Sacramento, CA MSA . . . . .	695.4	36.0	4.9
Detroit, MI PMSA . . . . .	2,039.2	155.0	7.1	Columbus, OH MSA . . . . .	695.6	34.7	4.8
Houston, TX PMSA . . . . .	1,579.2	98.7	5.9	Fort Worth-Arlington, TX PMSA . . . . .	683.3	39.9	5.5
Boston, MA PMSA . . . . .	1,513.7	53.3	3.4	Bergen-Passaic, NJ PMSA . . . . .	683.4	26.6	3.7
Atlanta, GA MSA . . . . .	1,435.2	77.3	5.1	Indianapolis, IN MSA . . . . .	667.7	27.5	3.9
Dallas, TX PMSA . . . . .	1,368.0	79.0	5.5	Portland, OR PMSA . . . . .	644.8	30.2	4.5
Nassau-Suffolk, NY PMSA . . . . .	1,375.8	58.4	4.1	Fort Lauderdale-Hollywood-Pompano Beach, FL PMSA . . . . .	615.8	33.0	5.1
Anaheim-Santa Ana, CA PMSA . . . . .	1,379.0	41.5	2.9	Charlotte-Gastonia-Rock Hill, NC-SC MSA . . . . .	626.3	20.7	3.2
Minneapolis-St. Paul, MN-WI MSA . . . . .	1,345.0	52.5	3.8	Norfolk-Virginia Beach-Newport News, VA MSA . . . . .	591.3	28.7	4.6
St. Louis, MO-IL MSA <sup>3</sup> . . . . .	1,203.4	70.3	5.5	San Antonio, TX MSA . . . . .	570.0	45.0	7.3
Baltimore, MD MSA . . . . .	1,156.6	48.3	4.0	Orlando, FL MSA . . . . .	576.8	30.8	5.1
San Diego, CA MSA . . . . .	1,127.2	46.2	3.9	New Orleans, LA MSA . . . . .	552.6	41.9	7.1
Oakland, CA PMSA . . . . .	1,071.0	46.9	4.2	Middlesex-Somerset-Hunterdon, NJ PMSA . . . . .	552.5	16.4	2.9
Seattle, WA PMSA . . . . .	1,052.1	50.6	4.6	Nashville, TN MSA . . . . .	509.4	20.0	3.8
Phoenix, AZ MSA . . . . .	1,015.3	45.4	4.3	Greensboro-Winston-Salem-High Point, NC MSA . . . . .	504.2	17.1	3.3
Riverside-San Bernadino, CA PMSA . . . . .	960.1	58.5	5.7	Louisville, KY-IN MSA . . . . .	491.1	28.8	5.5
Tampa-St. Petersburg-Clearwater, FL MSA . . . . .	946.4	49.8	5.0	Salt Lake City-Ogden, UT MSA . . . . .	491.3	22.9	4.5
Pittsburgh, PA PMSA . . . . .	936.7	44.8	4.6	Rochester, NY MSA . . . . .	491.9	21.5	4.2
Newark, NJ PMSA . . . . .	917.8	41.0	4.3	Oklahoma City, OK MSA . . . . .	477.6	23.2	4.6
Cleveland, OH PMSA . . . . .	905.7	46.0	4.8				
Miami-Hialeah, FL PMSA . . . . .	884.4	60.2	6.4				
San Francisco, CA PMSA . . . . .	860.0	29.2	3.3				

<sup>1</sup> Percent unemployed of the civilian labor force. <sup>2</sup> Derived from the Current Population Survey. <sup>3</sup> Excludes part of Sullivan City in Crawford County, Missouri.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

**No. 638. Civilian Labor Force—Percent Distribution, by Sex and Age: 1960 to 1990**

[For civilian noninstitutional population 16 years old and over. Annual averages of monthly figures. Based on Current Population Survey; see text, section 1 and Appendix III. See *Historical Statistics, Colonial Times to 1970*, series D 29-41, for similar but not exactly comparable data]

YEAR AND SEX	Civilian labor force (1,000)	PERCENT DISTRIBUTION						
		16-19 years	20-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65 yr. and over
<b>Total:</b> 1960 . . . . .	69,628	7.0	9.6	20.7	23.4	21.3	13.5	4.6
1970 . . . . .	82,771	8.8	12.8	20.6	19.9	20.5	13.6	3.9
1975 . . . . .	93,775	9.5	14.7	24.4	18.0	18.2	12.1	3.2
1980 . . . . .	106,940	8.8	14.9	27.3	19.1	15.8	11.2	2.9
1984 . . . . .	113,544	7.0	14.1	28.8	22.0	15.0	10.5	2.6
1985 . . . . .	115,461	6.8	13.6	29.1	22.6	15.0	10.4	2.5
1986 . . . . .	117,834	6.7	13.1	29.4	23.1	15.1	10.1	2.6
1987 . . . . .	119,865	6.7	12.5	29.2	23.7	15.2	9.9	2.6
1988 . . . . .	121,669	6.6	11.9	29.2	24.2	15.7	9.7	2.7
1989 . . . . .	123,869	6.4	11.4	29.0	24.7	16.1	9.6	2.8
1990 . . . . .	124,787	5.9	11.1	28.7	25.5	16.4	9.5	2.8
<b>Male:</b> 1960 . . . . .	45,388	6.0	8.9	22.1	23.6	20.6	13.8	4.9
1970 . . . . .	51,228	7.8	11.2	22.1	20.4	20.3	13.9	4.2
1975 . . . . .	56,299	8.5	13.4	25.2	18.5	18.5	12.5	3.4
1980 . . . . .	61,453	8.1	14.0	27.6	19.3	16.1	11.8	3.7
1984 . . . . .	63,835	6.5	13.5	29.0	22.0	15.3	11.0	2.7
1985 . . . . .	64,411	6.4	12.9	29.2	22.5	15.3	11.0	2.7
1986 . . . . .	65,422	6.3	12.5	29.6	23.0	15.3	10.6	2.8
1987 . . . . .	66,207	6.2	11.8	29.7	23.5	15.4	10.5	2.9
1988 . . . . .	66,927	6.2	11.3	29.5	24.0	15.8	10.2	2.9
1989 . . . . .	67,840	6.1	11.0	29.3	24.5	16.1	10.0	3.0
1990 . . . . .	68,234	5.7	10.7	29.0	25.3	16.4	9.9	3.0
<b>Female:</b> 1960 . . . . .	23,240	8.8	11.1	17.8	22.8	22.7	12.8	3.9
1970 . . . . .	31,543	10.3	15.5	16.1	16.9	20.7	13.2	3.3
1975 . . . . .	37,475	10.8	16.5	23.1	17.4	17.8	11.5	2.8
1980 . . . . .	45,487	9.6	16.1	26.9	19.0	15.4	10.4	2.6
1984 . . . . .	49,709	7.7	15.0	28.6	21.9	14.5	9.9	2.4
1985 . . . . .	51,050	7.4	14.6	28.9	22.7	14.6	9.7	2.3
1986 . . . . .	52,413	7.3	13.9	29.0	23.3	14.8	9.4	2.3
1987 . . . . .	53,658	7.2	13.3	29.0	24.0	15.0	9.2	2.3
1988 . . . . .	54,742	7.1	12.6	28.8	24.4	15.6	9.1	2.4
1989 . . . . .	56,030	6.8	12.0	28.5	25.0	16.1	9.1	2.6
1990 . . . . .	56,554	6.3	11.6	28.3	25.8	16.5	9.0	2.7

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.



**No. 639. Civilian Labor Force—Years of School Completed, by Sex and Race: 1989**

(In thousands. Annual averages of monthly figures. For civilian noninstitutional population 25 years and over. Based on Current Population Survey; see text, section 1 and Appendix III)

EMPLOYMENT STATUS, SEX, AND RACE	Population, 25 years and over (1,000)	ELEMENTARY SCHOOL		HIGH SCHOOL		COLLEGE		
		Less than 5 years	5-8 years	1-3 years	4 years	1-3 years	4 years	5 years or more
<b>Total <sup>1</sup></b>	<b>154,144</b>	<b>3,845</b>	<b>13,914</b>	<b>17,420</b>	<b>59,208</b>	<b>27,384</b>	<b>18,897</b>	<b>13,676</b>
Civilian labor force	101,736	1,119	4,586	8,849	39,934	20,662	15,149	11,437
Employed	97,621	1,042	4,257	8,145	38,171	19,991	14,786	11,229
Unemployed	4,115	77	329	704	1,763	671	363	208
Not in labor force	52,408	2,526	9,327	8,571	19,274	6,722	3,748	2,239
Male, total	72,876	1,862	6,594	7,909	25,774	12,885	9,823	8,030
Civilian labor force	56,246	752	3,020	5,175	20,638	10,905	8,673	7,083
Employed	54,039	704	2,815	4,787	19,722	10,569	8,477	6,965
Unemployed	2,207	48	205	388	916	336	196	118
Not in labor force	16,631	1,110	3,574	2,734	5,135	1,980	1,151	947
Female, total	81,268	1,783	7,320	9,511	33,434	14,500	9,074	5,646
Civilian labor force	45,490	367	1,567	3,674	19,295	9,757	6,476	4,354
Employed	43,582	338	1,442	3,357	18,449	9,422	6,309	4,264
Unemployed	1,908	29	124	317	847	335	167	89
Not in labor force	35,778	1,416	5,753	5,837	14,139	4,742	2,598	1,292
White, total	132,930	2,583	11,564	14,210	51,817	23,783	16,711	12,262
Civilian labor force	87,606	905	3,793	7,111	34,502	17,752	13,289	10,254
Employed	84,554	843	3,542	6,637	33,197	17,259	12,999	10,077
Unemployed	3,052	61	251	474	1,305	493	290	177
Not in labor force	45,324	1,678	7,771	7,099	17,315	6,031	3,421	2,008
Black, total	16,387	770	1,906	2,847	6,045	2,827	1,232	739
Civilian labor force	10,783	145	598	1,528	4,504	2,310	1,083	616
Employed	9,861	132	534	1,317	4,094	2,153	1,034	597
Unemployed	923	13	63	211	410	157	49	19
Not in labor force	5,583	624	1,309	1,319	1,541	517	149	123
Hispanic <sup>2</sup> , total	10,442	1,239	2,376	1,514	2,973	1,357	596	388
Civilian labor force	7,160	613	1,372	981	2,226	1,124	510	335
Employed	6,700	565	1,259	890	2,093	1,078	490	324
Unemployed	460	48	112	91	132	46	19	11
Not in labor force	3,282	626	1,004	533	747	234	86	54

<sup>1</sup> Includes other races, not shown separately. <sup>2</sup> Persons of Hispanic origin may be of any race.

Source: U.S. Bureau of Labor Statistics, unpublished data.

**No. 640. School Enrollment and Labor Force Status of Civilians 16 to 24 Years Old, by Selected Characteristics: 1980 and 1989**

(In thousands, except percent. As of October. Civilian noninstitutional population. Based on Current Population Survey; see text, section 1 and Appendix III)

CHARACTERISTIC	POPULATION		CIVILIAN LABOR FORCE			EMPLOYED		UNEMPLOYED		
	1980	1989	1980, total	1989		1980	1989	1980, total	1989	
				Total	Per- cent <sup>1</sup>				Total	Rate <sup>2</sup>
<b>Total, 16 to 24 years <sup>3</sup></b>	<b>37,103</b>	<b>31,989</b>	<b>24,918</b>	<b>21,452</b>	<b>67.1</b>	<b>21,454</b>	<b>19,206</b>	<b>3,464</b>	<b>2,246</b>	<b>10.5</b>
Enrolled in school <sup>3</sup>	15,713	15,207	7,454	7,685	50.5	6,433	6,937	1,021	748	9.7
16 to 19 years	11,126	10,370	4,836	4,740	45.7	4,029	4,172	807	568	12.0
20 to 24 years	4,587	4,836	2,618	2,945	60.9	2,404	2,766	214	179	6.1
Male	7,997	7,614	3,825	3,760	49.4	3,259	3,322	566	439	11.7
Female	7,716	7,593	3,629	3,925	51.7	3,174	3,616	455	309	7.9
College level	7,664	7,991	3,996	4,493	56.2	3,832	4,211	364	282	6.3
Full-time	6,396	6,736	2,854	3,353	49.8	2,554	3,117	300	236	7.0
White	13,242	12,443	6,687	6,627	53.3	5,889	6,082	798	545	8.2
Below college	6,566	5,662	3,095	2,698	47.7	2,579	2,354	516	344	12.7
College level	6,678	6,781	3,582	3,929	57.9	3,310	3,728	282	201	5.1
Black	2,028	2,117	595	769	36.3	406	596	189	173	22.5
Below college	1,282	1,250	284	379	30.3	174	275	120	104	27.5
College level	747	867	300	390	45.0	230	321	70	69	17.8
Not enrolled <sup>3</sup>	21,390	16,783	17,464	13,767	82.0	15,021	12,269	2,443	1,498	10.9
White	18,103	13,766	15,121	11,505	83.6	13,318	10,454	1,803	1,051	9.1
Black	2,864	2,550	2,055	1,906	74.7	1,451	1,492	604	414	21.7

<sup>1</sup> Percent of civilian noninstitutional population. <sup>2</sup> Percent of civilian labor force in each category. <sup>3</sup> Includes other races, not shown separately.

Source: U.S. Bureau of Labor Statistics, Bulletin 2192; News, USDL 90-326, June 26, 1990 and unpublished data.

**No. 641. Labor Force Participation Rates, by Marital Status, Sex, and Age: 1960 to 1989**

[Annual averages of monthly figures. See table 636 for definition of participation rate. Based on Current Population Survey; see text, section 1 and Appendix III]

MARITAL STATUS AND YEAR	MALE PARTICIPATION RATE							FEMALE PARTICIPATION RATE						
	Total	16-19 years	20-24 years	25-34 years	35-44 years	45-64 years	65 and over	Total	16-19 years	20-24 years	25-34 years	35-44 years	45-64 years	65 and over
Single:														
1960...	69.8	42.6	80.3	91.5	88.6	80.1	31.2	58.6	30.2	77.2	83.4	82.9	79.8	24.3
1970...	65.5	54.6	73.8	87.9	86.2	75.7	25.2	56.8	44.7	73.0	81.4	78.6	73.0	19.7
1975...	68.6	57.9	77.9	86.7	83.2	69.9	21.0	59.8	49.6	72.5	80.8	78.6	68.3	15.8
1980...	72.6	59.9	81.3	89.2	82.2	66.9	16.8	64.4	53.6	75.2	83.3	76.9	65.6	13.9
1983...	72.5	55.6	80.9	88.4	83.7	66.5	19.2	65.0	51.0	74.8	83.1	79.8	64.2	12.5
1984...	73.2	55.4	81.4	88.7	84.1	66.2	17.4	65.6	52.0	74.6	82.6	80.7	64.9	10.5
1985...	73.8	56.3	81.5	89.4	84.6	65.5	15.6	66.6	52.3	76.3	82.4	80.8	67.9	9.8
1986...	74.2	55.8	82.6	89.4	85.3	63.9	15.5	67.2	53.1	76.9	82.3	80.9	65.7	9.9
1987...	74.2	55.6	82.1	89.7	84.9	63.9	17.1	67.4	53.5	76.9	82.6	81.3	62.8	9.6
1988...	74.7	56.5	82.1	89.6	84.5	62.7	15.8	67.7	53.7	76.5	82.8	81.9	65.7	10.4
1989...	75.5	57.4	82.5	90.0	84.6	64.6	18.2	68.0	54.1	76.4	82.2	81.6	66.3	11.4
Married:														
1960...	89.2	91.5	97.1	98.8	98.6	93.7	36.6	31.9	27.2	31.7	28.8	37.2	36.0	6.7
1970...	86.1	92.3	94.7	98.0	98.1	91.2	29.9	40.5	37.8	47.9	38.8	46.8	44.0	7.3
1975...	83.0	92.9	95.3	97.4	97.1	86.8	23.3	44.3	46.2	57.0	48.4	52.0	43.8	7.0
1980...	81.0	91.3	96.9	97.5	97.2	84.3	20.5	49.8	49.3	61.4	58.8	61.8	46.9	7.3
1983...	79.4	87.8	96.2	97.0	97.0	82.4	18.6	51.8	47.3	63.2	63.1	64.8	47.9	7.3
1984...	79.2	89.3	96.2	97.1	97.1	82.1	17.3	52.8	50.2	64.2	64.3	66.2	48.6	6.8
1985...	78.7	91.0	95.6	97.4	96.8	81.7	16.8	53.8	49.6	65.7	65.8	68.1	49.4	6.6
1986...	78.6	90.2	96.1	97.2	96.6	81.6	17.0	54.9	50.3	65.5	66.8	69.5	50.6	7.2
1987...	78.7	88.5	96.1	97.3	96.6	81.8	17.5	55.9	51.7	67.1	67.7	71.3	51.8	7.2
1988...	78.6	91.1	95.9	97.1	96.7	82.1	17.8	56.7	51.8	66.8	68.1	72.3	53.5	7.6
1989...	78.5	93.7	95.9	97.2	96.8	82.4	17.8	57.8	51.9	65.7	69.0	73.5	55.5	8.1
Other:														
1960...	63.1	(B)	96.9	95.2	94.4	83.2	22.7	41.6	43.5	58.0	63.1	70.0	60.0	11.4
1970...	60.6	(B)	90.4	93.7	91.1	78.5	19.3	40.3	48.6	60.3	64.6	68.8	61.9	10.0
1975...	63.2	(B)	88.8	92.4	89.4	73.4	15.4	40.1	47.6	65.3	68.6	69.2	59.0	8.3
1980...	67.4	(B)	92.6	94.1	91.9	73.3	13.7	43.6	50.0	68.4	76.5	77.1	60.2	8.2
1983...	68.5	(B)	92.4	92.7	92.1	73.3	12.7	44.4	52.8	67.1	76.2	79.5	60.0	7.8
1984...	68.1	(B)	92.6	93.5	92.6	72.3	11.7	44.7	46.2	69.2	76.3	80.9	60.3	7.7
1985...	68.7	(B)	95.1	93.7	91.8	72.8	11.4	45.1	51.9	66.2	76.9	81.6	61.0	7.5
1986...	68.2	(B)	94.3	93.9	91.3	72.4	11.7	45.6	52.8	69.7	77.1	82.6	61.9	7.3
1987...	67.3	(B)	92.2	93.9	90.9	72.5	11.6	45.7	46.9	67.4	77.6	82.7	62.7	7.3
1988...	67.2	(B)	92.5	93.4	90.8	72.5	11.7	46.2	54.2	66.2	77.2	82.1	63.6	7.7
1989...	67.9	(B)	91.1	93.6	90.9	74.2	11.7	47.0	48.2	65.8	78.3	82.2	64.7	8.3

B For 1960, percentage not shown where base is less than 50,000; beginning 1970, 35,000. <sup>1</sup> Spouse present.

<sup>2</sup> Widowed, divorced, and married (spouse absent).

Source: U.S. Bureau of Labor Statistics, Bulletin 2217, and unpublished data.

**No. 642. Marital Status of Women in the Civilian Labor Force: 1960 to 1989**

[Annual averages of monthly figures. For civilian noninstitutional population 16 years old and over. Based on Current Population Survey; see text, section 1 and Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series D 49-62]

YEAR	FEMALE LABOR FORCE (1,000)				PERCENT DISTRIBUTION, FEMALE LABOR FORCE			FEMALE LABOR FORCE AS PERCENT OF FEMALE POPULATION			
	Total	Single	Married <sup>1</sup>	Other <sup>2</sup>	Single	Married <sup>1</sup>	Other <sup>2</sup>	Total	Single	Married <sup>1</sup>	Other <sup>2</sup>
1960...	23,240	5,410	12,893	4,937	23.3	55.5	21.2	37.7	58.6	31.9	41.6
1965...	26,200	5,976	14,829	5,396	22.8	56.6	20.6	39.3	54.5	34.9	40.7
1970...	31,543	7,265	18,475	5,804	23.0	58.6	18.4	43.3	56.8	40.5	40.3
1971...	32,202	7,460	18,764	5,976	23.2	58.3	18.6	43.4	56.4	40.6	40.3
1972...	33,479	7,889	19,352	6,239	23.6	57.8	18.6	43.9	57.5	41.2	40.0
1973...	34,804	8,272	20,172	6,361	23.8	58.0	18.3	44.7	58.6	42.3	39.7
1974...	36,211	8,671	20,869	6,672	23.9	57.6	18.4	45.7	59.5	43.3	40.2
1975...	37,475	9,125	21,484	6,866	24.3	57.3	18.3	46.3	59.8	44.3	40.1
1976...	38,983	9,689	22,139	7,156	24.9	56.8	18.4	47.3	61.0	45.3	40.5
1977...	40,613	10,311	22,776	7,526	25.4	56.1	18.5	48.4	62.1	46.4	41.5
1978...	42,631	11,067	23,539	8,025	26.0	55.2	18.8	50.0	63.7	47.8	42.8
1979...	44,235	11,597	24,378	8,260	26.2	55.1	18.7	50.9	64.6	49.0	43.1
1980...	45,487	11,865	24,980	8,643	26.1	54.9	19.0	51.5	64.4	49.8	43.6
1981...	46,696	12,124	25,428	9,144	26.0	54.5	19.6	52.1	64.5	50.5	44.6
1982...	47,755	12,460	25,971	9,324	26.1	54.4	19.5	52.6	65.1	51.1	44.8
1983...	48,503	12,659	26,468	9,376	26.1	54.6	19.3	52.9	65.0	51.8	44.4
1984...	49,709	12,867	27,199	9,644	25.9	54.7	19.4	53.6	65.6	52.8	44.7
1985...	51,050	13,163	27,894	9,993	25.8	54.6	19.6	54.5	66.6	53.8	45.1
1986...	52,413	13,512	28,623	10,277	25.8	54.6	19.6	55.3	67.2	54.9	45.6
1987...	53,658	13,885	29,381	10,393	25.9	54.8	19.4	56.0	67.4	55.9	46.2
1988...	54,742	14,194	29,921	10,627	25.9	54.7	19.4	56.6	67.7	56.7	46.7
1989...	56,030	14,377	30,548	11,104	25.7	54.5	19.8	57.4	68.0	57.8	47.0

<sup>1</sup> Husband present. <sup>2</sup> Widowed, divorced, or separated.

Source: U.S. Bureau of Labor Statistics, Bulletin 2307, and unpublished data.

### No. 643. Married, Separated, and Divorced Women—Labor Force Status by Presence and Age of Children: 1960 to 1989

[As of March, except as indicated. For 1960, civilian noninstitutional persons 14 years old and over, thereafter 16 years old and over. Based on Current Population Survey; see text, section 1 and Appendix III]

ITEM	TOTAL			NO CHILDREN UNDER 18			CHILDREN 6-17 ONLY			CHILDREN UNDER 6		
	Married <sup>1</sup>	Separated	Divorced	Married <sup>1</sup>	Separated	Divorced	Married <sup>1</sup>	Separated	Divorced	Married <sup>1</sup>	Separated	Divorced
<b>IN LABOR FORCE (mil.)</b>												
1960	12.3	(NA)	(NA)	5.7	(NA)	(NA)	4.1	(NA)	(NA)	2.5	(NA)	(NA)
1970	18.4	1.4	1.9	8.2	0.7	1.1	6.3	0.4	0.6	3.9	0.3	0.3
1980	24.9	1.9	4.4	11.2	0.9	2.3	8.4	0.6	1.6	5.2	0.4	0.5
1983	26.2	1.9	5.2	12.1	0.8	2.8	8.3	0.6	1.8	5.9	0.5	0.6
1984	26.9	2.0	5.5	12.3	0.9	3.0	8.3	0.7	1.9	6.2	0.4	0.6
1985	27.7	2.0	5.9	12.8	1.0	3.3	8.5	0.7	2.0	6.4	0.4	0.6
1986	28.2	2.1	6.2	12.9	1.0	3.5	8.8	0.6	2.0	6.6	0.5	0.7
1987	29.2	2.1	6.1	13.2	1.0	3.4	9.0	0.7	2.0	7.0	0.4	0.7
1988	29.8	2.2	6.2	13.5	1.1	3.7	9.3	0.7	1.9	7.0	0.4	0.6
1989 <sup>2</sup>	30.5	2.2	6.6	14.1	1.0	4.0	9.2	0.7	1.9	7.2	0.5	0.7
<b>PARTICIPATION RATE<sup>3</sup></b>												
1960	30.5	(NA)	(NA)	34.7	(NA)	(NA)	39.0	(NA)	(NA)	18.6	(NA)	(NA)
1970	40.8	52.1	71.5	42.2	52.3	67.7	49.2	60.6	82.4	30.3	45.4	63.3
1980	50.1	59.4	74.5	46.0	58.9	71.4	61.7	66.3	82.3	45.1	52.2	68.3
1983	51.8	58.7	74.6	46.6	55.6	71.7	63.8	68.7	82.2	49.9	53.8	68.7
1984	52.8	60.9	74.3	47.2	59.1	70.5	65.4	70.1	84.1	51.8	53.9	67.7
1985	54.2	61.3	75.0	48.2	60.0	72.1	67.8	70.9	83.4	53.4	53.2	67.5
1986	54.6	62.2	76.0	48.2	60.4	72.1	68.4	70.6	84.7	53.8	57.4	73.8
1987	55.8	61.4	75.4	48.4	57.9	71.9	70.6	72.6	84.5	56.8	55.1	70.5
1988	56.5	60.9	75.7	48.9	60.1	73.0	72.5	69.3	83.9	57.1	53.0	70.1
1989 <sup>2</sup>	57.8	64.3	75.5	50.5	62.3	72.5	73.2	73.5	85.0	58.4	57.4	70.5
<b>EMPLOYMENT (mil.)</b>												
1960	11.6	(NA)	(NA)	5.4	(NA)	(NA)	3.9	(NA)	(NA)	2.3	(NA)	(NA)
1970	17.5	1.3	1.8	7.9	0.7	1.0	6.0	0.4	0.5	3.6	0.3	0.2
1980	23.6	1.7	4.2	10.7	0.8	2.2	8.1	0.6	1.5	4.8	0.4	0.5
1983	24.3	1.5	4.7	11.4	0.7	2.6	7.7	0.5	1.5	5.2	0.3	0.5
1984	25.3	1.7	5.0	11.7	0.8	2.8	7.9	0.6	1.7	5.7	0.3	0.5
1985	26.1	1.8	5.4	12.2	0.9	3.1	8.1	0.6	1.8	5.9	0.3	0.5
1986	26.7	1.9	5.7	12.3	0.9	3.3	8.3	0.5	1.9	6.1	0.4	0.6
1987	27.8	1.9	5.7	12.7	0.9	3.2	8.6	0.6	1.9	6.5	0.3	0.6
1988	28.6	2.0	5.9	13.1	1.0	3.5	8.9	0.6	1.8	6.5	0.3	0.5
1989 <sup>2</sup>	29.4	2.0	6.3	13.7	1.0	3.9	8.9	0.6	1.8	6.8	0.4	0.6
<b>UNEMPLOYMENT RATE<sup>4</sup></b>												
1960	5.4	(NA)	(NA)	4.8	(NA)	(NA)	4.9	(NA)	(NA)	7.8	(NA)	(NA)
1970	4.8	6.8	5.4	3.3	4.2	4.7	4.8	5.9	6.5	7.9	13.3	5.2
1980	5.3	9.9	6.4	4.5	8.3	4.5	4.4	10.6	6.7	8.3	12.3	13.6
1983	7.2	19.1	10.2	5.7	13.8	7.1	6.7	20.0	12.8	10.9	27.6	16.8
1984	5.7	13.9	8.6	4.6	9.0	6.6	5.0	13.1	9.7	8.9	25.0	14.3
1985	5.7	13.7	7.7	4.7	9.0	6.2	5.5	14.6	9.0	8.0	22.9	12.1
1986	5.4	10.8	7.5	4.6	7.2	6.1	4.8	11.7	8.2	7.8	16.5	12.9
1987	4.5	11.8	6.8	3.5	8.1	5.9	4.9	14.8	6.1	5.9	15.7	13.8
1988	3.9	9.1	5.2	2.9	7.0	4.5	3.8	8.7	5.3	6.1	15.0	9.4
1989 <sup>2</sup>	3.7	9.9	5.1	3.1	7.1	4.2	3.6	10.7	5.6	5.3	14.7	9.5

NA Not available. <sup>1</sup> Husband present. <sup>2</sup> Not strictly comparable with data for earlier years. Annual averages of monthly figures. <sup>3</sup> Percent of women in each specific category in the labor force. <sup>4</sup> Unemployed as a percent of civilian labor force in specified group.

Source: U.S. Bureau of Labor Statistics, Bulletin 2307, and unpublished data.

### No. 644. Labor Force Participation Rates for Wives, Husband Present, by Age of Own Youngest Child: 1975 to 1989

[As of March, except as indicated. For civilian noninstitutional population, 16 years old and over. For definition of participation rate, see table 643. Based on Current Population Survey; see text, section 1 and Appendix III]

PRESENCE AND AGE OF CHILD	TOTAL				WHITE				BLACK			
	1975	1980	1985	1989 <sup>1</sup>	1975	1980	1985	1989 <sup>1</sup>	1975	1980	1985	1989 <sup>1</sup>
<b>Wives, total</b>	<b>44.4</b>	<b>50.1</b>	<b>54.2</b>	<b>57.8</b>	<b>43.6</b>	<b>49.3</b>	<b>53.3</b>	<b>57.0</b>	<b>54.1</b>	<b>58.0</b>	<b>63.8</b>	<b>65.5</b>
No children under 18	43.8	46.0	48.2	50.5	43.6	45.6	47.5	50.0	47.6	50.9	55.2	54.7
With children under 18	44.9	54.1	60.8	65.8	43.8	53.1	59.9	65.2	58.4	65.3	71.7	75.4
Under 6, total	36.7	45.1	53.4	58.4	34.7	43.4	52.1	57.5	54.9	62.3	69.6	71.5
Under 3	32.7	41.3	50.5	55.2	30.7	39.8	49.4	54.4	50.1	55.9	66.2	68.8
1 year or under	30.8	39.0	49.4	53.6	29.2	37.7	48.6	53.0	50.0	52.9	63.7	66.4
2 years	37.1	48.1	54.0	59.2	35.1	46.1	52.7	57.9	56.4	71.0	69.9	75.1
3 to 5 years	42.2	51.6	58.4	63.5	40.1	49.5	56.6	62.5	61.2	72.7	73.8	75.6
3 years	41.2	51.5	55.1	62.4	39.0	48.4	52.7	61.6	62.7	73.4	72.3	73.0
4 years	41.2	51.4	59.7	64.4	39.7	49.8	58.4	63.2	64.9	66.4	70.6	78.3
5 years	44.4	52.4	62.1	63.8	43.8	50.4	59.9	62.8	56.3	77.8	79.1	76.0
6 to 13 years	51.8	62.4	68.2	72.6	50.7	61.4	67.7	71.8	65.7	72.4	73.3	81.4
14 to 17 years	53.5	60.4	67.0	74.4	53.4	60.5	66.6	74.5	52.3	58.5	74.4	73.2

<sup>1</sup> Not strictly comparable with data for earlier years. Annual averages of monthly figures.

Source: U.S. Bureau of Labor Statistics, Bulletin 2340, and unpublished data.

**No. 645. Civilian Labor Force—Employment Status by Sex, Race, and Age: 1989**

(For civilian noninstitutional population 16 years old and over. Annual averages of monthly figures. Based on Current Population Survey; see text, section 1 and Appendix III)

AGE AND RACE	CIVILIAN LABOR FORCE		MALE (1,000)			FEMALE (1,000)			PERCENT OF LABOR FORCE				
	Total (1,000)	Percent by age		Total	Em- ployed	Un- em- ployed	Total	Em- ployed	Un- em- ployed	Employed		Unemployed	
		Male	Fe- male							Male	Fe- male	Male	Fe- male
<b>All workers</b> <sup>1</sup>	<b>123,869</b>	<b>100.0</b>	<b>100.0</b>	<b>67,840</b>	<b>64,315</b>	<b>3,525</b>	<b>56,030</b>	<b>53,027</b>	<b>3,003</b>	<b>94.8</b>	<b>94.8</b>	<b>5.2</b>	<b>5.4</b>
16-19 years	7,954	6.1	6.8	4,136	3,477	658	3,818	3,282	536	84.1	86.0	15.9	14.0
20-24 years	14,180	11.0	12.0	7,458	6,799	660	6,721	6,163	558	91.2	91.7	8.8	8.3
25-34 years	35,896	29.3	28.5	19,905	18,952	953	15,990	15,093	897	95.2	94.4	4.8	5.6
35-44 years	30,601	24.5	25.0	16,822	16,002	619	13,980	13,440	540	96.3	96.1	3.7	3.9
45-54 years	19,916	16.1	16.1	10,919	10,569	351	8,997	8,711	286	96.8	96.8	3.2	3.2
55-64 years	11,877	10.0	9.1	6,783	6,548	234	5,095	4,950	144	96.5	97.2	3.5	2.8
65 years and over	3,446	3.0	2.6	2,017	1,968	49	1,429	1,388	41	97.6	97.1	2.4	2.9
<b>White</b>	<b>108,355</b>	<b>100.0</b>	<b>100.0</b>	<b>58,988</b>	<b>56,352</b>	<b>2,636</b>	<b>47,367</b>	<b>45,232</b>	<b>2,135</b>	<b>95.5</b>	<b>95.5</b>	<b>4.5</b>	<b>4.5</b>
16-19 years	6,809	6.0	6.9	3,546	3,060	487	3,262	2,886	376	86.3	88.5	13.7	11.5
20-24 years	11,940	10.7	11.9	6,316	5,839	476	5,625	5,245	380	92.4	93.2	7.5	6.8
25-34 years	30,388	29.0	28.1	17,077	16,383	694	13,311	12,708	603	95.9	95.5	4.1	4.5
35-44 years	26,312	24.6	24.9	14,516	14,046	470	11,796	11,395	401	96.8	96.6	3.2	3.4
45-54 years	17,278	16.3	16.2	9,815	9,335	280	7,663	7,440	223	97.1	97.1	2.9	2.9
55-64 years	10,533	10.3	9.4	6,082	5,891	191	4,451	4,332	120	96.9	97.3	3.1	2.7
65 years and over	3,094	3.1	2.7	1,835	1,787	38	1,259	1,227	32	97.9	97.5	2.1	2.5
<b>Black</b>	<b>13,497</b>	<b>100.0</b>	<b>100.0</b>	<b>8,701</b>	<b>8,928</b>	<b>773</b>	<b>6,796</b>	<b>6,025</b>	<b>772</b>	<b>88.5</b>	<b>88.7</b>	<b>11.5</b>	<b>11.4</b>
16-19 years	925	7.2	6.5	480	327	153	445	298	147	68.1	67.0	31.9	33.0
20-24 years	1,789	13.5	13.0	904	742	162	885	725	160	82.1	81.9	17.9	18.1
25-34 years	4,295	32.2	31.5	2,157	1,931	226	2,138	1,870	267	89.5	87.5	10.5	12.5
35-44 years	3,227	23.0	24.8	1,544	1,415	129	1,683	1,566	118	91.6	93.0	8.4	7.0
45-54 years	1,954	14.1	14.8	945	886	59	1,009	959	50	93.8	95.0	6.2	5.0
55-64 years	1,023	7.9	7.2	530	498	33	493	472	21	94.0	95.7	6.2	4.2
65 years and over	285	2.1	2.1	141	131	10	144	134	9	92.9	93.1	7.4	6.4
<b>Hispanic</b> <sup>2</sup>	<b>9,323</b>	<b>100.0</b>	<b>100.0</b>	<b>5,595</b>	<b>5,172</b>	<b>423</b>	<b>3,728</b>	<b>3,401</b>	<b>327</b>	<b>92.4</b>	<b>91.2</b>	<b>7.6</b>	<b>8.8</b>
16-19 years	680	7.1	7.5	400	319	81	280	229	51	79.8	81.8	20.2	18.2
20-24 years	1,483	16.2	15.4	909	821	88	574	504	70	90.3	87.8	9.7	12.2
25-34 years	3,118	33.9	32.7	1,899	1,787	113	1,219	1,114	105	94.1	91.4	5.9	8.6
35-44 years	2,092	21.8	23.4	1,221	1,152	69	871	816	55	94.3	93.7	5.7	6.3
45-54 years	1,205	12.9	13.0	719	676	43	486	453	33	94.0	93.2	6.0	6.7
55-64 years	625	6.7	6.7	375	350	25	251	239	11	93.3	95.2	6.6	4.5
65 years and over	120	1.3	1.3	71	67	4	49	46	2	94.4	93.9	5.6	4.7

<sup>1</sup> Includes other races not shown separately. <sup>2</sup> Persons of Hispanic origin may be of any race.Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.**No. 646. Employed Civilians and Weekly Hours by Selected Characteristics: 1970 to 1989**

(In thousands except as indicated. For civilian noninstitutional population 16 years old and over. Annual averages of monthly figures. Based on Current Population Survey; see text, section 1 and Appendix III)

AGE, SEX, AND MARITAL STATUS	1970	1980	1983	1984	1985	1986	1987	1988	1989
<b>Total employed</b>	<b>78,678</b>	<b>99,303</b>	<b>100,834</b>	<b>105,005</b>	<b>107,150</b>	<b>109,597</b>	<b>112,440</b>	<b>114,968</b>	<b>117,342</b>
<b>Age:</b>									
16-19 years	6,144	7,710	6,342	6,444	6,434	6,472	6,640	6,805	6,759
20-24 years	9,731	14,087	13,722	14,207	13,980	13,790	13,524	13,244	12,962
25-34 years	16,318	27,204	28,756	30,348	31,208	32,201	33,105	33,574	34,045
35-44 years	15,922	19,523	21,960	23,598	24,732	25,861	27,179	28,269	29,443
45-54 years	16,473	16,234	15,812	16,178	16,509	16,949	17,487	18,447	19,279
55-64 years	10,974	11,586	11,315	11,395	11,474	11,405	11,465	11,433	11,499
65 years and over	3,118	2,960	2,927	2,835	2,919	2,919	3,041	3,197	3,355
<b>Sex:</b>									
Male	48,990	57,186	56,787	59,091	59,891	60,892	62,107	63,273	64,315
Female	29,688	42,117	44,047	45,915	47,259	48,706	50,334	51,696	53,027
<b>Marital status:</b>									
Married, spouse present	55,554	62,536	62,570	64,692	65,584	66,802	68,372	69,228	70,164
Single (never married)	15,039	24,082	24,779	26,143	26,780	27,478	28,355	29,500	30,111
Widowed, divorced, separated	8,087	12,686	13,483	14,170	14,786	15,318	15,713	16,242	17,066
<b>Class of worker:</b>									
Nonagriculture:	75,215	95,938	97,450	101,685	103,971	106,434	109,232	111,800	114,142
Wage and salary worker	69,491	88,525	89,500	93,565	95,871	98,299	100,771	103,021	105,259
Self-employed	5,221	7,000	7,575	7,785	7,811	7,881	8,201	8,519	8,605
Unpaid family workers	502	413	376	335	289	255	260	260	279
Agriculture:	3,463	3,364	3,383	3,321	3,179	3,163	3,208	3,169	3,199
Wage and salary worker	1,154	1,425	1,579	1,555	1,535	1,547	1,632	1,621	1,665
Self-employed	1,810	1,642	1,565	1,553	1,458	1,447	1,423	1,398	1,403
Unpaid family workers	499	297	240	213	185	169	153	150	131
<b>Weekly hours:</b>									
Nonagriculture:									
Wage and salary workers	38.3	38.1	37.9	38.4	38.7	38.8	38.7	39.1	39.3
Self-employed	45.0	41.2	40.0	40.6	41.1	41.2	41.0	41.0	41.1
Unpaid family workers	37.9	34.7	34.8	35.1	35.1	35.5	36.3	36.0	35.1
Agriculture:									
Wage and salary workers	40.0	41.6	40.3	41.1	40.8	40.9	40.6	41.3	41.8
Self-employed	51.0	49.3	47.4	48.1	48.2	48.4	47.8	47.5	47.9
Unpaid family workers	40.0	38.6	38.6	38.9	38.5	39.7	39.9	39.7	39.4

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly; and unpublished data.

**No. 647. Self-Employed Workers, by Selected Characteristics: 1970 to 1989**

[In thousands. For civilian noninstitutional population 16 years old and over. Annual averages of monthly figures. Based on Current Population Survey; see text, section 1, and Appendix III]

ITEM	1970	1975	1980	1984	1985	1986	1987	1988	1989
<b>Total self-employed . . . . .</b>	<b>7,031</b>	<b>7,427</b>	<b>8,642</b>	<b>9,338</b>	<b>9,269</b>	<b>9,328</b>	<b>9,624</b>	<b>9,917</b>	<b>10,008</b>
<b>Industry:</b>									
Agriculture . . . . .	1,810	1,722	1,642	1,553	1,458	1,447	1,423	1,398	1,403
Nonagriculture . . . . .	5,221	5,705	7,000	7,785	7,811	7,881	8,201	8,519	8,605
Mining . . . . .	14	16	28	25	20	26	27	28	26
Construction . . . . .	687	839	1,173	1,235	1,301	1,369	1,384	1,427	1,423
Manufacturing . . . . .	264	273	358	360	347	371	354	394	406
Transportation and public utilities . . . . .	196	223	282	318	315	318	335	345	323
Trade . . . . .	1,667	1,709	1,899	1,920	1,792	1,787	1,841	1,823	1,882
Finance, insurance, and real estate . . . . .	254	335	458	544	558	556	597	624	621
Services . . . . .	2,140	2,310	2,804	3,383	3,477	3,455	3,663	3,878	3,924
<b>Occupation:</b>									
Managerial and professional specialty . . . . .	(NA)	(NA)	(NA)	2,531	2,585	2,554	2,714	2,929	3,059
Technical, sales, and administrative support . . . . .	(NA)	(NA)	(NA)	2,132	2,059	2,092	2,138	2,155	2,195
Service occupations . . . . .	(NA)	(NA)	(NA)	939	980	998	1,058	1,159	1,146
Precision production, craft, and repair . . . . .	(NA)	(NA)	(NA)	1,602	1,611	1,651	1,680	1,674	1,648
Operators, fabricators, and laborers . . . . .	(NA)	(NA)	(NA)	584	568	578	596	604	585
Farming, forestry, and fishing . . . . .	(NA)	(NA)	(NA)	1,551	1,465	1,456	1,438	1,395	1,376

NA Not available.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly, and unpublished data.

**No. 648. Persons With a Job But Not at Work: 1970 to 1989**

[In thousands, except percent. For civilian noninstitutional population 16 years old and over. Annual averages of monthly figures. Based on Current Population Survey; see text, section 1 and Appendix III. See *Historical Statistics, Colonial Times to 1970*, series D 116-126, for related but not comparable data]

REASON FOR NOT WORKING	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989		
										Total	Male	Female
<b>All Industries, number . . . . .</b>	<b>4,645</b>	<b>5,221</b>	<b>5,882</b>	<b>5,563</b>	<b>5,575</b>	<b>5,789</b>	<b>5,741</b>	<b>5,910</b>	<b>5,831</b>	<b>6,170</b>	<b>2,956</b>	<b>3,214</b>
<b>Percent of employed . . . . .</b>	<b>5.9</b>	<b>6.1</b>	<b>5.9</b>	<b>5.5</b>	<b>5.3</b>	<b>5.4</b>	<b>5.2</b>	<b>5.3</b>	<b>5.1</b>	<b>5.3</b>	<b>4.6</b>	<b>6.1</b>
<b>Reason for not working:</b>												
Vacation . . . . .	2,341	2,815	3,320	3,096	3,147	3,338	3,234	3,421	3,236	3,437	1,626	1,811
Illness . . . . .	1,324	1,343	1,425	1,291	1,322	1,308	1,292	1,320	1,364	1,405	711	694
Bad weather . . . . .	128	139	155	124	118	141	128	92	122	133	122	11
Industrial dispute . . . . .	156	95	105	91	40	42	56	34	30	63	48	16
All other . . . . .	696	829	876	962	947	960	1,030	1,043	1,080	1,132	449	682

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly, and unpublished data.

**No. 649. Employed and Unemployed Workers, by Work Schedules, Sex, and Age: 1980 to 1989**

[In thousands. See headnote, table 633]

CHARACTERISTIC	EMPLOYED				CHARACTERISTIC	UNEMPLOYED			
	1980	1985	1988	1989		1980	1985	1988	1989
<b>Total . . . . .</b>	<b>99,303</b>	<b>107,150</b>	<b>114,968</b>	<b>117,342</b>	<b>Total . . . . .</b>	<b>7,636</b>	<b>8,312</b>	<b>6,701</b>	<b>6,528</b>
Full-time . . . . .	82,562	88,535	95,214	97,369	Looking for full-time work . . . . .	6,289	6,793	5,357	5,211
Male . . . . .	51,717	53,862	56,816	57,885	Male . . . . .	3,703	3,925	3,116	2,995
16-19 years old . . . . .	2,017	1,437	1,462	1,499	16-19 years old . . . . .	537	446	338	344
20-24 years old . . . . .	6,533	6,078	5,724	5,631	20-24 years old . . . . .	994	857	590	574
25-54 years old . . . . .	35,644	39,207	42,614	43,765	25-54 years old . . . . .	1,923	2,329	1,956	1,850
55 years and over . . . . .	7,521	7,139	7,017	6,990	55 years and over . . . . .	250	262	233	227
Female . . . . .	30,845	34,672	38,398	39,484	Female . . . . .	2,564	2,868	2,241	2,216
16-19 years old . . . . .	1,456	1,069	1,099	1,075	16-19 years old . . . . .	430	331	254	253
20-24 years old . . . . .	5,098	4,903	4,707	4,536	20-24 years old . . . . .	636	636	454	439
25-54 years old . . . . .	20,395	24,838	28,572	29,746	25-54 years old . . . . .	1,363	1,727	1,419	1,402
55 years and over . . . . .	3,897	3,862	4,018	4,126	55 years and over . . . . .	135	173	114	122
Part-time . . . . .	16,740	18,615	19,754	19,973	Looking for part-time work . . . . .	1,369	1,519	1,343	1,317
Male . . . . .	5,471	6,028	6,457	6,430	Male . . . . .	563	596	539	530
16-19 years old . . . . .	2,068	1,891	2,029	1,979	16-19 years old . . . . .	377	360	330	315
20-24 years old . . . . .	999	1,261	1,195	1,167	20-24 years old . . . . .	81	87	86	86
25-54 years old . . . . .	1,092	1,568	1,748	1,757	25-54 years old . . . . .	54	79	67	73
55 years and over . . . . .	1,314	1,308	1,485	1,526	55 years and over . . . . .	52	70	56	56
Female . . . . .	11,270	12,587	13,298	13,544	Female . . . . .	806	923	805	767
16-19 years old . . . . .	2,169	2,036	2,214	2,207	16-19 years old . . . . .	326	330	305	283
20-24 years old . . . . .	1,456	1,738	1,618	1,627	20-24 years old . . . . .	124	158	130	119
25-54 years old . . . . .	5,827	6,837	7,358	7,498	25-54 years old . . . . .	299	359	310	321
55 years and over . . . . .	1,815	1,976	2,108	2,212	55 years and over . . . . .	57	75	60	64

<sup>1</sup> Full-time workers include employed persons on full-time (35 hours or more per week) schedules and those working part-time (between 1 and 34 hours) for economic reasons who usually work full-time. Part-time workers include employed persons working part-time voluntarily and those working part-time for economic reasons, who usually work part-time. Employed persons with a job but not at work are distributed according to whether they usually work full- or part-time.

Source: U.S. Bureau of Labor Statistics, Bulletin 2307 and *Employment and Earnings*, monthly.

**No. 650. Workers on Flexible Schedules, by Selected Characteristics: 1989**

[In thousands, except percent. As of May. For employed full-time wage and salary workers. Flexitime allows workers to vary the time they begin and end their workday]

CHARACTERISTIC	ALL WORKERS			WITH FLEXIBLE SCHEDULES			PERCENT OF ALL WORKERS		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
<b>Total</b> .....	<b>83,433</b>	<b>48,305</b>	<b>35,128</b>	<b>9,928</b>	<b>6,211</b>	<b>3,717</b>	<b>11.9</b>	<b>12.9</b>	<b>10.6</b>
Age:									
16-19 years .....	1,904	1,095	808	147	91	56	7.7	8.3	6.9
20-24 years .....	9,493	5,238	4,255	952	540	411	10.0	10.3	9.7
25-34 years .....	27,126	16,050	11,076	3,446	2,180	1,266	12.7	13.6	11.4
35-44 years .....	21,960	12,544	9,417	2,855	1,766	1,089	13.0	14.1	11.6
45-54 years .....	14,298	8,328	5,969	1,607	1,055	552	11.2	12.7	9.2
55-64 years .....	7,602	4,483	3,119	786	489	297	10.3	10.9	9.5
65 years and over .....	1,049	566	483	137	90	47	13.1	15.9	9.7
Race:									
White .....	71,171	41,938	29,233	8,869	5,604	3,264	12.5	13.4	11.2
Black .....	9,556	4,878	4,678	777	422	354	8.1	8.7	7.6
Hispanic .....	6,579	4,081	2,499	579	378	201	8.8	9.3	8.0
Marital status:									
Single .....	19,878	11,613	8,265	2,387	1,439	947	12.0	12.4	11.5
Married, spouse present .....	50,862	31,628	19,034	6,074	4,189	1,885	12.0	13.2	9.9
Other .....	12,893	5,064	7,829	1,467	582	885	11.4	11.5	11.3
Occupation:									
Managerial and professional .....	22,813	12,358	10,455	4,186	2,614	1,573	18.3	21.2	15.0
Technical, sales, administrative .....	24,758	9,191	15,565	3,246	1,694	1,552	13.1	18.4	10.0
Service occupations .....	8,559	4,282	4,277	709	352	357	8.3	8.2	8.3
Precision production, craft, and repair .....	10,967	10,161	806	708	651	57	6.5	6.4	7.1
Operators, fabricators, and laborers .....	14,867	11,020	3,847	833	698	136	5.6	6.3	3.5
Farming, forestry, and fisheries .....	1,472	1,293	180	244	202	42	16.6	15.6	23.3
Industry:									
Private sector .....	68,839	41,038	27,801	8,407	5,344	3,064	12.2	13.0	11.0
Goods producing .....	26,257	19,381	6,876	2,320	1,793	528	8.8	9.3	7.7
Service producing .....	42,582	21,657	20,925	6,087	3,551	2,536	14.3	16.4	12.1
Public sector .....	14,598	7,267	7,327	1,521	867	653	10.4	11.9	8.9
Federal government .....	3,105	1,848	1,257	573	323	250	18.5	17.5	19.9
State government .....	3,637	1,857	1,781	469	270	198	12.9	14.5	11.1
Local government .....	7,852	3,562	4,290	480	275	205	6.1	7.7	4.8

<sup>1</sup> Persons of Hispanic origin may be of any race. <sup>2</sup> Includes agriculture, mining, construction, and manufacturing.  
Source: U.S. Bureau of Labor Statistics, unpublished data.

**No. 651. Multiple Jobholders—Selected Characteristics: 1989**

[As of May. Multiple jobholders are employed persons who, either 1) had jobs as wage or salary workers with two employers or more; 2) were self-employed and also held a wage and salary job; or 3) were unpaid family workers on their primary jobs but also held wage and salary job. Based on the Current Population Survey, see text, section 1, and Appendix III]

CHARACTERISTIC	EMPLOYED (1,000)			MULTIPLE JOBHOLDERS					
	Total	Male	Female	Number (1,000)			Average weekly hours		Median weekly earnings <sup>1</sup> (dol.)
				Total	Male	Female	All jobs	Sec- ondary job	All jobs
<b>Total</b> .....	<b>117,084</b>	<b>64,256</b>	<b>52,827</b>	<b>7,225</b>	<b>4,115</b>	<b>3,109</b>	<b>52.0</b>	<b>13.8</b>	<b>427</b>
Age:									
16-19 years .....	6,474	3,332	3,142	283	151	132	37.3	13.0	168
20-24 years .....	12,914	6,807	6,107	811	412	399	51.3	14.7	354
25-34 years .....	33,966	18,951	15,016	2,212	1,255	957	52.8	13.9	438
35-44 years .....	29,392	15,958	13,434	2,097	1,184	914	52.7	13.4	482
45-54 years .....	19,365	10,629	8,736	1,223	729	494	54.4	14.4	534
55-64 years .....	11,489	6,537	4,952	491	311	181	52.3	13.7	479
65 years and over .....	3,484	2,043	1,441	107	74	33	39.0	11.3	98
Race:									
White .....	101,405	56,339	45,066	6,573	3,756	2,817	51.6	13.6	425
Black .....	11,967	5,939	6,028	514	278	236	57.0	17.2	418
Hispanic <sup>2</sup> .....	8,542	5,065	3,477	270	149	120	54.4	15.3	369
Marital status:									
Single .....	29,432	16,667	12,765	1,742	905	837	(NA)	(NA)	(NA)
Married, spouse present .....	70,673	40,979	29,694	4,359	2,835	1,524	(NA)	(NA)	(NA)
Other .....	16,979	6,610	10,369	1,124	375	749	(NA)	(NA)	(NA)
Class of worker—primary job:									
Agriculture .....	3,342	2,635	706	198	149	49	60.5	16.3	(NA)
Wage and salary worker .....	1,742	1,379	363	92	79	13	52.6	13.4	194
Self-employed .....	1,432	1,194	239	91	67	24	67.1	17.6	(NA)
Unpaid family worker .....	168	63	105	16	4	12	65.6	24.4	(NA)
Nonagriculture .....	113,742	61,621	52,121	7,026	3,966	3,060	51.8	13.8	(NA)
Wage and salary worker .....	104,894	56,125	48,769	6,675	3,754	2,920	51.9	13.8	447
Self-employed .....	8,530	5,459	3,071	342	212	130	50.7	13.6	(NA)
Unpaid family worker .....	318	37	281	10	-	10	38.3	10.7	(NA)

- Represents or rounds to zero. NA Not available. <sup>1</sup> Data on wage and salary earnings only were collected for the primary job. Data on earnings from all sources were collected for the secondary job. <sup>2</sup> Persons of Hispanic origin may be of any race.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, July 1990, and unpublished data.

### No. 652. Employed Civilians, by Occupation, Sex, Race, and Hispanic Origin: 1983 and 1989

[For civilian noninstitutional population 18 years old and over. Annual average of monthly figures. Based on Current Population Survey; see text, section I and Appendix III. Persons of Hispanic origin may be of any race]

OCCUPATION	1983				1989			
	Total employed (1,000)	Percent of total			Total employed (1,000)	Percent of total		
		Female	Black	Hispanic		Female	Black	Hispanic
<b>Total</b> . . . . .	<b>100,834</b>	<b>43.7</b>	<b>9.3</b>	<b>5.3</b>	<b>117,342</b>	<b>45.2</b>	<b>10.2</b>	<b>7.3</b>
<b>Managerial and professional specialty</b> . . . . .	<b>23,592</b>	<b>40.9</b>	<b>5.6</b>	<b>2.6</b>	<b>30,398</b>	<b>45.2</b>	<b>6.1</b>	<b>3.7</b>
Executive, administrative, and managerial <sup>1</sup> . . . . .	10,772	32.4	4.7	2.8	14,848	39.8	5.7	4.0
Officials and administrators, public . . . . .	417	38.5	8.3	3.8	519	43.9	10.1	3.8
Financial managers . . . . .	357	38.6	3.5	3.1	472	42.7	4.0	3.7
Personnel and labor relations managers . . . . .	106	43.9	4.9	2.6	128	52.6	6.1	3.7
Purchasing managers . . . . .	82	23.6	5.1	1.4	110	25.9	4.7	3.7
Managers, marketing, advertising and public relations . . . . .	396	21.8	2.7	1.7	514	31.0	3.3	2.2
Administrators, education and related fields . . . . .	415	41.4	11.3	2.4	585	53.4	9.9	4.0
Managers, medicine and health . . . . .	91	57.0	5.0	2.0	188	67.6	6.7	3.1
Managers, properties and real estate . . . . .	305	42.8	5.5	5.2	451	43.5	6.7	5.3
Management-related occupations <sup>1</sup> . . . . .	2,966	40.3	5.8	3.5	3,908	50.4	7.1	4.0
Accountants and auditors . . . . .	1,105	38.7	5.5	3.3	1,416	48.6	7.5	3.2
<b>Professional specialty</b> <sup>1</sup> . . . . .	<b>12,820</b>	<b>48.1</b>	<b>6.4</b>	<b>2.5</b>	<b>15,550</b>	<b>50.4</b>	<b>6.6</b>	<b>3.4</b>
Architects . . . . .	103	12.7	1.6	1.5	157	20.6	2.1	5.8
Engineers . . . . .	1,572	5.8	2.7	2.2	1,823	7.6	3.6	2.3
Aerospace engineers . . . . .	80	6.9	1.5	2.1	112	3.7	3.3	1.2
Chemical engineers . . . . .	67	6.1	3.0	1.4	67	15.3	4.6	6.6
Civil engineers . . . . .	211	4.0	1.9	3.2	249	5.4	4.2	3.6
Electrical and electronic . . . . .	450	6.1	3.4	3.1	571	8.5	3.2	2.2
Industrial engineers . . . . .	210	11.0	3.3	2.4	199	11.5	4.9	1.1
Mechanical . . . . .	259	2.8	3.2	1.1	310	4.9	3.2	1.6
Mathematical and computer scientists <sup>1</sup> . . . . .	463	29.6	5.4	2.6	853	35.7	5.7	3.5
Computer systems analysts, scientists . . . . .	276	27.8	6.2	2.7	566	32.4	5.7	3.0
Operations and systems researchers and analysts . . . . .	142	31.3	4.9	2.2	239	41.1	5.8	4.9
<b>Natural scientists</b> <sup>1</sup> . . . . .	<b>357</b>	<b>20.5</b>	<b>2.6</b>	<b>2.1</b>	<b>413</b>	<b>26.9</b>	<b>3.9</b>	<b>2.7</b>
Chemists, except biochemists . . . . .	98	23.3	4.3	1.2	122	27.8	5.9	5.2
Geologists and geodesists . . . . .	65	18.0	1.1	2.6	52	15.4	2.9	0.5
Biological and life scientists . . . . .	55	40.8	2.4	1.8	77	34.6	2.9	2.1
<b>Health diagnosing occupations</b> <sup>1</sup> . . . . .	<b>735</b>	<b>13.3</b>	<b>2.7</b>	<b>3.3</b>	<b>854</b>	<b>16.5</b>	<b>3.2</b>	<b>4.4</b>
Physicians . . . . .	519	15.8	3.2	4.5	548	17.9	3.3	5.4
Dentists . . . . .	126	6.7	2.4	1.0	170	8.6	4.3	2.9
<b>Health assessment and treating occupations</b> . . . . .	<b>1,900</b>	<b>85.8</b>	<b>7.1</b>	<b>2.2</b>	<b>2,242</b>	<b>84.8</b>	<b>7.3</b>	<b>3.1</b>
Registered nurses . . . . .	1,372	95.8	6.7	1.8	1,599	94.2	7.2	3.0
Pharmacists . . . . .	158	26.7	3.8	2.6	174	32.3	4.7	2.2
Dietitians . . . . .	71	90.8	21.0	3.7	83	90.8	17.1	5.3
Therapists <sup>1</sup> . . . . .	247	76.3	7.6	2.7	324	76.3	6.4	3.0
Inhalation therapists . . . . .	69	69.4	6.5	3.7	63	52.5	12.5	2.7
Physical therapists . . . . .	55	77.0	9.7	1.5	90	77.3	4.8	6.1
Speech therapists . . . . .	51	90.5	1.5	-	63	88.6	3.3	0.9
Physicians' assistants . . . . .	51	36.3	7.7	4.4	62	26.6	6.9	6.2
<b>Teachers, college and university</b> . . . . .	<b>606</b>	<b>36.3</b>	<b>4.4</b>	<b>1.8</b>	<b>709</b>	<b>38.7</b>	<b>4.3</b>	<b>2.4</b>
Teachers, except college and university . . . . .	3,365	70.9	9.1	2.7	3,936	73.3	9.2	3.7
Prekindergarten and kindergarten . . . . .	299	98.2	11.8	3.4	431	97.8	10.1	5.3
Elementary school . . . . .	1,350	83.3	11.1	3.1	1,489	84.7	11.0	3.5
Secondary school . . . . .	1,209	51.8	7.2	2.3	1,220	52.6	7.7	3.4
Special education . . . . .	81	82.2	10.2	2.3	257	84.4	11.8	2.2
Counselors, educational and vocational . . . . .	184	53.1	13.9	3.2	214	60.4	12.0	6.2
Librarians, archivists, and curators . . . . .	213	84.4	7.8	1.6	212	83.3	7.3	2.2
Librarians . . . . .	193	87.3	7.9	1.8	188	87.3	7.6	2.3
<b>Social scientists and urban planners</b> <sup>1</sup> . . . . .	<b>261</b>	<b>46.8</b>	<b>7.1</b>	<b>2.1</b>	<b>374</b>	<b>48.6</b>	<b>6.4</b>	<b>2.7</b>
Economists . . . . .	98	37.9	6.3	2.7	122	41.3	4.4	3.5
Psychologists . . . . .	135	57.1	8.6	1.1	210	54.0	7.7	2.5
<b>Social, recreation, and religious workers</b> <sup>1</sup> . . . . .	<b>831</b>	<b>43.1</b>	<b>12.1</b>	<b>3.8</b>	<b>1,043</b>	<b>48.8</b>	<b>12.4</b>	<b>3.6</b>
Social workers . . . . .	407	64.3	18.2	6.3	527	68.1	17.6	4.8
Recreation workers . . . . .	65	71.9	15.7	2.0	101	74.4	9.8	3.3
Clergy . . . . .	293	5.6	4.9	1.4	336	7.8	7.2	1.8
<b>Lawyers and judges</b> . . . . .	<b>651</b>	<b>15.8</b>	<b>2.7</b>	<b>1.0</b>	<b>774</b>	<b>22.3</b>	<b>3.2</b>	<b>3.3</b>
Lawyers . . . . .	612	15.3	2.6	0.9	741	22.2	3.0	3.4
<b>Writers, artists, entertainers, and athletes</b> <sup>1</sup> . . . . .	<b>1,544</b>	<b>42.7</b>	<b>4.8</b>	<b>2.9</b>	<b>1,921</b>	<b>46.0</b>	<b>4.5</b>	<b>3.9</b>
Authors . . . . .	62	46.7	2.1	0.9	82	59.2	1.3	0.4
Technical writers . . . . .	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	65	48.0	2.3	2.8
Designers . . . . .	393	52.7	3.1	2.7	534	51.5	2.8	4.3
Musicians and composers . . . . .	155	28.0	7.9	4.4	170	31.5	7.0	5.3
Actors and directors . . . . .	60	30.8	6.6	3.4	96	34.6	7.2	3.8
Painters, sculptors, craft-artists, and artist printmakers . . . . .	186	47.4	2.1	2.3	229	50.7	2.7	3.8
Photographers . . . . .	113	20.7	4.0	3.4	112	30.3	4.8	7.6
Editors and reporters . . . . .	204	48.4	2.9	2.1	253	49.2	5.6	1.6
Public relations specialists . . . . .	157	50.1	6.2	1.9	159	57.1	5.5	1.3
Announcers . . . . .	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	51	13.6	9.7	3.7
Athletes . . . . .	58	17.6	9.4	1.7	74	19.4	8.7	6.3

See footnotes at end of table.

### No. 652. Employed Civilians, by Occupation, Sex, Race, and Hispanic Origin: 1983 and 1989—Continued

[See headnote, page 395]

OCCUPATION	1983				1989			
	Total em- ployed (1,000)	Percent of total			Total em- ployed (1,000)	Percent of total		
		Fe- male	Black	His- panic		Fe- male	Black	His- panic
<b>Technical, sales, and administrative support</b> . . . . .	<b>31,265</b>	<b>64.6</b>	<b>7.6</b>	<b>4.3</b>	<b>36,127</b>	<b>64.9</b>	<b>9.3</b>	<b>5.7</b>
Technicians and related support . . . . .	3,053	48.2	8.2	3.1	3,645	48.2	9.5	4.3
Health technologists and technicians <sup>1</sup> . . . . .	1,111	84.3	12.7	3.1	1,276	82.3	14.6	4.6
Clinical laboratory technologists and technicians . . . . .	255	76.2	10.5	2.9	308	74.4	14.7	4.1
Dental hygienists . . . . .	66	98.6	1.6	—	80	99.2	1.7	0.9
Health record technologists and technicians . . . . .	(2)	(2)	(2)	(2)	72	91.3	15.5	10.8
Radiologic technicians . . . . .	101	71.7	8.6	4.5	124	75.8	10.1	4.3
Licensed practical nurses . . . . .	443	97.0	17.7	3.1	414	96.1	19.0	4.4
Engineering and related technologists and technicians <sup>1</sup> . . . . .	822	18.4	6.1	3.5	937	19.2	7.7	4.4
Electrical and electronic technicians . . . . .	260	12.5	8.2	4.6	326	14.2	7.7	6.1
Drafting occupations . . . . .	273	17.5	5.5	2.3	296	20.7	6.2	4.3
Surveying and mapping technicians . . . . .	(2)	(2)	(2)	(2)	70	11.0	6.3	5.6
Science technicians . . . . .	202	29.1	6.6	2.8	217	29.4	7.5	4.9
Biological technicians . . . . .	52	37.7	2.9	2.0	59	37.3	5.7	7.5
Chemical technicians . . . . .	82	26.9	9.5	3.5	74	21.7	9.2	3.7
Technicians, except health, engineering, and science <sup>1</sup> . . . . .	917	35.3	5.0	2.7	1,216	38.2	5.9	3.8
Airplane pilots and navigators . . . . .	69	2.1	—	1.6	109	3.8	0.2	2.7
Computer programmers . . . . .	443	32.5	4.4	2.1	561	35.2	5.5	3.2
Legal assistants . . . . .	128	74.0	4.3	3.6	210	75.7	7.0	5.0
<b>Sales occupations</b> . . . . .	<b>11,818</b>	<b>47.5</b>	<b>4.7</b>	<b>3.7</b>	<b>14,065</b>	<b>49.3</b>	<b>6.4</b>	<b>5.2</b>
Supervisors and proprietors . . . . .	2,958	28.4	3.6	3.4	3,828	34.8	4.6	5.0
Sales representatives, finance and business services . . . . .	1,853	37.2	2.7	2.2	2,371	43.5	4.6	3.4
Insurance sales . . . . .	551	25.1	3.8	2.5	535	29.4	5.1	2.8
Real estate sales . . . . .	570	48.9	1.3	1.5	772	51.0	3.5	3.4
Securities and financial services sales . . . . .	212	23.6	3.1	1.1	302	29.1	2.9	1.1
Advertising and related sales . . . . .	124	47.9	4.5	3.3	156	54.2	5.2	3.3
Sales representatives, commodities, except retail . . . . .	1,442	15.1	2.1	2.2	1,612	20.4	3.1	3.6
Sales workers, retail and personal services . . . . .	5,511	69.7	6.7	4.8	6,186	67.8	9.2	6.5
Cashiers . . . . .	2,009	84.4	10.1	5.4	2,473	81.8	13.0	7.4
Sales-related occupations . . . . .	54	58.7	2.8	1.3	68	74.6	3.8	1.8
<b>Administrative support, including clerical</b> . . . . .	<b>16,395</b>	<b>79.9</b>	<b>9.6</b>	<b>5.0</b>	<b>18,416</b>	<b>80.0</b>	<b>11.4</b>	<b>6.4</b>
Supervisors . . . . .	676	53.4	9.3	5.0	736	58.2	12.6	6.1
Computer equipment operators . . . . .	805	63.9	12.5	6.0	876	64.3	14.2	6.1
Computer operators . . . . .	597	63.7	12.1	6.0	670	64.2	14.3	6.0
Secretaries, stenographers, and typists . . . . .	4,861	98.2	7.3	4.5	4,788	98.3	8.5	5.0
Secretaries . . . . .	3,881	98.0	5.8	4.0	4,010	99.1	7.3	4.6
Typists . . . . .	906	95.6	13.8	6.4	731	95.0	14.8	7.2
Information clerks . . . . .	1,174	88.8	8.5	5.5	1,451	89.6	10.1	7.4
Receptionists . . . . .	602	96.8	7.5	6.6	815	97.2	7.4	7.7
Records processing occupations, except financial <sup>1</sup> . . . . .	886	82.4	13.9	4.8	851	82.3	14.7	7.5
Order clerks . . . . .	188	78.1	10.6	4.4	199	80.3	14.5	6.2
Personnel clerks, except payroll and time keeping . . . . .	64	91.1	14.9	4.6	77	91.2	20.8	4.8
Library clerks . . . . .	147	81.9	15.4	2.5	144	78.3	10.3	4.5
File clerks . . . . .	287	83.5	16.7	6.1	284	82.2	17.2	10.4
Records clerks . . . . .	157	82.8	11.6	5.6	116	85.0	11.4	8.3
<b>Financial records processing</b> <sup>1</sup> . . . . .	<b>2,457</b>	<b>89.4</b>	<b>4.6</b>	<b>3.7</b>	<b>2,394</b>	<b>91.0</b>	<b>6.3</b>	<b>5.0</b>
Bookkeepers, accounting, and auditing clerks . . . . .	1,970	91.0	4.3	3.3	1,926	91.7	5.1	4.6
Payroll and time keeping clerks . . . . .	192	82.2	5.9	5.0	177	90.5	11.0	6.6
Billing clerks . . . . .	146	88.4	6.2	3.9	159	90.6	9.6	6.8
Cost and rate clerks . . . . .	96	75.6	5.9	5.3	83	77.3	13.6	5.1
Duplicating, mail and other office machine operators . . . . .	68	62.6	16.0	6.1	65	62.6	13.9	9.1
Communications equipment operators . . . . .	256	89.1	17.0	4.4	210	88.6	17.7	6.4
Telephone operators . . . . .	244	90.4	17.0	4.3	201	89.8	17.7	6.4
Mail and message distributing occupations . . . . .	799	31.6	18.1	4.5	952	36.5	20.2	7.8
Postal clerks, except mail carriers . . . . .	248	36.7	26.2	5.2	313	43.7	30.1	6.8
Mail carrier, postal service . . . . .	259	17.1	12.5	2.7	327	26.1	11.2	7.6
Mail clerks, except postal service . . . . .	170	50.0	15.8	5.9	179	50.8	23.5	11.4
Messengers . . . . .	122	26.2	16.7	5.2	133	26.0	14.4	6.0
<b>Material recording, scheduling, and distributing</b> <sup>1 3</sup> . . . . .	<b>1,562</b>	<b>37.5</b>	<b>10.9</b>	<b>6.6</b>	<b>1,745</b>	<b>40.2</b>	<b>12.3</b>	<b>8.4</b>
Dispatchers . . . . .	157	45.7	11.4	4.3	189	51.5	9.6	4.4
Production coordinators . . . . .	182	44.0	6.1	2.2	196	46.4	8.5	6.1
Traffic, shipping, and receiving clerks . . . . .	421	22.6	9.1	11.1	550	27.6	14.2	11.6
Stock and inventory clerks . . . . .	532	38.7	13.3	5.5	561	41.2	13.2	8.2
Weighers, measurers, and checkers . . . . .	79	47.2	16.9	5.8	76	46.6	9.2	6.9
Expeditors . . . . .	112	57.5	8.4	4.3	96	67.5	9.0	9.0
Adjusters and investigators . . . . .	675	69.9	11.1	5.1	1,079	74.0	12.1	6.0
Insurance adjusters, examiners, and investigators . . . . .	199	65.0	11.5	3.3	325	72.0	12.0	4.6
Insurance adjusters, except insurance . . . . .	301	70.1	11.3	4.8	546	75.6	12.3	6.5
Insurance adjusters, except insurance . . . . .	69	88.7	12.9	9.4	72	84.5	11.1	7.8
Insurance adjusters, except insurance . . . . .	106	66.4	8.5	6.5	136	67.0	11.9	6.2
<b>Miscellaneous administrative support</b> <sup>1</sup> . . . . .	<b>2,397</b>	<b>85.2</b>	<b>12.5</b>	<b>5.9</b>	<b>3,269</b>	<b>85.2</b>	<b>14.2</b>	<b>7.2</b>
General office clerks . . . . .	648	80.6	12.7	5.2	810	81.9	12.8	7.1
Bank tellers . . . . .	480	91.0	7.5	4.3	503	91.0	9.9	6.9
Data entry keyers . . . . .	311	93.6	18.6	5.6	414	87.8	20.2	8.5
Statistical clerks . . . . .	96	75.7	7.5	3.4	86	79.7	14.2	4.2
Teachers' aides . . . . .	348	93.7	17.8	12.6	440	95.1	16.0	9.3

See footnotes at end of table.



**No. 652. Employed Civilians, by Occupation, Sex, Race, and Hispanic Origin:  
1983 and 1989—Continued**

[See headnote, page 395]

OCCUPATION	1983				1989			
	Total employed (1,000)	Percent of total			Total employed (1,000)	Percent of total		
		Female	Black	Hispanic		Female	Black	Hispanic
<b>Service occupations</b>	<b>13,857</b>	<b>60.1</b>	<b>16.8</b>	<b>6.8</b>	<b>15,556</b>	<b>60.4</b>	<b>17.6</b>	<b>10.8</b>
Private household	980	96.1	27.8	8.5	872	95.9	25.1	15.8
Child care workers	408	96.9	7.9	3.6	358	97.1	8.7	10.0
Cleaners and servants	512	95.8	42.4	11.8	464	94.9	36.5	19.5
Protective service	1,672	12.8	13.6	4.6	1,960	15.6	16.8	5.8
Supervisors, protective service	127	4.7	7.7	3.1	169	8.3	12.2	2.8
Supervisors, police and detectives	58	4.2	9.3	1.2	83	6.3	6.0	1.7
Firefighting and fire prevention	189	1.0	6.7	4.1	208	3.9	11.7	4.0
Firefighting occupations	170	1.0	7.3	3.8	188	3.5	12.0	4.4
Police and detectives	645	9.4	13.1	4.0	803	12.6	15.1	4.9
Police and detectives, public service	412	5.7	9.5	4.4	461	10.2	13.1	4.7
Sheriffs, bailiffs, and other law enforcement officers	87	13.2	11.5	4.0	112	12.8	7.3	4.5
Correctional institution officers	146	17.8	24.0	2.8	230	17.4	22.8	5.5
Guards	711	20.6	17.0	5.6	781	23.3	20.8	7.8
Guards and police, except public service	602	13.0	18.9	6.2	658	15.9	23.3	8.6
Service except private household and protective	11,205	64.0	16.0	6.9	12,724	64.8	17.2	11.3
Food preparation and service occupations	4,860	63.3	10.5	6.8	5,351	60.3	12.5	12.0
Bartenders	339	48.4	2.7	4.4	322	50.6	3.4	6.1
Waiters and waitresses	1,357	87.8	4.1	3.6	1,389	80.8	4.7	7.6
Cooks, except short order	1,359	50.8	16.0	8.8	1,713	49.4	18.2	14.2
Short-order cooks	93	38.5	12.9	2.4	91	30.9	22.4	9.1
Food counter, fountain, and related occupations	328	76.0	6.7	6.7	354	72.7	10.5	9.6
Kitchen workers, food preparation	138	77.0	13.7	8.1	126	73.1	18.5	11.9
Waiters' and waitresses' assistants	364	38.8	12.6	14.2	352	40.1	14.0	23.0
Health service occupations	1,739	89.2	23.5	4.8	2,042	90.0	26.4	6.5
Dental assistants	154	88.1	6.1	5.7	187	98.9	7.4	9.0
Health aides, except nursing	316	86.8	18.5	4.8	416	84.5	17.7	7.0
Nursing aides, orderlies, and attendants	1,269	88.7	24.4	4.7	1,439	90.4	31.4	6.0
Cleaning and building service occupations	2,736	38.8	24.4	9.2	2,997	42.7	22.9	15.8
Maids and housemen	531	81.2	32.3	10.1	646	83.6	26.7	17.2
Janitors and cleaners	2,031	28.6	22.6	8.9	2,148	31.6	21.8	15.7
Personal service occupations	1,870	79.2	11.1	6.0	2,333	81.8	12.4	7.9
Barbers	92	12.9	8.4	12.1	81	17.1	15.8	9.2
Hairdressers and cosmetologists	622	88.7	7.0	5.7	736	89.3	9.0	7.9
Attendants, amusement and recreation facilities	131	40.2	7.1	4.3	133	47.9	10.0	5.5
Public transportation attendants	63	74.3	11.3	5.9	86	83.0	14.7	3.2
Welfare service aides	77	92.5	24.2	10.5	95	89.8	28.3	8.7
Child care workers, except private household	633	96.8	12.6	5.2	861	96.3	12.4	7.9
<b>Precision production, craft, and repair</b>	<b>12,328</b>	<b>8.1</b>	<b>6.8</b>	<b>6.2</b>	<b>13,818</b>	<b>8.6</b>	<b>7.9</b>	<b>8.5</b>
Mechanics and repairers	4,158	3.0	6.8	5.3	4,550	3.4	7.7	7.4
Mechanics and repairers, except supervisors	3,906	2.8	7.0	5.5	4,265	3.1	7.8	7.7
Vehicle and mobile equipment mechanics/repairers	1,683	0.8	6.9	6.0	1,793	0.8	7.2	9.3
Automobile mechanics	800	0.5	7.8	6.0	880	0.7	8.2	11.6
Aircraft engine mechanics	95	2.5	4.0	7.6	122	2.6	9.2	7.5
Electrical and electronic equipment repairers	674	7.4	7.3	4.5	680	7.7	9.6	6.0
Data processing equipment repairers	98	9.3	6.1	4.5	152	8.6	11.7	4.5
Telephone installers and repairers	247	9.9	7.8	3.7	193	10.8	8.1	4.5
Construction trades	4,289	1.8	6.6	6.0	5,142	2.1	7.2	8.8
Construction trades, except supervisors	3,784	1.9	7.1	6.1	4,479	2.1	7.6	9.2
Carpenters	1,160	1.4	5.0	5.0	1,369	1.2	5.4	8.7
Extractive occupations	196	2.3	3.3	6.0	138	2.6	6.2	7.3
Precision production occupations	3,685	21.5	7.3	7.4	3,988	23.2	9.0	9.4
<b>Operators, fabricators, and laborers</b>	<b>16,091</b>	<b>26.6</b>	<b>14.0</b>	<b>8.3</b>	<b>18,022</b>	<b>26.0</b>	<b>15.1</b>	<b>11.4</b>
Machine operators, assemblers, and inspectors	7,744	42.1	14.0	9.4	8,248	40.9	14.6	13.6
Textile, apparel, and furnishings machine operators	1,414	82.1	18.7	12.5	1,356	78.3	20.7	18.6
Textile sewing machine operators	806	94.0	15.5	14.5	757	90.5	16.3	21.7
Pressing machine operators	141	66.4	27.1	14.2	134	70.2	30.3	21.7
Fabricators, assemblers, and hand working occupations	1,715	33.7	11.3	8.7	2,011	33.5	13.0	12.7
Production inspectors, testers, samplers, and weighers	794	53.8	13.0	7.7	856	52.6	13.4	11.0
Transportation and material moving occupations	4,201	7.8	13.0	5.9	4,886	9.2	14.6	7.6
Motor vehicle operators	2,978	9.2	13.5	6.0	3,602	11.2	14.7	7.8
Trucks, heavy and light	2,195	3.1	12.3	5.7	2,616	3.9	13.6	7.3
Transportation occupations, except motor vehicles	212	2.4	6.7	3.0	177	2.7	8.3	3.8
Material moving equipment operators	1,011	4.8	12.9	6.3	1,107	3.8	15.2	7.5
Industrial truck and tractor operators	369	5.6	19.6	8.2	452	5.6	21.2	10.7
Handlers, equipment cleaners, helpers, and laborers	4,147	16.8	15.1	8.6	4,888	17.9	16.4	11.6
Freight, stock, and material handlers	1,488	15.4	15.3	7.1	1,743	17.3	16.9	8.8
Laborers, except construction	1,024	19.4	16.0	8.6	1,288	20.4	16.3	10.8
<b>Farming, forestry, and fishing</b>	<b>3,700</b>	<b>16.0</b>	<b>7.5</b>	<b>8.2</b>	<b>3,421</b>	<b>16.5</b>	<b>6.1</b>	<b>13.9</b>
Farm operators and managers	1,450	12.1	1.3	0.7	1,269	15.4	0.8	1.7
Other agricultural and related occupations	2,072	19.9	11.7	14.0	1,976	18.1	9.2	22.0
Farm workers	1,149	24.8	11.6	15.9	893	22.9	8.2	26.1
Forestry and logging occupations	126	1.4	12.8	2.1	118	6.2	11.8	11.1
Fishers, hunters, and trappers	53	4.5	1.8	2.5	59	7.0	5.2	7.6

- Represents or rounds to zero. <sup>1</sup> Includes other occupations, not shown separately. <sup>2</sup> Level of total employment below 50,000. <sup>3</sup> Includes clerks.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, January issues.

### No. 653. Civilian Employment in Occupations with the Largest Job Growth and in the Fastest Growing and Fastest Declining Occupations: 1988 and 2000

(In thousands, except percent. For occupations employing 100,000 or more in 1988. Includes wage and salary jobs, self-employed and unpaid family members. Estimates based on the 1985 through 1987 Occupational Employment Statistics Surveys. See source for methodological assumptions. Minus sign (-) indicates decrease.)

OCCUPATION	EMPLOYMENT				PERCENT CHANGE 1988-2000		
	1988	2000 <sup>1</sup>			Low	Moderate	High
		Low	Moderate	High			
<b>Total</b> <sup>2</sup>	<b>118,104</b>	<b>127,118</b>	<b>136,211</b>	<b>144,146</b>	<b>8</b>	<b>15</b>	<b>22</b>
<b>LARGEST JOB GROWTH</b> <sup>3</sup>							
Salepersons, retail	3,834	4,225	4,564	4,785	10	19	25
Registered nurses	1,577	2,069	2,190	2,258	31	39	43
Janitors and cleaners <sup>4</sup>	2,895	3,240	3,450	3,629	12	19	25
Waiters and waitresses	1,786	2,188	2,337	2,415	22	31	35
General managers and top executives	3,030	3,269	3,509	3,710	8	16	22
General office clerks	2,519	2,787	2,974	3,144	11	18	25
Secretaries, except legal and medical	2,903	3,085	3,288	3,484	6	13	20
Nursing aides, orderlies, and attendants	1,184	1,469	1,562	1,606	24	32	36
Truck drivers, light and heavy	2,399	2,572	2,768	2,973	7	15	24
Receptionists and information clerks	833	1,092	1,164	1,216	31	40	46
Cashiers	2,310	2,429	2,614	2,733	5	13	18
Guards	795	983	1,050	1,129	24	32	42
Computer programmers	519	716	769	831	38	46	60
Food counter, fountain, and related workers	1,626	1,747	1,866	1,927	7	15	19
Food preparation workers	1,027	1,183	1,250	1,305	15	23	27
Licensed practical nurses	626	806	855	881	29	37	41
Teachers, secondary school	1,164	1,328	1,388	1,451	14	19	25
Computer systems analysts	403	575	617	666	43	53	65
Accountants and auditors	963	1,099	1,174	1,250	14	22	30
Teachers, kindergarten and elementary	1,359	1,499	1,567	1,638	10	15	21
Maintenance repairers, general utility	1,080	1,199	1,282	1,359	11	19	26
Child care workers	670	790	856	901	18	28	34
Gardeners and groundskeepers, except farm	760	884	943	1,009	16	24	33
Lawyers	582	712	763	806	22	31	38
Electrical and electronics engineers	439	565	615	676	29	40	5
Carpenters	1,081	1,166	1,257	1,344	8	16	24
Food service and lodging managers	560	670	721	755	20	29	35
Home health aides	236	373	397	409	58	68	73
Cooks, restaurant	572	680	728	754	19	27	32
Physicians	535	642	684	707	20	28	32
Teachers aides and educational assistants	682	789	827	861	16	21	26
Clerical supervisors and managers	1,183	1,237	1,319	1,394	5	12	18
Blue collar worker supervisors	1,797	1,788	1,930	2,074	-1	7	15
Electrical and electronic engineering technicians	341	434	471	515	27	38	51
Dining room and cafeteria attendants and bar helpers	448	542	578	597	21	29	33
Financial managers	673	750	802	848	12	19	26
Automotive mechanics	771	833	898	947	8	16	23
Medical secretaries	207	307	327	334	49	58	61
Social workers	385	469	495	512	22	29	33
<b>FASTEST GROWING</b>							
Medical assistants	149	238	253	259	60	70	74
Home health aides	236	373	397	409	58	68	73
Radiologic technologists and technicians	132	206	218	224	57	66	70
Medical secretaries	207	307	327	334	49	58	61
Securities and financial services sales workers	200	289	309	325	45	55	63
Travel agents	142	204	219	235	43	54	66
Computer systems analysts	403	575	617	666	43	53	65
Computer programmers	519	716	769	831	38	48	60
Human services workers	118	161	171	176	37	45	49
Correction officers and jailers	186	251	262	276	35	41	48
Electrical and electronics engineers	439	565	615	676	29	40	54
Receptionists and information clerks	833	1,092	1,164	1,216	31	40	46
<b>FASTEST DECLINING</b>							
Electrical and electronic equipment assemblers, precision	161	81	91	99	-50	-44	-39
Electrical and electronic assemblers	237	119	134	144	-50	-44	-39
Farmers	1,141	800	875	932	-30	-23	-18
Stenographers	159	116	122	130	-27	-23	-18
Telephone and cable TV line installers and repairers	127	94	100	106	-25	-21	-16
Sewing machine operators, garment	620	493	531	565	-21	-14	-9
Crushing and mixing machine operators and tenders	136	107	117	126	-21	-14	-7
Textile draw-out and winding machine operators <sup>5</sup>	227	180	197	215	-21	-13	-5
Machine feeders and offbearers	249	199	218	232	-20	-13	-7
Hand packers and packagers	635	516	560	596	-19	-12	6
Packaging and filling machine operators and tenders	286	232	254	266	-19	11	-7

<sup>1</sup> Based on low, moderate, or high trend assumptions. <sup>2</sup> Includes other occupations, not shown separately. <sup>3</sup> In descending order, based on absolute employment change 1988 to 2000 (moderate growth). <sup>4</sup> Includes maids and housekeepers. <sup>5</sup> Includes tenders.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, November 1989.

**No. 654. Occupational Tenure, by Occupation: 1987**

[As of January. For civilian noninstitutional population. Data refer to the cumulative number of years a person worked in his or her current occupation, regardless of number of employers. Figures shown here exclude miscellaneous occupations and those not elsewhere classified. Based on Current Population Survey; see text, section 1, and Appendix III]

OCCUPATION	Total employed (1,000)	Median tenure (years)	Median age (years)	OCCUPATION	Total employed (1,000)	Median tenure (years)	Median age (years)
Total, 16 years old and over . . . . .	109,090	6.6	35.8	OCCUPATIONS WITH THE LONGEST TENURE			
OCCUPATIONS WITH 650,000 WORKERS OR MORE				Barbers . . . . .	88	24.8	49.5
Secretaries . . . . .	3,897	7.5	36.1	Farmers, except horticultural . . . . .	1,019	21.1	50.1
Supervisors and proprietors, sales . . . . .	3,539	7.9	38.3	Railroad conductors and yardmasters . . . . .	53	18.4	44.3
Cashiers . . . . .	2,123	2.4	24.4	Clergy . . . . .	347	15.8	44.8
Bookkeepers, accounting and auditing clerks . . . . .	2,110	7.1	38.9	Dentists . . . . .	149	15.7	43.2
Janitors and cleaners . . . . .	2,073	4.2	38.5	Telephone line installers and repairers . . . . .	52	15.0	36.6
Truck drivers, heavy . . . . .	1,740	10.1	38.0	Millwrights . . . . .	101	14.8	43.2
Cooks, except short-order . . . . .	1,596	3.8	29.3	Locomotive operating occupations . . . . .	72	14.8	39.3
Registered nurses . . . . .	1,538	9.3	36.5	Managers, farms, except horticultural . . . . .	132	14.4	39.4
Teachers, elementary schools . . . . .	1,412	12.4	39.0	Telephone installers and repairers . . . . .	235	14.3	38.0
Supervisors; production occupations . . . . .	1,379	10.1	40.6	Airplane pilots and navigators . . . . .	86	14.0	41.6
Sales representatives <sup>1</sup> . . . . .	1,354	8.6	37.6	Supervisors; police and detectives . . . . .	76	13.8	42.1
Accountants and auditors . . . . .	1,317	7.6	35.0	Grader, dozer, and scraper operators . . . . .	75	13.3	41.4
Waiters and waitresses . . . . .	1,303	4.2	25.9	Tailors . . . . .	51	13.3	44.2
Nursing aides, orderlies and attendants . . . . .	1,283	5.6	36.5	Civil engineers . . . . .	237	13.0	38.8
Carpenters . . . . .	1,222	8.0	32.7	OCCUPATIONS WITH THE SHORTEST TENURE			
Teachers, secondary schools . . . . .	1,182	12.5	39.8	Food counter, fountain, and related occupations . . . . .	310	1.5	18.8
Laborers, except construction . . . . .	1,161	3.7	31.3	Waiters' and waitresses' assistants . . . . .	323	1.7	20.3
Assemblers . . . . .	1,033	5.4	34.6	Stock handlers and baggers . . . . .	933	1.9	21.1
Farmers, except horticultural . . . . .	1,019	21.1	50.1	Kitchen workers, food preparation . . . . .	107	2.1	27.2
Stock handlers and baggers . . . . .	933	1.9	21.1	Messengers . . . . .	149	2.3	30.3
Automobile mechanics . . . . .	933	9.3	31.1	Vehicle washers and equipment cleaners . . . . .	232	2.3	26.7
Computer operators . . . . .	859	4.8	31.3	News vendors . . . . .	101	2.3	26.4
Typists . . . . .	829	5.2	32.8	Mail clerks, except postal service . . . . .	181	2.3	29.8
Child-care workers, except private household . . . . .	779	2.7	34.2	Cashiers . . . . .	2,123	2.4	24.4
Receptionists . . . . .	766	3.3	31.4	File clerks . . . . .	289	2.5	28.5
Textile sewing machine operators . . . . .	740	6.6	37.8	Short-order cooks . . . . .	104	2.5	20.9
Real estate sales . . . . .	726	6.0	43.5	Garage and service station related occupations . . . . .	246	2.6	23.8
Hairdressers and cosmetologists . . . . .	723	8.9	35.5	Salesworkers, shoes . . . . .	102	2.6	22.3
Farm workers . . . . .	703	7.3	30.0	Hotel clerks . . . . .	78	2.7	27.7
General office clerks . . . . .	695	4.0	35.1	Child-care workers, except private household . . . . .	779	2.7	34.2
Truck drivers, light . . . . .	674	3.2	30.2				
Electricians . . . . .	656	11.0	36.1				

<sup>1</sup> Mining, manufacturing, and wholesale trade.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, October 1988.

**No. 655. Occupation of Employed Civilians, by Sex and Educational Attainment: 1989**

[Annual averages of monthly figures. For civilian noninstitutional population 25 years and over. Based on Current Population Survey; see text, section 1 and Appendix III]

YEARS OF SCHOOL COMPLETED	TOTAL <sup>1</sup>		MANAGERIAL/PROFESSIONAL		TECHNICAL/SALES/ADMINISTRATIVE		SERVICE <sup>2</sup>		PRECISION PRODUCTION <sup>3</sup>		OPERATORS/FABRICATORS <sup>4</sup>	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
NUMBER (1,000)												
Total . . . . .	54,039	43,582	15,777	12,587	10,482	18,427	4,219	7,069	10,991	1,054	10,328	3,982
Less than 4 years of high school . . . . .	8,307	5,137	476	260	643	1,084	1,022	2,016	2,268	258	3,074	1,398
4 years of high school only . . . . .	19,722	18,449	2,393	2,426	3,469	9,511	1,793	3,596	5,788	569	5,348	2,126
1 to 3 years of college . . . . .	10,569	9,422	2,748	2,690	2,928	5,075	946	1,080	2,200	156	1,443	353
4 years of college or more . . . . .	15,441	10,574	10,160	7,210	3,443	2,756	459	377	735	71	462	105
PERCENT DISTRIBUTION												
Total . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 4 years of high school . . . . .	15.4	11.8	3.0	2.1	6.1	5.9	24.2	28.5	20.6	24.5	29.8	35.1
4 years of high school only . . . . .	36.5	42.3	15.2	19.3	33.1	51.6	42.5	50.9	52.7	54.0	51.8	53.4
1 to 3 years of college . . . . .	19.6	21.6	17.4	21.4	27.9	27.5	22.4	15.3	20.0	14.8	14.0	8.9
4 years of college or more . . . . .	28.6	24.3	64.4	57.3	32.8	15.0	10.9	5.3	6.7	6.7	4.5	2.6

<sup>1</sup> Includes other occupations not shown separately.

<sup>2</sup> Includes private household workers.

<sup>3</sup> Includes craft and repair.

<sup>4</sup> Includes laborers.

Source: U.S. Bureau of Labor Statistics, unpublished data.

### No. 656. Occupation of Employed Civilians, by Sex, Race, and Educational Attainment: 1989

[In thousands. See headnote, table 655]

SEX, RACE, AND YEARS OF SCHOOL	Total employed	Managerial/professional	Tech./sales/administrative	Service <sup>1</sup>	Precision production <sup>2</sup>	Operators/fabricators <sup>3</sup>	Farming, forestry, fishing
<b>Male, total<sup>4</sup></b>	<b>54,039</b>	<b>15,777</b>	<b>10,482</b>	<b>4,219</b>	<b>10,991</b>	<b>10,328</b>	<b>2,241</b>
Less than 4 years of high school	8,307	476	643	1,022	2,268	3,074	824
4 years of high school only	19,722	2,393	3,469	1,793	5,788	5,348	930
1 to 3 years of college	10,569	2,748	2,928	946	2,200	1,443	303
4 years of college or more	15,441	10,160	3,443	459	735	462	183
<b>White</b>	<b>47,453</b>	<b>14,500</b>	<b>9,326</b>	<b>3,243</b>	<b>9,870</b>	<b>8,471</b>	<b>2,042</b>
Less than 4 years of high school	6,979	430	570	768	2,014	2,494	704
4 years of high school only	17,296	2,232	3,112	1,374	5,266	4,445	866
1 to 3 years of college	9,252	2,537	2,581	738	1,947	1,156	293
4 years of college or more	13,926	9,301	3,063	364	643	376	178
<b>Black</b>	<b>4,859</b>	<b>712</b>	<b>776</b>	<b>779</b>	<b>852</b>	<b>1,585</b>	<b>156</b>
Less than 4 years of high school	1,101	35	56	201	205	504	100
4 years of high school only	1,983	113	278	336	412	797	46
1 to 3 years of college	1,008	144	258	177	188	238	7
4 years of college or more	767	420	185	64	47	48	3
<b>Female, total<sup>4</sup></b>	<b>43,582</b>	<b>12,587</b>	<b>18,427</b>	<b>7,069</b>	<b>1,054</b>	<b>3,982</b>	<b>463</b>
Less than 4 years of high school	5,137	260	1,084	2,016	258	1,398	120
4 years of high school only	18,449	2,426	9,511	3,596	569	2,126	221
1 to 3 years of college	9,422	2,690	5,075	1,080	156	353	68
4 years of college or more	10,574	7,210	2,756	377	71	105	54
<b>White</b>	<b>37,101</b>	<b>11,149</b>	<b>16,113</b>	<b>5,405</b>	<b>874</b>	<b>3,124</b>	<b>435</b>
Less than 4 years of high school	4,043	223	970	1,407	211	1,126	105
4 years of high school only	15,901	2,207	8,541	2,820	473	1,649	211
1 to 3 years of college	8,007	2,383	4,294	866	130	267	67
4 years of college or more	9,150	6,336	2,309	312	60	82	52
<b>Black</b>	<b>5,002</b>	<b>1,001</b>	<b>1,778</b>	<b>1,398</b>	<b>128</b>	<b>680</b>	<b>19</b>
Less than 4 years of high school	882	24	90	538	26	199	11
4 years of high school only	2,111	169	803	660	75	397	7
1 to 3 years of college	1,144	241	636	174	21	71	1
4 years of college or more	884	568	247	31	5	12	-

- Represents or rounds to zero. <sup>1</sup> Includes private household workers. <sup>2</sup> Includes craft and repair. <sup>3</sup> Includes laborers.

<sup>4</sup> Includes other races, not shown separately.

Source: U.S. Bureau of Labor Statistics, unpublished data.

### No. 657. Employment by Industry, 1970 to 1989, and by Selected Characteristics, 1989

[In thousands, except percent. For civilian noninstitutional population 16 years old and over. Annual averages of monthly figures. Based on Current Population Survey; see text, section 1 and Appendix III. Data from 1985 forward not strictly comparable with earlier years due to changes in industrial classification]

INDUSTRY	1970	1980	1985	1987	1988	1989			
						Total	Percent		
							Female	Black	Hispanic <sup>1</sup>
<b>Total employed</b>	<b>78,678</b>	<b>99,303</b>	<b>107,150</b>	<b>112,440</b>	<b>114,968</b>	<b>117,342</b>	<b>45.2</b>	<b>10.2</b>	<b>7.3</b>
Agriculture	3,463	3,364	3,179	3,208	3,169	3,199	21.5	4.7	13.8
Mining	516	979	939	818	753	719	16.3	4.1	5.4
Construction	4,818	6,215	6,987	7,456	7,603	7,680	8.9	6.7	8.0
Manufacturing	20,746	21,942	20,879	20,935	21,320	21,652	32.7	10.1	8.6
Transportation, communication, and other public utilities	5,320	6,525	7,548	7,880	8,064	8,094	28.3	14.1	6.4
Wholesale and retail trade	15,008	20,191	22,296	23,392	23,663	24,230	47.2	8.3	7.8
Wholesale trade	2,672	3,920	4,341	4,580	4,578	4,611	28.2	6.0	7.0
Retail trade	12,336	16,270	17,955	18,812	19,085	19,618	51.7	8.8	8.0
Finance, insurance, real estate	3,945	5,993	7,005	7,763	7,921	7,988	59.4	8.4	5.6
Banking and other finances	1,697	2,568	3,135	3,421	3,454	3,447	64.8	8.8	5.9
Insurance and real estate	2,248	3,425	3,870	4,342	4,466	4,542	55.3	8.0	5.3
Services <sup>2</sup>	20,385	28,752	33,322	35,743	37,043	38,227	61.7	11.6	6.5
Business services <sup>2</sup>	1,403	2,361	3,999	4,706	5,051	5,288	49.6	11.6	7.3
Advertising	147	191	263	293	288	282	47.9	3.8	3.6
Services to dwellings and buildings	(NA)	370	571	675	791	801	48.8	17.0	19.1
Personnel supply services	(NA)	235	590	640	736	786	75.0	21.3	6.9
Business management/consulting	(NA)	307	395	460	561	557	51.2	7.0	2.2
Computer and data processing	(NA)	221	549	663	713	797	36.6	8.7	4.0
Detective/protective services	(NA)	213	318	371	345	364	22.1	23.7	8.4
Automobile services	600	952	1,322	1,271	1,341	1,391	13.4	9.3	11.4
Personal services <sup>2</sup>	4,276	3,839	4,352	4,598	4,727	4,864	71.8	24.1	14.7
Private households	1,782	1,257	1,254	1,216	1,163	1,108	85.6	24.1	14.7
Hotels and lodging places	979	1,149	1,451	1,597	1,702	1,695	64.9	13.3	12.8
Entertainment and recreation	717	1,047	1,278	1,353	1,421	1,440	40.4	9.8	6.2
Professional and related services <sup>2</sup>	12,904	19,853	21,563	22,963	23,725	24,609	68.0	11.5	5.0
Hospitals	2,843	4,036	4,269	4,444	4,520	4,568	76.9	18.1	5.3
Health services, except hospitals	1,628	3,345	3,641	4,034	4,261	4,542	78.9	11.7	5.4
Elementary, secondary schools	6,126	5,550	5,431	5,550	5,757	5,970	72.3	12.0	5.2
Colleges and universities		2,108	2,281	2,378	2,425	2,514	51.7	9.2	4.0
Social services	828	1,590	1,682	1,948	2,042	2,110	78.1	16.3	6.2
Legal services	429	776	985	1,138	1,177	1,207	56.3	5.1	4.5
Public administration <sup>3</sup>	4,476	5,342	4,955	5,246	5,432	5,553	42.9	14.8	5.1

NA Not available. <sup>1</sup> Persons of Hispanic origin may be of any race. <sup>2</sup> Includes industries not shown separately.

<sup>3</sup> Includes workers involved in uniquely governmental activities, e.g., judicial and legislative.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, January issues.

## No. 658. Employment by Selected Industry, 1970 to 1988, and Projections, 2000

[In thousands, except percent. Figures may differ from those in other tables since these data exclude establishments not elsewhere classified (SIC 99); in addition, agriculture services (SIC 074, 5, 8) are included in agriculture, not services. See source for details. N.e.c. means not elsewhere classified. Minus sign (-) indicates decrease]

1972 SIC code	INDUSTRY	EMPLOYMENT				ANNUAL AVERAGE RATE OF CHANGE		
		1970	1980	1988	2000 <sup>2</sup>	1970- 1980	1980- 1988	1988- 2000 <sup>2</sup>
(X)	Total	81,664	102,019	118,104	136,211	2.3	1.8	1.2
(X)	Nonfarm wage and salary	70,725	90,043	104,960	122,056	2.4	1.9	1.3
(X)	Goods-producing (excluding agriculture)	23,578	25,659	25,252	25,680	0.8	-0.2	0.1
10-14	Mining	623	1,027	721	705	5.1	-4.3	-0.2
15-17	Construction	3,588	4,346	5,125	5,885	1.9	2.1	1.2
20-39	Manufacturing	19,367	20,286	19,408	19,090	0.5	-0.6	-0.1
24, 25, 32-39	Durable	11,210	12,188	11,436	11,220	0.8	0.8	-0.2
24	Lumber and wood products	646	691	765	740	0.7	1.3	-0.3
25	Furniture and fixtures	440	465	530	600	0.6	1.6	1.0
32	Stone, clay, and glass products	644	662	600	580	0.3	1.2	-0.3
33	Primary metal industries	1,260	1,142	772	700	-1.0	-4.8	-0.8
331	Blast furnaces/basic steel products	627	512	277	241	-2.0	-7.4	-1.2
34	Fabricated metal products	1,560	1,613	1,431	1,352	0.3	-1.5	-0.5
35	Machinery, except electrical	1,984	2,494	2,082	2,059	2.3	-2.2	-0.1
3573	Electronic computing equipment	194	354	418	453	6.2	2.1	0.7
36	Electrical and electronic equip	1,871	2,091	2,071	2,014	1.1	-0.1	-0.2
3662	Radio and TV equip.	362	378	456	463	0.4	2.4	0.1
3674	Semiconductors/related devices	(NA)	223	262	285	(NA)	2.0	0.7
37	Transportation equipment	1,852	1,900	2,050	2,002	0.3	1.0	-0.2
371	Motor vehicles	799	788	856	786	-0.1	1.0	-0.7
38	Instruments and related products	527	712	749	822	3.1	0.6	0.8
39	Miscellaneous manufacturing	426	418	386	350	-0.2	-1.0	-0.8
20-23, 26-31	Nondurable	8,157	8,098	7,970	7,870	-0.1	-0.2	0.1
20	Food and kindred products	1,786	1,708	1,636	1,563	-0.4	-0.5	-0.4
21	Tobacco manufactures	83	69	56	40	-1.8	-2.6	-2.8
22	Textile mill products	974	847	729	627	-1.4	-1.9	-1.2
23	Apparel and other textile products	1,364	1,264	1,093	920	-0.8	-1.8	-1.4
26	Paper and allied products	705	693	693	690	-0.2		
27	Printing and publishing	1,104	1,252	1,562	1,751	1.3	2.8	1.0
28	Chemicals and allied products	1,049	1,107	1,065	1,084	0.5	-0.5	0.1
29	Petroleum and coal products	192	198	162	140	0.3	-2.5	-1.2
30	Rubber and misc. plastics products	580	727	830	941	2.3	1.7	1.1
31	Leather and leather products	320	233	144	114	-3.1	-5.8	-1.9
(X)	Service-producing	47,147	64,384	79,708	96,376	3.2	2.7	1.6
40-42, 44-49	Transportation and public utilities	4,517	5,146	5,548	6,097	1.3	0.9	0.8
40-42, 44-47	Transportation	2,696	2,962	3,334	3,705	0.9	1.5	0.9
48	Communications	1,130	1,357	1,281	1,344	1.8	-0.7	0.4
49	Public utilities	691	827	933	1,048	1.8	1.5	1.0
50-51	Wholesale trade	3,993	5,275	6,029	6,936	2.8	1.7	1.2
52-59	Retail trade	11,048	15,035	19,110	22,875	3.1	3.0	1.5
58	Eating and drinking places	2,575	4,626	6,282	7,796	6.0	3.9	1.8
60-67	Finance, insurance, and real estate	3,646	5,159	6,677	7,762	3.5	3.3	1.3
70-86, 89	Services	11,390	17,528	24,971	33,717	4.4	4.5	2.5
70	Hotels and other lodging places	(NA)	1,076	1,550	1,960	(NA)	4.7	2.0
72	Personal services	989	901	1,174	1,418	-0.9	3.4	1.6
73	Business services	1,676	3,092	5,570	8,311	6.3	7.6	3.4
734	Services to dwellings and other buildings	295	495	785	1,028	5.3	5.9	2.3
736	Personnel supply services	(NA)	563	1,369	2,218	(NA)	11.7	4.1
737	Computer and data processing services	(NA)	304	678	1,200	(NA)	10.5	4.9
7391, 2, 7	Research, management, and consulting services	(NA)	539	811	1,190	(NA)	5.2	3.2
75	Auto repair, services, and garages	391	571	837	1,077	3.9	4.9	2.1
76	Miscellaneous repair services	189	289	347	389	4.3	2.3	1.0
78	Motion pictures	204	217	241	264	0.6	1.3	0.8
79	Amusement and recreation services	468	764	918	1,152	5.0	2.3	1.9
80	Health services	3,053	5,278	7,144	10,139	5.6	3.9	3.0
801-4	Offices of health practitioners	(NA)	1,211	1,850	2,810	(NA)	5.4	3.5
805	Nursing and personal care facilities	(NA)	997	1,319	1,907	(NA)	3.6	3.1
806	Hospitals, private	1,863	2,750	3,300	4,245	4.0	2.3	2.1
807-9	Outpatient facilities and health services, n.e.c.	(NA)	320	675	1,177	(NA)	9.8	4.7
81	Legal services	236	498	852	1,181	7.8	6.9	2.8
82	Educational services	940	1,138	1,557	1,780	1.9	4.0	1.1
83, 4, 6, 9	Social, membership and misc.	(NA)	3,704	4,781	6,046	(NA)	3.2	2.0
(X)	Government	12,553	16,241	17,373	18,989	2.6	0.8	0.7
(X)	Federal government	2,731	2,866	2,971	3,059	0.5	0.5	0.2
(X)	State and local government	9,822	13,375	14,402	15,930	3.1	0.9	0.8
01,2,7, 8,9	Agriculture	3,508	3,426	3,259	3,125	-0.2	-0.6	-0.3
88	Private households	1,794	1,256	1,163	1,103	3.5	-1.0	-0.4
(X)	Nonfarm self-employed and unpaid family workers	5,639	7,294	8,722	9,927	2.6	2.3	1.1

Represents or rounds to zero. NA Not available. X Not applicable. <sup>1</sup> 1972 Standard Industrial Classification; see text, section 13. <sup>2</sup> Based on assumptions of moderate growth; see source. <sup>3</sup> Includes other industries, not shown separately. Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, November 1989.

## No. 659. Unemployed Workers—Summary: 1980 to 1989

[In thousands, except as indicated. For civilian noninstitutional population 16 years old and over. Annual averages of monthly figures. For data on unemployment insurance, see table 602. See also *Historical Statistics, Colonial Times to 1970*, series D 87-101]

ITEM AND CHARACTERISTIC	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>UNEMPLOYED</b>									
<b>Total</b> <sup>1</sup>	<b>7,637</b>	<b>10,678</b>	<b>10,717</b>	<b>8,539</b>	<b>8,312</b>	<b>8,237</b>	<b>7,425</b>	<b>6,701</b>	<b>6,528</b>
Labor force time lost <sup>2</sup> (percent)	7.9	11.0	10.9	8.6	8.1	7.9	7.1	6.3	5.9
16-19 years old	1,669	1,977	1,829	1,499	1,468	1,454	1,347	1,226	1,194
20-24 years old	1,835	2,392	2,330	1,838	1,738	1,651	1,453	1,261	1,218
25-44 years old	2,964	4,589	4,728	3,709	3,681	3,761	3,410	3,095	3,010
45-64 years old	1,075	1,613	1,716	1,394	1,331	1,279	1,135	1,032	1,016
65 years and over	94	107	114	97	93	91	78	87	91
<b>Male</b>	<b>4,267</b>	<b>6,179</b>	<b>6,260</b>	<b>4,744</b>	<b>4,521</b>	<b>4,530</b>	<b>4,101</b>	<b>3,655</b>	<b>3,525</b>
16-19 years old	913	1,090	1,003	812	806	779	732	667	658
20-24 years old	1,076	1,407	1,369	1,023	944	899	779	676	660
25-44 years old	1,619	2,670	2,769	2,050	1,950	2,054	1,858	1,657	1,572
45-64 years old	600	943	1,046	806	766	741	684	606	585
65 years and over	58	69	73	53	55	58	49	49	49
<b>Female</b>	<b>3,370</b>	<b>4,499</b>	<b>4,457</b>	<b>3,794</b>	<b>3,791</b>	<b>3,707</b>	<b>3,324</b>	<b>3,046</b>	<b>3,003</b>
16-19 years old	755	886	825	687	661	675	616	558	536
20-24 years old	760	985	961	815	794	752	674	585	558
25-44 years old	1,345	1,919	1,958	1,659	1,732	1,708	1,552	1,439	1,437
45-64 years old	473	670	671	589	566	539	453	427	430
65 years and over	36	38	41	45	39	33	30	38	41
<b>White</b> <sup>3</sup>	<b>5,884</b>	<b>8,241</b>	<b>8,128</b>	<b>6,372</b>	<b>6,191</b>	<b>6,140</b>	<b>5,501</b>	<b>4,944</b>	<b>4,770</b>
16-19 years old	1,291	1,534	1,387	1,116	1,074	1,070	995	910	863
20-24 years old	1,364	1,770	1,678	1,282	1,235	1,149	1,017	874	856
<b>Black</b> <sup>3</sup>	<b>1,553</b>	<b>2,142</b>	<b>2,272</b>	<b>1,914</b>	<b>1,864</b>	<b>1,840</b>	<b>1,684</b>	<b>1,547</b>	<b>1,544</b>
16-19 years old	343	396	392	353	357	347	312	288	300
20-24 years old	426	565	591	504	455	453	397	349	322
<b>Hispanic</b> <sup>3,4</sup>	<b>620</b>	<b>929</b>	<b>961</b>	<b>800</b>	<b>811</b>	<b>857</b>	<b>751</b>	<b>732</b>	<b>750</b>
16-19 years old	145	175	167	149	141	141	136	148	132
20-24 years old	138	221	214	164	171	183	152	145	158
Full-time workers	6,269	9,006	9,075	7,057	6,793	6,708	5,979	5,357	5,211
Part-time workers	1,369	1,672	1,642	1,481	1,519	1,529	1,446	1,343	1,317
<b>UNEMPLOYMENT RATE (percent)<sup>5</sup></b>									
<b>Total</b> <sup>1</sup>	<b>7.1</b>	<b>9.7</b>	<b>9.6</b>	<b>7.5</b>	<b>7.2</b>	<b>7.0</b>	<b>6.2</b>	<b>5.5</b>	<b>5.3</b>
16-19 years old	17.8	23.2	22.4	18.9	18.6	18.3	16.9	15.3	15.0
20-24 years old	11.5	14.9	14.5	11.5	11.1	10.7	9.7	8.7	8.6
25-44 years old	6.0	8.6	8.5	6.4	6.2	6.1	5.4	4.8	4.5
45-64 years old	3.7	5.6	5.9	4.8	4.5	4.3	3.8	3.3	3.2
65 years and over	3.1	3.5	3.7	3.3	3.2	3.0	2.5	2.7	2.6
<b>Male</b>	<b>6.9</b>	<b>9.9</b>	<b>9.9</b>	<b>7.4</b>	<b>7.0</b>	<b>6.9</b>	<b>6.2</b>	<b>5.5</b>	<b>5.2</b>
16-19 years old	18.3	24.4	23.3	19.6	19.5	19.0	17.8	16.0	15.9
20-24 years old	12.5	16.4	15.9	11.9	11.4	11.0	9.9	8.9	8.8
25-44 years old	5.6	8.7	8.8	6.3	5.9	6.0	5.3	4.6	4.3
45-64 years old	3.5	5.6	6.2	4.8	4.5	4.4	4.0	3.5	3.3
65 years and over	3.1	3.7	3.9	3.0	3.1	3.2	2.6	2.5	2.4
<b>Female</b>	<b>7.4</b>	<b>9.4</b>	<b>9.2</b>	<b>7.6</b>	<b>7.4</b>	<b>7.1</b>	<b>6.2</b>	<b>5.6</b>	<b>5.4</b>
16-19 years old	17.2	21.9	21.3	18.0	17.6	17.6	15.9	14.4	14.0
20-24 years old	10.4	13.2	12.9	10.9	10.7	10.3	9.4	8.5	8.3
25-44 years old	6.4	8.3	8.2	6.6	6.6	6.2	5.5	4.9	4.8
45-64 years old	4.0	5.6	5.6	4.9	4.6	4.2	3.5	3.2	3.1
65 years and over	3.1	3.2	3.4	3.8	3.3	2.8	2.4	2.9	2.9
<b>White</b> <sup>3</sup>	<b>6.3</b>	<b>8.6</b>	<b>8.4</b>	<b>6.5</b>	<b>6.2</b>	<b>6.0</b>	<b>5.3</b>	<b>4.7</b>	<b>4.5</b>
16-19 years old	15.5	20.4	19.3	16.0	15.7	15.6	14.4	13.1	12.7
20-24 years old	9.9	12.8	12.1	9.3	9.2	8.7	8.0	7.1	7.2
<b>Black</b> <sup>3</sup>	<b>14.3</b>	<b>18.9</b>	<b>19.5</b>	<b>15.9</b>	<b>15.1</b>	<b>14.5</b>	<b>13.0</b>	<b>11.7</b>	<b>11.4</b>
16-19 years old	38.5	48.0	48.5	42.7	40.2	39.3	34.7	32.4	32.4
20-24 years old	23.6	30.5	31.4	26.1	24.5	24.1	21.8	19.6	18.0
<b>Hispanic</b> <sup>3,4</sup>	<b>10.1</b>	<b>13.8</b>	<b>13.7</b>	<b>10.7</b>	<b>10.5</b>	<b>10.6</b>	<b>8.8</b>	<b>8.2</b>	<b>8.0</b>
16-19 years old	22.5	29.9	28.4	24.1	24.3	24.7	22.3	22.0	19.4
20-24 years old	12.1	17.7	16.7	12.4	12.6	12.9	10.6	9.8	10.7
Experienced workers <sup>6</sup>	6.9	9.3	9.2	7.1	6.8	6.6	5.8	5.2	5.0
Women maintaining families <sup>1</sup>	9.2	11.7	12.3	10.4	10.5	9.9	9.3	8.2	8.1
White	7.3	9.4	9.2	7.8	8.1	7.8	6.8	6.0	6.1
Black	14.0	18.0	20.2	16.7	16.4	15.4	15.4	13.7	13.0
Married men, wife present <sup>1</sup>	4.2	6.5	6.5	4.6	4.3	4.4	3.9	3.3	3.0
White	3.9	6.0	6.0	4.3	4.0	4.0	3.6	3.0	2.8
Black	7.4	11.5	11.3	8.1	8.0	8.0	6.5	5.8	5.8
<b>Percent without work for—</b>									
Less than 5 weeks	43.1	36.4	33.3	39.2	42.1	41.9	43.7	46.0	48.6
5-10 weeks	23.4	21.7	19.4	20.6	22.2	22.6	21.6	22.2	22.2
11-14 weeks	9.0	9.4	8.0	8.1	8.0	8.4	7.9	7.8	8.1
15-26 weeks	13.8	16.0	15.4	12.9	12.3	12.7	12.7	12.0	11.2
27 weeks and over	10.7	16.6	23.9	19.1	15.4	14.4	14.0	12.1	9.9
Unemployment duration, average (weeks)	11.9	15.6	20.0	18.2	15.6	15.0	14.5	13.5	11.9

<sup>1</sup> Includes other races, not shown separately. <sup>2</sup> Aggregate hours lost by the unemployed and persons on part-time for economic reasons as a percent of potentially available labor force hours. <sup>3</sup> Includes other ages, not shown separately. <sup>4</sup> Persons of Hispanic origin may be of any race. <sup>5</sup> Unemployed as percent of civilian labor force in specified group. <sup>6</sup> Wage and salary workers.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly; and unpublished data.

**No. 660. Unemployed Persons, by Sex and Reason, 1970 to 1989, and by Duration, 1989**

[In thousands, except as indicated. For civilian noninstitutional population 16 years old and over. Annual averages of monthly figures. Based on Current Population Survey; see text, section 1 and Appendix III]

SEX AND REASON UNEMPLOYED	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989	1989			
											Total	Duration of unemployment (percent)		
												Less than 5 weeks	5 to 14 weeks	15 weeks or more
Male.....	2,238	4,442	4,267	6,260	4,744	4,521	4,530	4,101	3,655	3,525	44.7	30.5	24.8	
Job losers.....	1,199	2,909	2,649	4,331	2,976	2,749	2,725	2,432	2,078	1,975	39.3	31.6	29.2	
Job leavers.....	282	375	438	386	375	409	520	494	503	495	51.1	29.7	19.4	
Reentrants.....	533	782	776	953	867	876	805	761	697	726	50.4	28.8	20.7	
New entrants.....	224	377	405	589	526	487	480	413	376	328	54.6	29.3	16.2	
Female.....	1,855	3,486	3,370	4,457	3,794	3,791	3,707	3,324	3,046	3,003	53.3	30.1	16.7	
Job losers.....	614	1,478	1,297	1,926	1,445	1,390	1,308	1,134	1,014	1,008	42.4	34.3	23.2	
Job leavers.....	267	452	454	444	449	468	494	471	479	529	58.2	28.7	13.0	
Reentrants.....	696	1,110	1,151	1,459	1,317	1,380	1,355	1,213	1,112	1,117	58.2	28.1	13.7	
New entrants.....	279	447	468	627	584	552	549	506	440	349	61.3	26.1	12.6	

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly, Bulletin 2307, and unpublished data.

**No. 661. Unemployment Rates, by Educational Attainment, Sex, and Race: 1970 to 1989**

[In percent. As of March. Civilian noninstitutional population 25 to 64 years of age. Based on Current Population Survey; see text, section 1 and Appendix III]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Total</b> .....	<b>3.3</b>	<b>6.9</b>	<b>4.4</b>	<b>5.0</b>	<b>5.8</b>	<b>7.6</b>	<b>8.0</b>	<b>6.6</b>	<b>6.1</b>	<b>6.1</b>	<b>5.7</b>	<b>4.7</b>	<b>4.4</b>
Less than 4 years of high school <sup>1</sup> .....	4.6	10.7	7.2	8.4	10.1	12.5	15.8	12.1	11.4	11.6	11.1	9.6	9.1
4 years of high school, only.....	2.9	6.9	4.4	5.1	6.2	8.5	10.0	7.2	6.9	6.9	6.3	5.4	4.8
College: 1-3 years.....	2.9	5.5	3.5	4.3	4.5	6.4	7.3	5.3	4.7	4.7	4.5	3.7	3.4
4 years or more.....	1.3	2.5	2.1	1.9	2.2	3.0	3.5	2.7	2.4	2.3	2.3	1.7	2.2
<b>Male: Total</b> .....	<b>2.9</b>	<b>6.7</b>	<b>4.0</b>	<b>4.9</b>	<b>5.8</b>	<b>7.9</b>	<b>9.8</b>	<b>6.9</b>	<b>6.1</b>	<b>6.2</b>	<b>6.0</b>	<b>5.1</b>	<b>4.7</b>
Less than 4 years of high school <sup>1</sup> .....	4.0	10.5	6.6	8.2	10.2	12.7	16.1	12.3	11.2	11.7	11.2	10.1	9.7
4 years of high school, only.....	2.4	6.7	4.2	5.3	6.6	9.3	11.9	8.1	7.2	7.4	6.7	6.2	5.4
College: 1-3 years.....	2.7	5.1	3.2	4.4	4.4	6.8	8.4	5.2	4.5	4.7	5.0	3.9	3.2
4 years or more.....	1.1	2.2	1.7	1.7	1.9	2.9	3.4	2.7	2.4	2.3	2.5	1.6	2.3
<b>Female: Total</b> .....	<b>4.0</b>	<b>7.4</b>	<b>4.9</b>	<b>5.0</b>	<b>5.7</b>	<b>7.2</b>	<b>7.9</b>	<b>6.1</b>	<b>6.0</b>	<b>5.8</b>	<b>5.2</b>	<b>4.2</b>	<b>4.0</b>
Less than 4 years of high school <sup>1</sup> .....	5.7	10.5	8.3	8.9	10.0	12.2	15.3	11.7	11.7	11.4	10.9	8.9	8.4
4 years of high school, only.....	3.6	7.1	4.7	5.0	5.8	7.8	8.0	6.3	6.5	6.3	5.8	4.6	4.2
College: 1-3 years.....	3.1	6.3	3.8	4.1	4.6	5.3	6.0	5.3	4.8	4.8	4.0	3.4	3.7
4 years or more.....	1.9	3.4	2.8	2.2	2.7	3.3	3.7	2.7	2.5	2.4	2.1	1.9	2.0
<b>White: Total</b> .....	<b>3.1</b>	<b>6.5</b>	<b>3.9</b>	<b>4.4</b>	<b>5.1</b>	<b>6.8</b>	<b>8.0</b>	<b>5.7</b>	<b>5.3</b>	<b>5.5</b>	<b>5.0</b>	<b>4.0</b>	<b>3.8</b>
Less than 4 years of high school <sup>1</sup> .....	4.5	10.1	6.5	7.8	9.2	12.2	15.0	10.9	10.6	10.9	10.2	8.3	7.4
4 years of high school, only.....	2.7	6.5	3.9	4.6	5.6	7.6	8.9	6.4	6.1	6.2	5.5	4.6	4.2
College: 1-3 years.....	2.8	5.1	3.1	3.9	4.0	5.4	6.5	4.6	3.9	4.2	4.1	3.2	3.0
4 years or more.....	1.3	2.4	2.0	1.8	2.1	2.8	3.1	2.4	2.1	2.2	2.2	1.5	2.0
<b>Black: Total</b> .....	<b>4.7</b>	<b>10.9</b>	<b>8.8</b>	<b>9.6</b>	<b>11.4</b>	<b>13.9</b>	<b>16.8</b>	<b>13.3</b>	<b>12.0</b>	<b>10.7</b>	<b>10.6</b>	<b>10.0</b>	<b>9.2</b>
Less than 4 years of high school <sup>1</sup> .....	5.2	13.5	10.6	11.7	14.3	14.4	19.9	17.4	15.3	15.3	14.8	15.7	15.9
4 years of high school, only.....	5.2	10.7	9.3	9.5	11.8	16.4	18.9	14.5	13.0	11.7	11.7	11.2	9.2
College: 1-3 years.....	3.5	9.8	6.7	9.0	9.5	12.5	13.3	9.7	10.6	8.7	7.6	7.4	6.9
4 years or more.....	0.9	3.9	3.9	4.0	4.0	7.1	8.1	6.2	5.4	3.2	4.2	3.3	4.7

<sup>1</sup> Includes persons reporting no school years completed. <sup>2</sup> For 1970 and 1975, data refer to Black and other workers.

Source: U.S. Bureau of Labor Statistics, Bulletin 2307 and unpublished data.

**No. 662. Unemployment Rates, by Industry, 1975 to 1989, and by Sex, 1980 and 1989**

[In percent. For civilian noninstitutional population 16 years old and over. Annual averages of monthly figures. Rate represents unemployment as a percent of labor force in each specified group. Beginning 1985, data not strictly comparable with earlier years due to changes in industrial classification]

INDUSTRY	1975	1980	1985	1986	1987	1988	1989	MALE		FEMALE	
								1980	1989	1980	1989
<b>All unemployed<sup>1</sup></b> .....	<b>8.5</b>	<b>7.1</b>	<b>7.2</b>	<b>7.0</b>	<b>6.2</b>	<b>5.5</b>	<b>5.3</b>	<b>6.9</b>	<b>5.2</b>	<b>7.4</b>	<b>5.4</b>
<b>Industry:<sup>2</sup></b> .....											
Agriculture.....	10.3	11.0	13.2	12.5	10.5	10.6	9.6	9.7	9.1	15.1	11.0
Mining.....	4.1	6.4	9.5	13.5	10.0	7.9	5.8	6.8	6.2	4.5	3.9
Construction.....	18.0	14.1	13.1	13.1	11.6	10.6	10.0	14.7	10.3	8.8	6.9
Manufacturing.....	10.9	8.5	7.7	7.1	6.0	5.3	5.1	7.4	4.4	10.7	6.6
Transportation and public utilities.....	5.6	4.9	5.1	5.1	4.5	3.9	3.9	5.1	3.9	4.4	3.8
Wholesale and retail trade.....	8.7	7.4	7.6	7.6	6.9	6.2	6.0	6.6	5.2	8.3	6.8
Finance, insurance, and real estate.....	4.9	3.4	3.5	3.5	3.1	3.0	3.1	3.2	2.9	3.5	3.2
Services.....	7.1	5.9	6.2	6.1	5.4	4.9	4.8	6.2	4.9	5.7	4.7
Government.....	4.1	4.1	3.9	3.6	3.5	2.8	2.7	3.8	2.9	4.3	2.6

<sup>1</sup> Includes the self-employed, unpaid family workers, and persons with no previous work experience, not shown separately.

<sup>2</sup> Covers unemployed wage and salary workers.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

### No. 663. Unemployment and Unemployment Rates by Occupation, 1983 to 1989, and by Sex, 1989

[For civilian noninstitutional population 16 years old and over. Beginning 1985, annual averages of monthly data; 1983 data estimated, see text, section 13. Rate represents unemployment as a percent of the labor force for each specified group. Based on Current Population Survey; see text, section 1, and Appendix III]

OCCUPATION	NUMBER (1,000)			UNEMPLOYMENT RATE				
	1983	1985	1989	1983	1985	1989		
						Total	Male	Female
<b>Total</b> <sup>1</sup>	<b>10,717</b>	<b>8,312</b>	<b>6,528</b>	<b>9.6</b>	<b>7.2</b>	<b>5.3</b>	<b>5.2</b>	<b>5.4</b>
Managerial and professional specialty	795	645	614	3.3	2.4	2.0	1.7	2.3
Executive, administrative, and managerial	396	329	348	3.5	2.6	2.3	2.0	2.8
Professional specialty	399	316	265	3.0	2.3	1.7	1.4	1.9
Technical sales, and administrative support	2,116	1,694	1,470	6.3	4.9	3.9	3.3	4.3
Technicians and related support	152	110	90	4.7	3.3	2.4	2.4	2.4
Sales occupations	850	702	643	6.7	5.3	4.4	3.0	5.7
Administrative support, including clerical	1,114	882	738	6.4	4.9	3.9	4.2	3.8
Service occupations	1,697	1,386	1,088	10.9	8.8	6.5	6.5	6.6
Private household	79	69	55	7.4	6.4	5.9	10.5	5.7
Protective service	120	85	74	6.7	4.7	3.6	3.1	6.1
Service except private household and protective	1,498	1,233	960	11.8	9.5	7.0	7.7	6.7
Precision production, craft, and repair	1,466	1,038	762	10.6	7.2	5.2	5.2	5.7
Mechanics and repairs	344	225	161	7.6	4.8	3.4	3.3	5.6
Construction trades	709	531	428	14.2	10.1	7.7	7.6	11.4
Other precision production, craft, and repair	412	281	173	9.6	6.4	4.0	3.7	5.0
Operators, fabricators, and laborers	2,955	2,140	1,578	15.5	11.3	8.0	7.7	9.1
Machine operators, assemblers, inspectors	1,411	980	678	15.4	11.1	7.6	6.3	9.4
Transportation and material moving occupations	596	422	306	12.4	8.5	5.9	5.9	5.7
Handlers, equipment cleaners, helpers, laborers	948	739	594	18.6	14.3	10.8	11.1	9.8
Construction laborers	207	186	152	25.8	21.3	16.8	16.7	(B)
Farming, forestry, and fishing	407	315	234	9.9	8.3	6.4	6.2	7.4

B Base is less than 35,000. <sup>1</sup> Includes persons with no previous work experience and those whose last job was in the Armed Forces.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

### No. 664. Range of Unemployment Measures Based on Varying Definitions of Unemployment and the Labor Force: 1970 to 1989

[In percent. Annual averages of monthly figures. Based on Current Population Survey, see text, section 1, and Appendix III]

MEASURE	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989
Persons unemployed 15 weeks or longer as a percent of the civilian labor force	0.8	2.7	1.7	3.2	3.8	2.4	2.0	1.9	1.7	1.3	1.1
Job losers as a percent of the civilian labor force	2.2	4.7	3.7	5.7	5.6	3.9	3.6	3.4	3.0	2.5	2.4
Unemployed persons 25 years and over as a percent of the 25 and over civilian labor force	3.3	6.0	5.1	7.4	7.5	5.8	5.6	5.4	4.8	4.3	4.0
Unemployed full-time jobseekers as a percent of the full-time civilian labor force	4.5	8.1	6.9	9.6	9.5	7.2	6.8	6.6	5.8	5.2	4.9
Total unemployed as a percent of the labor force, including the resident Armed Forces <sup>1</sup>	4.8	8.3	7.0	9.5	9.5	7.4	7.1	6.9	6.1	5.4	5.2
Total unemployed as a percent of the civilian labor force	4.9	8.5	7.1	9.7	9.6	7.5	7.2	7.0	6.2	5.5	5.3
Total full-time jobseekers plus 1/2 part-time jobseekers plus 1/2 total on part-time for economic reasons as a percent of the civilian labor force less 1/2 of the part-time labor force	6.3	10.5	9.2	12.6	12.6	10.1	9.6	9.4	8.5	7.6	7.2
Total full-time jobseekers plus 1/2 part-time jobseekers plus 1/2 total on part-time for economic reasons plus discouraged workers as a percent of the civilian labor force plus discouraged workers less 1/2 of the part-time labor force	7.1	11.6	10.1	14.0	13.9	11.2	10.6	10.3	9.3	8.4	7.9

<sup>1</sup> Current unemployment rate definition.

Source: U.S. Bureau of Labor Statistics, Bulletin 2307; *Employment and Earnings*, monthly, and unpublished data.



**No. 665. Total Unemployed and Insured Unemployed—States: 1980 to 1989**

[For civilian noninstitutional population 16 years old and over. Annual averages of monthly figures. Total unemployment estimates based on the Current Population Survey (CPS); see text, section 1, and Appendix III. U.S. totals derived by independent population controls; therefore State data may not add to U.S. totals]

DIVISION AND STATE	TOTAL UNEMPLOYED										INSURED UNEMPLOYED <sup>2</sup>			
	Number (1,000)					Percent <sup>1</sup>					Number (1,000)		Percent <sup>3</sup>	
	1980	1985	1987	1988	1989	1980	1985	1987	1988	1989	1988	1989	1988	1989
U.S. ....	7,837	8,312	7,425	6,701	6,528	7.1	7.2	6.2	5.5	5.3	<sup>4</sup> 2,081	<sup>4</sup> 2,157	<sup>4</sup> 2.0	<sup>4</sup> 2.1
N. Eng.: ME. ....	39	30	28	22	25	7.8	5.4	4.4	3.8	4.1	8.9	11.5	1.8	2.2
NH. ....	22	21	15	15	21	4.7	3.9	2.5	2.4	3.5	2.7	5.3	0.5	1.0
VT. ....	16	13	11	8	11	6.4	4.8	3.6	2.8	3.7	4.1	5.0	1.7	2.0
MA. ....	162	121	99	103	127	5.6	3.9	3.2	3.3	4.0	57.9	84.4	1.9	2.8
RI. ....	34	25	20	16	21	7.2	4.9	3.8	3.1	4.1	11.5	14.1	2.6	3.1
CT. ....	94	83	58	52	64	5.9	4.9	3.3	3.0	3.7	20.8	28.6	1.3	1.7
Mid. Atl.: NY. ....	597	544	412	358	442	7.5	6.5	4.9	4.2	5.1	161.8	180.1	2.0	2.3
NJ. ....	259	218	160	151	163	7.2	5.7	4.0	3.8	4.1	70.5	81.4	2.0	2.3
PA. ....	425	442	320	294	264	7.8	8.0	5.7	5.1	4.5	118.5	126.9	2.5	2.6
E. No. Cent.: OH. ....	426	455	367	320	300	8.4	8.9	7.0	6.0	5.5	89.4	86.0	2.0	1.9
IN. ....	252	215	175	150	136	9.6	7.9	6.4	5.3	4.7	29.3	29.3	1.3	1.3
IL. ....	458	513	423	392	359	8.3	9.0	7.4	6.8	6.0	104.2	104.6	2.1	2.1
MI. ....	534	433	369	348	326	12.4	9.9	8.2	7.6	7.1	116.5	109.4	3.2	3.0
WI. ....	167	171	122	110	114	7.2	7.2	6.1	4.3	4.4	43.6	46.1	2.1	2.2
W. No. Cent.: MN. ....	125	133	122	94	102	5.9	6.0	5.4	4.0	4.3	35.7	37.1	1.9	1.9
IA. ....	82	113	80	67	65	5.8	8.0	5.5	4.5	4.3	17.7	17.8	1.6	1.6
MO. ....	167	159	164	148	143	7.2	6.4	6.3	5.7	5.5	44.7	46.1	2.1	2.1
ND. ....	15	20	17	16	14	5.0	5.9	5.2	4.8	4.3	5.0	4.5	2.2	2.0
SD. ....	16	18	15	14	15	4.9	5.1	4.2	3.9	4.2	3.0	2.6	1.2	1.1
NE. ....	31	44	40	29	25	4.1	5.5	4.9	3.6	3.1	8.4	7.5	1.3	1.1
KS. ....	53	62	62	61	52	4.5	5.0	4.9	4.8	4.0	19.5	19.8	2.0	2.0
So. Atl.: DE. ....	22	17	10	11	13	7.7	5.3	3.2	3.2	3.5	4.3	4.0	1.3	1.2
MD. ....	140	103	102	110	93	6.5	4.6	4.2	4.5	3.7	27.0	28.9	1.4	1.5
DC. ....	24	27	21	17	16	7.3	8.4	6.3	5.0	5.0	7.5	7.4	1.7	1.7
VA. ....	128	161	126	120	123	5.0	5.6	4.2	3.9	3.9	22.5	21.7	0.9	0.8
WV. ....	74	100	81	74	66	9.4	13.0	10.8	9.9	8.6	16.9	16.1	3.0	2.8
NC. ....	167	167	146	121	119	6.6	5.4	4.5	3.6	3.5	38.7	41.2	1.3	1.4
SC. ....	96	107	91	76	80	6.9	6.8	5.6	4.5	4.7	20.6	22.9	1.5	1.6
GA. ....	163	187	167	185	177	6.4	6.5	5.5	5.8	5.5	36.0	39.4	1.3	1.4
FL. ....	251	319	312	305	348	5.9	6.0	5.3	5.0	5.6	51.0	58.1	1.0	1.1
E. So. Cent.: KY. ....	133	161	148	134	108	8.0	9.5	8.8	7.9	6.2	27.9	27.4	2.2	2.1
TN. ....	152	180	154	136	121	7.3	8.0	6.6	5.8	5.1	39.5	41.5	2.0	2.0
AL. ....	147	160	147	136	134	8.8	8.9	7.8	7.2	7.0	31.3	32.2	2.1	2.2
MS. ....	79	115	117	96	91	7.5	10.3	10.2	8.4	7.8	21.8	21.9	2.6	2.5
W. So. Cent.: AR. ....	76	91	88	86	82	7.6	8.7	8.1	7.7	7.2	25.0	24.7	3.0	2.9
LA. ....	121	229	234	209	151	6.7	11.5	12.0	10.9	7.9	42.4	36.3	3.0	2.5
OK. ....	66	112	115	102	85	4.8	7.1	7.4	6.7	5.6	19.6	17.0	1.8	1.6
TX. ....	352	564	697	606	567	5.2	7.0	8.4	7.3	6.7	111.8	107.1	1.8	1.7
Mt.: MT. ....	23	31	30	27	24	6.1	7.7	7.4	6.8	5.9	7.5	7.1	2.9	2.7
ID. ....	34	37	38	28	25	7.9	7.9	8.0	5.8	5.1	11.3	10.8	3.4	3.2
WY. ....	9	18	21	15	15	4.0	7.1	8.6	6.3	6.3	3.9	3.5	2.3	2.0
CO. ....	88	101	130	109	98	5.9	5.9	7.7	6.4	5.8	26.5	22.9	1.9	1.7
NM. ....	42	57	61	54	46	7.5	8.8	8.9	7.8	6.7	11.6	10.9	2.3	2.2
AZ. ....	83	96	101	104	89	6.7	6.5	6.2	6.3	5.2	22.9	23.8	1.7	1.7
UT. ....	40	43	48	37	37	6.3	5.9	6.4	4.9	4.6	9.5	8.2	1.6	1.3
NV. ....	27	41	35	30	30	6.2	8.0	6.3	5.2	5.0	9.4	9.2	1.8	1.7
Pac.: WA. ....	157	171	171	141	151	7.9	8.1	7.6	6.2	6.2	60.4	58.5	3.3	3.1
OR. ....	108	117	86	82	84	8.3	8.8	8.2	5.8	5.7	31.4	31.9	2.9	2.8
CA. ....	790	931	792	743	737	6.8	7.2	5.8	5.3	5.1	318.2	321.1	2.6	2.6
AK. ....	18	24	27	23	17	9.7	9.7	10.8	9.3	6.7	10.5	9.1	5.5	4.6
HI. ....	21	27	20	16	13	4.9	5.6	3.8	3.2	2.6	6.5	5.1	1.4	1.1

<sup>1</sup> Total unemployment as percent of civilian labor force. <sup>2</sup> Source: U.S. Employment and Training Administration, *Unemployment Insurance, Financial Data*, annual updates. <sup>3</sup> Insured unemployment as percent of average covered employment in the previous year. <sup>4</sup> Includes 32,062 in Puerto Rico and 494 in the Virgin Islands in 1988 and 38,846 in Puerto Rico and 353 in the Virgin Islands in 1989.

Source: Except as noted, U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment*, annual.

**No. 666. U.S. Employment Service Job Openings and Placements, and Index of Help-Wanted Advertising: 1970 to 1989**

[In thousands, except as indicated. Openings 1970-1983, for years ending Sept. 30; beginning 1985, for years ending June 30]

ITEM	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
Job openings: <sup>1</sup> Received. ....	6,130	8,122	6,150	6,494	<sup>2</sup> 5,144	7,529	6,950	6,968	7,240	6,998
Average per month. ....	511	677	513	541	<sup>2</sup> 572	627	579	581	603	583
Index of help-wanted advertising in newspapers <sup>3</sup> (1967=100) . . .	93	128	86	95	130	138	138	153	157	150

<sup>1</sup> As reported by State employment agencies. Beginning 1985, all placements. <sup>2</sup> Data for nine months from October 1, 1983 through June 30, 1984. <sup>3</sup> Source: The Conference Board, New York, NY, *The Statistical Bulletin*. Further reproduction prohibited without permission. Index based on number of advertisements in classified sections of 51 newspapers, each in a major employment area.

Source: Except as noted, U.S. Employment and Training Administration, unpublished data.

### No. 667. Nonfarm Establishments, Employees, Hours, and Earnings, by Industry: 1960 to 1990

[Based on data from establishment reports. Includes all full- and part-time employees who worked during, or received pay for, any part of the pay period reported. Excludes proprietors, the self-employed, farmworkers, unpaid family workers, private household workers, and Armed Forces. Establishment data shown here conform to industry definitions in the 1987 Standard Industrial Classification Manual and are adjusted to March 1989 employment benchmarks; consequently, may not be comparable with previously published data. Based on the Current Employment Statistics Program; see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series D 127-141 and D 803, 878, 881, 884, and 890.]

ITEM AND YEAR	Total	GOODS-PRODUCING				SERVICE-PRODUCING						
		Total	Mining	Con- struc- tion	Manu- factur- ing	Total	Trans- portation and public utilities	Whole- sale trade	Retail trade	Finance, insur- ance, and real estate	Services	Govern- ment
EMPLOYEES (1,000)												
1960	54,189	20,434	712	2,926	16,796	33,755	4,004	3,153	8,238	2,628	7,378	8,353
1965	60,765	21,926	632	3,232	18,062	38,839	4,036	3,477	9,239	2,977	9,036	10,074
1970	70,880	23,578	623	3,588	19,367	47,302	4,515	4,006	11,034	3,645	11,548	12,554
1975	76,945	22,600	752	3,525	18,323	54,345	4,542	4,430	12,630	4,165	13,892	14,686
1980	90,406	25,658	1,027	4,346	20,285	64,748	5,146	5,292	15,018	5,160	17,890	16,241
1984	94,496	24,727	966	4,383	19,378	69,769	5,159	5,574	16,526	5,689	20,797	16,024
1985	97,519	24,859	927	4,673	19,260	72,660	5,238	5,736	17,336	5,955	21,999	16,394
1986	99,525	24,558	777	4,816	18,965	74,967	5,255	5,774	17,909	6,283	23,053	16,693
1987	102,200	24,708	717	4,967	19,024	77,492	5,372	5,865	18,462	6,547	24,235	17,010
1988	105,536	25,173	713	5,110	19,350	80,363	5,527	6,055	19,077	6,649	25,669	17,386
1989	108,413	25,326	700	5,200	19,426	83,087	5,648	6,271	19,580	6,724	27,096	17,769
1990	110,321	25,001	735	5,204	19,062	85,320	5,839	6,361	19,788	6,832	28,209	18,291
PERCENT DISTRIBUTION												
1960	100.0	37.7	1.3	5.4	31.0	62.3	7.4	5.8	15.2	4.8	13.6	15.4
1965	100.0	36.1	1.0	5.3	29.7	63.9	6.6	5.7	15.2	4.9	14.9	16.6
1970	100.0	33.3	0.9	5.1	27.3	66.7	6.4	5.7	15.6	5.1	16.3	17.7
1975	100.0	29.4	1.0	4.6	23.8	70.6	5.9	5.8	16.4	5.4	18.1	19.1
1980	100.0	28.4	1.1	4.8	22.4	71.6	5.7	5.9	16.6	5.7	19.8	18.0
1984	100.0	26.2	1.0	4.6	20.5	73.8	5.5	5.9	17.5	6.1	22.6	16.8
1985	100.0	25.5	1.0	4.8	19.7	74.5	5.4	5.9	17.8	6.3	23.2	16.8
1986	100.0	24.7	0.8	4.8	19.1	75.3	5.3	5.8	18.0	6.3	23.2	16.8
1987	100.0	24.2	0.7	4.9	18.6	75.8	5.3	5.7	18.1	6.4	23.7	16.6
1988	100.0	23.9	0.7	4.8	18.3	76.1	5.2	5.7	18.1	6.3	24.3	16.5
1989	100.0	23.4	0.6	4.8	17.9	76.6	5.2	5.8	18.1	6.2	25.0	16.4
1990	100.0	22.7	0.7	4.7	17.3	77.3	5.4	5.8	17.9	6.2	25.6	16.6
WEEKLY HOURS <sup>1</sup>												
1960	38.6	(NA)	40.4	36.7	39.7	(NA)	(NA)	40.5	38.0	37.2	(NA)	(NA)
1965	38.8	(NA)	42.3	37.4	41.2	(NA)	41.3	40.8	36.6	37.2	35.9	(NA)
1970	37.1	(NA)	42.7	37.3	39.8	(NA)	40.5	39.9	33.8	36.7	34.4	(NA)
1975	36.1	(NA)	41.9	36.4	39.5	(NA)	39.7	38.6	32.4	36.5	33.5	(NA)
1980	35.3	(NA)	43.3	37.0	39.7	(NA)	39.6	38.4	30.2	36.2	32.6	(NA)
1984	35.2	(NA)	43.3	37.8	40.7	(NA)	39.4	38.5	29.8	36.5	32.6	(NA)
1985	34.9	(NA)	43.4	37.7	40.5	(NA)	39.5	38.4	29.4	36.4	32.5	(NA)
1986	34.8	(NA)	42.2	37.4	40.7	(NA)	39.2	38.3	29.2	36.4	32.5	(NA)
1987	34.8	(NA)	42.4	37.8	41.0	(NA)	39.2	38.1	29.2	36.3	32.5	(NA)
1988	34.7	(NA)	42.3	37.9	41.1	(NA)	38.8	38.1	29.1	35.9	32.6	(NA)
1989	34.6	(NA)	43.0	37.9	41.0	(NA)	38.9	38.0	28.9	35.8	32.6	(NA)
1990	34.5	(NA)	44.0	38.2	40.8	(NA)	38.9	38.1	28.8	35.8	32.6	(NA)
HOURLY EARNINGS <sup>1</sup>												
1960	\$2.09	(NA)	\$2.60	\$3.07	\$2.26	(NA)	(NA)	\$2.24	\$1.52	\$2.02	(NA)	(NA)
1965	2.46	(NA)	2.92	3.70	2.61	(NA)	\$3.03	2.60	1.82	2.39	\$2.05	(NA)
1970	3.23	(NA)	3.85	5.24	3.35	(NA)	3.85	3.43	2.44	3.07	2.81	(NA)
1975	4.53	(NA)	5.95	7.31	4.83	(NA)	5.88	4.72	3.36	4.06	4.02	(NA)
1980	6.66	(NA)	9.17	9.94	7.27	(NA)	8.87	6.95	4.88	5.79	5.85	(NA)
1984	8.32	(NA)	11.63	12.13	9.19	(NA)	11.12	8.88	5.85	7.63	7.59	(NA)
1985	8.57	(NA)	11.98	12.32	9.54	(NA)	11.40	9.15	5.94	7.94	7.90	(NA)
1986	8.76	(NA)	12.46	12.48	9.73	(NA)	11.70	9.34	6.03	8.36	8.18	(NA)
1987	8.98	(NA)	12.54	12.71	9.91	(NA)	12.03	9.59	6.12	8.73	8.49	(NA)
1988	9.28	(NA)	12.80	13.08	10.19	(NA)	12.26	9.98	6.31	9.06	8.88	(NA)
1989	9.66	(NA)	13.25	13.52	10.49	(NA)	12.61	10.39	6.53	9.54	9.39	(NA)
1990	10.03	(NA)	13.65	13.73	10.84	(NA)	12.95	10.80	6.78	9.99	9.86	(NA)
WEEKLY EARNINGS <sup>1</sup>												
1960	\$81	(NA)	\$105	\$113	\$90	(NA)	(NA)	\$91	\$58	\$75	(NA)	(NA)
1965	95	(NA)	124	138	108	(NA)	\$125	106	67	89	\$74	(NA)
1970	120	(NA)	164	195	133	(NA)	156	137	82	113	97	(NA)
1975	164	(NA)	249	266	191	(NA)	233	182	109	148	135	(NA)
1980	235	(NA)	397	368	289	(NA)	351	267	147	210	191	(NA)
1984	293	(NA)	504	459	374	(NA)	438	342	174	278	247	(NA)
1985	299	(NA)	520	464	386	(NA)	450	351	175	289	256	(NA)
1986	305	(NA)	526	467	396	(NA)	459	358	176	304	266	(NA)
1987	313	(NA)	532	480	406	(NA)	472	365	179	316	276	(NA)
1988	322	(NA)	541	496	419	(NA)	476	380	184	325	289	(NA)
1989	334	(NA)	570	512	430	(NA)	491	395	189	342	306	(NA)
1990	346	(NA)	601	524	442	(NA)	504	412	195	358	321	(NA)

NA Not available. <sup>1</sup> Average hours and earnings. Private production and related workers in mining, manufacturing, and construction; nonsupervisory employees in other industries.  
Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

## No. 668. Employees in Nonfarm Establishments—States: 1980 to 1989

[In thousands. For coverage, see headnote, table 667. National totals differ from the sum of the State figures because of differing benchmarks among States and differing industrial and geographic stratification. Based on 1987 *Standard Industrial Classification Manual*, see text, section 13.]

DIVISION AND STATE	1980	1985	1987	1988	1989							
					Total <sup>1</sup>	Con- struction	Manu- facturing	Trans- porta- tion and public utilities	Whole- sale and retail trade	Finance, insur- ance, and real estate	Serv- ices	Government
<b>U.S. . . .</b>	<b>90,406</b>	<b>97,519</b>	<b>102,200</b>	<b>105,536</b>	<b>108,413</b>	<b>5,200</b>	<b>19,426</b>	<b>5,648</b>	<b>25,851</b>	<b>6,724</b>	<b>27,096</b>	<b>17,769</b>
<b>Northeast . . .</b>	<b>20,502</b>	<b>21,962</b>	<b>22,974</b>	<b>23,460</b>	<b>23,678</b>	<b>1,045</b>	<b>4,196</b>	<b>1,168</b>	<b>5,378</b>	<b>1,801</b>	<b>6,467</b>	<b>3,584</b>
<b>N.E. . . . .</b>	<b>5,481</b>	<b>6,067</b>	<b>6,418</b>	<b>6,573</b>	<b>6,588</b>	<b>307</b>	<b>1,300</b>	<b>266</b>	<b>1,574</b>	<b>468</b>	<b>1,789</b>	<b>881</b>
ME . . . .	418	458	501	527	544	33	106	22	139	26	124	95
NH . . . .	385	466	513	529	527	31	114	18	137	33	124	70
VT . . . .	200	225	246	256	261	18	48	10	62	13	67	42
MA . . . .	2,652	2,926	3,062	3,126	3,115	128	563	128	746	218	925	406
RI . . . .	398	429	452	459	461	20	109	15	107	27	124	59
CT . . . .	1,427	1,562	1,645	1,675	1,680	76	360	73	384	152	425	209
<b>M.A. . . . .</b>	<b>15,021</b>	<b>15,896</b>	<b>16,556</b>	<b>16,887</b>	<b>17,090</b>	<b>739</b>	<b>2,896</b>	<b>902</b>	<b>3,804</b>	<b>1,334</b>	<b>4,678</b>	<b>2,703</b>
NY . . . .	7,207	7,751	8,059	8,186	8,265	336	1,192	407	1,736	795	2,347	1,447
NJ . . . .	3,060	3,414	3,582	3,660	3,710	168	654	242	891	243	952	559
PA . . . .	4,753	4,730	4,915	5,042	5,115	235	1,050	254	1,176	296	1,379	697
<b>Midwest . . .</b>	<b>23,634</b>	<b>23,995</b>	<b>25,089</b>	<b>25,871</b>	<b>26,505</b>	<b>1,038</b>	<b>5,670</b>	<b>1,354</b>	<b>6,470</b>	<b>1,512</b>	<b>6,225</b>	<b>4,145</b>
<b>E.N.C. . . .</b>	<b>16,728</b>	<b>16,841</b>	<b>17,641</b>	<b>18,181</b>	<b>18,598</b>	<b>736</b>	<b>4,271</b>	<b>900</b>	<b>4,484</b>	<b>1,054</b>	<b>4,331</b>	<b>2,764</b>
OH . . . .	4,367	4,373	4,583	4,701	4,817	193	1,123	216	1,168	253	1,141	706
IN . . . .	2,130	2,169	2,305	2,396	2,467	115	642	128	590	122	503	359
IL . . . .	4,850	4,755	4,928	5,098	5,179	210	982	304	1,275	372	1,279	738
MI . . . .	3,443	3,562	3,736	3,819	3,905	138	968	152	920	189	900	627
WI . . . .	1,938	1,983	2,090	2,169	2,230	81	556	100	530	118	509	334
<b>W.N.C. . . .</b>	<b>6,905</b>	<b>7,154</b>	<b>7,447</b>	<b>7,690</b>	<b>7,908</b>	<b>302</b>	<b>1,400</b>	<b>454</b>	<b>1,986</b>	<b>458</b>	<b>1,894</b>	<b>1,382</b>
MN . . . .	1,770	1,865	1,958	2,028	2,091	79	399	105	517	121	534	328
IA . . . .	1,110	1,074	1,109	1,156	1,200	41	234	56	306	68	276	217
MO . . . .	1,970	2,095	2,198	2,259	2,308	98	439	151	569	135	553	359
ND . . . .	245	252	253	257	260	10	16	17	69	12	66	66
SD . . . .	238	249	257	266	275	10	32	13	73	16	67	61
NE . . . .	628	651	667	688	706	24	95	46	184	48	167	141
KS . . . .	945	968	1,005	1,035	1,068	41	185	66	267	58	231	211
<b>South . . . .</b>	<b>29,147</b>	<b>32,390</b>	<b>33,826</b>	<b>34,987</b>	<b>35,910</b>	<b>1,899</b>	<b>6,153</b>	<b>1,935</b>	<b>8,657</b>	<b>1,989</b>	<b>8,337</b>	<b>6,531</b>
<b>S.A. . . . .</b>	<b>14,695</b>	<b>16,789</b>	<b>18,169</b>	<b>18,872</b>	<b>19,442</b>	<b>1,161</b>	<b>3,181</b>	<b>991</b>	<b>4,725</b>	<b>1,107</b>	<b>4,715</b>	<b>3,486</b>
DE . . . .	259	293	321	334	343	20	73	15	75	30	83	48
MD . . . .	1,712	1,888	2,028	2,102	2,148	162	209	101	541	131	591	411
DC . . . .	616	629	656	674	683	14	16	25	64	34	253	277
VA . . . .	2,157	2,455	2,680	2,773	2,864	196	428	149	657	152	703	563
WV . . . .	646	597	599	610	613	23	88	36	145	24	138	125
NC . . . .	2,380	2,651	2,863	2,987	3,068	164	868	152	713	132	560	473
SC . . . .	1,189	1,296	1,392	1,449	1,502	93	391	64	339	68	275	271
GA . . . .	2,159	2,570	2,782	2,878	2,945	147	568	184	752	164	610	513
FL . . . .	3,576	4,410	4,848	5,067	5,276	341	541	266	1,440	372	1,502	805
<b>E.S.C. . . .</b>	<b>5,142</b>	<b>5,384</b>	<b>5,712</b>	<b>5,929</b>	<b>6,097</b>	<b>276</b>	<b>1,435</b>	<b>318</b>	<b>1,401</b>	<b>274</b>	<b>1,234</b>	<b>1,102</b>
KY . . . .	1,210	1,250	1,328	1,382	1,434	66	284	77	347	61	313	253
TN . . . .	1,747	1,868	2,012	2,092	2,153	97	524	115	508	104	465	334
AL . . . .	1,356	1,427	1,508	1,559	1,588	76	384	80	349	71	302	315
MS . . . .	829	839	864	896	921	36	243	46	198	39	153	200
<b>W.S.C. . . .</b>	<b>9,311</b>	<b>10,217</b>	<b>9,946</b>	<b>10,186</b>	<b>10,371</b>	<b>463</b>	<b>1,537</b>	<b>626</b>	<b>2,531</b>	<b>608</b>	<b>2,388</b>	<b>1,943</b>
AR . . . .	742	797	837	865	892	33	230	55	204	38	174	154
LA . . . .	1,579	1,591	1,484	1,512	1,516	80	174	106	366	79	345	312
OK . . . .	1,138	1,165	1,109	1,132	1,154	35	163	65	276	59	259	254
TX . . . .	5,851	6,663	6,517	6,678	6,810	315	970	401	1,686	433	1,610	1,222
<b>West . . . .</b>	<b>17,578</b>	<b>19,486</b>	<b>20,559</b>	<b>21,315</b>	<b>22,120</b>	<b>1,117</b>	<b>3,417</b>	<b>1,155</b>	<b>5,320</b>	<b>1,383</b>	<b>5,727</b>	<b>3,849</b>
<b>Mt. . . . .</b>	<b>4,502</b>	<b>5,110</b>	<b>5,258</b>	<b>5,421</b>	<b>5,614</b>	<b>283</b>	<b>643</b>	<b>324</b>	<b>1,364</b>	<b>314</b>	<b>1,511</b>	<b>1,081</b>
MT . . . .	280	279	274	283	291	10	22	20	78	13	72	70
ID . . . .	330	336	333	349	367	16	61	19	94	19	76	78
WY . . . .	210	207	183	189	194	10	9	14	44	7	37	55
CO . . . .	1,251	1,419	1,413	1,436	1,472	59	193	93	360	96	381	271
NM . . . .	465	520	529	548	561	31	42	29	134	27	139	145
AZ . . . .	1,014	1,279	1,386	1,419	1,457	86	188	77	367	93	389	246
UT . . . .	551	624	640	660	691	26	103	41	166	33	167	146
NV . . . .	400	446	500	538	582	46	25	31	120	26	251	71
<b>Pac. . . . .</b>	<b>13,076</b>	<b>14,376</b>	<b>15,301</b>	<b>15,894</b>	<b>16,506</b>	<b>834</b>	<b>2,774</b>	<b>831</b>	<b>3,956</b>	<b>1,070</b>	<b>4,216</b>	<b>2,767</b>
WA . . . .	1,608	1,710	1,852	1,943	2,045	107	361	108	501	112	473	379
OR . . . .	1,045	1,030	1,100	1,156	1,207	45	217	63	310	75	280	215
CA . . . .	9,849	10,979	11,679	12,103	12,522	644	2,159	600	2,968	836	3,272	2,002
AK . . . .	169	231	210	214	227	10	16	21	44	11	47	69
HI . . . .	405	426	460	478	505	29	21	40	133	35	145	102

<sup>1</sup> Includes mining, not shown separately.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly. Compiled from data supplied by cooperating State agencies.

# **No. 669. Nonfarm Industries—Number of Employees, and Number and Earnings of Production Workers: 1980 to 1989**

[Annual averages of monthly figures. Covers all full- and part-time employees who worked during, or received pay for, any part of the pay period including the 12th of the month. For mining and manufacturing, data refer to production and related workers; for construction, to employees engaged in actual construction work; and for other industries, to nonsupervisory employees and working supervisors. See also headnote, table 667. See *Historical Statistics, Colonial Times to 1970*, series D 127-151, D 802-810, and D 877-892, for related data]

1987 SIC code	INDUSTRY	ALL EMPLOYEES TOTAL (1,000)			PRODUCTION WORKERS					
					Total (1,000)			Average hourly earnings (dollars)		
		1980	1985	1989	1980	1985	1989	1980	1985	1989
(X)	<b>Total</b> .....	<b>90,406</b>	<b>97,519</b>	<b>108,413</b>	<b>(NA)</b>	<b>(NA)</b>	<b>(NA)</b>	<b>(NA)</b>	<b>(NA)</b>	<b>(NA)</b>
(X)	<b>Private sector</b> <sup>2</sup> .....	<b>74,166</b>	<b>81,125</b>	<b>90,644</b>	<b>60,331</b>	<b>65,586</b>	<b>73,474</b>	<b>6.66</b>	<b>8.57</b>	<b>9.86</b>
(B)	<b>Mining</b> .....	<b>1,027</b>	<b>927</b>	<b>700</b>	<b>762</b>	<b>658</b>	<b>499</b>	<b>9.17</b>	<b>11.98</b>	<b>13.25</b>
10	Metal mining.....	98	46	57	74	34	45	10.26	13.38	13.59
12	Coal mining.....	246	187	146	204	153	118	10.86	15.24	16.25
13	Oil and gas extraction.....	560	583	386	389	387	252	8.59	11.06	12.48
14	Nonmetallic minerals, except fuels.....	123	110	112	96	84	85	7.52	10.18	11.25
(C)	<b>Construction</b> .....	<b>4,346</b>	<b>4,673</b>	<b>5,200</b>	<b>3,421</b>	<b>3,659</b>	<b>4,059</b>	<b>9.94</b>	<b>12.32</b>	<b>13.52</b>
15	General building contractors.....	1,173	1,253	1,338	900	935	974	9.22	11.23	12.68
16	Heavy construction, except building.....	895	765	779	720	629	649	9.20	12.08	13.19
17	Special trade contractors.....	2,278	2,656	3,084	1,802	2,094	2,436	10.63	12.89	13.97
(D)	<b>Manufacturing</b> .....	<b>20,285</b>	<b>19,260</b>	<b>19,426</b>	<b>14,214</b>	<b>13,092</b>	<b>13,257</b>	<b>7.27</b>	<b>9.54</b>	<b>10.49</b>
(X)	<b>Durable goods</b> .....	<b>12,159</b>	<b>11,463</b>	<b>11,422</b>	<b>8,472</b>	<b>7,673</b>	<b>7,615</b>	<b>7.75</b>	<b>10.09</b>	<b>11.01</b>
24	Lumber and wood products <sup>3</sup> .....	705	712	758	587	593	627	6.57	8.25	8.84
241	Logging.....	88	84	87	71	67	72	8.64	10.92	11.15
242	Sawmills and planing mills.....	215	195	202	190	172	176	6.70	8.52	9.02
243	Millwork, plywood, and structural members.....	207	236	270	170	195	220	6.44	8.09	8.73
244	Wood containers.....	43	41	44	37	35	38	4.95	5.81	6.51
2451	Mobile homes.....	46	51	44	36	41	35	6.08	7.34	8.39
25	Furniture and fixtures <sup>3</sup> .....	466	494	526	376	394	420	5.49	7.17	8.26
251	Household furniture.....	301	295	303	253	247	256	5.12	6.56	7.61
252	Office furniture.....	51	66	72	40	51	53	5.91	8.06	9.35
254	Partitions and fixtures.....	63	70	81	47	51	59	6.68	8.68	9.64
32	Stone, clay, and glass products <sup>3</sup> .....	629	557	569	486	427	444	7.50	9.84	10.83
321	Flat glass.....	18	16	17	14	12	14	9.85	13.79	15.02
322	Glass and glassware, pressed and blown.....	124	91	87	105	77	75	7.97	10.78	12.00
323	Products of purchased glass.....	45	50	57	32	35	44	6.50	8.49	9.42
324	Cement, hydraulic.....	31	23	19	25	18	14	10.55	13.27	13.65
325	Structural clay products.....	46	38	38	34	29	29	6.14	8.01	9.22
326	Pottery and related products.....	47	39	40	39	30	32	6.25	8.65	9.47
327	Concrete, gypsum, and plaster.....	204	206	213	157	160	163	7.45	9.60	10.53
33	Primary metal industries.....	1,142	808	772	878	612	589	9.77	11.67	12.42
331	Blast furnaces and basic steel products.....	512	303	278	396	232	214	11.39	13.33	14.25
332	Iron and steel foundries.....	209	141	138	167	112	110	8.20	10.51	11.15
333	Primary nonferrous metals.....	71	45	46	53	33	34	10.63	13.74	13.72
335	Nonferrous rolling and drawing.....	211	188	178	151	133	128	8.81	11.05	11.89
336	Nonferrous foundries (castings).....	90	87	87	72	70	70	7.30	9.32	9.86
34	Fabricated metal products.....	1,609	1,465	1,446	1,194	1,084	1,071	7.45	9.71	10.57
341	Metal cans and shipping containers.....	75	58	53	63	50	45	9.84	13.10	13.84
342	Cutlery, handtools, and hardware.....	164	142	133	125	105	98	7.02	9.71	10.46
343	Plumbing and heating, exc. electric.....	71	65	63	52	46	46	6.59	8.63	9.47
344	Fabricated structural metal products.....	507	437	431	351	305	308	7.27	9.02	9.91
345	Screw machine products.....	109	96	100	84	74	76	6.96	9.11	10.33
346	Metal forgings and stampings.....	261	247	232	205	198	185	8.56	11.62	12.58
35	Industrial machinery and equipment <sup>3</sup> .....	2,517	2,196	2,132	1,614	1,321	1,286	8.00	10.30	11.40
351	Engines and turbines.....	135	105	92	87	66	62	9.73	13.02	14.05
352	Farm and garden machinery.....	169	98	105	116	66	76	8.78	9.93	10.81
353	Construction and related machinery.....	389	253	223	255	156	137	8.60	10.91	11.49
354	Metalworking machinery.....	399	331	337	290	236	242	8.13	10.53	11.87
355	Special industry machinery.....	195	158	162	125	95	98	7.53	10.18	11.54
356	General industrial machinery.....	300	248	243	196	158	157	7.95	10.06	10.83
357	Computer and office equipment.....	421	501	462	181	184	147	6.75	9.34	11.00
358	Refrigeration and service machinery.....	175	173	181	120	120	137	7.23	10.09	10.65
36	Electronic and other elec. equip. <sup>3</sup> .....	1,771	1,859	1,753	( <sup>4</sup> )	( <sup>4</sup> )	1,108	( <sup>4</sup> )	( <sup>4</sup> )	10.05
361	Electric distribution equipment.....	117	108	100	82	78	71	6.96	8.83	9.60
362	Electrical industrial apparatus.....	232	192	177	163	134	126	( <sup>4</sup> )	( <sup>4</sup> )	9.88
363	Household appliances.....	162	134	133	128	105	107	6.95	9.23	10.17
364	Electric lighting and wiring equip.....	188	200	196	157	145	142	6.43	8.68	9.84
365	Household audio and video equip.....	109	84	88	79	57	62	6.42	9.33	9.57
366	Communications equipment.....	( <sup>4</sup> )	( <sup>4</sup> )	271	( <sup>4</sup> )	( <sup>4</sup> )	137	( <sup>4</sup> )	( <sup>4</sup> )	11.07
367	Electronic components and accessories.....	539	645	618	325	365	345	6.05	8.30	9.56
37	Transportation equipment <sup>3</sup> .....	1,881	1,960	2,054	1,220	1,244	1,280	9.35	12.71	13.68
371	Motor vehicles and equipment.....	789	884	857	575	685	663	9.85	13.39	14.25
372	Aircraft and parts.....	636	616	712	344	295	344	9.28	12.62	14.18
373	Ship and boat building and repairing.....	221	187	195	176	140	146	8.22	10.51	10.58
374	Railroad equipment.....	71	33	34	53	23	25	9.93	12.53	12.75
376	Guided missiles, space vehicles, and parts.....	111	177	195	35	62	60	9.22	12.14	13.70

See footnotes at end of table.

# No. 669. Nonfarm Industries—Number of Employees, and Number and Earnings of Production Workers: 1980 to 1989—Continued

(See headnote, p. 408)

1987 SIC code	INDUSTRY	ALL EMPLOYEES TOTAL (1,000)			PRODUCTION WORKERS					
					Total (1,000)			Average hourly earnings (dollars)		
		1980	1985	1989	1980	1985	1989	1980	1985	1989
38	Instruments and related products. . . . .	1,022	1,045	1,026	(*)	(*)	509	(*)	(*)	10.83
381	Search and navigation equipment. . . . .	(*)	(*)	299	(*)	(*)	101	(*)	(*)	13.75
382	Measuring and controlling devices. . . . .	(*)	(*)	330	(*)	(*)	186	(*)	(*)	10.22
384	Medical instruments and supplies. . . . .	(*)	(*)	239	(*)	(*)	140	(*)	(*)	9.42
385	Ophthalmic goods. . . . .	44	40	39	31	26	27	5.30	6.94	7.76
386	Photographic equipment and supplies. . . . .	135	123	106	67	57	47	8.83	12.05	13.42
387	Watches, clocks, watchcases, and parts. . . . .	22	12	12	17	9	9	5.24	6.87	7.47
39	Misc. manufacturing industries <sup>3</sup> . . . . .	418	367	386	313	264	281	5.46	7.30	8.29
391	Jewelry, silverware, and plated ware. . . . .	56	55	54	40	37	38	5.76	7.78	8.94
394	Toys and sporting goods. . . . .	117	95	105	88	70	77	5.01	6.65	7.63
395	Pens, pencils, office and art supplies. . . . .	37	33	36	27	22	25	5.58	7.70	8.20
396	Costume jewelry and notions. . . . .	(*)	(*)	36	(*)	(*)	29	(*)	(*)	7.24
(X)	<b>Nondurable goods</b> . . . . .	<b>8,127</b>	<b>7,796</b>	<b>8,004</b>	<b>5,798</b>	<b>5,470</b>	<b>5,642</b>	<b>6.56</b>	<b>8.72</b>	<b>9.75</b>
20	Food and kindred products <sup>3</sup> . . . . .	1,708	1,603	1,645	1,175	1,118	1,177	6.85	8.57	9.38
201	Meat products. . . . .	358	362	410	298	305	347	6.99	7.23	7.77
202	Dairy products. . . . .	175	163	157	96	96	96	6.86	9.17	10.20
203	Preserved fruits and vegetables. . . . .	246	226	245	202	186	202	5.94	7.81	8.71
204	Grain mill products. . . . .	144	125	125	99	85	87	7.67	10.38	11.42
205	Bakery products. . . . .	230	216	213	139	133	132	7.14	9.59	10.48
206	Sugar and confectionery products. . . . .	108	99	102	81	76	81	6.56	8.61	9.93
207	Fats and oils. . . . .	44	35	31	32	26	23	7.03	8.80	9.83
208	Beverages. . . . .	234	214	192	105	92	82	8.12	11.38	13.04
21	Tobacco products. . . . .	69	64	49	54	48	37	7.74	11.96	15.36
211	Cigarettes. . . . .	46	44	36	35	32	26	9.23	14.71	18.52
22	Textile mill products <sup>3</sup> . . . . .	848	702	724	737	607	626	5.07	6.70	7.67
221	Broadwoven fabric mills, cotton. . . . .	150	106	96	135	95	86	5.25	7.01	8.00
222	Broadwoven fabric mills, synthetics. . . . .	116	90	85	104	80	75	5.30	7.15	8.29
223	Broadwoven fabric mills, wool. . . . .	19	17	19	16	15	15	5.21	7.07	8.41
224	Narrow fabric mills. . . . .	23	22	25	20	19	21	4.63	6.39	7.15
225	Knitting mills. . . . .	224	201	216	194	175	190	4.77	6.17	6.99
226	Textile finishing, except wool. . . . .	74	59	62	62	49	50	5.39	7.12	8.15
227	Carpets and rugs. . . . .	54	54	63	44	44	51	5.20	6.92	7.96
228	Yarn and thread mills. . . . .	125	101	107	113	90	96	4.76	6.26	7.39
23	Apparel and other textile products <sup>3</sup> . . . . .	1,264	1,121	1,074	1,079	945	906	4.56	5.73	6.35
231	Men's and boys' suits and coats. . . . .	77	63	54	67	55	47	5.34	6.65	7.13
232	Men's and boys' furnishings. . . . .	362	312	286	310	270	247	4.23	5.27	5.77
233	Women's and misses outerwear. . . . .	417	362	342	360	302	287	4.61	5.56	6.09
234	Women's and children's undergarments. . . . .	90	77	66	76	65	55	4.15	5.29	5.94
236	Girls' and children's outerwear. . . . .	64	61	59	55	51	49	4.20	5.07	5.69
26	Paper and allied products <sup>3</sup> . . . . .	685	671	697	519	509	522	7.84	10.83	11.96
262	Papermills. . . . .	179	177	178	133	133	134	9.05	13.14	14.65
263	Paperboard mills. . . . .	65	55	52	51	42	40	9.28	13.60	14.76
265	Paperboard containers and boxes. . . . .	205	197	210	157	152	162	6.94	9.24	10.17
267	Misc. converted paper products. . . . .	220	229	241	163	168	173	6.89	9.33	10.47
27	Printing and publishing <sup>3</sup> . . . . .	1,252	1,428	1,564	699	789	868	7.53	9.71	10.88
271	Newspapers. . . . .	420	451	473	164	169	166	7.72	9.77	10.85
272	Periodicals. . . . .	90	113	129	16	29	46	7.16	10.20	11.51
273	Books. . . . .	101	107	120	52	54	64	6.76	8.70	9.71
275	Commercial printing. . . . .	410	489	546	304	356	397	7.85	10.05	11.14
278	Blankbooks and bookbinding. . . . .	62	70	76	51	57	59	5.78	7.63	8.68
28	Chemicals and allied products. . . . .	1,107	1,044	1,074	626	578	603	8.30	11.56	13.09
281	Industrial inorganic chemicals. . . . .	161	143	133	88	72	69	9.07	12.80	14.19
282	Plastics materials and synthetics. . . . .	205	172	184	137	114	120	8.21	11.71	13.44
283	Drugs. . . . .	196	206	233	97	95	102	7.69	10.75	12.51
284	Soap, cleaners, and toilet goods. . . . .	141	148	160	86	94	101	7.67	10.28	11.28
285	Paints and allied products. . . . .	65	64	63	33	31	32	7.39	10.08	11.66
286	Industrial organic chemicals. . . . .	174	160	150	88	82	87	9.67	13.98	15.65
287	Agricultural chemicals. . . . .	72	59	53	45	37	33	8.12	11.03	12.79
29	Petroleum and coal products <sup>3</sup> . . . . .	198	179	157	125	109	103	10.10	14.06	15.41
291	Petroleum refining. . . . .	155	141	118	93	82	75	10.94	15.25	16.62
295	Asphalt paving and roofing materials. . . . .	31	26	27	24	20	21	7.69	10.56	12.23
30	Rubber and misc. plastics products <sup>3</sup> . . . . .	765	819	884	586	632	688	6.58	8.60	9.47
301	Tires and inner tubes. . . . .	115	94	85	81	65	64	9.74	13.21	15.01
302	Rubber and plastics footwear. . . . .	22	13	11	20	11	9	4.43	5.68	6.56
31	Leather and leather products. . . . .	233	165	136	197	137	113	4.58	5.83	6.80
311	Leather tanning and finishing. . . . .	19	15	15	16	12	12	6.10	7.62	8.74
314	Footwear, except rubber. . . . .	144	99	77	129	84	65	4.42	5.53	6.28
316	Luggage. . . . .	16	11	11	12	8	8	4.90	6.46	6.59
317	Handbags and personal leather goods. . . . .	30	21	16	25	17	13	4.33	5.61	5.97

See footnotes at end of table.

**No. 669. Nonfarm Industries—Number of Employees, and Number and Earnings of Production Workers: 1980 to 1989—Continued**

[See headnote, p. 408]

1987 SIC code	INDUSTRY	ALL EMPLOYEES TOTAL (1,000)			PRODUCTION WORKERS					
					Total (1,000)			Average hourly earnings (dollars)		
		1980	1985	1989	1980	1985	1989	1980	1985	1989
(E)	<b>Transp. and public utilities</b> <sup>3</sup> . . .	<b>5,146</b>	<b>5,238</b>	<b>5,648</b>	<b>4,293</b>	<b>4,339</b>	<b>4,694</b>	<b>8.87</b>	<b>11.40</b>	<b>12.61</b>
40	Railroad transportation . . . . .	532	359	294	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
4011	Class I railroads <sup>3</sup> . . . . .	482	323	252	(4)	( <sup>1</sup> )	( <sup>1</sup> )	69.92	13.64	15.68
41	Local and interurban passenger transit . . . . .	265	278	328	244	257	300	6.34	7.68	8.87
42	Trucking and warehousing . . . . .	1,280	1,363	1,606	1,121	1,187	1,402	9.13	10.52	11.38
44	Water transportation . . . . .	211	185	173	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
45	Transportation by air . . . . .	453	522	697	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
46	Pipelines, except natural gas . . . . .	21	19	19	15	13	14	10.50	15.26	16.20
47	Transportation services . . . . .	198	276	334	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
48	Communication <sup>3</sup> . . . . .	1,357	1,320	1,265	1,014	1,006	945	8.50	11.75	13.18
481	Telephone communication . . . . .	1,072	921	877	779	687	629	8.72	12.45	13.88
483	Radio and television broadcasting . . . . .	192	229	232	154	187	192	7.44	10.26	12.11
484	Cable and other pay television services . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	118	( <sup>1</sup> )	( <sup>1</sup> )	100	( <sup>1</sup> )	( <sup>1</sup> )	10.08
49	Electric, gas, and sanitary services <sup>3</sup> . . . . .	829	917	934	678	731	739	8.90	12.83	14.73
491	Electric services . . . . .	391	448	444	316	349	340	9.12	12.94	15.04
492	Gas production and distribution . . . . .	168	175	164	138	137	129	8.27	11.76	13.75
493	Combination utility services . . . . .	197	203	192	162	166	156	9.64	14.93	17.26
495	Sanitary services . . . . .	50	66	105	44	57	91	7.16	9.59	11.26
(F)	<b>Wholesale trade</b> . . . . .	<b>5,292</b>	<b>5,736</b>	<b>6,271</b>	<b>4,328</b>	<b>4,616</b>	<b>5,048</b>	<b>6.95</b>	<b>9.15</b>	<b>10.39</b>
(G)	<b>Retail trade</b> <sup>3</sup> . . . . .	<b>15,018</b>	<b>17,336</b>	<b>19,580</b>	<b>13,484</b>	<b>15,439</b>	<b>17,353</b>	<b>4.88</b>	<b>5.94</b>	<b>6.53</b>
53	General merchandise stores . . . . .	2,245	2,324	2,535	2,090	2,174	2,362	4.77	5.92	6.63
54	Food stores . . . . .	2,384	2,775	3,190	2,202	2,567	2,939	6.24	7.35	7.16
55	Automotive dealers and service stations . . . . .	1,689	1,890	2,109	1,430	1,586	1,763	5.66	7.41	8.57
56	Apparel and accessory stores . . . . .	957	1,041	1,192	820	875	1,003	4.30	5.25	6.02
57	Furniture and home furnishings stores . . . . .	806	735	834	502	608	685	5.53	7.13	8.36
58	Eating and drinking places . . . . .	4,626	5,709	6,449	4,256	5,194	5,861	3.69	4.33	4.75
(H)	<b>Finance, insurance, real estate</b> . . . . .	<b>5,160</b>	<b>5,955</b>	<b>6,724</b>	<b>3,907</b>	<b>4,415</b>	<b>4,870</b>	<b>5.79</b>	<b>7.94</b>	<b>9.54</b>
60	Depository institutions . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	2,287	( <sup>1</sup> )	( <sup>1</sup> )	1,859	( <sup>1</sup> )	( <sup>1</sup> )	8.15
61	Nondepository institutions . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	364	( <sup>1</sup> )	( <sup>1</sup> )	261	( <sup>1</sup> )	( <sup>1</sup> )	9.74
62	Security and commodity brokers . . . . .	227	355	431	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
63	Insurance carriers . . . . .	1,224	1,292	1,449	854	883	966	6.29	8.61	10.67
64	Insurance, agents, brokers, service . . . . .	464	549	654	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
65	Real estate . . . . .	989	1,137	1,314	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
67	Holding and other investment offices . . . . .	115	166	225	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
(I)	<b>Services</b> <sup>3</sup> . . . . .	<b>17,890</b>	<b>21,999</b>	<b>27,096</b>	<b>15,921</b>	<b>19,368</b>	<b>23,695</b>	<b>5.85</b>	<b>7.90</b>	<b>9.39</b>
70	Hotels and other lodging places . . . . .	1,076	1,336	1,601	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
701	Hotels and motels . . . . .	1,038	1,290	1,549	954	1,158	1,377	4.45	5.83	6.68
72	Personal services <sup>3</sup> . . . . .	818	959	1,083	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
721	Laundry, cleaning, garment services . . . . .	356	380	420	318	339	373	4.47	5.79	6.57
723	Beauty shops . . . . .	284	334	367	264	302	327	4.26	6.09	6.89
73	Business services <sup>3</sup> . . . . .	2,564	3,691	4,931	( <sup>1</sup> )	( <sup>1</sup> )	4,343	( <sup>1</sup> )	( <sup>1</sup> )	9.09
731	Advertising . . . . .	153	196	236	116	145	175	8.07	10.74	13.04
736	Personnel supply services . . . . .	543	895	1,429	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
7361	Employment agencies . . . . .	( <sup>1</sup> )	160	236	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
7363	Help supply services . . . . .	( <sup>1</sup> )	734	1,193	( <sup>1</sup> )	715	1,158	( <sup>1</sup> )	6.50	7.73
737	Computer and data processing services . . . . .	304	542	745	254	447	580	7.16	10.98	14.18
7372	Prepackaged software . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	100	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
7374	Data processing and preparation . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	204	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
75	Auto repair, services, and parking . . . . .	571	731	887	488	614	734	6.10	7.40	8.47
753	Automotive repair shops . . . . .	350	446	509	297	372	418	6.52	7.99	9.34
78	Motion pictures . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	376	( <sup>1</sup> )	( <sup>1</sup> )	317	( <sup>1</sup> )	( <sup>1</sup> )	10.26
783	Motion picture theaters . . . . .	124	108	110	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
79	Amusement and recreation services . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	1,047	( <sup>1</sup> )	( <sup>1</sup> )	925	( <sup>1</sup> )	( <sup>1</sup> )	7.83
80	Health services <sup>3</sup> . . . . .	5,278	6,299	7,551	4,712	5,607	6,713	5.68	8.06	9.83
801	Offices and clinics of medical doctors . . . . .	802	1,030	1,288	( <sup>1</sup> )	858	1,064	( <sup>1</sup> )	8.02	9.78
805	Nursing and personal care facilities . . . . .	997	1,199	1,370	898	1,085	1,238	4.17	5.61	6.79
806	Hospitals . . . . .	2,750	2,997	3,472	2,522	2,732	3,176	6.06	9.00	11.21
808	Home health care services . . . . .	( <sup>1</sup> )	152	249	( <sup>1</sup> )	( <sup>1</sup> )	230	( <sup>1</sup> )	( <sup>1</sup> )	7.88
81	Legal services . . . . .	498	694	892	427	599	740	7.35	10.52	13.43
82	Educational services . . . . .	1,138	1,362	1,673	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
83	Social services . . . . .	1,134	1,354	1,713	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
86	Membership organizations . . . . .	1,539	1,520	1,814	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
87	Engineering and management services . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	2,383	( <sup>1</sup> )	( <sup>1</sup> )	1,835	( <sup>1</sup> )	( <sup>1</sup> )	13.00
(J)	<b>Government</b> . . . . .	<b>16,241</b>	<b>16,394</b>	<b>17,769</b>	<b>(NA)</b>	<b>(NA)</b>	<b>(NA)</b>	<b>(NA)</b>	<b>(NA)</b>	<b>(NA)</b>
(X)	Federal government . . . . .	2,866	2,875	2,988	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(X)	State government . . . . .	3,610	3,832	4,175	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(X)	Local government . . . . .	9,765	9,687	10,606	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. X Not applicable. <sup>1</sup> 1987 Standard Industrial Classification, see text, section 13. <sup>2</sup> Excludes government. <sup>3</sup> Includes industries not shown separately. <sup>4</sup> Included in totals; not available separately. <sup>5</sup> For changes in "Class I" classification, see text, section 21. <sup>6</sup> Includes all employees except executives, officials, and staff assistants who received pay during the month.

Source: U.S. Bureau of Labor Statistics, BLS Bulletin 2370 and *Employment and Earnings*, September 1990.

# No. 670. Indexes of Output per Hour for All Employees—Selected Industries: 1975 to 1988

[See text, section 13. Minus sign (-) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series W 14, 17, and 19, W 30-54, and 62-65]

1987 SIC <sup>1</sup> code	INDUSTRY	INDEXES (1977 = 100)								AVERAGE ANNUAL PERCENT CHANGE <sup>2</sup>	
		1975	1980	1983	1984	1985	1986	1987	1988, prel.	1975- 1988	1983- 1988
(B)	<b>Mining:</b>										
1011	Iron (usable ore) . . . . .	117.8	123.2	138.6	171.7	187.9	197.8	250.4	248.2	6.7	12.4
1021	Copper (recoverable metal) . . . . .	77.2	91.6	130.9	155.4	193.1	228.9	211.2	229.9	8.7	11.8
111, 121	Coal . . . . .	105.3	112.5	136.5	151.7	154.3	167.7	181.3	200.7	5.5	7.5
14	Nonmetallic minerals <sup>3</sup> . . . . .	90.6	96.5	98.2	105.5	107.5	108.4	115.3	114.0	1.3	3.0
(D)	<b>Manufacturing:</b>										
2011, 2013	Red meat products . . . . .	84.4	107.0	115.9	117.0	119.5	117.3	(NA)	(NA)	4.5	4.0
2016, 2017	Poultry dressing/processing plants . . . . .	87.9	105.7	131.7	130.3	133.2	127.3	(NA)	(NA)	3.6	3.0
203	Preserved fruits, vegetables . . . . .	93.7	100.8	110.8	112.4	113.4	118.3	(NA)	(NA)	4.1	4.5
204	Grain mill products . . . . .	87.1	105.3	125.5	132.8	140.9	142.1	(NA)	(NA)	4.6	4.3
205	Bakery products . . . . .	93.4	93.7	106.9	106.8	108.5	114.4	(NA)	(NA)	4.7	4.9
2086	Bottled, canned soft drinks . . . . .	89.5	106.9	121.5	131.0	136.7	146.6	158.1	166.7	4.7	6.5
2211, 21	Cotton, synthetic broad woven fabric . . . . .	86.7	105.0	121.6	119.8	123.7	132.8	132.1	131.4	3.6	2.2
2281	Nonwool yarn mills . . . . .	101.2	99.7	128.5	129.6	134.5	141.1	162.6	161.1	4.3	5.5
2421	Sawmills, planing mills . . . . .	98.8	104.2	126.8	132.3	139.2	155.1	151.1	148.7	3.9	3.8
251	Household furniture . . . . .	97.5	99.9	110.1	112.2	112.5	118.5	118.3	124.5	1.8	2.4
2611, 21, 31, 61	Paper, paperboard, pulp mills . . . . .	86.7	105.2	119.5	121.0	123.1	133.5	138.0	142.8	3.5	4.0
2653	Corrugated, solid fiber boxes . . . . .	96.2	111.0	114.0	118.9	122.5	126.7	123.3	124.3	2.1	1.7
281	Industrial inorganic chemicals . . . . .	86.5	94.3	94.0	104.5	101.4	105.4	(NA)	(NA)	0.8	2.8
2823, 24	Synthetic fibers . . . . .	84.5	115.7	126.2	125.3	135.8	146.2	156.4	156.6	4.5	5.3
2834	Pharmaceuticals . . . . .	92.5	106.0	114.3	116.4	118.1	121.8	120.9	116.8	2.0	0.7
2869	Industrial organic chemicals, n.e.c . . . . .	85.3	98.9	105.3	113.9	112.5	119.6	(NA)	(NA)	2.4	5.2
2911	Petroleum refining . . . . .	88.7	94.2	81.8	92.5	102.6	113.8	120.1	125.7	1.8	9.1
3011	Tires, inner tubes . . . . .	91.8	102.4	136.1	146.8	146.7	151.4	162.2	169.7	4.9	4.2
3079	Miscellaneous plastics . . . . .	86.2	95.7	107.2	110.5	113.0	114.1	(NA)	(NA)	2.6	3.5
314	Footwear . . . . .	101.3	99.1	103.9	105.7	107.3	109.3	107.7	109.4	0.7	1.0
3271, 72	Concrete products . . . . .	91.9	90.4	97.6	99.2	100.5	105.9	(NA)	(NA)	0.7	1.6
3273	Ready-mixed concrete . . . . .	97.5	93.1	93.7	96.3	97.4	100.1	(NA)	(NA)	4.0	2.6
331	Steel . . . . .	93.3	102.9	116.8	131.3	139.5	141.8	152.3	168.3	4.2	6.8
3321	Gray iron foundries . . . . .	97.0	90.8	98.3	106.8	104.2	107.4	108.8	112.1	1.0	2.1
3353, 54, 55	Aluminum rolling, drawing . . . . .	87.5	100.0	110.4	116.2	115.6	125.0	128.4	128.4	2.5	3.3
3441	Fabricated structural metal . . . . .	97.4	102.1	103.0	107.9	117.7	117.7	(NA)	(NA)	4.1	3.6
3442	Metal doors, sash, and trim . . . . .	89.3	90.6	99.7	102.8	106.3	104.1	(NA)	(NA)	4.2	4.1
3465, 6, 9	Metal stampings . . . . .	93.2	99.9	104.7	110.4	104.7	108.7	(NA)	(NA)	4.1	4.8
352	Farm, garden machinery . . . . .	97.7	93.3	95.1	105.2	101.5	103.0	(NA)	(NA)	0.5	2.7
3531	Construction machinery, equipment . . . . .	93.9	97.4	88.2	102.6	104.1	107.1	100.8	101.6	0.4	2.0
3585	Refrigeration, heating equipment . . . . .	89.9	93.8	100.9	105.5	103.7	101.5	(NA)	(NA)	4.0	1.0
3621	Motors, generators . . . . .	93.0	96.7	104.3	107.9	110.5	112.3	119.2	117.4	1.7	2.6
3631, 2, 3, 9	Major household appliances . . . . .	93.6	105.8	117.6	123.6	127.2	134.1	137.2	138.9	3.2	3.5
3645, 46, 47, 48	Lighting fixtures . . . . .	89.2	93.3	96.3	102.2	107.1	113.9	109.9	109.8	1.4	2.7
3674	Semiconductors . . . . .	56.0	149.4	211.5	229.2	206.4	215.6	292.2	318.2	11.8	8.4
371	Motor vehicles, equipment . . . . .	87.7	90.8	106.6	115.7	121.2	121.7	129.1	133.8	3.0	3.9
3825	Instruments to measure electricity . . . . .	95.9	108.4	121.8	133.7	130.4	122.2	(NA)	(NA)	4.1	4.7
3861	Photographic equipment and supplies . . . . .	92.9	112.7	124.8	131.8	131.1	144.3	(NA)	(NA)	4.7	5.2
(E, G, H, I)	<b>Transportation, utilities, trade:</b>										
401	RR transport (revenue traffic) <sup>5</sup> . . . . .	89.5	107.3	141.9	152.9	161.7	178.1	206.4	226.5	7.2	10.0
Pts of 4111,											
31, 414	Bus carriers <sup>6</sup> . . . . .	97.0	100.9	95.4	90.9	87.4	86.8	(NA)	(NA)	0.9	4.1
4213 pt.	Intercity trucking <sup>7</sup> . . . . .	89.2	107.7	130.7	135.1	130.2	134.5	(NA)	(NA)	4.3	4.2
4511	Air transportation <sup>8</sup> . . . . .	87.6	106.2	126.7	131.7	136.3	137.9	146.1	140.8	3.7	2.5
4612, 13	Petroleum pipelines . . . . .	95.7	93.0	94.3	104.0	104.9	107.0	104.9	110.7	0.9	2.4
4811	Telephone communications . . . . .	85.9	118.1	145.1	143.5	149.8	161.3	165.9	176.7	5.5	4.4
491, 92, 93	Gas and electric utilities . . . . .	94.7	96.2	88.4	91.6	90.9	90.6	93.5	97.9	-0.5	1.6
5093	Scrap and wasted materials <sup>9</sup> . . . . .	100.0	108.2	123.5	122.2	127.9	133.8	138.7	(NA)	10.3	10.3
5251	Hardware stores . . . . .	97.8	111.6	111.4	121.1	124.6	137.4	140.3	150.6	3.2	6.0
5311	Department stores . . . . .	89.7	103.8	119.5	126.6	129.2	135.3	138.5	141.7	3.6	3.4
5331	Variety stores . . . . .	122.5	107.8	121.5	126.8	118.5	101.1	(NA)	93.8	-0.4	-6.2
54	Retail food stores <sup>8</sup> . . . . .	98.8	100.3	95.2	95.6	95.8	93.7	(NA)	91.8	-0.6	-0.8
5511	Franchised new car dealers . . . . .	95.0	99.6	109.4	110.4	109.7	110.7	107.4	111.8	1.2	0.1
553	Auto and home supply stores <sup>8</sup> . . . . .	89.9	106.7	118.9	118.4	124.7	125.6	134.1	136.6	3.1	3.1
5541	Gasoline service stations . . . . .	85.3	105.1	122.5	129.1	134.3	143.9	(NA)	141.5	3.9	3.0
56	Apparel, accessory stores <sup>8</sup> . . . . .	105.0	117.9	132.9	140.9	146.3	153.5	(NA)	141.2	3.3	1.1
57	Furniture, furnishings, equip. stores <sup>8</sup> . . . . .	91.9	107.4	118.4	129.4	133.5	144.4	(NA)	154.4	4.0	5.2
58	Eating, drinking places <sup>8</sup> . . . . .	100.8	99.8	95.3	91.1	87.9	89.7	(NA)	91.3	-1.1	-0.6
5912	Drug, proprietary stores <sup>8</sup> . . . . .	94.2	107.0	110.9	105.7	105.5	104.6	103.8	105.3	0.7	-0.9
592	Liquor stores . . . . .	96.3	102.2	101.6	98.7	107.1	98.0	(NA)	88.5	-0.3	2.8
602	Commercial banking . . . . .	90.0	92.7	101.3	104.3	109.7	111.8	(NA)	(NA)	4.1	3.6
7011	Hotels, motels, tourist courts <sup>8</sup> . . . . .	89.7	95.0	95.4	102.1	97.5	92.8	(NA)	(NA)	4.3	4.2
721	Laundry, cleaning services <sup>8</sup> . . . . .	96.6	91.0	90.4	92.3	87.3	85.0	(NA)	83.8	-1.4	-1.9
723, 724	Beauty and barber shops <sup>8</sup> . . . . .	98.7	102.9	114.0	103.9	98.6	97.3	(NA)	96.0	0.1	-2.9
753	Automotive repair shops <sup>8</sup> . . . . .	102.0	95.9	86.1	88.3	96.1	93.2	96.1	101.1	-0.7	3.0

NA Not available. <sup>1</sup> 1987 Standard Industrial Classification; see text, section 13. <sup>2</sup> For explanation of average annual percent change, see source. <sup>3</sup> Excludes fuels. <sup>4</sup> Change from 1975 to 1986 and 1983 to 1996. <sup>5</sup> Class 1 line-haul railroads and switching and terminal companies. <sup>6</sup> Class 1 interstate carriers regulated by the ICC. <sup>7</sup> Refers to output per employee. <sup>8</sup> Data relate to all persons (paid employees, unpaid family workers, and the self-employed). <sup>9</sup> 1977 data. <sup>10</sup> Change from 1977 to 1987 and 1983 to 1987.

Source: U.S. Bureau of Labor Statistics, Bulletin 2349, *Productivity Measures for Selected Industries and Government Services*, February 1990; and unpublished data.

**No. 671. Productivity and Related Measures: 1960 to 1989**

[See text, section 13. Minus sign (-) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series D 689-704 and W 22-25]

ITEM	1960	1970	1975	1980	1984	1985	1986	1987	1988	1989
<b>INDEXES (1982 = 100)</b>										
Output per hour, business sector	66.0	87.4	95.2	99.2	105.0	107.1	109.5	110.7	113.0	112.8
Nonfarm business	70.1	89.2	96.6	99.9	105.1	106.5	108.6	109.8	112.3	111.9
Manufacturing	56.9	75.2	86.9	95.3	110.8	115.9	120.2	124.7	127.6	130.1
Output, <sup>1</sup> business sector	52.5	76.1	84.7	101.1	113.0	117.1	121.3	126.4	133.0	135.8
Nonfarm business	52.0	85.5	84.9	101.7	113.7	118.1	121.6	126.8	134.0	136.7
Manufacturing	53.4	79.9	86.3	104.8	119.4	124.0	126.8	132.3	139.9	144.0
Hours, <sup>2</sup> business sector	79.6	87.1	89.0	101.9	107.6	109.9	110.8	114.1	117.7	120.4
Nonfarm business	74.2	89.5	87.9	101.8	108.1	110.9	111.9	115.4	119.3	122.2
Manufacturing	93.8	106.1	99.3	110.0	107.7	107.0	105.5	106.1	109.6	110.6
Compensation per hour, <sup>3</sup> business sector	21.2	36.9	54.8	85.1	108.1	112.8	118.6	123.1	129.1	133.1
Nonfarm business	22.3	37.3	55.1	85.1	108.1	112.5	118.2	122.5	128.3	132.1
Manufacturing	22.5	35.9	53.5	83.7	106.0	111.1	116.1	119.0	123.4	126.7
Real hourly compensation, <sup>3</sup> business sector	69.2	91.9	98.3	99.7	100.4	101.2	104.4	104.6	105.3	103.5
Nonfarm business	72.8	92.7	98.9	99.6	100.4	100.9	104.1	104.1	104.7	102.8
Manufacturing	73.2	89.3	96.0	98.0	98.4	99.6	102.3	101.1	100.6	98.6
Unit labor costs, <sup>4</sup> business sector	32.2	42.3	57.6	85.8	103.0	105.4	108.8	111.2	114.3	118.0
Nonfarm business	31.8	41.8	57.1	85.2	102.8	105.6	108.8	111.6	114.3	118.1
Manufacturing	39.5	47.7	61.6	87.8	95.6	95.9	96.6	95.5	96.7	97.4
<b>ANNUAL PERCENT CHANGE <sup>5</sup></b>										
Output per hour, business sector	1.7	0.9	2.1	-0.3	2.6	2.0	2.2	1.2	2.0	-0.2
Nonfarm business	1.1	0.5	1.9	-0.4	2.1	1.3	2.0	1.1	2.2	-0.3
Manufacturing	0.6	0.4	2.6	-	5.4	4.5	3.8	3.7	2.3	2.0
Output, <sup>1</sup> business sector	1.8	-0.9	-2.1	-1.1	8.4	4.2	3.1	4.1	5.3	2.1
Nonfarm business	1.7	-1.1	-2.3	-1.2	8.3	3.9	3.0	4.2	5.7	2.0
Manufacturing	0.2	-5.6	-7.5	-4.5	12.2	3.8	2.3	4.3	5.7	2.9
Hours, <sup>2</sup> business sector	0.1	1.8	-4.1	-0.8	5.7	2.2	0.8	2.9	3.2	2.3
Nonfarm business	0.6	-1.5	-4.1	-0.7	6.0	2.6	1.0	3.1	3.4	2.4
Manufacturing	-0.4	5.9	-9.8	-4.6	6.5	-0.7	-1.4	0.6	3.3	0.9
Compensation per hour, <sup>3</sup> business sector	4.3	7.5	9.9	10.5	4.1	4.4	5.1	3.8	4.9	3.0
Nonfarm business	4.4	7.2	9.8	10.5	3.9	4.1	5.0	3.6	4.8	3.0
Manufacturing	4.2	7.2	11.9	11.7	3.3	4.9	4.5	2.5	3.6	2.7
Real hourly compensation, <sup>3</sup> business sector	2.6	1.7	0.7	-2.6	-0.2	0.8	3.2	0.1	0.7	-1.7
Nonfarm business	2.6	1.4	0.6	-2.6	0.4	0.5	3.1	-	0.6	-1.8
Manufacturing	2.4	1.4	2.6	-1.6	-0.9	1.2	2.6	-1.1	-0.5	-2.0
Unit labor costs, <sup>4</sup> business sector	2.6	6.5	7.7	10.9	1.5	2.3	2.8	2.6	2.8	3.2
Nonfarm business	3.3	6.7	7.8	11.0	1.8	2.8	3.0	2.5	2.5	3.3
Manufacturing	3.6	6.8	9.1	11.7	-1.9	0.3	0.7	-1.2	1.3	0.7

- Represents zero. <sup>1</sup> Refers to gross domestic product originating in the sector, in 1982 prices. <sup>2</sup> Hours at work of all persons engaged in the business and nonfarm business sectors (employees, proprietors, and unpaid family workers); employees' and proprietors' hours in manufacturing. <sup>3</sup> Wages and salaries of employees plus employers' contributions for social insurance and private benefit plans. Also includes an estimate of same for self-employed. Real compensation deflated by the consumer price index for all urban consumers, see text, section 15. <sup>4</sup> Hourly compensation divided by output per hour. <sup>5</sup> All changes are from the immediate prior year.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly, and unpublished data.

**No. 672. Computer Use On the Job, Sex and Educational Attainment by Selected Computer Activity: 1989**

[As of October. In percent. Based on Current Population Survey and subject to sampling error; for details, see Appendix III]

EDUCATIONAL ATTAINMENT AND SEX	Persons using computers at work <sup>1</sup>	COMPUTER ACTIVITY <sup>2</sup>				
		Word processing	Book-keeping	Inventory control	Communications	Databases
<b>Total</b>	<b>38.3</b>	<b>41.1</b>	<b>26.5</b>	<b>25.5</b>	<b>25.1</b>	<b>27.3</b>
Not a high school graduate	8.4	17.7	20.0	37.4	13.2	11.7
High school graduate	29.8	32.2	27.7	29.7	21.0	20.0
Some college	50.0	40.0	28.2	27.3	26.7	27.2
Four years of college	59.6	46.5	26.6	22.7	29.8	32.6
More than four years of college	59.9	57.4	22.5	15.9	31.3	37.7
<b>Male</b>	<b>32.3</b>	<b>37.4</b>	<b>24.1</b>	<b>30.9</b>	<b>28.1</b>	<b>29.8</b>
Not a high school graduate	6.2	12.1	12.3	41.4	10.4	9.0
High school graduate	20.2	19.8	20.5	41.9	19.7	17.7
Some college	40.6	31.8	24.4	34.6	28.0	29.1
Four years of college	59.0	45.6	28.3	27.1	32.3	35.6
More than four years of college	60.4	56.8	24.2	17.8	34.6	40.1
<b>Female</b>	<b>46.0</b>	<b>44.4</b>	<b>28.7</b>	<b>20.7</b>	<b>24.0</b>	<b>25.1</b>
Not a high school graduate	12.1	22.6	26.6	33.9	15.7	14.1
High school graduate	40.6	39.1	31.7	22.9	21.7	21.3
Some college	60.7	46.3	31.1	21.8	25.7	25.7
Four years of college	60.3	47.7	24.4	16.9	26.5	28.7
More than four years of college	59.0	58.5	19.6	12.8	25.9	33.6

<sup>1</sup> Unduplicated count. <sup>2</sup> Persons may be included on more than one activity.

Source: U.S. National Center for Education Statistics, *Digest of Education Statistics*, 1990.



### No. 673. Average Annual Total Compensation and Wages and Salaries per Full-Time Equivalent Employee, by Industry: 1980 to 1989

[In dollars, except percent. Wage and salary payments include executives' compensation, bonuses, tips, and payments-in-kind; total compensation includes, in addition to wages and salaries, employer contributions for social insurance, employer contributions to private pension and welfare funds, director's fees, jury and witness fees, etc.]

INDUSTRY	ANNUAL TOTAL COMPENSATION					ANNUAL WAGES AND SALARIES				
	1980	1985	1987	1988	1989	1980	1985	1987	1988	1989
<b>Domestic Industries</b> . . . . .	<b>18,815</b>	<b>25,266</b>	<b>27,348</b>	<b>28,761</b>	<b>29,758</b>	<b>15,757</b>	<b>21,079</b>	<b>22,903</b>	<b>24,069</b>	<b>24,870</b>
Agriculture, forestry, and fisheries . . . . .	9,836	12,833	13,708	13,987	15,045	8,596	11,086	11,879	12,063	12,932
Mining . . . . .	28,181	38,367	40,924	42,246	43,954	23,405	32,035	33,925	34,964	36,292
Construction . . . . .	22,033	27,581	29,793	31,337	32,338	18,571	22,768	24,584	25,888	26,647
Manufacturing . . . . .	22,023	29,999	32,153	33,710	34,834	17,954	24,549	26,358	27,633	28,504
Transportation . . . . .								26,382	27,145	27,718
Communication . . . . .								34,462	35,538	36,717
Electric, gas, and sanitary services . . . . .								34,772	36,014	37,734
Wholesale trade . . . . .	21,598	28,853	31,394	33,635	34,673	18,822	25,013	27,270	29,243	30,102
Retail trade . . . . .	12,490	15,625	16,779	17,454	17,859	10,953	13,602	14,585	15,144	15,477
Finance, insurance, and real estate . . . . .	18,968	28,014	32,376	34,600	35,424	15,871	23,724	27,718	29,648	30,258
Services . . . . .	15,236	21,395	23,787	25,282	26,380	13,460	18,743	20,948	22,286	23,251
Government and government enterprises . . . . .	19,681	27,821	30,215	31,888	33,465	15,911	22,062	23,991	25,153	26,319

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82 and Survey of Current Business*, July issues.

### No. 674. Average Hourly and Weekly Earnings in Current and Constant (1982) Dollars, by Private Industry Group: 1970 to 1989

[Average earnings include overtime. Data are for production and related workers in mining, manufacturing, and construction, and nonsupervisory employees in other industries. Excludes agriculture. See headnote, table 667. See also *Historical Statistics, Colonial Times to 1970*, series D 877-892]

PRIVATE INDUSTRY GROUP	CURRENT DOLLARS						CONSTANT (1982) DOLLARS <sup>1</sup>					
	1970	1980	1985	1987	1988	1989	1970	1980	1985	1987	1988	1989
<b>Average hourly earnings</b> . . . . .	<b>3.23</b>	<b>6.66</b>	<b>8.57</b>	<b>8.98</b>	<b>9.28</b>	<b>9.66</b>	<b>8.03</b>	<b>7.78</b>	<b>7.77</b>	<b>7.73</b>	<b>7.69</b>	<b>7.64</b>
Manufacturing . . . . .	3.35	7.27	9.54	9.91	10.19	10.49	8.33	8.49	8.65	8.54	8.44	8.29
Mining . . . . .	3.65	9.17	11.98	12.54	12.80	13.25	9.58	10.71	10.86	10.80	10.60	10.47
Construction . . . . .	5.24	9.94	12.32	12.71	13.08	13.52	13.03	11.61	11.17	10.95	10.84	10.69
Transportation, public utilities . . . . .	3.85	8.67	11.40	12.03	12.26	12.61	9.58	10.36	10.34	10.36	10.16	9.94
Wholesale trade . . . . .	3.43	6.95	9.15	9.59	9.98	10.39	8.53	8.12	8.30	8.26	8.27	8.21
Retail trade . . . . .	2.44	4.68	5.94	6.12	6.31	6.53	6.07	5.70	5.39	5.27	5.23	5.16
Finance, insurance, real estate . . . . .	3.07	5.79	7.94	8.73	9.05	9.54	7.64	6.76	7.20	7.52	7.51	7.54
Services . . . . .	2.81	5.65	7.90	8.49	8.88	9.39	6.99	6.83	7.16	7.31	7.36	7.42
<b>Average weekly earnings</b> . . . . .	<b>120</b>	<b>235</b>	<b>299</b>	<b>313</b>	<b>322</b>	<b>334</b>	<b>298</b>	<b>275</b>	<b>271</b>	<b>269</b>	<b>267</b>	<b>264</b>
Manufacturing . . . . .	133	289	386	406	419	430	332	337	350	350	347	340
Mining . . . . .	164	397	520	532	541	570	409	464	471	458	449	450
Construction . . . . .	195	368	464	480	496	512	486	430	421	414	411	405
Transportation, public utilities . . . . .	156	351	450	472	476	491	388	410	408	406	394	388
Wholesale trade . . . . .	137	267	351	365	380	395	341	312	318	315	315	312
Retail trade . . . . .	82	147	175	179	184	189	205	172	158	154	152	149
Finance, insurance, real estate . . . . .	113	210	289	317	325	342	261	245	262	273	269	270
Services . . . . .	97	191	257	276	289	306	240	223	233	236	240	242

<sup>1</sup> Earnings in current dollars divided by the Consumer Price Index (CPI-W) on a 1982 base; see text, section 15.

Source: U.S. Bureau of Labor Statistics, *Bulletin 2370 and Employment and Earnings*, monthly.

### No. 675. Annual Percent Changes in Earnings and Compensation: 1980 to 1989

[Annual percent change from immediate prior year. Minus sign (-) indicates decrease]

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Current dollars:</b>										
Hourly earnings, total <sup>1</sup> . . . . .	8.1	8.9	5.9	4.4	3.7	3.0	2.2	2.5	3.3	4.1
Hourly earnings, manufacturing . . . . .	8.5	9.9	6.3	4.0	4.1	3.8	2.0	1.8	2.8	2.9
Compensation per employee-hour . . . . .	10.4	9.5	7.4	4.0	3.9	4.0	5.0	3.7	4.8	3.0
<b>Constant (1982) dollars:</b>										
Hourly earnings, total <sup>1</sup> . . . . .	-5.0	-1.2	-0.1	1.4	0.1	-0.4	0.5	-1.0	-0.5	-0.7
Hourly earnings, manufacturing . . . . .	-4.7	-0.2	0.2	0.9	0.6	0.3	0.3	-1.6	-1.2	-1.8
Compensation per employee-hour <sup>1</sup> . . . . .	-2.7	-0.8	1.2	0.7	-0.4	0.5	3.1	-	0.6	-1.8
Consumer Price Index <sup>2</sup> . . . . .	13.5	10.3	6.2	3.2	4.3	3.6	1.9	3.6	4.1	4.8

- Represents zero. <sup>1</sup> Nonfarm business sector. <sup>2</sup> See text, section 15.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*.

## No. 676. Average Annual Pay, by State: 1987 to 1989

[In dollars except percent change. For workers covered by State unemployment insurance laws and for Federal civilian workers covered by unemployment compensation for Federal employees, approximately 90 percent of total civilian employment. Excludes most agricultural workers on small farms, all Armed Forces, elected officials in most States, railroad employees, most domestic workers, employees of certain nonprofit organizations and most self-employed individuals. Pay includes bonuses, cash value of meals and lodging, and tips and other gratuities]

STATE	AVERAGE ANNUAL PAY			PERCENT CHANGE		STATE	AVERAGE ANNUAL PAY			PERCENT CHANGE	
	1987	1988	1989 <sup>1</sup>	1987-1988	1988-1989		1987	1988	1989 <sup>1</sup>	1987-1988	1988-1989
U.S. . . . .	20,857	21,872	22,567	4.9	3.2	MO. . . . .	19,601	20,295	20,899	3.5	3.0
AL. . . . .	18,318	19,003	19,593	3.7	3.1	MT. . . . .	16,438	16,957	17,224	3.2	1.6
AK. . . . .	28,008	28,033	29,704	0.1	6.0	NE. . . . .	16,526	17,190	17,694	4.0	2.9
AZ. . . . .	19,610	20,383	20,808	3.9	2.1	NV. . . . .	19,521	20,548	21,342	5.3	3.9
AR. . . . .	16,529	17,023	17,418	3.0	2.3	NH. . . . .	19,414	20,749	21,551	6.9	3.9
CA. . . . .	23,100	24,126	24,921	4.4	3.3	NJ. . . . .	23,842	25,748	26,780	8.0	4.0
CO. . . . .	20,830	21,472	21,940	3.1	2.2	NM. . . . .	17,767	18,259	18,667	2.8	2.2
CT. . . . .	24,322	26,234	27,500	7.9	4.8	NY. . . . .	24,634	26,347	27,303	7.0	3.6
DE. . . . .	20,764	21,977	23,268	5.8	5.9	NC. . . . .	17,861	18,636	19,320	4.3	3.7
DC. . . . .	28,477	30,253	32,106	6.2	6.1	ND. . . . .	16,157	16,508	16,932	2.2	2.6
FL. . . . .	18,674	19,523	20,072	4.6	2.8	OH. . . . .	20,568	21,501	21,986	4.5	2.3
GA. . . . .	19,651	20,504	21,071	4.3	2.8	OK. . . . .	18,615	19,098	19,530	2.6	2.3
HI. . . . .	19,091	20,444	21,624	7.1	5.8	OR. . . . .	18,888	19,637	20,303	4.0	3.4
ID. . . . .	17,062	17,648	18,146	3.4	2.8	PA. . . . .	20,408	21,485	22,312	5.3	3.8
IL. . . . .	22,250	23,608	24,211	6.1	2.6	RI. . . . .	18,858	20,206	21,128	7.1	4.6
IN. . . . .	19,682	20,437	20,931	3.8	2.4	SC. . . . .	17,280	18,009	18,797	4.2	4.4
IA. . . . .	17,292	17,928	18,420	3.7	2.7	SD. . . . .	14,963	15,424	15,810	3.1	2.5
KS. . . . .	18,424	19,030	19,474	3.3	2.3	TN. . . . .	18,501	19,209	19,712	3.8	2.6
KY. . . . .	18,008	18,545	19,001	3.0	2.5	TX. . . . .	20,463	21,130	21,740	3.3	2.9
LA. . . . .	19,707	19,330	19,750	3.3	2.2	UT. . . . .	18,303	18,910	19,362	3.3	2.4
ME. . . . .	17,447	18,347	19,202	5.2	4.7	VT. . . . .	17,703	18,640	19,497	5.3	4.6
MD. . . . .	21,324	22,515	23,466	5.6	4.2	VA. . . . .	19,963	21,053	21,879	5.5	3.9
MA. . . . .	22,486	24,143	25,233	7.4	4.5	WA. . . . .	20,110	20,806	21,617	3.5	3.9
MI. . . . .	23,081	24,193	24,853	4.8	2.7	WV. . . . .	18,820	19,341	19,789	2.8	2.3
MN. . . . .	20,450	21,481	22,155	5.0	3.1	WI. . . . .	18,890	19,743	20,204	4.5	2.3
MS. . . . .	15,938	16,522	17,047	3.7	3.2	WY. . . . .	18,817	19,097	19,230	1.5	0.7

<sup>1</sup> Preliminary.

Source: U.S. Bureau of Labor Statistics, *Employment and Wages, Annual Averages 1989*, and USDL News Release 90-431, *Average Annual Pay by State and Industry, 1989*.

## No. 677. Average Annual Pay, by Selected Metropolitan Areas: 1987 to 1989

[In dollars. Metropolitan areas ranked by population size 1988. For composition of metropolitan areas, see Appendix II. See also headnote table 676. For civilian labor force data, see table 637]

METROPOLITAN AREA	1987	1988	1989 <sup>1</sup>	METROPOLITAN AREA	1987	1988	1989 <sup>1</sup>
U.S. total . . . . .	20,857	21,872	22,567	Kansas City, MO-KS MSA . . . . .	20,848	21,598	22,219
U.S. metropolitan total . . . . .	21,722	22,891	23,573	Milwaukee-Racine, WI CMSA . . . . .	20,758	21,738	22,297
New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA . . . . .	25,976	28,104	29,208	Portland-Vancouver, OR-WA CMSA . . . . .	20,386	21,227	22,014
Los Angeles-Anaheim-Riverside, CA CMSA . . . . .	23,921	24,944	25,682	Sacramento, CA MSA . . . . .	21,047	21,933	23,002
Chicago-Gary-Lake County (IL), IL-IN-WI MSA . . . . .	23,481	25,033	25,702	Norfolk-Virginia Beach-Newport News, VA MSA . . . . .	18,268	18,983	19,411
San Francisco-Oakland-San Jose, CA CMSA . . . . .	25,375	26,674	27,568	Columbus, OH MSA . . . . .	20,333	21,301	21,835
Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA . . . . .	22,530	23,997	25,069	San Antonio, TX MSA . . . . .	18,436	19,325	19,677
Detroit-Ann Arbor, MI CMSA . . . . .	25,178	26,467	27,188	New Orleans, LA MSA . . . . .	19,788	20,389	20,695
Dallas-Fort Worth, TX CMSA . . . . .	22,768	23,553	24,297	Indianapolis, IN MSA . . . . .	21,081	21,877	22,345
Boston-Lawrence-Salem-Lowell-Brockton, MA NECMA . . . . .	23,888	25,731	26,915	Buffalo-Niagara Falls, NY CMSA . . . . .	19,404	20,396	21,080
Washington, DC-MD-VA MSA . . . . .	25,210	26,784	28,103	Charlotte-Gastonia-Rock Hill, NC-SC MSA . . . . .	19,806	20,697	21,617
Houston-Galveston-Brazoria, TX CMSA . . . . .	23,373	24,274	25,023	Hartford-New Britain-Middletown-CT NECMA . . . . .	24,151	25,787	27,224
Miami-Fort Lauderdale, FL CMSA . . . . .	20,602	21,551	21,918	Salt Lake City-Ogden, UT MSA . . . . .	18,856	19,498	20,014
Cleveland-Akron-Lorain, OH CMSA . . . . .	21,782	22,802	23,381	Rochester, NY MSA . . . . .	22,307	23,469	24,550
Atlanta, GA MSA . . . . .	22,426	23,445	24,072	Memphis, TN-AR-MS MSA . . . . .	19,709	20,371	20,877
St. Louis, MO-IL MSA . . . . .	21,793	22,735	23,408	Nashville, TN MSA . . . . .	19,737	20,469	21,202
Seattle-Tacoma, WA CMSA . . . . .	21,863	23,019	23,608	Orlando, FL MSA . . . . .	18,923	19,930	20,373
Minneapolis-St. Paul, MN-WI MSA . . . . .	22,385	23,678	24,372	Louisville, KY-IN MSA . . . . .	19,448	20,048	20,579
San Diego, CA MSA . . . . .	21,051	22,183	22,956	Oklahoma City, OK MSA . . . . .	19,534	19,998	20,444
Baltimore, MD MSA . . . . .	20,978	22,261	23,109	Dayton-Springfield, OH MSA . . . . .	20,612	21,981	22,320
Pittsburgh-Beaver Valley, PA CMSA . . . . .	20,949	21,811	22,435	Greensboro-Winston-Salem-High Point, NC MSA . . . . .	19,150	20,204	20,950
Phoenix, AZ MSA . . . . .	20,612	21,438	21,954	Birmingham, AL MSA . . . . .	19,917	20,775	21,542
Tampa-St. Petersburg-Clearwater, FL MSA . . . . .	17,911	18,714	19,456	Providence-Pawtucket-Woonsocket, RI NECMA . . . . .	18,696	20,089	21,059
Denver-Boulder, CO CMSA . . . . .	22,649	23,368	23,898	Jacksonville, FL MSA . . . . .	19,141	19,987	20,571
Cincinnati-Hamilton, OH-KY-IN CMSA . . . . .	21,142	21,933	22,511	Albany-Schenectady-Troy, NY MSA . . . . .	20,607	21,779	22,807
				Richmond-Petersburg, VA MSA . . . . .	20,374	21,293	22,351
				Honolulu, HI MSA . . . . .	19,718	21,196	22,399

<sup>1</sup> Preliminary.

Source: U.S. Bureau of Labor Statistics, USDL News Release 90-484, *Average Annual Pay Levels in Metropolitan Areas, 1989*, and earlier issues.

# No. 678. Full-Time Wage and Salary Workers—Number and Median Weekly Earnings, by Selected Characteristics: 1983 to 1989

[In current dollars of usual weekly earnings. Data represent annual averages of quarterly data. See text, section 13 for a discussion of occupational data. Based on Current Population Survey; see text, section 1, and Appendix III. For definition of median, see Guide to Tabular Presentation]

CHARACTERISTIC	NUMBER OF WORKERS (1,000)				MEDIAN WEEKLY EARNINGS (dol.)			
	1983	1985	1988	1989	1983	1985	1988	1989
<b>All workers</b> <sup>1</sup>	70,976	77,002	82,692	84,553	313	343	385	399
Male	42,309	45,589	48,049	48,949	378	406	449	468
16 to 24 years old	6,702	6,956	6,677	6,665	223	240	261	271
25 years old and over	35,607	38,632	41,371	42,283	406	442	487	500
Female	28,667	31,414	34,643	35,605	252	277	315	328
16 to 24 years old	5,345	5,621	5,444	5,223	197	210	235	246
25 years old and over	23,322	25,793	29,199	30,382	267	296	335	351
White	61,739	66,481	70,845	72,113	319	355	394	409
Male	37,378	40,030	41,831	42,465	387	417	465	482
Female	24,361	26,452	29,014	29,648	254	281	318	334
Black	7,373	8,393	9,352	9,628	261	277	314	319
Male	3,883	4,367	4,826	4,932	293	304	347	348
Female	3,490	4,026	4,527	4,696	231	252	288	301
Hispanic origin	(NA)	(NA)	6,460	6,718	(NA)	(NA)	290	298
Male	(NA)	(NA)	4,091	4,247	(NA)	(NA)	307	315
Female	(NA)	(NA)	2,370	2,472	(NA)	(NA)	260	269
Family relationship:								
Husbands	28,720	30,260	30,995	31,282	410	455	500	513
Wives	14,884	16,270	17,907	18,448	257	285	324	342
Women who maintain families	3,948	4,333	4,795	5,000	256	278	311	321
Men who maintain families	1,331	1,313	1,615	1,672	377	396	413	425
Other persons in families:								
Men	5,518	6,173	6,498	6,569	219	238	270	282
Women	4,032	4,309	4,502	4,439	201	213	247	257
All other men	6,740	7,841	8,938	9,426	350	380	412	428
All other women	5,803	6,503	7,442	7,718	274	305	345	361
Occupation, male:								
Managerial and professional	10,312	11,078	11,968	12,281	516	583	666	693
Exec., admin., managerial	5,344	5,835	6,238	6,544	530	593	682	698
Professional specialty	4,967	5,243	5,730	5,737	506	571	65	688
Technical, sales, and administrative support	8,125	8,803	9,267	9,332	385	420	472	480
Tech. and related support	1,428	1,563	1,647	1,666	424	472	510	538
Sales	3,853	4,227	4,519	4,581	389	431	488	487
Admin. support, incl. clerical	2,844	3,013	3,101	3,085	362	391	418	421
Service	3,723	3,947	4,317	4,351	255	272	299	306
Private household	11	13	8	15	(B)	(B)	(B)	(B)
Protective	1,314	1,327	1,543	1,490	355	391	424	460
Other service	2,398	2,607	2,766	2,846	217	230	257	262
Precision production	9,180	10,026	10,249	10,413	387	408	446	469
Mechanics and repairers	3,418	3,752	3,713	3,798	377	400	441	457
Construction trades	2,966	3,308	3,622	3,681	375	394	423	451
Other	2,796	2,966	2,914	2,935	408	433	477	494
Operators, fabricators, and laborers	9,833	10,585	11,026	11,349	308	325	352	366
Machine operators, assemblers, and inspectors	4,138	4,403	4,454	4,526	319	341	366	379
Transportation and material moving	3,199	3,459	3,636	3,774	335	369	394	408
Handlers, equipment cleaners, helpers, and laborers	2,496	2,724	2,936	3,049	251	261	287	297
Farming, forestry, fishing	1,137	1,150	1,221	1,222	200	216	234	252
Occupation, female:								
Managerial and professional	7,139	8,302	8,802	10,363	357	399	465	488
Exec., admin., managerial	2,772	3,492	4,487	4,791	339	383	430	458
Professional specialty	4,367	4,810	5,315	5,572	367	408	485	506
Technical, sales, and administrative support	13,517	14,622	15,664	15,863	247	269	305	317
Tech. and related support	1,146	1,200	1,313	1,376	299	331	384	403
Sales	2,460	2,929	3,222	3,401	204	226	264	278
Admin. support, incl. clerical	9,911	10,494	11,129	11,085	248	270	305	316
Service	3,598	3,963	4,352	4,487	173	185	208	218
Private household	267	330	320	310	116	130	139	157
Protective	139	156	204	224	250	278	347	354
Other service	3,193	3,477	3,828	3,953	176	188	210	219
Precision production	784	906	926	913	256	268	302	311
Mechanics and repairers	120	144	137	138	337	392	392	470
Construction trades	45	53	69	64	(B)	265	335	336
Other	619	709	721	711	244	253	284	295
Operators, fabricators, and laborers	3,486	3,482	3,737	3,817	204	216	238	252
Machine operators, assemblers, and inspectors	2,853	2,778	2,952	3,004	202	216	236	251
Transportation and material moving	159	189	216	226	253	252	286	307
Handlers, equipment cleaners, helpers and laborers	474	514	569	587	211	209	237	241
Farming, forestry, fishing	143	138	161	162	169	185	201	211

B Data not shown where base is less than 50,000. NA Not available. <sup>1</sup> Includes other races, not shown separately.  
<sup>2</sup> Persons of Hispanic origin may be of any race. <sup>3</sup> The majority of these persons are living alone or with nonrelatives. Also included are persons in families where the husband, wife or other person maintaining the family is in the Armed Forces, and persons in unrelated subfamilies. <sup>4</sup> Includes craft and repair.

Source: U.S. Bureau of Labor Statistics, Bulletin 2307, and *Employment and Earnings*, January issues.

### No. 679. Median Weekly Earnings of Families by Type of Family, Number of Earners, Race, and Hispanic Origin: 1980 to 1989

[In current dollars of usual weekly earnings. Annual averages of quarterly figures based on Current Population Survey; see text, section 1, and Appendix III. For families with wage and salary earners]

CHARACTERISTIC	NUMBER OF FAMILIES (1,000)					MEDIAN WEEKLY EARNINGS (dollars)				
	1980	1985	1987	1988	1989	1980	1985	1987	1988	1989
<b>TOTAL</b>										
<b>Total families with earners<sup>1</sup></b>	<b>41,162</b>	<b>41,616</b>	<b>42,733</b>	<b>42,913</b>	<b>43,525</b>	<b>400</b>	<b>522</b>	<b>572</b>	<b>596</b>	<b>624</b>
Married-couple families	33,825	33,459	33,844	33,864	34,125	433	582	637	668	701
One earner	14,797	13,347	12,668	12,365	12,139	303	385	405	418	430
Husband	12,127	10,346	9,640	9,429	9,175	336	440	477	489	502
Wife	2,059	2,243	2,272	2,199	2,236	159	217	230	238	251
Other family member	611	758	757	736	727	163	204	212	228	253
Two or more earners <sup>2</sup>	19,028	20,112	21,176	21,499	21,987	535	715	776	811	845
Husband and wife only	12,990	14,019	14,955	15,278	15,761	507	684	741	773	808
Husband and other family member(s)	2,369	2,159	1,996	1,872	1,811	557	689	749	787	801
Wife and other family member(s)	426	514	560	520	519	350	454	512	495	521
Other family members only	139	176	147	162	169	358	468	501	494	558
Families maintained by women	5,690	6,470	6,963	6,989	7,295	222	297	317	334	347
One earner	4,022	4,397	4,702	4,741	4,929	184	234	254	260	273
Householder	3,104	3,432	3,675	3,743	3,898	188	243	263	269	282
Other family member	918	965	1,027	999	1,031	168	200	215	225	234
Two or more earners	1,668	2,073	2,260	2,247	2,366	370	487	514	554	566
Families maintained by men	1,647	1,688	1,926	2,061	2,104	360	450	478	486	506
One earner	1,016	1,031	1,144	1,221	1,216	283	346	353	374	382
Two or more earners	631	656	782	840	888	502	625	675	700	718
<b>WHITE</b>										
<b>Total families with earners<sup>1</sup></b>	<b>35,786</b>	<b>35,848</b>	<b>36,555</b>	<b>36,667</b>	<b>36,981</b>	<b>411</b>	<b>543</b>	<b>592</b>	<b>616</b>	<b>651</b>
Married-couple families	30,316	29,899	30,095	30,135	30,233	438	589	647	677	712
One earner <sup>2</sup>	13,437	12,097	11,385	11,120	10,815	311	395	416	432	449
Husband	11,152	9,496	8,784	8,609	8,310	343	452	485	497	511
Wife	1,740	1,925	1,946	1,866	1,879	160	218	231	243	254
Two or more earners	16,878	17,802	18,710	19,015	19,418	542	723	785	818	854
Husband and wife only	11,448	12,394	13,232	13,516	13,944	511	691	748	780	817
Families maintained by women	4,140	4,616	4,959	4,930	5,114	233	311	329	351	363
Families maintained by men	1,331	1,333	1,501	1,602	1,634	374	475	492	496	522
<b>BLACK</b>										
<b>Total families with earners<sup>1</sup></b>	<b>4,503</b>	<b>4,668</b>	<b>4,942</b>	<b>4,999</b>	<b>5,133</b>	<b>299</b>	<b>378</b>	<b>412</b>	<b>435</b>	<b>447</b>
Married-couple families	2,802	2,671	2,768	2,747	2,782	366	487	529	576	579
One earner <sup>2</sup>	1,103	902	924	878	929	210	257	289	281	299
Husband	769	580	581	546	576	244	292	335	339	360
Wife	279	257	264	258	282	151	206	215	205	230
Two or more earners	1,700	1,769	1,843	1,870	1,853	472	622	675	713	730
Husband and wife only	1,238	1,258	1,318	1,340	1,348	461	603	646	685	706
Families maintained by women	1,438	1,703	1,822	1,884	1,984	192	259	284	291	303
Families maintained by men	263	294	352	368	367	307	360	383	419	430
<b>HISPANIC ORIGIN<sup>3</sup></b>										
<b>Total families with earners<sup>1</sup></b>	<b>(NA)</b>	<b>(NA)</b>	<b>3,219</b>	<b>3,384</b>	<b>3,542</b>	<b>(NA)</b>	<b>(NA)</b>	<b>425</b>	<b>451</b>	<b>480</b>
Married-couple families	(NA)	(NA)	2,411	2,488	2,619	(NA)	(NA)	473	494	520
One earner <sup>2</sup>	(NA)	(NA)	1,032	1,044	1,044	(NA)	(NA)	292	301	310
Husband	(NA)	(NA)	838	867	858	(NA)	(NA)	314	316	332
Wife	(NA)	(NA)	122	119	126	(NA)	(NA)	209	236	220
Two or more earners	(NA)	(NA)	1,379	1,444	1,574	(NA)	(NA)	615	671	667
Husband and wife only	(NA)	(NA)	864	908	977	(NA)	(NA)	593	623	630
Families maintained by women	(NA)	(NA)	575	634	633	(NA)	(NA)	285	295	337
Families maintained by men	(NA)	(NA)	234	261	291	(NA)	(NA)	418	429	467

NA Not available. <sup>1</sup> Excludes families in which there is no wage or salary earner or in which the husband, wife, or other person maintaining the family is either self-employed or in the Armed Forces. <sup>2</sup> Includes other earners, not shown separately. <sup>3</sup> Persons of Hispanic origin may be of any race.

Source: U.S. Bureau of Labor Statistics, Bulletin 2307, and *Employment and Earnings*, January issues.

**No. 680. Number of Workers With Earnings and Median Earnings, by Occupation of Longest Job Held and Sex: 1989**[Covers civilians 15 years old and over as of **March 1990**. Based on Current Population Survey; see text, section 1, and Appendix III. For definition of median, see Guide to Tabular Presentation]

MAJOR OCCUPATION OF LONGEST JOB HELD	ALL WORKERS				YEAR ROUND FULL-TIME					
	Women		Men		Women		Men		Ratio: Women to men	
	Number (1,000)	Median earnings	Number (1,000)	Median earnings	Number (1,000)	Median earnings	Number (1,000)	Median earnings	Number	Median earnings
<b>Total</b> <sup>1</sup>	<b>61,338</b>	<b>\$11,736</b>	<b>72,045</b>	<b>\$21,376</b>	<b>31,290</b>	<b>\$18,778</b>	<b>48,825</b>	<b>\$27,430</b>	<b>0.64</b>	<b>0.68</b>
Executive, administrators, and managerial	6,370	21,551	9,221	36,696	4,765	24,589	7,940	40,103	0.60	0.61
Professional specialty	8,703	22,089	8,053	35,548	4,701	27,933	6,316	39,449	0.74	0.71
Technical and related support	2,056	18,484	2,105	27,453	1,337	21,768	1,583	31,371	0.84	0.69
Sales	8,653	6,990	7,929	22,777	3,384	16,057	5,735	29,676	0.59	0.54
Admin. support, incl. clerical	16,539	13,542	4,152	19,991	9,619	17,517	2,912	25,138	3.30	0.70
Precision production, craft and repair	1,311	14,121	13,661	22,146	835	17,457	9,622	26,499	0.09	0.66
Machine operators, assemblers, and inspectors	3,788	10,845	5,080	19,200	2,142	14,463	3,608	22,343	0.59	0.65
Transportation and material moving	511	9,114	4,858	19,474	184	16,288	3,172	23,612	0.06	0.69
Handlers, equipment cleaners, helpers, and laborers	1,061	6,654	5,045	9,264	342	14,095	2,129	18,046	0.16	0.78
Service workers	11,611	5,487	7,465	10,558	3,763	11,669	3,939	18,903	0.96	0.62
Private household	1,047	2,042	51	(B)	201	6,882	17	(B)	11.82	(X)
Service, except private household	10,564	5,940	7,413	10,599	3,563	11,868	3,921	18,970	0.91	0.63
Farming, forestry, and fishing	656	3,977	3,531	7,668	205	11,305	1,769	13,885	0.12	0.81

B Base less than 75,000. X Not applicable. <sup>1</sup> Includes persons whose longest job was in the Armed Forces.  
Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, No. 168.**No. 681. Employment Cost Index (ECI), by Industry and Occupation: 1983 to 1989**[As of **December**. The ECI is a measure of the rate of change in employee compensation (wages, salaries, and employer costs for employee benefits). Data are not seasonally adjusted: 1983-1985 based on 1970 Census of Population; thereafter, based on fixed employment counts from the 1980 Census of Population]

ITEM	INDEXES (June 1989 = 100)							PERCENT CHANGE FOR 12 MONTHS ENDING—				
	1983	1984	1985	1986	1987	1988	1989	1985	1986	1987	1988	1989
<b>Civilian workers</b> <sup>1</sup>	<b>79.1</b>	<b>83.2</b>	<b>86.8</b>	<b>89.9</b>	<b>93.1</b>	<b>97.7</b>	<b>102.6</b>	<b>4.3</b>	<b>3.6</b>	<b>3.6</b>	<b>4.9</b>	<b>5.0</b>
Workers, by occupational group:												
White-collar workers	77.5	81.8	85.8	89.2	92.7	97.6	102.9	4.9	4.0	3.9	5.3	5.4
Blue-collar workers	82.0	85.6	88.4	90.9	93.8	97.8	102.0	3.3	2.8	3.2	4.3	4.3
Service workers	78.8	83.9	87.2	90.3	93.1	98.2	102.8	3.9	3.6	3.1	5.5	4.7
Workers, by industry division:												
Manufacturing	80.8	85.0	87.8	90.7	93.4	97.6	102.0	3.3	3.3	3.0	4.5	4.5
Nonmanufacturing	78.4	82.5	86.4	89.6	92.9	97.7	102.8	4.7	3.7	3.7	5.2	5.2
Services	75.2	80.3	84.1	88.0	92.3	97.9	103.7	4.7	4.6	4.9	6.1	5.9
Public administration	76.9	81.4	85.4	89.7	93.8	97.8	103.2	4.9	5.0	4.6	4.3	5.5
<b>Private industry workers</b> <sup>3</sup>	<b>80.1</b>	<b>84.0</b>	<b>87.3</b>	<b>90.1</b>	<b>93.1</b>	<b>97.6</b>	<b>102.3</b>	<b>3.9</b>	<b>3.2</b>	<b>3.3</b>	<b>4.8</b>	<b>4.8</b>
Workers, by occupational group:												
White-collar workers	78.4	82.4	86.4	89.4	92.7	97.3	102.4	4.9	3.5	3.7	5.0	5.2
Blue-collar workers	82.3	85.8	88.5	90.9	93.7	97.9	101.9	3.1	2.7	3.1	4.5	4.1
Service workers	80.5	85.8	88.4	91.1	93.3	98.2	102.5	3.0	3.1	2.4	5.3	4.4
Workers, by industry division:												
Manufacturing	80.8	85.0	87.8	90.7	93.4	97.6	102.0	3.3	3.3	3.0	4.5	4.5
Nonmanufacturing	79.6	83.4	87.0	89.7	92.9	97.5	102.3	4.3	3.1	3.6	5.0	4.9
Services	(NA)	(NA)	84.1	87.7	92.2	97.5	102.9	(NA)	4.3	5.1	5.7	5.5
Business services	(NA)	(NA)	(NA)	87.2	92.5	97.2	101.3	(NA)	(NA)	6.1	5.1	4.2
Health services	(NA)	(NA)	(NA)	83.7	87.7	91.5	97.0	(NA)	4.8	4.3	6.0	6.9
Hospitals	(NA)	(NA)	(NA)	86.8	91.0	96.6	103.5	(NA)	(NA)	4.8	6.2	7.1
Workers by bargaining status:												
Union	84.2	87.8	90.1	92.0	94.5	98.2	101.8	2.6	2.1	2.7	3.9	3.7
Nonunion	78.5	82.5	86.3	89.4	92.7	97.4	102.4	4.6	3.6	3.7	5.1	5.1
<b>State and local government workers</b>	<b>75.1</b>	<b>80.1</b>	<b>84.6</b>	<b>89.0</b>	<b>93.0</b>	<b>98.2</b>	<b>104.3</b>	<b>5.6</b>	<b>5.2</b>	<b>4.5</b>	<b>5.6</b>	<b>6.2</b>
Workers, by occupational group:												
White-collar workers	74.5	79.6	84.2	88.7	92.8	98.3	104.6	5.8	5.3	4.6	5.9	6.4
Blue-collar workers	77.9	82.3	86.7	91.2	94.3	97.5	103.7	5.3	5.2	3.4	3.4	6.4
Workers, by industry division:												
Services	74.1	79.3	84.0	88.6	92.5	98.5	104.7	5.9	5.5	4.4	6.5	6.3
Schools	73.1	78.7	83.6	88.4	92.7	98.7	105.3	6.2	5.7	4.9	6.5	6.7
Elementary and secondary	72.9	78.6	83.6	88.5	92.9	99.1	105.5	6.4	5.9	5.0	6.7	6.5
Services, excluding schools	77.3	81.4	85.2	88.9	92.2	97.8	103.2	4.7	4.3	3.7	6.1	5.5
Public administration	76.9	81.4	85.4	89.7	93.8	97.8	103.2	4.9	5.0	4.6	4.3	5.5

NA Not available.  
Federal government work-  
household workers.<sup>4</sup> If  
Source: U.S. Bureau<sup>3</sup> State and local government workers and excludes farm, household, and judicial, administrative, and regulatory activities.  
<sup>4</sup> Excludes farm and health services. Formerly called hospitals and other services.  
<sup>5</sup> Employment Cost Index, quarterly.

### No. 682. Effective Federal Minimum Hourly Wage Rates, 1950 to 1991, and Coverage in 1989

[Employee estimates as of **September 1989**, except as indicated. The Fair Labor Standards Act of 1938 and subsequent amendments provide for minimum wage coverage applicable to specified nonsupervisory employment categories. Exempt from coverage are executives and administrators or professionals]

IN EFFECT	MINIMUM RATES FOR NONFARM			Min-imum rates for farm work-ers <sup>4</sup>	SEX, RACE, AND INDUSTRY	NONSUPERVISORY EMPLOYEES, 1989				
	Laws prior to 1966 <sup>1</sup>	Per-cent, avg. earn-ings <sup>2</sup>	1966 and later <sup>3</sup>			Total (1,000)	Subject to minimum wage rates			
						Total (1,000)	Total (1,000)	Per-cent of total	Prior to 1966 <sup>7,8</sup> (1,000)	1966 and later <sup>9</sup> (1,000)
Jan. 25, 1950.....	\$0.75	54	(X)	(X)	<b>Total.....</b>	<b>91,949</b>	<b>80,685</b>	<b>87.7</b>	<b>51,243</b>	<b>29,442</b>
Mar. 1, 1956.....	1.00	52	(X)	(X)						
Sept. 3, 1961.....	1.15	50	(X)	(X)	Male.....	47,211	41,270	87.4	27,751	13,519
Sept. 3, 1963.....	1.25	51	(X)	(X)	Female.....	44,738	39,415	88.1	23,492	15,923
Feb. 1, 1967.....	1.40	50	\$1.00	\$1.00	White.....	80,774	70,650	87.5	45,771	24,879
Feb. 1, 1968.....	1.60	54	1.15	1.15	Black and other.....	11,175	10,035	89.8	5,472	4,563
Feb. 1, 1969.....	(5)	51	1.30	1.30	Black only.....	10,184	9,145	89.8	4,992	4,153
Feb. 1, 1970.....	(5)	49	1.45	(5)						
Feb. 1, 1971.....	(5)	46	1.60	(5)	<b>Private industry.....</b>	<b>81,039</b>	<b>69,775</b>	<b>86.1</b>	<b>51,243</b>	<b>18,532</b>
					Agriculture.....	1,680	645	38.4	-	645
May 1, 1974.....	2.00	46	1.90	1.60	Mining.....	646	642	99.4	642	-
Jan. 1, 1975.....	2.10	45	2.00	1.80	Construction.....	5,044	5,022	99.6	4,202	820
Jan. 1, 1976.....	2.30	46	2.20	2.00	Manufacturing.....	17,422	16,941	97.2	16,833	108
Jan. 1, 1977.....	(5)	42	2.30	2.20	Transp., public utilities.....	5,100	5,068	99.4	4,989	79
Jan. 1, 1978.....	2.65	44	2.65	2.65	Wholesale trade.....	5,388	4,299	79.8	4,039	260
Jan. 1, 1979.....	2.90	45	2.90	2.90	Retail trade.....	17,739	15,574	87.8	7,914	7,660
Jan. 1, 1980.....	3.10	44	3.10	3.10	Finance, insurance, real estate.....	5,868	4,449	75.8	4,275	174
Jan. 1, 1981.....	3.35	43	3.35	3.35	Service <sup>10</sup> .....	20,832	16,245	78.0	8,349	7,896
Apr. 1, 1990.....	3.80	35	3.80	3.80	Private households.....	1,320	890	67.4	-	890
Apr. 1, 1991.....	4.25	38	4.25	4.25	<b>Government<sup>11</sup>.....</b>	<b>10,910</b>	<b>10,910</b>	<b>100.0</b>	<b>-</b>	<b>10,910</b>

- Represents zero. X Not applicable. <sup>1</sup> Applies to workers covered prior to 1961 Amendments and, after Sept. 1965, to workers covered by 1961 Amendments. Rates set by 1961 Amendments were: Sept. 1961, \$1.00; Sept. 1964, \$1.15; and Sept. 1965, \$1.25. <sup>2</sup> Percent of gross average hourly earnings of production workers in manufacturing. <sup>3</sup> Applies to workers newly covered by Amendments of 1966, 1974, and 1977, and Title IX of Education Amendments of 1972. <sup>4</sup> Included in coverage as of 1966, 1974, and 1977 Amendments. <sup>5</sup> No change in rate. <sup>6</sup> Assumes earnings increase at an annual rate of 3.8 percent. <sup>7</sup> Includes workers in retail-service establishments with less than \$250,000 in gross annual sales which are part of enterprises covered under criteria in effect prior to the 1966 Amendments. These workers became subject under the 1974 Amendments. <sup>8</sup> Currently employed workers subject to provisions. <sup>9</sup> Estimates based on average employment for the ten-month active season. <sup>10</sup> Estimates for educational services in private industry and government relate to October. <sup>11</sup> Federal, State, and local employees.

Source: U.S. Department of Labor, Employment Standards Administration, *Minimum Wage and Maximum Hours Standards Under the Fair Labor Standards Act*, 1981, annual; and unpublished data.

### No. 683. Workers Paid Hourly Rates, by Selected Characteristics: 1989

[Annual averages of monthly figures; for employed wage and salary workers. Based on Current Population Survey, see text, section 1, and Appendix III]

CHARACTERISTIC	NUMBER OF WORKERS <sup>1</sup> (1,000)				PERCENT DISTRIBUTION			PERCENT OF ALL WORKERS PAID HOURLY RATES			Median hourly earnings of workers paid hourly rates <sup>2</sup>
	Total paid hourly rates	At or below \$3.35			Total paid hourly rates	At or below \$3.35		At or below \$3.35			
		Total	At \$3.35	Below \$3.35		At \$3.35	Below \$3.35	Total	At \$3.35	Below \$3.35	
Total, 16 years and over <sup>3</sup>	62,389	3,162	1,790	1,372	100.0	100.0	100.0	5.1	2.9	2.2	\$6.99
16 to 24 years	15,635	1,723	1,050	673	25.1	58.7	49.1	11.0	6.7	4.3	4.95
16 to 19 years	6,077	1,079	710	369	9.7	39.7	26.9	17.8	11.7	6.1	4.22
25 years and over	46,754	1,438	739	699	74.9	41.3	50.9	3.1	1.6	1.5	7.94
Male, 16 years and over	31,687	1,112	733	379	50.8	40.9	27.6	3.5	2.3	1.2	8.10
16 to 24 years	8,135	717	497	220	13.0	27.8	16.0	8.8	6.1	2.7	5.17
16 to 19 years	3,086	461	343	118	4.9	19.2	8.6	15.0	11.2	3.8	4.39
25 years and over	23,552	396	237	159	37.8	13.2	11.6	1.7	1.0	0.7	9.71
Women, 16 years and over	30,702	2,050	1,056	994	49.2	59.0	72.4	6.7	3.4	3.2	6.11
16 to 24 years	7,500	1,006	553	453	12.0	30.9	33.0	13.4	7.4	6.0	4.69
16 to 19 years	3,011	618	367	251	4.8	20.5	18.3	20.5	12.2	8.3	4.10
25 years and over	23,203	1,043	503	540	37.2	28.1	39.4	4.5	2.2	2.3	6.78
White	52,249	2,593	1,380	1,213	83.7	77.1	88.4	5.0	2.6	2.3	7.08
Black	8,152	491	372	119	13.1	20.8	8.7	6.0	4.6	1.5	6.43
Hispanic origin <sup>4</sup>	5,692	277	192	85	9.1	10.7	6.2	4.9	3.4	1.5	6.07
Full-time workers	47,059	1,040	585	455	75.4	32.7	33.2	2.2	1.2	1.0	7.83
Part-time workers <sup>5</sup>	15,330	2,122	1,204	918	24.6	67.3	66.9	13.8	7.9	6.0	4.83
Private sector	54,540	2,895	1,590	1,305	87.4	88.8	95.1	5.3	2.9	2.4	6.81
Goods-producing industries <sup>6</sup>	19,468	323	234	89	31.2	13.1	6.5	1.7	1.2	0.5	8.29
Service-producing industries <sup>7</sup>	35,072	2,571	1,356	1,215	56.2	75.8	88.6	7.3	3.9	3.5	5.95
Public sector	7,849	267	199	68	12.6	11.1	5.0	3.4	2.5	0.9	8.60

<sup>1</sup> Excludes the incorporated self-employed. <sup>2</sup> For definition of median, see Guide to Tabular Presentation. <sup>3</sup> Includes races not shown separately. <sup>4</sup> Persons of Hispanic origin may be of any race. <sup>5</sup> Working fewer than 35 hours per week. <sup>6</sup> Includes agriculture, mining, construction, and manufacturing. <sup>7</sup> Includes transportation and public utilities; wholesale trade; finance, insurance, and real estate; private households; and other service industries, not shown separately. Source: U.S. Bureau of Labor Statistics, unpublished data.

**No. 684. Employer Costs for Employee Compensation per Hour Worked, 1989 and 1990, and by Industry, 1990**

(As of March, for private industry workers. Based on a sample of establishments; see source for details)

COMPENSATION COMPONENT	1989, total cost (dol.)	1990, COST (dol.)					1989, percent distribution	1990, PERCENT DISTRIBUTION				
		Total	Goods producing <sup>1</sup>	Service producing <sup>2</sup>	Manufacturing	Non-manufacturing		Total	Goods producing <sup>1</sup>	Service producing <sup>2</sup>	Manufacturing	Non-manufacturing
<b>Total compensation...</b>	<b>14.28</b>	<b>14.96</b>	<b>17.55</b>	<b>13.97</b>	<b>17.33</b>	<b>14.32</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Wages and salaries	10.38	10.84	12.14	10.34	11.86	10.56	72.7	72.4	69.2	74.0	68.4	73.7
Total benefits	3.90	4.13	5.41	3.63	5.47	3.76	27.3	27.6	30.8	26.0	31.6	26.3
Paid leave	1.00	1.03	1.19	0.96	1.31	0.95	7.0	6.9	6.8	6.9	7.6	6.6
Vacation	0.50	0.51	0.62	0.47	0.67	0.47	3.5	3.4	3.5	3.3	3.9	3.3
Holiday	0.34	0.34	0.43	0.31	0.48	0.31	2.4	2.3	2.4	2.2	2.7	2.2
Sick	0.12	0.13	0.10	0.14	0.12	0.13	0.9	0.9	0.6	1.0	0.7	0.9
Other	0.04	0.04	0.04	0.05	0.05	0.04	0.3	0.3	0.2	0.3	0.3	0.3
Supplemental pay	0.34	0.37	0.61	0.28	0.65	0.29	2.4	2.5	3.5	2.0	3.7	2.0
Premium pay	0.17	0.17	0.34	0.10	0.34	0.12	1.2	1.1	1.9	0.7	2.0	0.8
Nonproduction bonuses	0.12	0.16	0.20	0.14	0.22	0.14	0.8	1.0	1.2	1.0	1.3	1.0
Shift pay	0.05	0.05	0.07	0.04	0.09	0.03	0.3	0.3	0.4	0.3	0.5	0.2
Insurance	0.85	0.92	1.26	0.79	1.37	0.80	6.0	6.1	7.2	5.6	7.9	5.6
Pensions and savings	0.42	0.45	0.61	0.39	0.56	0.42	2.9	3.0	3.5	2.8	3.3	2.9
Pensions	0.34	0.36	0.48	0.31	0.42	0.34	2.4	2.4	2.7	2.2	2.4	2.4
Savings and thrift	0.08	0.09	0.14	0.07	0.14	0.08	0.6	0.6	0.8	0.5	0.8	0.5
Legally required <sup>3</sup>	1.27	1.35	1.70	1.21	1.54	1.29	8.9	9.0	9.7	8.7	8.9	9.0
Social Security	0.84	0.89	1.03	0.84	1.02	0.86	5.9	6.0	5.9	6.0	5.9	6.0
Federal unemployment	0.03	0.03	0.03	0.03	0.03	0.03	0.2	0.2	0.2	0.2	0.2	0.2
State unemployment	0.11	0.09	0.13	0.08	0.12	0.09	0.8	0.6	0.8	0.6	0.7	0.6
Workers compensation	0.27	0.31	0.50	0.23	0.36	0.29	1.9	2.1	2.8	1.7	2.1	2.0
Other benefits <sup>4</sup>	0.02	(Z)	0.03	(Z)	0.04	(Z)	0.1	(Z)	0.2	(Z)	0.2	(Z)

Z Represents or rounds to zero. <sup>1</sup> Mining, construction, and manufacturing. <sup>2</sup> Transportation, communications, public utilities, wholesale trade, retail trade, finance, insurance, real estate, and services. <sup>3</sup> Includes railroad retirement, railroad unemployment, railroad supplemental unemployment, and other legally required benefits, not shown separately. <sup>4</sup> Includes severance pay, and supplemental unemployment benefits.

Source: U.S. Bureau of Labor Statistics, *News, Employer Costs for Employee Compensation*, June 1990, USDL 90-317.

**No. 685. Employees With Employer- or Union-Provided Pension Plans, or Group Health Plans, by Occupation, 1989 and Industry, 1987**

(In thousands, except percent. For civilian wage and salary workers 15 years old and over as of March 1988 and 1990. Based on Current Population Survey; see text, section 1, and Appendix III)

OCCUPATION, 1989	Total	WITH PENSION PLANS		WITH GROUP HEALTH PLANS		INDUSTRY, 1987	Total	WITH PENSION PLANS		WITH GROUP HEALTH PLANS	
		Num-ber	Per-cent	Num-ber	Per-cent			Num-ber	Per-cent	Num-ber	Per-cent
<b>Total<sup>1</sup></b>	<b>132,730</b>	<b>52,074</b>	<b>39.2</b>	<b>70,923</b>	<b>53.4</b>	<b>Total<sup>1</sup></b>	<b>118,150</b>	<b>48,195</b>	<b>40.8</b>	<b>66,822</b>	<b>56.6</b>
Executive, admin., managerial	15,576	8,041	51.6	10,892	69.9	Agriculture, forestry, fisheries	2,457	210	8.5	540	22.0
Prof. specialty	16,742	9,726	58.1	11,267	67.3	Mining	773	473	61.2	620	80.2
Tech./related support	4,153	2,217	53.4	2,871	69.1	Construction	6,928	2,104	30.4	3,504	50.6
Sales workers	16,612	4,138	24.9	7,069	42.6	Manufacturing	22,686	12,289	54.2	17,014	75.0
Admin. support, inc. clerical	20,785	9,602	46.2	12,057	58.0	Transportation, public utilities	8,186	4,900	59.9	6,097	74.5
Precision prod., craft/repair	14,965	6,137	41.0	9,056	60.5	Wholesale trade	4,565	1,811	39.7	3,067	67.2
Mach. operators, assemblers	8,863	3,832	43.2	5,714	64.5	Retail trade	21,527	3,934	18.3	7,335	34.1
Transportation/material moving	5,368	2,104	39.2	3,055	56.9	Finance, insurance, real estate	7,931	3,637	45.9	5,230	65.9
Handlers, equip. cleaners	6,103	1,642	26.9	2,370	38.8	Business services	6,257	1,485	23.7	2,868	45.8
Service workers	19,076	4,170	21.9	5,728	30.0	Personal services	4,642	440	9.5	1,091	23.5
Pvt. households	1,098	10	0.9	56	5.1	Entertainment and recreation	1,632	292	17.9	536	32.8
Other	17,978	4,160	23.1	5,672	31.6	Professional and related	24,463	12,047	49.2	14,477	59.2
Farming, forestry and fishing	4,254	364	8.6	793	18.6	Public administration	5,878	4,490	76.4	4,402	74.9
Armed Forces	233	102	43.6	50	21.6						

<sup>1</sup> Includes civilians whose longest job was in the Armed Forces, not shown separately. <sup>2</sup> Includes inspectors. <sup>3</sup> Includes helpers and laborers.

Source: U.S. Bureau of the Census, unpublished data.

**No. 686. Employee Benefits in Medium and Large Firms: 1989**

[Covers full-time employees in private industry, excludes establishments with fewer than 100 workers, executive and traveling operating employees, and Alaska and Hawaii. Covers only benefits for which the employer pays part or all of the premium or expenses involved, except unpaid parental leave and long-term care insurance. Based on a sample survey of establishments; for details, see source. For data on employee benefits in State and local governments, see table 500]

TYPE OF EMPLOYEE BENEFIT	All employees	Professional and administrative	Technical and clerical	Production and service	TYPE OF EMPLOYEE BENEFIT	All employees	Professional and administrative	Technical and clerical	Production and service
Percent of employees participating in—					Retirement and savings plans:				
Paid: Vacations . . . . .	97	98	99	95	Defined benefit pension . . . . .	63	64	63	63
Holidays . . . . .	97	97	96	97	Earnings-based formula <sup>2</sup> . . . . .	47	59	54	38
Jury duty leave . . . . .	90	95	92	87	Defined contribution . . . . .	48	59	52	40
Funeral leave . . . . .	84	87	86	80	Savings and thrift . . . . .	30	41	35	21
Rest time . . . . .	71	57	69	80	Employee stock ownership . . . . .	3	4	3	3
Military leave . . . . .	53	61	57	45	Deferred profit sharing . . . . .	15	13	13	16
Sick leave . . . . .	68	93	87	44	Money purchase pension . . . . .	5	8	6	3
Personal leave . . . . .	22	28	30	14	Additional benefits:				
Lunch time . . . . .	10	4	4	16	Parking . . . . .	90	85	86	94
Maternity leave . . . . .	3	4	2	3	Educational assistance . . . . .	69	81	75	59
Paternity leave . . . . .	1	2	1	1	Employee discounts . . . . .	54	53	58	52
Unpaid: Maternity leave . . . . .	37	39	37	35	Travel accident insurance . . . . .	53	69	60	39
Paternity leave . . . . .	18	20	17	17	In-house infirmary . . . . .	36	40	35	34
Insurance plans:					Severance pay . . . . .	39	54	46	27
Medical care . . . . .	92	93	91	93	Relocation allowance . . . . .	36	68	29	21
Noncontributory . . . . .	48	45	41	54	Recreation facilities . . . . .	28	36	26	24
Hospital/surgical . . . . .	90	91	89	91	Subsidized meals . . . . .	23	29	29	16
Mental health care . . . . .	89	91	88	90	Nonproduction bonuses, cash . . . . .	27	26	28	28
Private duty nursing . . . . .	79	82	80	78	Gifts, non-cash . . . . .	24	25	23	25
Dental . . . . .	66	69	66	65	Financial counseling . . . . .	9	12	11	6
Extended care facility . . . . .	74	75	74	74	Supplemental unemployment benefits . . . . .	5	2	2	9
Home health care . . . . .	69	74	72	65	Subsidized commuting . . . . .	5	7	6	3
Hospice care . . . . .	39	46	43	33	Prepaid legal services . . . . .	4	2	2	5
Vision . . . . .	32	33	33	33	Child care . . . . .	5	6	6	3
in HMO's . . . . .	16	20	18	11	Flexible benefits plans . . . . .	9	14	15	3
Alcohol abuse treatment . . . . .	89	90	88	89	Reimbursement accounts <sup>3</sup> . . . . .	23	36	31	11
Drug abuse treatment . . . . .	88	90	87	89	Eldercare . . . . .	3	4	3	2
Life . . . . .	94	95	94	93	Long-term care insurance . . . . .	3	3	3	2
Noncontributory . . . . .	82	82	81	83	Wellness programs . . . . .	23	30	25	19
Accident/sickness . . . . .	43	29	29	58	Employee assistance programs . . . . .	49	57	50	44
Noncontributory . . . . .	36	22	22	51					
Long-term disability . . . . .	45	65	57	27					
Noncontributory . . . . .	35	50	43	23					

<sup>1</sup> Includes physician visits in hospitals, diagnostic X-ray and lab, and auxiliary hospital services. <sup>2</sup> Earnings-based formulas pay a percent of employee's annual earnings (usually earnings in the final years of employment) per year of service. <sup>3</sup> Account which is used throughout the year to pay for plan premiums or to reimburse the employee for benefit related expenses. Account may be financed by employer, employee, or both.

Source: U.S. Bureau of Labor Statistics, *Employee Benefits in Medium and Large Firms, 1989*, Bulletin 2363.

**No. 687. Establishments Providing Child Care Benefits and/or Varied Work-Schedule Policies, by Establishment Size and Sector: 1987**

[As of summer. For establishments with 10 employees or more. Based on sample; for details, see source]

ITEM	Total	SIZE			SECTOR			
		10-49 em- ployees	50-249 em- ployees	250 em- ployees or more	Private			Government
					Total	Goods <sup>1</sup>	Serv- ices <sup>2</sup>	
<b>Total establishments (1,000) . . . . .</b>	<b>1,202</b>	<b>919</b>	<b>236</b>	<b>47</b>	<b>1,128</b>	<b>272</b>	<b>856</b>	<b>74</b>
Percent providing child-care benefits or services <sup>3</sup> . . . . .	11.1	9.0	15.3	31.8	10.1	6.3	11.3	26.4
Employer-sponsored day care . . . . .	2.1	1.9	2.2	5.2	1.6	0.3	2.0	9.4
Assisted with child-care expenses <sup>4</sup> . . . . .	3.1	2.4	4.7	8.9	3.1	1.9	3.5	2.9
Child-care information and referral services . . . . .	5.1	4.3	6.3	14.0	4.3	2.3	5.0	15.8
Counseling services <sup>5</sup> . . . . .	5.1	3.8	7.6	17.1	4.2	3.0	4.6	18.2
Percent with varied work-schedule policies aiding child care <sup>3</sup> . . . . .	61.2	62.0	58.1	59.4	61.4	51.3	64.6	57.2
Flexitime . . . . .	43.2	45.1	37.7	34.9	43.6	31.3	47.5	37.5
Voluntary part-time . . . . .	34.8	36.0	32.0	25.1	35.3	22.4	39.4	26.7
Job sharing <sup>6</sup> . . . . .	15.5	16.0	13.7	15.7	15.0	9.0	16.9	23.5
Work at home . . . . .	8.3	9.2	5.6	3.8	8.5	8.2	8.6	4.0
Flexible leave . . . . .	42.9	43.8	39.9	40.2	42.9	37.3	44.6	43.7

<sup>1</sup> Mining, construction, and manufacturing. <sup>2</sup> . . . . . , public utilities, wholesale and retail trade; finance, insurance, and real estate; and services. <sup>3</sup> . . . . . will sum to more than the total percent because many employers provide more than one benefit . . . . . policies, not shown separately. <sup>4</sup> Regular reimbursement of employees' child-care expenses as part of the employee benefits package. <sup>5</sup> A counselor, either a paid employee of the establishment or a contractor provided by the employer, who deals with family-related issues. <sup>6</sup> A formal arrangement whereby work of a single full-time position is performed by more than one employee.

Source: U.S. Bureau of Labor Statistics, *BLS Reports on Employer Child-Care Practices*, USDL 88-7.



### No. 688. Major Collective Bargaining Agreements—Average Percent Effective Wage Adjustments: 1975 to 1989

[In percent, except as indicated. Data represent all wage adjustments implemented under the terms of private nonfarm industry agreements affecting 1,000 workers or more. Series cover production and related workers in manufacturing and nonsupervisory workers in nonmanufacturing industries. Effective wage adjustment data measure all wage changes effective in the year stemming from settlements reached in the year, deferred from prior year agreements, and cost-of-living adjustment (COLA) clauses]

ADJUSTMENTS	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total effective adjustments (prorated over all workers)	8.7	9.1	9.9	9.5	6.8	4.0	3.7	3.3	2.3	3.1	2.6	3.2
Source:												
Current settlements	2.8	3.0	3.6	2.5	1.7	0.8	0.8	0.7	0.5	0.7	0.7	1.2
Prior agreements	3.7	3.0	3.5	3.8	3.6	2.5	2.0	1.8	1.7	1.8	1.3	1.3
COLA	2.2	3.1	2.8	3.2	1.4	0.6	0.9	0.7	0.2	0.5	0.6	0.7
Industry:												
Manufacturing	8.5	9.6	10.2	9.4	5.2	2.7	4.3	2.8	1.5	3.4	2.8	3.5
Nonmanufacturing	8.9	8.8	9.7	9.5	7.9	4.8	3.3	3.6	2.9	2.9	2.5	3.0
Construction	8.1	7.1	9.9	11.2	9.7	4.4	2.9	3.0	3.0	3.1	2.9	3.1
Transportation and public utilities	9.7	11.2	10.8	8.6	7.1	4.4	3.0	3.6	2.7	2.7	2.1	2.3
Wholesale and retail trade	9.2	6.7	7.6	8.1	6.8	5.1	3.4	3.3	2.9	2.0	2.3	3.2
Services	6.4	7.0	8.1	9.6	7.8	7.0	4.9	5.1	3.7	3.8	3.5	5.3
Nonmanufacturing, excluding construction	9.3	9.5	9.6	8.8	7.1	5.0	3.4	3.7	2.9	2.8	2.4	3.0
Effective wage change for workers receiving change	(NA)	(NA)	(NA)	9.6	7.2	4.7	4.4	4.1	2.8	3.6	3.3	4.0
Source:												
Current settlements	(NA)	(NA)	(NA)	9.8	7.4	2.8	3.0	3.4	1.6	2.9	3.1	4.2
Prior agreements	(NA)	(NA)	(NA)	5.3	6.3	5.9	4.0	3.7	3.9	3.3	3.0	3.4
COLA	(NA)	(NA)	(NA)	6.1	3.1	2.1	2.7	2.2	1.0	2.6	2.7	3.3
Total number of workers receiving wage change (mil.)	(NA)	(NA)	(NA)	8.6	7.9	6.5	6.2	5.6	5.4	5.4	4.7	4.8
Source (mil.):												
Current settlements	(NA)	(NA)	(NA)	2.3	1.9	2.3	1.9	1.4	1.9	1.6	1.4	1.7
Prior agreements	(NA)	(NA)	(NA)	6.3	4.8	3.3	3.7	3.4	2.8	3.5	2.6	2.3
COLA	(NA)	(NA)	(NA)	4.5	3.8	2.3	2.5	2.3	1.4	1.3	1.3	1.3
Number of workers not receiving a wage change (mil.)	(NA)	(NA)	(NA)	0.1	0.5	1.2	1.1	1.4	1.2	1.0	1.3	1.2

NA Not available.

Source: U.S. Bureau of Labor Statistics, *Current Wage Developments*, monthly.

### No. 689. Major Collective Bargaining Settlements—Average Percent Adjustments in Wages and Compensation Negotiated: 1975 to 1989

[In percent, except as indicated. Data represent private nonfarm industry settlements affecting production and related workers in manufacturing and nonsupervisory workers in nonmanufacturing industries. Wage data cover units with 1,000 workers or more. Compensation data relate to units of 5,000 or more. Data relate to contracts negotiated in each calendar year but exclude possible adjustments in wages under cost-of-living adjustment (COLA) clauses, except increases guaranteed by the contract. Includes all settlements, whether wages and benefits were changed or not. Minus sign (-) indicates decrease]

ADJUSTMENTS	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Compensation:												
First year	11.4	9.0	10.4	10.2	3.2	3.4	3.6	2.6	1.1	3.0	3.1	4.5
Over life of contract <sup>1</sup>	8.1	6.6	7.1	8.3	2.8	3.0	2.8	2.7	1.6	2.6	2.5	3.4
Wage-rates:												
All industries:												
First year	10.2	7.4	9.5	9.8	3.8	2.6	2.4	2.3	1.2	2.2	2.5	4.0
Contracts with COLA	12.2	6.2	8.0	8.0	2.2	1.9	2.9	1.6	1.9	2.3	2.4	3.9
Contracts without COLA	9.1	9.1	11.7	10.6	7.0	3.3	2.1	2.7	0.9	2.1	2.7	4.0
Over life of contract <sup>1</sup>	7.8	6.0	7.1	7.9	3.6	2.8	2.4	2.7	1.8	2.1	2.4	3.4
Contracts with COLA	7.1	4.6	5.0	5.5	2.1	2.0	1.8	2.5	1.7	1.5	1.8	2.8
Contracts without COLA	8.3	8.0	10.3	8.8	6.6	3.7	2.7	2.8	1.8	2.5	2.8	3.5
Manufacturing:												
First year	9.8	6.9	7.4	7.2	2.8	0.4	2.3	0.8	-1.2	2.1	2.2	3.9
Over life of contract <sup>1</sup>	8.0	5.4	5.4	6.1	2.6	2.1	1.5	1.8	0.2	1.3	2.1	3.2
Nonmanufacturing:												
First year	10.4	8.0	10.9	11.2	4.8	3.8	2.5	3.3	2.0	2.3	2.8	4.0
Over life of contract <sup>1</sup>	7.8	6.8	8.3	8.8	4.7	3.2	2.9	3.3	2.3	2.7	2.5	3.4
Number of workers affected (mil.)	2.9	3.5	3.8	2.4	3.3	3.1	2.3	2.2	2.5	2.0	1.8	1.9
Manufacturing (mil.)	0.8	1.9	1.6	0.8	1.7	1.1	0.9	0.9	0.8	0.9	0.7	0.4
Nonmanufacturing (mil.)	2.1	1.6	2.2	1.6	1.6	2.0	1.4	1.3	1.9	1.1	1.1	1.5

<sup>1</sup> Average annual rate of change.

Source: U.S. Bureau of Labor Statistics, *Current Wage Developments*, monthly.

### No. 690. Workers Killed or Disabled on the Job, 1960 to 1989, and by Industry Group, 1989

[Data for 1989 are preliminary estimates. Estimates based on data from the U.S. National Center for Health Statistics, State departments of health, and State industrial commissions. Numbers of workers based on data from the U.S. Bureau of Labor Statistics]

YEAR	DEATHS						Dis- abling injur- ics <sup>2</sup> (1,000)	YEAR AND INDUSTRY GROUP	DEATHS		Dis- abling injur- ics <sup>2</sup> (1,000)
	Total		Manufacturing		Nonmanu- facturing				Number (1,000)	Rate <sup>1</sup>	
	Number (1,000)	Rate <sup>1</sup>	Number (1,000)	Rate <sup>1</sup>	Number (1,000)	Rate <sup>1</sup>					
1960. . . . .	13.8	21	1.7	10	12.1	25	1,950	<b>1989, total. . . . .</b>	<b>10.4</b>	<b>9</b>	<b>1,700</b>
1965. . . . .	14.1	20	1.8	10	12.3	24	2,100	Agriculture <sup>3</sup> . . . . .	1.3	40	120
1970. . . . .	13.8	18	1.7	9	12.1	21	2,200	Mining and quarrying <sup>4</sup> . . . . .	0.3	43	30
1975. . . . .	13.0	15	1.6	9	11.4	17	2,200	Construction. . . . .	2.1	32	190
1980. . . . .	13.2	13	1.7	8	11.5	15	2,200	Manufacturing. . . . .	1.1	6	340
1984. . . . .	11.5	11	1.1	6	10.4	12	1,900	Transportation and utilities <sup>5</sup> . . . . .	1.4	24	140
1985. . . . .	11.5	11	1.2	6	10.3	12	2,000	Trade <sup>6</sup> . . . . .	1.1	4	340
1986. . . . .	11.1	10	1.0	5	10.1	11	1,800	Services <sup>6</sup> . . . . .	1.5	4	300
1987. . . . .	11.3	10	1.0	5	10.3	11	1,800	Government . . . . .	1.6	9	240
1988. . . . .	10.8	9	1.1	6	9.7	10	1,800				
1989. . . . .	10.4	9	1.1	6	9.3	10	1,700				

<sup>1</sup> Per 100,000 workers. <sup>2</sup> Disabling injury defined as one which results in death, some degree of physical impairment, or renders the person unable to perform regular activities for a full day beyond the day of the injury. <sup>3</sup> Includes forestry and fishing. <sup>4</sup> Includes oil and gas extractions. <sup>5</sup> Includes wholesale and retail trade. <sup>6</sup> Includes finance, insurance and real estate.

Source: National Safety Council, Chicago, IL, *Accident Facts*, annual. (Copyright.)

### No. 691. Worker Deaths and Injuries and Production Time Lost: 1985 to 1989

ITEM	DEATHS (1,000)			DISABLING INJURIES <sup>1</sup> (mil.)			PRODUCTION TIME LOST (mil. days)					
	1985	1988	1989	1985	1988	1989	In the current year			In future years <sup>2</sup>		
							1985	1988	1989	1985	1988	1989
All accidents . . . . .	46.3	47.8	47.3	4.7	4.6	4.5	100.0	95.0	95.0	380.0	390.0	370.0
On the job . . . . .	11.5	10.8	10.4	2.0	1.8	1.7	40.0	35.0	35.0	110.0	100.0	90.0
Off the job . . . . .	34.9	37.0	36.9	2.7	2.8	2.8	60.0	60.0	60.0	270.0	290.0	280.0
Motor vehicle . . . . .	22.2	24.1	23.3	0.9	1.0	0.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Public nonmotor vehicle . . . . .	6.9	6.4	6.8	0.9	0.8	0.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Home . . . . .	5.8	6.5	6.8	0.9	1.0	1.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. <sup>1</sup> See footnote 2, table 690. <sup>2</sup> Based on an average of 5,850 days lost in future years per fatality and 565 days lost in future years per permanent injury.

Source: National Safety Council, Chicago IL, *Accident Facts*, 1990. (Copyright.)

### No. 692. Industries With the Highest Occupational Illness and Injury Rates: 1987 and 1988

[Rates per full-time employees. Industries shown are those with highest rates in 1988. See headnote, table 693]

1972 SIC <sup>1</sup> code	INDUSTRY	1987	1988	1972 SIC <sup>1</sup> code	INDUSTRY	1987	1988
(X)	Private sector, total . . . . .	8.3	8.6	2999	Petroleum and coal products, n.e.c. <sup>2</sup>	(NA)	26.5
3731	Ship building and repairing . . . . .	40.1	44.9	2013	Sausages and other prepared meats . . . . .	22.2	25.5
2011	Meat packing plants . . . . .	38.4	39.2	3325	Steel foundries, n.e.c. <sup>2</sup> . . . . .	20.3	25.4
2429	Special product sawmills, n.e.c. . . . .	26.4	31.0	3441	Fabricated structural metal . . . . .	22.6	25.2
3321	Gray iron foundries . . . . .	23.8	30.3	2061	Raw cane sugar . . . . .	22.7	24.8
3465	Automotive stampings . . . . .	20.7	30.0	3211	Flat glass . . . . .	20.8	24.6
3334	Primary aluminum . . . . .	28.6	29.6	3631	Household cooking equipment . . . . .	20.8	24.5
2451	Mobile homes . . . . .	28.9	28.7	3341	Secondary nonferrous metals . . . . .	20.1	24.2
3261	Vitreous plumbing fixtures . . . . .	25.1	28.4	3792	Travel trailers and campers . . . . .	23.5	24.1
2439	Structural wood members, n.e.c. <sup>2</sup> . . . . .	25.6	28.3	2522	Metal office furniture . . . . .	19.8	24.0
3715	Truck trailers . . . . .	20.8	28.3	3316	Cold finishing of steel shapes . . . . .	22.5	24.0
3711	Motor vehicles and car bodies . . . . .	12.8	28.0	2091	Canned and cured seafoods . . . . .	26.4	23.8
2452	Prefabricated wood buildings . . . . .	31.5	27.9	3412	Metal barrels, drums, and pails . . . . .	23.7	23.8
3713	Truck and bus bodies . . . . .	23.0	27.5				

NA Not available. X Not applicable. <sup>1</sup> 1972 Standard Industrial Classification; see text, section 13. <sup>2</sup> N.e.c. means not elsewhere classified.

Source: U.S. Bureau of Labor Statistics, *Occupational Injuries and Illnesses in the United States by Industry*, annual.

### No. 693. Occupational Injury and Illness Incidence Rates, Selected Industries: 1987 and 1988

[Rates per 100 full-time employees. For nonfarm employment data, see table 662. Rates refer to any occupational injury or illness resulting in (1) fatalities, (2) lost workday cases, or (3) nonfatal cases without lost workdays. Incidence rates were calculated as: Number of injuries and illnesses or lost workdays divided by total hours worked by all employees during year multiplied by 200,000 as base for 100 full-time equivalent workers (working 40 hours per week, 50 weeks a year). Based on the 1972 *Standard Industrial Classification (SIC) Manual*]

1972 SIC <sup>1</sup> code	INDUSTRY	1987	1988	1972 SIC <sup>1</sup> code	INDUSTRY	1987	1988
(X)	<b>Private sector<sup>2</sup></b>	<b>8.3</b>	<b>8.6</b>	E	<b>Transportation, public utilities</b>	<b>8.4</b>	<b>8.9</b>
A	Agriculture, forestry, fishing <sup>2</sup>	11.2	10.9	40	Railroad transportation	7.1	6.9
B	Mining	8.5	8.8	41	Local passenger transit <sup>3</sup>	9.2	9.0
10	Metal mining	7.8	8.7	42	Trucking and warehousing	12.3	13.9
11	Anthracite mining	9.7	10.0	44	Water transportation	12.9	12.2
12	Bituminous coal and lignite	11.6	12.0	45	Air transportation	14.3	13.0
13	Oil and gas extraction	8.3	8.3	46	Pipelines, except natural gas	(NA)	3.6
14	Nonmetallic minerals, exc. fuels	5.9	7.2	47	Transportation services	3.4	4.1
C	<b>Construction</b>	<b>14.7</b>	<b>14.6</b>	48	Communication	2.8	3.1
15	General building contractors	14.2	14.0	49	Electric, gas, sanitary services	7.6	7.7
16	Heavy construction contractors	14.5	15.1	F, G	<b>Wholesale and retail trade</b>	<b>7.7</b>	<b>7.8</b>
17	Special trade contractors	15.0	14.7	F	Wholesale trade	7.4	7.6
D	<b>Manufacturing</b>	<b>11.9</b>	<b>13.1</b>	G	Retail trade	7.8	7.9
(X)	Durable goods	12.5	14.2	H	<b>Finance, insurance, real estate<sup>4</sup></b>	<b>2.0</b>	<b>2.5</b>
24	Lumber and wood products	18.9	19.5	60	Banking	1.4	1.5
25	Furniture and fixtures	15.4	16.6	62	Security, commodity brokers	(NA)	0.9
32	Stone, clay, and glass products	14.9	16.0	63	Insurance carriers	1.8	1.7
33	Primary metal industries	17.0	19.4	64	Insurance agents, brokers, and service	1.0	0.9
34	Fabricated metal products	17.0	18.8	65	Real estate	4.7	4.7
35	Machinery, exc. electric	11.3	12.1	I	<b>Services</b>	<b>5.5</b>	<b>5.4</b>
36	Electric and electronic equipment	7.2	8.0	70	Hotels and other lodgings	10.6	10.4
37	Transportation equipment	13.5	17.7	72	Personal services	3.1	3.3
38	Instruments and related products	5.8	6.1	73	Business services	4.6	4.3
39	Miscellaneous	10.7	11.3	75	Auto repair, services, and garages	6.7	6.6
(X)	Nondurable goods	11.1	11.4	76	Miscellaneous repair services	7.2	8.1
20	Food and kindred products	17.7	18.5	78	Motion pictures	2.8	2.8
21	Tobacco manufactures	8.6	9.3	79	Amusement, recreation services	8.7	8.7
22	Textile mill products	9.0	9.6	80	Health services	7.2	7.3
23	Apparel and other textile products	7.4	8.1	81	Legal services	0.6	0.6
26	Paper and allied products	12.8	13.1	82	Educational services	3.3	3.8
27	Printing and publishing	6.7	6.6	83	Social services	5.9	5.2
28	Chemicals and allied products	7.0	7.0	84	Museums, botanical, zoological gardens	6.1	6.9
29	Petroleum and coal products	7.3	7.0	89	Miscellaneous services	1.6	1.7
30	Rubber and misc. plastics	15.9	16.3				
31	Leather and leather products	12.4	11.4				

NA Not available. X Not applicable. <sup>1</sup> 1972 Standard Industrial Classification; see text, section 13. <sup>2</sup> Excludes farms with fewer than 11 employees. <sup>3</sup> Includes interurban. <sup>4</sup> Includes categories not shown separately.

Source: U.S. Bureau of Labor Statistics, *Occupational Injuries and Illnesses in the United States by Industry*, annual.

### No. 694. Work Stoppages: 1960 to 1989

[Excludes work stoppages involving fewer than 1,000 workers and lasting less than 1 day. Information is based on reports of labor disputes appearing in daily newspapers, trade journals, and other public sources. The parties to the disputes are contacted by telephone, when necessary, to clarify details of the stoppages]

YEAR	Number of work stoppages <sup>1</sup>	Workers involved <sup>2</sup> (1,000)	DAYS IDLE		YEAR	Number of work stoppages <sup>1</sup>	Workers involved <sup>2</sup> (1,000)	DAYS IDLE	
			Number <sup>3</sup> (1,000)	Percent estimated working time <sup>4</sup>				Number <sup>3</sup> (1,000)	Percent estimated working time <sup>4</sup>
1960	222	896	13,260	0.09	1979	235	1,021	20,409	0.09
1965	268	999	15,140	0.10	1980	187	795	20,844	0.09
1969	412	1,576	29,397	0.29	1981	145	729	16,908	0.07
1970	381	2,468	52,761	0.29	1982	96	656	9,061	0.04
1971	298	2,516	35,538	0.19	1983	81	909	17,461	0.08
1972	250	975	16,764	0.09	1984	62	376	8,499	0.04
1973	317	1,400	16,280	0.08	1985	54	324	7,079	0.03
1974	424	1,796	31,809	0.16	1986	69	533	11,861	0.05
1975	235	965	17,563	0.09	1987	46	174	4,469	0.02
1976	231	1,519	23,962	0.12	1988	40	118	4,364	0.02
1977	298	1,212	21,258	0.10	1989	51	452	16,996	0.07
1978	219	1,006	23,774	0.11					

<sup>1</sup> Beginning in year indicated.

<sup>2</sup> Workers counted more than once if involved in more than 1 stoppage during the year.

<sup>3</sup> Resulting from all stoppages in effect in a year, including those that began in an earlier year. <sup>4</sup> Agricultural and government employees are included in the total working time; private household, forestry and fishery employees are excluded. <sup>5</sup> Revised since originally published.

Source: U.S. Bureau of Labor Statistics, *Current Wage Developments*, monthly.

**No. 695. U.S. Membership in AFL-CIO Affiliated Unions, by Selected Union: 1979 to 1989**

[In thousands. Figures represent the labor organizations as constituted in 1989 and reflect past merger activity. Membership figures based on average per capita paid membership to the AFL-CIO for the 2-year period ending in June of the year shown and reflect only actively-employed members. Labor unions shown had a membership of 70,000 or more in 1989]

LABOR ORGANIZATION	1979	1985	1987	1989	LABOR ORGANIZATION	1979	1985	1987	1989
<b>Total</b> <sup>1</sup>	<b>13,621</b>	<b>13,109</b>	<b>12,702</b>	<b>14,100</b>	Laborers	475	383	371	406
Actors and Artists	75	100	95	97	Letter Carriers (NALC)	151	186	200	201
Automobile, Aerospace and Agriculture (UAW)	(X)	974	998	917	Machinists and Aerospace (IAM)	688	537	521	517
Bakery, Confectionery and Tobacco	131	115	109	103	Office and Professional Employees	83	90	86	84
Boiler Makers, Iron Ship-builders <sup>2</sup>	129	110	90	75	Oil, Chemical, Atomic Workers (OCAW)	146	108	96	71
Bricklayers	106	95	84	84	Painters	160	133	128	128
Carpenters	626	616	617	613	Paperworkers Int'l	262	232	221	210
Clothing and Textile Workers (ACTWU)	308	228	195	180	Plumbing and Pipefitting	228	226	220	220
Communication Workers (CWA)	485	524	515	492	Postal Workers	245	232	230	213
Electrical Workers (IBEW)	825	791	765	744	Retail, Wholesale Department Store	122	106	140	137
Electronic, Electrical and Salaried <sup>2,4</sup>	243	198	185	171	Rubber, Cork, Linoleum, Plastic	158	106	97	92
Operating Engineers	313	330	330	330	Seafarers	84	80	80	80
Firefighters	150	142	142	142	Service Employees (SEIU) <sup>2,5</sup>	537	688	762	762
Food and Commercial Workers (UFCW)	1,123	989	1,000	999	Sheet Metal Workers	120	108	108	108
Garment Workers (ILGWU)	314	210	173	153	State, County, Municipal (AFSCME) <sup>5</sup>	889	997	1,032	1,090
Glass, Molders, Pottery, and Plastics <sup>2</sup>	50	104	97	86	Steelworkers	964	572	494	481
Government, American Federation (AFGE)	236	199	157	156	Teachers (AFT)	423	470	498	544
Graphic Communications <sup>2</sup>	171	141	136	124	Teamsters <sup>6</sup>	(X)	(X)	(X)	1,161
Hotel Employees and Restaurant Employees	373	327	293	278	Transit Union	94	94	94	96
Ironworkers	146	140	122	111	Transport Workers	85	85	85	85
					Transportation/Communications International	127	102	113	86

X Not applicable. <sup>1</sup> Includes other AFL-CIO affiliated unions, not shown separately. <sup>2</sup> Figures reflect mergers with one or more unions since 1979. For details see source. <sup>3</sup> Includes Blacksmiths, Forgers and Helpers. <sup>4</sup> Includes Machine and Furniture Workers. <sup>5</sup> Excludes Hospital and Health Care Employees which merged into both unions on June 1, 1989, (membership of 23,000 in 1985, 60,000 in 1987, and 58,000 in 1989). <sup>6</sup> Includes Chauffeurs, Warehousemen and Helpers.

Source: American Federation of Labor and Congress of Industrial Organizations, Washington, DC, *Report of the AFL-CIO Executive Council*, annual.

**No. 696. U.S. Union Membership in Manufacturing, by State: 1984 to 1988**

[Data represent annual average dues-paying full-time equivalent membership derived from financial records. Excludes unemployed members. In general, annual per capita revenues received by the parent organization were divided by the per capita rate to yield membership. For unions with multiple dues structures or other structures, other methods were used. See source for details. A right-to-work State has laws which prohibit collective bargaining contracts from including clauses requiring union membership as a condition of employment. Data for DC not available]

STATE	MANUFACTURING— UNION MEMBERSHIP (1,000)			PERCENT OF EMPLOYED <sup>1</sup>			STATE	MANUFACTURING— UNION MEMBERSHIP (1,000)			PERCENT OF EMPLOYED <sup>1</sup>		
	1984	1987	1988	1984	1987	1988		1984	1987	1988	1984	1987	1988
<b>U.S.</b>	<b>5,285.9</b>	<b>4,883.6</b>	<b>4,771.1</b>	<b>27.3</b>	<b>25.8</b>	<b>24.9</b>							
AL <sup>2</sup>	72.2	59.8	57.4	20.1	16.7	15.3	MT	5.6	5.1	5.2	24.9	23.8	25.0
AK	4.3	4.0	3.7	38.1	29.6	25.5	NE <sup>2</sup>	11.1	9.0	9.1	12.3	10.6	9.9
AZ	9.2	7.6	7.2	5.3	4.1	3.8	NV <sup>2</sup>	1.6	1.6	1.5	7.6	6.8	6.2
AR <sup>2</sup>	28.6	28.4	27.3	13.4	13.0	12.0	NH	9.9	8.6	8.2	8.0	7.2	6.7
CA	510.5	494.9	488.4	24.7	23.8	22.6	NJ	184.9	168.1	165.6	25.4	24.7	24.8
CO	21.2	19.6	18.8	10.9	10.7	10.0	NM	5.6	4.2	4.2	15.3	10.8	10.4
CT	70.2	60.9	58.7	16.9	15.6	15.6	NY	668.2	612.8	588.0	50.4	50.3	48.2
DE	13.8	14.3	14.1	19.6	20.7	20.5	NC <sup>2</sup>	41.4	41.5	39.7	5.0	4.9	4.6
FL <sup>3</sup>	43.3	47.6	48.2	8.6	9.1	8.9	ND <sup>2</sup>	2.1	1.8	1.7	13.6	11.5	10.4
GA <sup>2</sup>	77.3	70.9	67.8	14.1	12.4	11.9	OH	469.0	460.1	450.4	41.6	42.1	40.9
HI	9.0	9.5	9.1	41.3	43.0	41.4	OK	30.6	27.2	26.9	17.5	17.1	17.1
ID <sup>3</sup>	7.3	5.0	4.9	13.3	9.3	8.6	OR	49.9	46.3	45.2	24.8	23.0	21.4
IL	407.7	317.8	314.8	40.9	34.2	33.3	PA	457.1	434.8	428.3	40.7	41.9	40.7
IN	248.7	250.9	237.8	40.1	41.3	37.6	RI	13.0	13.2	12.8	10.7	11.0	11.1
IA <sup>2</sup>	65.3	48.9	46.8	30.8	23.1	20.8	SC	14.6	13.2	11.8	3.9	3.6	3.1
KS	22.6	21.1	20.6	12.8	11.8	11.4	SD <sup>2</sup>	1.1	0.9	0.8	3.8	3.1	2.7
KY	69.6	63.9	62.6	27.0	24.8	23.0	TN <sup>2</sup>	78.4	69.6	67.2	15.8	14.0	13.5
LA	36.8	34.9	34.5	20.2	20.8	20.4	TX <sup>2</sup>	159.8	144.0	142.6	15.9	15.0	15.1
ME	23.8	20.4	20.1	21.5	19.8	18.7	UT <sup>2</sup>	6.8	5.1	4.9	7.2	5.5	5.0
MD	71.2	62.9	62.0	32.5	30.3	30.0	VT	5.5	4.4	4.1	11.2	8.9	8.3
MA	128.8	117.1	115.8	19.2	19.4	19.9	VA <sup>2</sup>	48.5	53.1	52.1	11.5	12.5	12.2
MI	487.8	502.2	500.6	50.7	51.9	53.6	WA	99.7	94.1	93.6	34.6	30.0	28.2
MN	96.2	71.8	70.1	25.7	19.3	18.1	WV	34.9	29.1	25.7	38.1	33.6	29.8
MS	19.0	19.8	19.0	8.7	8.8	8.1	WI	161.4	138.9	133.3	31.1	26.7	24.3
MO	179.2	141.2	136.5	31.3	34.1	32.4	WY <sup>2</sup>	1.6	1.5	1.3	20.0	18.5	15.9

<sup>1</sup> Employed in manufacturing. <sup>2</sup> Right-to-work State. <sup>3</sup> Right-to-work State beginning 1987.

Source: Grant/Thornton, Chicago, IL, *Manufacturing Climates Study*, annual.

## No. 697. Union Members, by Selected Characteristics: 1983 and 1989

[Annual averages of monthly data. Covers employed wage and salary workers 16 years old and over. Excludes self-employed workers whose businesses are incorporated although they technically qualify as wage and salary workers. Based on Current Population Survey, see text, section 1 and Appendix III]

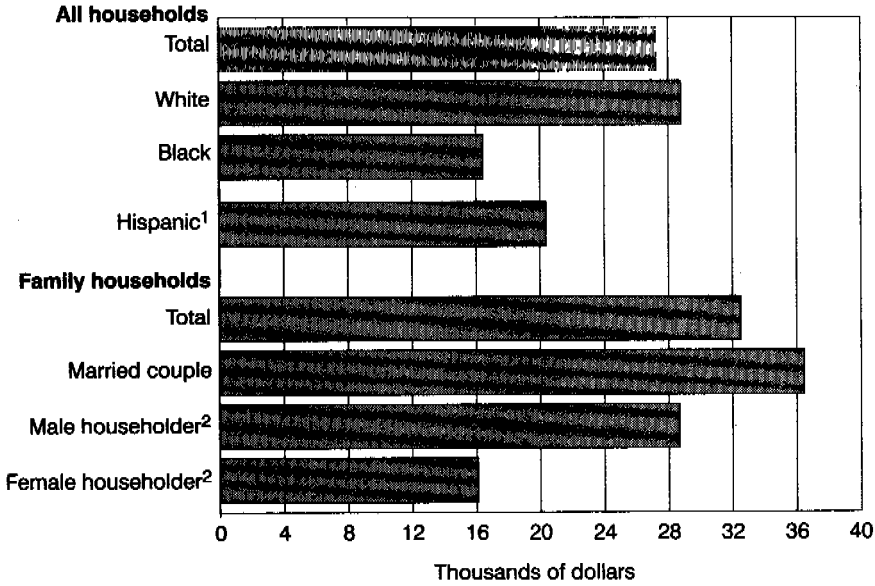
CHARACTERISTIC	EMPLOYED WAGE AND SALARY WORKERS										MEDIAN USUAL WEEKLY EARNINGS <sup>3</sup> (dol.)									
	Total (\$1,000)		Union members <sup>1</sup> (1,000)		Represented <sup>2</sup> by unions <sup>2</sup> (1,000)		Percent union members		Percent represented by union		Total		Union members <sup>1</sup>		Represented by unions <sup>2</sup>		Not represented by unions			
	1983	1989	1983	1989	1983	1989	1983	1989	1983	1989	1983	1989	1983	1989	1983	1989	1983	1989		
Total.....	68,290	103,480	17,717	16,960	20,532	19,198	20.1	16.4	23.3	18.6	313	399	388	497	383	494	288	372		
16-24 years.....	19,305	17,749	1,203	1,145	2,145	1,424	9.1	6.3	11.1	7.4	210	259	281	335	275	331	203	252		
25-34 years.....	25,978	31,210	5,087	4,471	5,980	5,150	19.6	14.3	23.1	16.5	321	394	382	473	376	468	304	378		
35-44 years.....	18,722	25,316	4,848	5,292	5,362	5,975	24.8	20.9	30.6	23.6	368	472	411	519	407	518	339	438		
45-54 years.....	13,150	18,233	3,554	3,719	4,014	4,134	27.0	22.9	38.5	25.5	366	472	404	523	402	523	335	431		
55-64 years.....	9,201	9,302	2,474	2,056	2,788	2,272	26.9	22.1	30.3	24.4	348	431	382	504	390	504	316	401		
65 years and over.....	1,834	2,265	196	220	234	243	10.1	8.7	12.1	10.7	260	334	338	478	330	470	238	306		
Men.....	47,856	54,789	11,809	10,820	13,270	11,955	24.7	19.7	27.7	21.8	378	468	416	527	414	524	349	430		
Women.....	40,433	48,691	5,908	6,141	7,262	7,243	14.6	12.6	18.0	14.9	252	328	309	417	307	416	247	312		
White.....	77,046	88,622	14,844	13,894	17,182	15,889	19.3	15.7	22.3	17.7	319	409	396	506	391	503	285	384		
Black.....	42,165	47,134	10,134	9,140	11,364	10,055	24.0	19.3	26.9	21.2	387	482	423	539	421	537	362	452		
Hispanic <sup>4</sup> .....	8,979	11,470	2,440	2,549	2,850	2,912	27.2	22.2	31.7	25.4	281	319	331	425	324	423	222	290		
Men.....	4,477	5,597	1,420	1,367	1,615	1,566	31.7	24.8	36.1	28.0	293	348	366	478	360	470	244	305		
Women.....	4,502	5,873	1,020	1,182	1,235	1,345	22.7	19.8	27.4	22.9	231	301	292	385	287	390	209	276		
Hispanic <sup>4</sup> .....	(NA)	7,894	(NA)	1,186	(NA)	1,330	(NA)	15.2	(NA)	16.8	(NA)	298	(NA)	420	(NA)	417	(NA)	276		
Men.....	(NA)	4,710	(NA)	793	(NA)	970	(NA)	16.8	(NA)	18.5	(NA)	315	(NA)	457	(NA)	451	(NA)	281		
Women.....	(NA)	3,184	(NA)	403	(NA)	460	(NA)	12.6	(NA)	14.5	(NA)	269	(NA)	369	(NA)	368	(NA)	255		
Full-time workers.....	70,976	84,553	16,271	15,701	18,745	17,883	22.9	18.6	26.4	20.9	313	399	388	497	383	494	288	372		
Part-time workers.....	17,314	18,926	1,446	1,259	1,787	1,315	8.4	6.7	10.3	8.0	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)		
Managerial and professional specialty.....	19,857	25,357	3,354	3,739	4,307	4,806	17.1	14.7	21.9	15.2	437	583	423	584	421	581	446	584		
Technical sales, and admin. support.....	28,024	32,633	3,377	3,299	4,199	3,932	12.1	10.1	15.0	12.1	281	359	350	439	341	431	270	346		
Service occupations.....	12,875	14,410	1,971	1,948	2,306	2,172	15.3	13.5	17.9	15.1	205	253	253	305	241	299	182	226		
Precision, production, craft, and repair.....	10,542	11,906	3,466	3,134	3,760	3,355	32.9	26.3	35.7	28.2	377	454	456	574	450	568	322	405		
Operators, laborers, and laborers.....	15,416	17,399	5,452	4,774	5,839	5,050	35.4	27.4	37.9	29.0	275	323	366	455	361	448	226	287		
Farming, forestry, and fishing.....	1,775	1,774	98	67	122	82	5.5	3.8	6.9	4.6	196	246	292	393	287	379	189	239		
Agricultural wage and salary workers.....	1,446	1,499	49	18	55	31	3.4	1.2	3.8	2.1	198	249	(B)	(B)	(B)	(B)	195	246		
Private nonfarm wage and salary workers.....	71,225	84,504	11,933	10,520	13,369	11,556	16.8	12.4	18.8	13.7	307	387	389	489	385	485	286	368		
Mining.....	668	664	180	117	201	131	20.7	17.5	23.1	19.7	481	565	470	572	470	572	488	561		
Construction.....	4,108	5,322	1,131	1,145	1,207	1,203	27.5	21.5	28.4	22.6	348	431	518	642	510	634	296	393		
Manufacturing.....	19,066	20,690	5,303	4,467	5,812	4,779	27.8	21.6	30.5	23.1	335	415	370	460	368	458	315	400		
Transportation and public utilities.....	5,142	6,109	2,162	1,927	2,376	1,983	42.4	31.3	46.2	34.1	417	502	449	567	445	561	386	458		
Wholesale and retail trade, total.....	18,061	21,136	1,568	1,321	1,775	1,478	8.7	6.3	9.8	7.0	252	305	353	407	348	402	242	298		
Finance, insurance, and real estate.....	5,558	6,851	160	155	228	209	2.9	2.3	4.1	3.1	286	406	284	400	285	399	297	407		
Services.....	18,400	23,731	1,410	1,388	1,770	1,673	7.7	5.8	9.6	7.0	272	357	303	388	303	402	288	352		
Government.....	15,618	17,476	5,735	6,422	7,109	7,811	36.7	38.7	45.5	43.6	351	472	386	509	381	506	318	419		

B Data not shown where base is less than 50,000. NA Not available. X Not applicable.

<sup>1</sup> Members of a labor union or an employee association similar to a labor union. <sup>2</sup> Members of a labor union or an employee association similar to a union as well as workers who report no affiliation but whose jobs are covered by a union or an employee association contract. <sup>3</sup> For full-time employed wage and salary workers, 1983 revised since originally published. <sup>4</sup> Persons of Hispanic origin may be of any race.

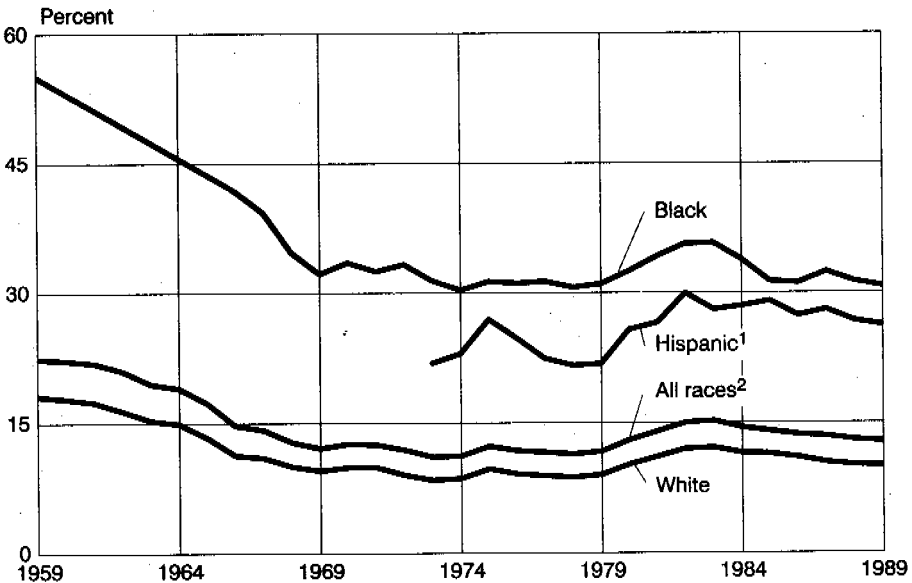
Sources: U.S. Bureau of Labor Statistics, *Employment and Earnings*, January issues.

Figure 14.1  
Median Household Income: 1989



<sup>1</sup> Hispanic persons may be of any race. <sup>2</sup> Spouse not present.  
Source: Chart prepared by U.S. Bureau of the Census. For data, see table 725.

Figure 14.2  
Persons Below the Poverty Level: 1959 to 1989



<sup>1</sup> Hispanic persons may be of any race. <sup>2</sup> Includes other races not shown separately.  
Source: Chart prepared by U.S. Bureau of the Census. For data, see table 745.



## Section 14

# Income, Expenditures, and Wealth

This section presents data on gross national product (GNP), national and personal income, saving and investment, money income, poverty, and national and personal wealth. The data on income and expenditure measure two aspects of the U.S. economy. One aspect relates to the national income and product accounts (NIPA), a summation reflecting the entire complex of the Nation's economic income and output and the interaction of its major components; the other relates to the distribution of money income to families and individuals, or consumer income.

The primary source for data on GNP, national and personal income, and gross saving and investment is the *Survey of Current Business*, published monthly, with supplements, by the Department of Commerce, Bureau of Economic Analysis (BEA). A comprehensive revision to the NIPA was completed in December 1985. A discussion of the revision appears in the October 1985 and the December 1985 *Survey of Current Business*. Detailed historical data appear in *The National Income and Product Accounts of the United States, 1929-82, Statistical Tables* and the July 1986 issue of the *Survey of Current Business*; detailed data for the most recent years are normally published each July in the *Survey*.

Sources of income distribution data are the decennial censuses of population and the Current Population Survey (CPS), both products of the Bureau of the Census (see text, section 1). Annual data on income of families, individuals, and households, by income class, are presented in *Current Population Reports-Consumer Income*, series P-60.

Data on individuals' saving and assets are published by the Board of Governors of the Federal Reserve System in the quarterly *Flow of Funds Accounts*; and detailed information on personal wealth is published periodically by the Internal Revenue Service (IRS) in *SOI Bulletin*.

**National income and product.**—*Gross national product* (GNP) is the total national output of goods and services valued at market prices. GNP can be viewed in terms of expenditure categories which comprise purchases of goods and services by consumers and government, gross private domestic investment, and net exports of goods and services. The goods and services included are largely those bought for final use (excluding illegal transactions) in the market economy. A number of inclusions, however, represent imputed values, the most important of which is rental value of owner-occupied housing. GNP, in this broad context, measures the output attributable to the factors of production—labor and property—supplied by U.S. residents. GNP differs from "national income" mainly in that GNP includes allowances for depreciation and for indirect business taxes (sales and property taxes); see table 702.

*Gross domestic product* (GDP) measures the output of production attributable to all labor and property located in a country. GDP relates to the physical location of the factors of production. *Gross state product* (GSP) is the gross market value of the goods and services attributable to labor and property located in a State. It is the State counterpart of the Nation's gross domestic product.

*National income* is the aggregate of labor and property earnings which arises in the current production of goods and services. It is the sum of employee compensation, proprietors' income, rental income, corporate profits, and net interest. It measures the total factor costs of the goods and services produced by the economy. Income is measured before deduction of taxes on income.

*Capital consumption adjustment* for corporations, nonfarm sole proprietorships, and partnerships is the difference between capital consumption claimed on income tax returns and capital consumption allowances that are measured at straightline depreciation, consistent service lives, and replacement cost. The tax return data are valued at historical costs and reflect changes over time in service lives and depreciation patterns as permitted by tax regulations. *Inventory valuation adjustment* represents the difference between the book value of inventories used up in production and the cost of replacing them.

*Personal income* is the current income received by persons from all sources minus their personal contributions for social insurance. Classified as "persons" are individuals (including owners of unincorporated firms), nonprofit institutions serving individuals, private trust funds, and

private noninsured welfare funds. Personal income includes transfers (payments not resulting from current production) from government and business such as Social Security benefits, public assistance, etc., but excludes transfers among persons. Also included are certain nonmonetary types of income—chiefly estimated net rental value to owner-occupants of their homes and the value of services furnished without payment by financial intermediaries and food and fuel produced and consumed on farms.

*Disposable personal income* is personal income less personal tax and nontax payments. It is the income available to persons for spending and saving. Personal tax and nontax payments are tax payments (net of refunds) by persons (except personal contributions for social insurance) that are not chargeable to business expense, and certain personal payments to general government that are treated like taxes. Personal taxes include income, estate and gift, and personal property taxes and motor vehicle licenses. Nontax payments include passport fees, fines and penalties, donations, and tuitions and fees paid to schools and hospitals operated by government.

**Consumer Expenditure Survey.**—The Consumer Expenditure Survey program was begun in late 1979. The principal objective of the survey is to collect current consumer expenditure data which provide a continuous flow of data on the buying habits of American consumers. The data are necessary for future revisions of the Consumer Price Index.

The survey conducted by the Bureau of the Census for the Bureau of Labor Statistics, consists of two components: (1) An interview panel survey in which the expenditures of consumer units are obtained in five interviews conducted every 3 months; and (2) a diary or recordkeeping survey completed by participating households for two consecutive 1-week periods.

Each component of the survey queries an independent sample of consumer units representative of the U.S. total population. Over 52 weeks of the year, 5,000 consumer units are sampled for the diary survey. Each consumer unit keeps a diary for two 1-week periods yielding approximately 10,000 diaries a year. The interview sample is selected on a rotating panel basis, targeted at 5,000 consumer units per quarter. Data are collected in 88 urban and 16 rural areas of the country that are representative of the U.S. total population. The survey includes students in student housing.

The Diary survey is designed to obtain expenditures on small, frequently purchased items which are normally difficult for respondents to recall. Detailed records of expenses are kept for food and beverages, both at home and in eating places, tobacco, housekeeping supplies, nonprescription drugs, and personal care products and services.

The Interview survey is designed to obtain data on the types of expenditures which respondents can be expected to recall for a period of 3 months or longer. In general, these include relatively large expenditures, such as those for property, automobiles, and major appliances, or expenditures which occur on a fairly regular basis, such as rent, utilities, or insurance premiums. Including "global estimates" for food, it is estimated that about 95 percent of expenditures are covered in the interview. Excluded are nonprescription drugs, household supplies, and personal care items. The Interview survey also provides data on expenditures incurred while on trips. Both surveys exclude all business related expenditures for which the family is reimbursed.

In contrast to previous publications from the survey which have presented data from the diary and quarterly interview surveys separately, the tables in the most recently published *Consumer Expenditure Survey* combine, or integrate, data from the two surveys. Integration is necessary to permit analysis of total family expenditures because neither the diary nor quarterly interview survey was designed to collect a complete account of consumer spending.

**Distribution of money income to families and individuals.**—Money income statistics are based on data collected in various field surveys of income conducted since 1936. Since 1947, the Bureau of the Census has collected the data on an annual basis and published them in *Current Population Reports*, series P-60. In each of the surveys, field representatives interview samples of the population with respect to income received during the previous year. Money income as defined by the Bureau of the Census differs from the BEA concept of "personal income."

Data on consumer income collected in the CPS by the Bureau of the Census cover money income received (exclusive of certain money receipts such as capital gains) before payments for personal income taxes, Social Security, union dues, Medicare deductions, etc. Therefore, money income does not reflect the fact that some families receive part of their income in the form of noncash benefits (see section 12) such as food stamps, health benefits, and subsidized housing; that some farm families receive noncash benefits in the form of rent-free housing and goods produced and consumed on the farm; or that noncash benefits are also received by some nonfarm residents which often take the form of the use of business transportation and facilities, full or partial payments by business for retirement programs, medical and educational expenses,



etc. These elements should be considered when comparing income levels. For data on noncash benefits, see section 12. None of the aggregate income concepts (GNP, national income, or personal income) is exactly comparable with money income, although personal income is the closest.

Several changes were made in the collection and presentation of data from the March 1980 CPS. The changes include (1) the use of a more detailed income questionnaire for all sample households, (2) the use of an expanded sample, (3) the implementation of the "householder" concept rather than the traditional "head" concept, (4) the exclusion of a small number of "secondary families" from the count of all families, (5) the use of more detailed income intervals in the upper range of the income distribution, (6) the introduction of the new farm definition, and (7) the restriction of the population with income to persons 15 years old and over. For more information on the impact and comparability, see the source.

Beginning in the March 1981 Current Population Survey, 1980 census population controls were used; for income years 1971 through 1979, 1970 census population controls had been used. This change had little impact on income summary measures (means and medians) and proportional measures (percent distributions and poverty rates); however, use of the controls may have significant impact on the absolute numbers.

Income and poverty data for 1986 are the first estimates based entirely on households selected from the 1980 census-based sample design. Estimates by type of residence categories such as metropolitan, nonmetropolitan, farm, and nonfarm reflect metropolitan areas defined as of June 1984. In addition, the March 1987 CPS income supplement was revised to allow for the coding of larger earnings amounts on the questionnaire. A description of this change and its effect on estimates in this report can be found in *Current Population Reports*, series P-60, No. 157.

A new computer processing system was introduced to the March 1989 CPS income supplement. The system in use before this year was first introduced in 1976 but was never fully updated to reflect questionnaire changes. In addition, the programs used to process the CPS file were written in a language which was phased out of Census. The March 1988 file was reprocessed based on the new procedures to better evaluate the new processing procedures and allow year to year comparisons to be made using a consistent processing system. A description of this change and its effect on estimates in this report can be found in *Current Population Reports*, series P-60, No. 166.

In October 1983, the Census Bureau began to collect data under the new Survey of Income and Program Participation (SIPP). The information supplied by this survey is expected to provide better measures of the status and changes in income distribution and poverty of households and persons in the United States. The data collected in SIPP will be used to study Federal and State aid programs (such as food stamps, welfare, Medicaid, and subsidized housing), to estimate program costs and coverage, and to assess the effects of proposed changes in program eligibility rules or benefit levels. The core questions are repeated at each interview and cover labor force activity, the types and amounts of income received, and participation status in various programs. The core also contains questions covering attendance in postsecondary schools and private health insurance coverage. Various supplements or topical modules covering areas such as educational attainment, assets and liabilities, and pension plan coverage are periodically included.

**Poverty.**—Families and unrelated individuals are classified as being above or below the poverty level using the poverty index originated at the Social Security Administration in 1964 and revised by Federal Interagency Committees in 1969 and 1980. The poverty index is based solely on money income and does not reflect the fact that many low-income persons receive noncash benefits such as food stamps, Medicaid, and public housing. The index is based on the Department of Agriculture's 1961 Economy Food Plan and reflects the different consumption requirements of families based on their size and composition. The poverty thresholds are updated every year to reflect changes in the Consumer Price Index. The following technical changes to the thresholds were made in 1981: (1) distinctions based on sex of householder have been eliminated; (2) separate thresholds for farm families have been dropped; and (3) the matrix has been expanded to families of nine or more persons from the old cutoff of seven or more persons. These changes have been incorporated in the calculation of poverty data beginning with 1981. The table below shows the average thresholds used for selected years between 1970 and 1988. See *Current Population Reports*, series P-60, Nos. 138, 149, 152, 157, 160, and 168 for more details.

**Weighted Average Poverty Thresholds Based on Money Income for Families and  
Unrelated Individuals: 1970 to 1989**

SIZE OF UNIT	1970 <sup>1</sup>	1975 <sup>1</sup>	1980 <sup>1</sup>	1983	1984	1985	1986	1987	1988	1989
1 person (unrelated individual) . . . . .	\$1,954	\$2,724	\$4,190	\$5,061	\$5,278	\$5,469	\$5,572	\$5,778	\$6,024	\$6,311
Under 65 years . . . . .	2,010	2,797	4,290	5,180	5,400	5,593	5,701	5,909	6,155	6,451
65 years and over . . . . .	1,861	2,581	3,949	4,775	4,979	5,156	5,255	5,447	5,674	5,947
2 persons . . . . .	2,525	3,506	5,363	6,483	6,762	6,998	7,138	7,397	7,704	8,076
Householder under 65 years . . . . .	2,604	3,617	5,537	6,697	6,983	7,231	7,372	7,641	7,958	8,343
Householder 65 years and over . . . . .	2,348	3,257	4,983	6,023	6,282	6,503	6,630	6,872	7,158	7,501
3 persons . . . . .	3,099	4,283	6,565	7,938	8,277	8,573	8,737	9,056	9,436	9,885
4 persons . . . . .	3,968	5,500	8,414	10,178	10,609	10,989	11,203	11,611	12,092	12,675
5 persons . . . . .	4,680	6,499	9,966	12,049	12,566	13,007	13,259	13,737	14,305	14,990
6 persons . . . . .	5,280	7,316	11,269	13,630	14,207	14,696	14,986	15,509	16,149	16,921
7 or more persons . . . . .	6,468	9,022	13,955	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
7 persons . . . . .	(NA)	(NA)	(NA)	15,500	16,096	16,656	17,049	17,649	18,248	19,162
8 persons . . . . .	(NA)	(NA)	(NA)	17,170	17,961	18,512	18,791	19,515	20,279	21,328
9 or more persons . . . . .	(NA)	(NA)	(NA)	20,310	21,247	22,083	22,497	23,105	24,133	25,480

NA Not available. <sup>1</sup> Poverty levels for nonfarm families.

Source: U.S. Bureau of the Census, *Current Population Reports*, P-60, No. 168.

In the recent past, the Bureau of the Census has published a number of technical papers that presented experimental poverty estimates based on income definitions that counted the value of selected government noncash benefits. The Census Bureau has also published annual reports on after-tax income. The *Current Population Reports*, series P-60, No. 169-RD brings together the benefit and tax data that previously appeared in the separate reports. This report shows the distribution of income among households and the prevalence of poverty under the official definition of money income and under definitions that add income components or subtract taxes. The types of income that are included in one or more of the definitions: (1) money income excluding capital gains or lump-sum payments, (2) capital gains, (3) the value of employer contributions to health insurance plans, (4) the value of food stamps, (5) the subsidy value of school lunches, (6) the subsidy value of housing assistance, (7) the fungible values of Medicare and Medicaid coverage (that is, the benefits are counted as income to the extent that they free up resources that could have been spent on medical care), and (8) the imputed net return on equity in own home. The types of taxes accounted for are Federal and State income taxes and payroll taxes.

The poverty statistics presented by the Bureau of the Census and Congressional Budget Office in tables 754 and 756 reflect alternative adjustments for inflation. The study used a variation of the Consumer Price Index to adjust poverty thresholds for the effects of changing prices since 1967. The alternative measure of inflation uses estimates of the cost of renting equivalent housing to assess homeownership costs; this methodology has been used in the official Consumer Price Index since 1983. See text, section 15, and source for more details.

**Personal wealth.**—Personal wealth estimates, issued by the IRS, are based on a sample of Federal estate tax returns which must be filed for deceased persons. Estimates are weighted to adjust for age, sex, and "social class" (as determined by the IRS through insurance holdings). Gross estate is the gross value of all assets, including the full face value of life insurance (reduced by policy loans), before reduction by the amount of debts. The level of gross estate or gross assets required for filing estate tax returns increased from \$60,000 in 1972 to \$120,000 in 1976. Net worth is one's level of worth after all debts have been removed.

**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability pertaining to Census Bureau data, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

## No. 698. GNP in Current and Constant (1982) Dollars: 1929 to 1989

[In billions of dollars]

ITEM	1929	1935	1940	1945	1950	1960	1970	1975	1980
<b>CURRENT DOLLARS</b>									
Gross national product (GNP) . . . . .	103.9	72.8	100.4	213.4	288.3	515.3	1,015.5	1,598.4	2,732.0
Personal consumption expenditures . . . . .	77.3	55.8	71.0	119.8	192.1	330.7	640.0	1,012.8	1,732.6
Durable goods . . . . .	9.2	5.1	7.8	8.0	30.8	43.5	85.7	135.4	219.3
Nondurable goods . . . . .	37.7	29.3	37.0	71.9	98.2	153.2	270.3	416.2	681.4
Services . . . . .	30.4	21.3	26.2	39.7	63.2	134.0	284.0	461.2	831.9
Gross private domestic investment . . . . .	16.7	6.6	13.4	11.3	55.1	78.2	148.8	219.6	437.0
Fixed investment . . . . .	14.9	5.6	11.2	12.3	48.3	75.1	145.7	225.2	445.3
Nonresidential . . . . .	11.0	4.3	7.7	10.6	27.8	48.8	105.2	162.9	322.8
Residential . . . . .	4.0	1.3	3.5	1.7	20.5	26.3	40.5	62.3	122.5
Change in business inventories . . . . .	1.7	1.1	2.2	-1.0	6.8	3.1	3.1	-5.6	-8.3
Net exports of goods and services . . . . .	1.1	0.1	1.8	-0.5	2.2	5.9	8.5	31.1	32.1
Exports . . . . .	7.1	3.3	5.4	7.4	14.5	29.9	68.9	161.3	351.0
Imports . . . . .	5.9	3.2	3.7	7.9	12.3	24.0	60.5	130.3	318.9
Government purchases . . . . .	8.9	10.2	14.2	83.0	38.8	100.6	218.2	335.0	530.3
Federal . . . . .	1.5	3.1	6.1	74.8	19.1	54.4	98.8	129.2	208.1
National defense . . . . .	(NA)	(NA)	2.3	73.7	14.3	45.3	76.8	89.6	142.7
State and local . . . . .	7.4	7.2	8.1	8.2	19.8	46.1	119.4	205.9	322.2
<b>CONSTANT (1982) DOLLARS</b>									
Gross national product (GNP) . . . . .	709.6	580.2	772.9	1,354.8	1,203.7	1,665.3	2,416.2	2,695.0	3,187.1
Personal consumption expenditures . . . . .	471.4	412.1	502.6	592.7	733.2	1,005.1	1,492.0	1,711.9	2,000.4
Durable goods . . . . .	40.3	28.9	40.6	28.7	80.7	98.0	162.5	205.6	245.9
Nondurable goods . . . . .	211.4	201.5	259.4	323.5	352.8	463.3	632.5	676.5	762.6
Services . . . . .	219.7	181.7	202.7	240.5	299.8	443.9	697.0	829.8	991.9
Gross private domestic investment . . . . .	139.2	60.9	111.8	78.5	234.9	260.5	381.5	383.3	509.3
Fixed investment . . . . .	128.4	54.7	97.4	84.9	210.8	252.7	373.3	396.1	516.2
Nonresidential . . . . .	93.0	40.0	65.0	74.2	124.0	159.4	264.0	281.2	379.2
Residential . . . . .	35.4	14.7	32.5	10.7	86.7	93.3	109.3	114.9	137.0
Change in business inventories . . . . .	10.8	6.2	14.4	-8.4	24.2	7.7	8.2	-12.8	-6.9
Net exports of goods and services . . . . .	4.7	-5.9	8.2	-18.9	4.7	-4.0	-30.0	18.9	57.0
Exports . . . . .	42.1	26.6	40.0	35.2	59.2	98.4	178.3	259.7	388.9
Imports . . . . .	37.4	32.5	31.7	54.1	54.6	102.4	208.3	240.8	332.0
Government purchases . . . . .	94.2	113.0	150.2	704.5	230.8	403.7	572.6	580.9	620.5
Federal . . . . .	18.3	34.1	63.6	634.0	116.7	220.6	268.3	226.3	246.9
National defense . . . . .	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	161.1	171.2
State and local . . . . .	75.9	79.0	86.6	70.5	114.2	183.1	304.3	354.6	373.6
<b>CONSTANT (1982) DOLLARS</b>									
Gross national product (GNP) . . . . .	3,052.6	3,166.0	3,405.7	3,772.2	4,014.9	4,231.6	4,515.6	4,873.7	5,200.8
Personal consumption expenditures . . . . .	1,915.1	2,050.7	2,234.5	2,430.5	2,629.0	2,797.4	3,009.4	3,238.2	3,450.1
Durable goods . . . . .	239.9	252.7	289.1	335.5	372.2	406.0	423.4	457.5	474.6
Nondurable goods . . . . .	740.6	771.0	816.7	867.3	911.2	942.0	1,001.3	1,060.0	1,130.0
Services . . . . .	934.7	1,027.0	1,128.7	1,227.6	1,345.6	1,449.5	1,584.7	1,720.7	1,845.5
Gross private domestic investment . . . . .	515.5	447.3	502.3	664.8	643.1	659.4	699.5	747.1	771.2
Fixed investment . . . . .	491.5	471.8	509.4	597.1	631.8	652.5	671.2	720.8	742.9
Nonresidential . . . . .	369.2	366.7	356.9	416.0	442.9	435.2	444.9	488.4	511.9
Residential . . . . .	122.3	105.1	152.5	181.1	188.8	217.3	226.3	232.5	231.0
Change in business inventories . . . . .	24.0	-24.5	-7.1	67.7	11.3	6.9	28.3	26.2	28.3
Net exports of goods and services . . . . .	33.9	26.3	-6.1	-58.9	-78.0	-97.4	-114.7	-74.1	-46.1
Exports . . . . .	382.8	361.9	352.5	383.5	370.9	396.5	449.6	552.0	626.2
Imports . . . . .	348.9	335.6	358.7	442.4	448.9	493.8	564.3	626.1	672.3
Government purchases . . . . .	588.1	641.7	675.0	735.9	820.8	872.2	921.4	962.5	1,025.6
Federal . . . . .	242.2	272.7	283.5	310.5	355.2	366.5	381.3	380.3	400.0
National defense . . . . .	167.5	193.8	214.4	234.3	259.1	277.8	294.6	297.2	301.1
State and local . . . . .	345.9	369.0	391.5	425.3	465.6	505.7	540.2	582.3	625.6
<b>CONSTANT (1982) DOLLARS</b>									
Gross national product (GNP) . . . . .	3,248.8	3,166.0	3,279.1	3,501.4	3,518.7	3,717.9	3,845.3	4,016.9	4,117.7
Personal consumption expenditures . . . . .	2,024.2	2,050.7	2,146.0	2,249.3	2,354.8	2,446.4	2,515.8	2,606.5	2,656.8
Durable goods . . . . .	250.8	252.7	283.1	323.1	355.1	384.4	391.4	418.2	428.0
Nondurable goods . . . . .	764.4	771.0	800.2	825.9	847.4	878.1	892.7	909.4	919.9
Services . . . . .	1,009.0	1,027.0	1,062.7	1,100.3	1,152.3	1,183.8	1,231.6	1,278.9	1,309.0
Gross private domestic investment . . . . .	545.5	447.3	504.0	658.4	637.0	639.6	669.0	705.7	716.9
Fixed investment . . . . .	521.7	471.8	510.4	596.1	627.9	634.1	646.2	682.1	693.1
Nonresidential . . . . .	395.2	366.7	361.2	425.2	453.5	438.4	449.8	487.2	506.1
Residential . . . . .	126.5	105.1	149.3	170.9	174.4	195.7	196.4	194.9	187.0
Change in business inventories . . . . .	23.9	-24.5	-6.4	62.3	9.1	5.6	22.8	23.6	23.8
Net exports of goods and services . . . . .	49.4	26.3	-19.9	-84.0	-104.3	-129.7	-118.5	-75.9	-54.1
Exports . . . . .	392.7	361.9	348.1	371.8	367.2	397.1	451.8	534.7	593.3
Imports . . . . .	343.4	335.6	368.1	455.8	471.4	526.9	570.3	610.6	647.4
Government purchases . . . . .	629.7	641.7	649.0	677.7	731.2	761.6	779.1	780.5	798.1
Federal . . . . .	259.6	272.7	275.1	290.8	326.0	334.1	339.6	328.1	334.9
National defense . . . . .	180.3	193.8	206.9	218.5	237.2	252.1	265.1	268.7	256.3
State and local . . . . .	370.1	369.0	373.9	387.0	405.2	427.5	439.5	452.4	463.2

NA Not available. <sup>1</sup> Purchases of goods and services.Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

# No. 699. Gross National Product, by Industry, in Current and Constant (1982) Dollars: 1980 to 1988

[In billions of dollars, except percent. Data include non-factor charges (capital consumption allowances and indirect business taxes, etc.) as well as factor charges against gross product; corporate profits and capital consumption allowances have been shifted from a company to an establishment basis. These data are not fully consistent with other GNP tables because they do not yet incorporate source data used in the July 1990 revisions of the National Income and Product Accounts]

SIC <sup>1</sup> code	INDUSTRY	CURRENT DOLLARS			CONSTANT (1982) DOLLARS				Average annual percent change	
		1980	1985	1988	1980	1985	1987	1988	1980- 1988	1987- 1988
(X)	Gross national product.....	2,732.0	4,014.9	4,880.6	3,187.1	3,618.7	3,853.7	4,024.4	3.0	4.4
(X)	Domestic industries (gross domestic product).....	2,684.4	3,974.1	4,847.3	3,131.7	3,581.9	3,827.2	3,996.3	3.1	4.4
(X)	Private industries.....	2,357.3	3,502.2	4,286.3	2,742.8	3,200.1	3,443.8	3,609.8	3.5	4.8
(A)	Agriculture, forestry, and fisheries.....	77.2	92.0	99.8	76.4	95.8	104.4	94.5	2.7	-9.5
(B)	Mining.....	107.3	114.2	80.4	143.5	139.0	125.5	127.3	-1.5	1.5
(C)	Construction.....	137.7	186.6	232.6	153.3	166.3	175.4	176.9	1.8	0.9
(D)	Manufacturing <sup>2</sup> .....	581.0	789.5	948.6	673.9	779.2	849.7	927.5	4.1	9.2
(X)	Durable goods.....	351.8	458.8	530.3	408.5	471.5	517.4	583.2	4.6	12.7
24	Lumber and wood products.....	18.7	22.2	29.6	21.3	19.8	24.2	25.7	2.4	6.2
25	Furniture and fixtures.....	8.6	13.6	15.3	10.4	12.1	12.8	12.3	2.2	-3.6
32	Stone, clay, and glass products.....	19.0	24.8	28.3	21.3	22.2	24.9	25.2	2.2	1.5
33	Primary metal industries.....	44.3	34.8	46.8	48.2	32.7	34.6	37.9	-3.0	9.6
34	Fabricated metal products.....	46.0	57.8	64.0	53.7	56.2	58.4	63.2	2.1	8.3
35	Machinery, except electrical.....	76.9	82.7	93.1	86.1	124.2	140.7	170.5	8.9	21.2
36	Electric and electronic equipment.....	55.0	82.2	91.1	63.3	74.3	78.3	88.1	4.2	12.5
371	Motor vehicles and equipment.....	26.7	53.7	55.1	35.2	50.3	46.4	51.7	4.9	11.5
(X)	Instruments and related products.....	19.0	25.8	31.5	21.9	24.2	26.7	31.5	4.6	17.9
38	Nondurable goods.....	229.2	330.8	418.3	265.5	307.7	332.2	344.3	3.3	3.6
20	Food and kindred products.....	52.2	69.8	83.3	59.8	64.8	66.5	67.8	1.6	2.0
21	Tobacco manufactures.....	7.3	12.2	15.5	9.6	6.2	5.6	4.7	-8.5	-15.6
22	Textile mill products.....	15.0	17.1	20.3	16.4	15.8	17.3	16.8	0.3	-3.0
23	Apparel and other textile products.....	17.1	20.6	24.6	21.1	20.1	22.7	23.2	1.2	2.3
26	Paper and allied products.....	23.1	33.1	45.8	25.8	30.2	33.8	34.9	3.8	3.3
27	Printing and publishing.....	31.6	52.5	64.4	37.0	42.5	43.6	45.5	2.6	4.4
28	Chemicals and allied products.....	45.5	63.8	92.1	50.0	59.1	68.2	74.2	5.1	8.8
29	Petroleum and coal products.....	16.8	32.2	39.5	22.9	39.4	42.6	44.6	8.7	4.7
30	Rubber and misc. plastic products.....	16.8	25.9	29.4	18.6	26.6	29.3	29.8	6.1	1.7
31	Leather and leather products.....	3.9	3.4	3.2	4.3	3.2	2.8	2.9	-4.7	3.1
(E)	Transportation and public utilities <sup>2</sup> .....	240.8	374.1	441.4	294.0	331.4	373.6	392.0	3.7	4.9
(X)	Transportation.....	105.8	137.5	163.2	117.1	132.4	147.4	150.0	3.1	1.8
40	Railroad transportation.....	20.8	21.7	21.1	22.8	23.5	25.4	26.5	1.9	4.6
41	Local and interurban passenger transit.....	5.4	7.4	9.2	6.4	6.5	6.2	6.1	-0.4	-0.6
42	Trucking and warehousing.....	44.0	58.6	69.6	49.9	60.9	65.3	65.5	3.5	0.4
44	Water transportation.....	7.1	7.9	8.3	8.2	3.5	3.7	3.7	-9.4	0.9
45	Transportation by air.....	18.1	27.1	37.1	17.3	23.2	31.5	31.1	7.6	-1.0
46	Pipelines, except natural gas.....	4.7	4.8	4.3	5.3	4.7	4.6	5.4	0.3	17.3
47	Transportation services.....	5.8	10.0	13.7	7.2	10.0	10.9	11.6	6.1	6.3
48	Communications.....	66.6	109.5	129.3	79.5	89.8	104.4	107.6	3.9	3.1
481	Telephone and telegraph.....	60.2	98.3	114.3	71.4	81.7	95.1	98.0	4.0	3.0
483	Radio and television broadcasting.....	6.3	11.2	15.0	8.1	8.1	9.3	9.7	2.2	3.9
49	Electric, gas, and sanitary services.....	68.4	127.0	148.8	97.3	109.2	121.7	134.3	4.1	10.4
(G)	Wholesale trade.....	193.9	280.8	326.1	200.1	267.1	289.4	296.8	5.1	2.6
(F)	Retail trade.....	245.0	377.4	454.7	281.7	354.4	370.0	397.1	4.4	7.3
(H)	Finance, insurance, and real estate.....	400.6	639.5	830.3	468.9	528.3	564.7	583.7	2.8	3.4
60	Banking.....	51.1	79.4	99.2	56.7	61.5	62.8	62.4	1.2	-0.6
61	Credit agencies other than banks.....	5.5	11.6	21.3	5.2	7.0	8.3	8.4	6.0	0.6
62	Security and commodity brokers, and services.....	9.7	24.1	40.3	11.2	18.8	29.9	33.6	14.7	12.2
63	Insurance carriers.....	37.0	40.7	68.0	38.7	39.5	38.8	41.1	0.8	6.0
64	Insurance agents and brokers, and services.....	14.4	22.4	32.2	15.9	18.0	18.7	18.8	2.1	0.4
65	Real estate.....	281.5	449.0	554.6	335.0	374.5	395.3	408.0	2.5	3.2
67	Holding and other investment companies.....	1.3	12.3	14.7	6.3	9.0	10.9	11.5	7.9	5.5
(I)	Services.....	374.0	648.1	872.5	450.9	538.6	591.4	613.9	3.9	3.8
70	Hotels and other lodging places.....	18.9	30.4	40.9	22.3	26.0	28.4	30.1	3.8	5.8
72	Personal services.....	18.8	29.7	36.9	22.3	25.2	26.4	27.2	2.5	3.3
73	Business services.....	68.8	145.8	200.3	83.9	120.8	139.7	147.2	7.3	5.3
75	Auto repair, services, and garages.....	21.1	33.2	41.8	24.8	28.7	28.9	29.5	2.2	2.3
78	Motion pictures.....	5.0	9.0	12.2	5.7	7.5	8.1	8.4	5.0	3.6
79	Amusement and recreation services.....	12.4	19.9	26.5	13.4	17.5	19.6	21.1	5.9	7.5
80	Health services.....	108.1	184.6	248.5	133.8	148.6	158.7	159.9	2.3	0.8
81	Legal services.....	23.3	46.3	67.4	30.6	33.5	36.8	39.6	3.3	7.6
82	Educational services.....	16.0	25.8	33.1	18.9	22.1	23.1	23.8	3.0	3.3
83&86	Social services and membership organizations.....	26.3	38.3	50.1	30.2	33.3	35.9	38.0	2.9	6.0
88	Private households.....	6.6	9.0	9.4	7.4	8.8	8.8	8.8	2.3	0.8
(J)	Government and government enterprises.....	322.1	476.7	570.6	362.8	400.5	414.8	422.2	1.2	1.8
(X)	Federal.....	114.7	171.0	187.6	138.3	146.2	148.6	150.8	1.1	1.5
(X)	State and local.....	207.4	305.7	383.0	244.5	254.3	266.2	271.4	1.3	1.9
(X)	Statistical discrepancy.....	4.9	-4.8	-8.6	5.9	-4.3	-4.1	-8.0	(NS)	(NS)
(X)	Rest of the world.....	47.6	40.7	33.3	55.5	36.9	28.6	28.1	-8.2	5.8

NS Not significant. <sup>1</sup> 1972 Standard Industrial Classification code; see text, section 13. <sup>2</sup> Includes items not shown separately.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, January 1991.

### No. 700. GNP Components—Average Annual Percent Change in Current and Constant (1982) Dollars: 1970 to 1989

[In percent. GNP = Gross national product. Minus sign (-) indicates decrease. For implicit price deflators and fixed-weighted price indexes, see table 779, section 15]

ITEM	1970-1980	1980-1989	1981-1982	1982-1983	1983-1984	1984-1985	1985-1986	1986-1987	1987-1988	1988-1989
<b>CURRENT DOLLARS</b>										
Gross national product. . . . .	10.4	7.4	3.7	7.6	10.8	6.4	5.4	6.7	7.9	6.7
Personal consumption expenditures	10.5	8.0	7.1	9.0	8.8	8.2	6.4	7.6	7.6	6.5
Durable goods. . . . .	9.9	9.0	5.3	14.4	16.0	10.9	9.1	4.3	8.1	3.7
Nondurable goods. . . . .	9.7	5.8	4.1	5.9	6.2	5.1	3.4	6.3	5.9	6.6
Services. . . . .	11.3	9.3	9.9	9.9	8.8	9.6	7.7	9.3	8.6	7.3
Gross private domestic investment	11.4	6.5	-13.2	12.3	32.4	-3.3	2.5	6.1	6.8	3.2
Fixed investment. . . . .	11.8	5.9	-4.0	8.0	17.2	5.8	3.3	2.9	7.4	3.1
Nonresidential. . . . .	11.9	5.3	-0.7	-2.7	16.6	6.5	-1.7	2.2	9.8	4.8
Residential. . . . .	11.7	7.3	-14.1	45.1	18.8	4.3	15.1	4.1	2.7	-0.6
Exports of goods and services. . . . .	17.7	6.6	-5.5	-2.6	8.8	-3.3	6.9	13.4	22.8	13.4
Imports of goods and services. . . . .	18.1	8.6	-3.8	6.9	23.3	1.5	10.0	14.3	11.0	7.4
Government purchases of goods and services. . . . .	9.3	7.6	9.1	5.2	9.0	11.5	6.3	5.6	4.5	6.6
Federal. . . . .	7.7	7.5	12.6	4.0	9.5	14.4	3.2	4.0	-0.3	5.2
State and local. . . . .	10.4	7.7	6.7	6.1	8.6	9.5	8.6	6.8	7.8	7.4
<b>CONSTANT (1982) DOLLARS</b>										
Gross national product. . . . .	2.8	2.9	-2.5	3.6	6.8	3.4	2.7	3.4	4.5	2.5
Personal consumption expenditures	3.0	3.2	1.3	4.6	4.8	4.7	3.9	2.8	3.6	1.9
Durable goods. . . . .	4.2	6.4	0.8	12.0	14.1	9.9	8.3	1.8	6.8	2.3
Nondurable goods. . . . .	1.9	2.1	0.9	3.8	3.2	2.6	3.6	1.7	1.9	1.2
Services. . . . .	3.6	3.1	1.8	3.5	3.5	4.7	2.7	4.0	3.8	2.4
Gross private domestic investment	2.9	3.9	-18.0	12.7	30.6	-3.3	0.4	4.6	5.5	1.6
Fixed investment. . . . .	3.3	3.3	-9.6	8.2	16.8	5.3	1.0	1.9	5.6	1.6
Nonresidential. . . . .	3.7	3.3	-7.2	-1.5	17.7	6.7	-3.3	2.6	8.3	3.9
Residential. . . . .	2.3	3.5	-16.9	42.1	14.5	2.0	12.2	0.4	-0.8	-4.1
Exports of goods and services. . . . .	8.1	4.8	-7.8	-3.8	6.8	-1.2	8.1	13.8	18.3	11.0
Imports of goods and services. . . . .	4.8	7.7	-2.3	9.7	23.8	3.4	11.8	8.2	7.1	6.0
Government purchases of goods and services. . . . .	0.8	2.8	1.9	1.1	4.4	7.9	4.2	2.3	0.2	2.3
Federal. . . . .	-0.8	3.4	5.0	0.9	5.7	12.1	2.5	1.6	-3.4	2.1
State and local. . . . .	2.1	2.4	-0.3	1.3	3.5	4.7	5.5	2.8	2.9	2.4

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

### No. 701. Gross National Product, by Type of Product and Sector: 1970 to 1989

[In billions of dollars]

ITEM	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
Gross national product. . . . .	1,015.5	1,598.4	2,732.0	3,405.7	3,772.2	4,014.9	4,231.6	4,515.6	4,873.7	5,200.8
<b>BY MAJOR TYPE OF PRODUCT</b>										
Goods. . . . .	467.8	714.7	1,174.9	1,396.1	1,581.4	1,641.2	1,686.7	1,788.4	1,935.1	2,072.7
Services. . . . .	441.1	725.2	1,265.0	1,682.5	1,813.9	1,968.3	2,119.3	2,292.4	2,488.6	2,671.2
Structures. . . . .	106.5	158.5	292.0	327.1	377.0	405.4	425.6	434.8	450.0	456.9
<b>BY SECTOR</b>										
Business. . . . .	856.3	1,341.2	2,306.8	2,866.6	3,201.5	3,412.8	3,599.9	3,844.9	4,147.8	4,418.1
Households and institutions. . . . .	32.4	52.0	89.3	122.9	132.7	142.3	153.5	169.9	187.3	203.6
Government. . . . .	119.5	187.7	288.3	366.4	390.6	419.0	443.8	471.9	505.1	541.6
Rest of the world. . . . .	7.3	17.5	47.6	49.9	47.4	40.7	34.4	29.0	33.5	37.6

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

### No. 702. Relation of GNP, Net National Product, National Income, Personal Income, Disposable Personal Income, and Personal Saving: 1970 to 1989

[In billions of dollars. For definitions, see text, section 14]

ITEM	1970	1975	1980	1984	1985	1986	1987	1988	1989
Gross national product . . . . .	1,015.5	1,598.4	2,732.0	3,772.2	4,014.9	4,231.6	4,515.8	4,873.7	5,200.8
Less: Capital consumption allowances . . . . .	88.8	161.8	303.8	415.5	437.2	480.1	487.0	514.3	554.4
Equals: Net national product . . . . .	926.8	1,436.6	2,428.1	3,356.8	3,577.6	3,771.5	4,028.8	4,359.4	4,646.4
Less: Indirect business tax and nontax liability . . . . .	94.0	140.0	213.3	313.9	333.6	348.9	367.8	388.7	414.0
Plus: Subsidies . . . . .	2.9	2.4	5.7	9.9	7.2	12.8	17.4	16.2	6.3
Equals: National income . . . . .	832.6	1,289.1	2,203.5	3,028.6	3,234.0	3,412.6	3,680.3	3,984.9	4,223.3
Less: Corporate profits . . . . .	74.7	117.6	177.2	266.9	282.3	282.1	308.3	337.6	311.6
Net interest . . . . .	41.2	83.8	200.9	304.8	319.0	325.5	328.6	371.8	445.1
Contributions for social insurance . . . . .	62.2	118.5	216.5	324.9	354.1	379.2	400.1	442.6	476.8
Plus: Government transfer payments to persons . . . . .	81.8	185.7	312.6	437.9	467.8	496.8	521.3	557.4	604.5
Personal interest income . . . . .	69.3	122.5	271.9	444.7	478.0	493.2	501.3	547.9	643.2
Personal dividend income . . . . .	22.2	28.7	52.9	75.5	78.7	85.8	91.8	102.2	114.4
Business transfer payments . . . . .	4.1	7.4	12.1	18.7	22.0	24.6	28.5	30.3	32.4
Equals: Personal income . . . . .	831.8	1,313.4	2,258.5	3,108.7	3,325.3	3,526.2	3,766.4	4,070.8	4,384.3
Less: Personal tax and nontax payments . . . . .	116.2	170.6	340.5	440.2	486.6	512.9	571.6	591.6	658.8
Equals: Disposable personal income . . . . .	715.6	1,142.8	1,918.0	2,668.5	2,838.7	3,013.3	3,194.7	3,479.2	3,725.5
Less: Personal outlays . . . . .	657.9	1,038.2	1,781.1	2,504.5	2,713.3	2,888.5	3,102.2	3,333.6	3,553.7
Equals: Personal saving . . . . .	57.7	104.6	136.9	164.1	125.4	124.8	92.5	145.6	171.8

<sup>1</sup> With capital consumption adjustment. <sup>2</sup> Includes items not shown separately. <sup>3</sup> Less current surplus of government enterprises. <sup>4</sup> With inventory valuation and capital consumption adjustments.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

### No. 703. Selected Per Capita Income and Product Items: 1929 to 1989

[Based on Bureau of the Census estimated population including Armed Forces abroad; based on quarterly averages. Prior to 1960, excludes Alaska and Hawaii]

YEAR	CURRENT DOLLARS				CONSTANT (1982) DOLLARS		
	Gross national product	Personal income	Disposable personal income	Personal consumption expenditures	Gross national product	Disposable personal income	Personal consumption expenditures
1929 . . . . .	853	692	671	634	5,822	4,091	3,868
1930 . . . . .	740	613	593	568	5,218	3,727	3,589
1935 . . . . .	572	469	455	438	4,555	3,359	3,236
1940 . . . . .	760	587	568	538	5,850	4,017	3,804
1945 . . . . .	1,525	1,215	1,066	855	9,682	5,285	4,236
1950 . . . . .	1,900	1,504	1,368	1,267	7,935	5,220	4,834
1955 . . . . .	2,456	1,901	1,687	1,560	9,045	5,714	5,287
1960 . . . . .	2,851	2,265	1,986	1,829	9,213	6,036	5,561
1965 . . . . .	3,628	2,840	2,505	2,268	10,741	7,027	6,362
1970 . . . . .	4,951	4,056	3,489	3,121	11,781	8,134	7,275
1971 . . . . .	5,309	4,305	3,740	3,330	11,964	8,322	7,409
1972 . . . . .	5,777	4,676	4,000	3,609	12,426	8,562	7,726
1973 . . . . .	6,414	5,198	4,481	3,950	12,948	9,042	7,972
1974 . . . . .	6,886	5,657	4,855	4,285	12,760	8,867	7,826
1975 . . . . .	7,401	6,081	5,291	4,689	12,478	8,944	7,926
1976 . . . . .	8,175	6,655	5,744	5,178	12,961	9,175	8,272
1977 . . . . .	9,036	7,297	6,262	5,707	13,431	9,381	8,551
1978 . . . . .	10,105	8,141	6,968	6,304	13,993	9,735	8,808
1979 . . . . .	11,142	9,036	7,682	6,960	14,182	9,829	8,904
1980 . . . . .	11,995	9,916	8,421	7,607	13,994	9,722	8,783
1981 . . . . .	13,262	10,952	9,243	8,320	14,114	9,769	8,794
1982 . . . . .	13,614	11,485	9,724	8,818	13,614	9,725	8,818
1983 . . . . .	14,503	12,088	10,340	9,516	13,964	9,930	9,139
1984 . . . . .	15,913	13,114	11,257	10,253	14,771	10,419	9,489
1985 . . . . .	16,776	13,895	11,861	10,985	15,121	10,625	9,840
1986 . . . . .	17,511	14,592	12,469	11,576	15,385	10,905	10,123
1987 . . . . .	18,508	15,437	13,094	12,334	15,761	10,946	10,311
1988 . . . . .	19,783	16,524	14,123	13,144	16,305	11,368	10,580
1989 . . . . .	20,903	17,621	14,973	13,866	16,550	11,531	10,678

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

**No. 704. National Income, by Type of Income: 1970 to 1989**

(In billions of dollars)

TYPE OF INCOME	1970	1975	1980	1984	1985	1986	1987	1988	1989
<b>National income</b> . . . . .	<b>832.6</b>	<b>1,289.1</b>	<b>2,203.5</b>	<b>3,028.6</b>	<b>3,234.0</b>	<b>3,412.6</b>	<b>3,660.3</b>	<b>3,984.9</b>	<b>4,223.3</b>
Compensation of employees . . . . .	618.3	948.7	1,638.2	2,213.9	2,367.5	2,511.4	2,686.4	2,905.1	3,079.0
Wages and salaries . . . . .	551.5	814.7	1,372.0	1,838.8	1,975.2	2,094.8	2,249.7	2,431.1	2,573.2
Government and government enterprises . . . . .	117.1	176.1	260.1	346.3	371.8	393.7	419.4	446.6	476.6
Other . . . . .	434.3	638.6	1,111.8	1,492.5	1,603.4	1,701.1	1,830.3	1,984.5	2,098.6
Supplements to wages and salaries . . . . .	66.8	134.0	266.3	375.1	392.4	416.6	436.6	474.0	505.8
Employer contributions for social insurance . . . . .	34.3	68.0	127.9	192.2	204.8	217.3	227.2	248.5	263.9
Other labor income . . . . .	32.5	65.9	138.4	182.9	187.6	199.3	209.4	225.5	241.9
Proprietors' income <sup>1</sup> . . . . .	80.2	125.4	180.7	234.5	255.9	282.0	323.4	354.2	379.3
Farm . . . . .	14.7	25.4	20.5	30.5	30.2	34.7	42.8	43.7	48.6
Nonfarm . . . . .	65.4	100.0	160.1	204.0	225.6	247.2	280.6	310.5	330.7
Rental income of persons <sup>2</sup> . . . . .	18.2	13.5	6.6	8.5	9.2	11.6	13.7	16.3	8.2
Corporate profits . . . . .	74.7	117.6	177.2	266.9	282.3	282.1	308.3	337.6	311.6
Corporate profits <sup>3</sup> . . . . .	69.5	123.9	194.0	234.2	222.6	228.3	255.9	289.8	286.1
Profits before tax . . . . .	76.0	134.8	237.1	240.0	224.3	221.6	275.3	316.7	307.7
Profits tax liability . . . . .	34.4	50.9	84.8	93.9	96.4	106.3	126.9	136.2	135.1
Profits after tax . . . . .	41.7	83.9	152.3	146.1	127.8	115.3	148.4	180.5	172.6
Dividends . . . . .	22.5	29.6	54.7	79.0	83.3	81.3	98.2	110.0	123.5
Undistributed profits . . . . .	19.2	54.3	97.6	67.0	44.6	24.0	50.2	70.5	49.1
Inventory valuation adjustment . . . . .	-6.6	-11.0	-43.1	-5.8	-1.7	6.7	-19.4	-27.0	-21.7
Capital consumption adjustment . . . . .	5.2	-6.2	-16.8	32.7	59.7	53.8	52.4	47.8	25.5
Net interest . . . . .	41.2	83.8	200.9	304.8	319.0	325.5	328.6	371.8	445.1
<b>Addenda:</b>									
Corporate profits after tax <sup>1</sup> . . . . .	40.3	66.7	92.4	173.0	185.9	175.8	181.4	201.4	176.5
Net cash flow . . . . .	69.8	133.5	219.1	348.5	371.2	370.4	386.4	413.5	399.4
Undistributed profits <sup>1</sup> . . . . .	17.9	37.1	37.7	94.0	102.6	84.5	83.2	91.4	53.0
Capital consumption allowances <sup>2</sup> . . . . .	52.0	96.4	181.4	254.5	268.6	285.9	303.2	322.1	346.4
Less: Inventory valuation adjustment . . . . .	-6.6	-11.0	-43.1	-5.8	-1.7	6.7	-19.4	-27.0	-21.7
Equals: Net cash flow . . . . .	76.4	144.5	262.2	354.3	372.9	363.7	405.8	440.4	421.1

<sup>1</sup> With inventory valuation and capital consumption adjustments. <sup>2</sup> With capital consumption adjustment. <sup>3</sup> With inventory valuation adjustment.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

**No. 705. National Income, by Sector: 1970 to 1989**

(In billions of dollars)

SECTOR	1970	1975	1980	1984	1985	1986	1987	1988	1989
<b>National income</b> . . . . .	<b>832.6</b>	<b>1,289.1</b>	<b>2,203.5</b>	<b>3,028.6</b>	<b>3,234.0</b>	<b>3,412.6</b>	<b>3,660.3</b>	<b>3,984.9</b>	<b>4,223.3</b>
Domestic business . . . . .	673.4	1,031.8	1,778.4	2,457.9	2,631.9	2,780.8	2,989.6	3,259.0	3,440.6
Corporate business . . . . .	479.8	740.6	1,312.6	1,805.9	1,920.9	2,009.6	2,151.8	2,330.0	2,444.9
Compensation of employees . . . . .	401.0	617.0	1,117.2	1,502.1	1,602.6	1,696.4	1,805.9	1,953.2	2,058.1
Corporate profits . . . . .	67.8	103.2	142.8	236.0	251.2	249.0	270.8	294.3	280.7
Net interest . . . . .	11.0	20.4	52.5	67.8	67.1	64.2	75.1	82.5	126.0
Sole proprietorships and partnerships . . . . .	135.0	205.8	318.0	421.7	459.2	502.9	550.3	617.0	667.1
Compensation of employees . . . . .	49.2	65.8	102.2	131.6	141.8	152.1	168.1	182.7	194.6
Proprietors' income . . . . .	79.8	124.5	179.4	232.6	254.1	280.4	322.0	352.5	380.3
Net interest . . . . .	6.0	15.5	36.5	57.6	63.3	70.4	60.2	81.8	92.2
Other private business . . . . .	45.7	63.9	114.2	184.3	201.9	215.9	231.2	250.9	264.1
Compensation of employees . . . . .	3.2	4.7	7.8	10.9	12.0	13.1	14.2	15.6	16.8
Proprietors' income . . . . .	0.4	0.9	1.3	1.9	1.7	1.6	1.4	1.6	-1.0
Rental income of persons <sup>3</sup> . . . . .	18.2	13.5	6.6	8.5	9.2	11.6	13.7	16.3	8.2
Net interest . . . . .	23.9	44.8	98.5	162.9	179.0	189.6	201.9	217.3	240.2
Government enterprises <sup>4</sup> . . . . .	13.0	21.5	33.5	48.1	49.9	52.4	56.3	61.1	64.5
Households and institutions <sup>5</sup> . . . . .	32.4	52.0	89.3	132.7	142.3	153.5	169.9	187.3	203.6
Government . . . . .	119.5	187.7	288.3	380.6	419.0	443.8	471.9	505.1	541.6
Rest of the world . . . . .	7.3	17.5	47.6	47.4	40.7	34.4	29.0	33.5	37.8

<sup>1</sup> With inventory valuation and capital consumption adjustments. <sup>2</sup> Consist of all business activities reported on the individual income tax return in Schedule E—Supplemental Income Schedule; tax-exempt cooperatives; and owner-occupied nonfarm housing and buildings and equipment owned and used by nonprofit institutions servicing individuals, which are considered to be business activities selling their current services to their owners. <sup>3</sup> With capital consumption adjustment. <sup>4</sup> Compensation of employees. <sup>5</sup> Compensation of employees in private households; nonprofit social and athletic clubs; labor organizations; nonprofit schools and hospitals; religious, charitable, and welfare organizations; and all other nonprofit organizations serving individuals.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

# No. 706. Personal Consumption Expenditures, by Type of Expenditure in Current Dollars: 1980 to 1989

[In billions of dollars. Minus sign (-) indicates decrease]

TYPE OF EXPENDITURE	1980	1984	1985	1986	1987	1988	1989	AVERAGE ANNUAL PERCENT CHANGE	
								1980-1989	1988-1989
<b>Personal consumption expenditures</b>	<b>1,732.6</b>	<b>2,430.5</b>	<b>2,629.0</b>	<b>2,797.4</b>	<b>3,009.4</b>	<b>3,238.2</b>	<b>3,450.1</b>	<b>8.0</b>	<b>6.5</b>
Food and tobacco <sup>1</sup>	369.9	479.0	503.8	533.6	566.4	599.6	636.9	6.2	6.2
Food purchased for off-premise consumption	242.3	305.8	322.7	339.1	353.7	372.2	395.4	5.6	6.2
Purchased meals and beverages <sup>2</sup>	100.2	134.1	139.9	151.6	167.1	179.9	188.8	7.3	4.9
Tobacco products	20.8	30.5	32.2	33.6	35.6	36.9	41.7	8.0	13.0
Clothing, accessories, and jewelry	135.0	181.8	193.3	207.2	222.3	240.0	257.8	7.5	7.4
Shoes	16.9	21.6	22.9	24.3	25.9	27.5	29.8	6.5	8.4
Clothing	91.9	125.0	133.4	142.4	152.5	163.4	174.7	7.4	6.9
Jewelry and watches	15.4	19.9	20.5	22.8	24.7	26.4	27.4	6.6	3.8
Personal care	27.2	36.4	38.8	41.4	44.5	48.3	52.3	7.5	8.3
Housing	261.5	371.3	403.0	434.2	468.9	502.3	533.9	8.3	6.3
Owner-occupied nonfarm dwellings-space rent	178.3	252.3	272.7	293.7	316.9	339.2	361.7	8.2	6.6
Tenant-occupied nonfarm dwellings-rent	61.9	92.2	103.8	114.3	123.6	132.9	141.2	9.6	6.2
Rental value of farm dwellings	11.0	12.2	10.9	9.7	10.3	10.4	10.3	-0.7	-1.0
Household operation	233.1	316.9	334.1	347.5	363.3	386.1	404.9	6.3	4.9
Furniture	20.9	26.5	28.0	30.4	31.8	32.9	33.6	5.4	2.1
Semidurable house furnishings <sup>4</sup>	10.0	13.3	14.0	15.2	16.0	17.3	18.7	7.2	8.1
Cleaning and polishing preparations	20.1	25.1	26.4	27.8	29.1	30.8	32.8	5.6	6.5
Household utilities	63.7	117.5	124.2	122.4	125.8	132.6	139.3	5.8	5.1
Electricity	37.2	55.4	59.3	60.7	63.0	66.4	68.7	7.1	3.5
Gas	19.1	29.4	29.6	26.6	25.5	27.2	29.0	4.7	6.6
Water and other sanitary services	9.3	14.9	16.8	18.5	20.1	21.8	23.9	11.1	9.6
Fuel oil and coal	18.0	17.8	18.5	16.6	17.2	17.2	17.7	-0.2	2.9
Telephone and telegraph	27.8	39.8	40.4	42.7	44.1	47.2	48.7	6.4	3.2
Medical care	167.7	298.4	327.5	357.6	399.0	444.0	483.5	11.1	8.9
Drug preparations and sundries <sup>5</sup>	18.6	26.3	28.1	30.2	32.3	34.3	36.4	7.6	6.1
Physicians	42.0	67.1	73.5	80.6	94.0	106.1	113.0	11.6	6.5
Dentists	13.7	19.8	21.5	22.8	25.0	27.1	29.0	8.7	7.0
Privately controlled hospitals <sup>6</sup>	82.0	130.6	140.2	152.4	166.3	182.9	201.1	10.5	10.0
Health insurance <sup>7</sup>	12.3	19.0	21.6	22.4	25.3	27.7	29.6	10.2	6.9
Medical care <sup>8</sup>	6.9	15.2	17.7	18.5	20.1	22.3	23.5	14.6	5.4
Personal business	96.7	145.8	169.9	192.5	215.4	227.1	243.1	10.8	7.0
Expense of handling life insurance <sup>6</sup>	19.7	30.6	35.8	37.0	38.6	43.9	45.7	9.8	4.1
Legal services	13.8	24.6	28.0	30.9	35.0	39.6	42.9	13.4	8.3
Funeral and burial expenses	4.4	5.6	6.3	6.6	7.0	7.5	7.9	6.7	5.3
Transportation	238.5	329.5	359.5	366.3	379.7	407.5	425.7	6.6	4.5
User-operated transportation <sup>1</sup>	216.8	301.6	330.1	335.9	346.3	371.0	387.6	6.7	4.5
New autos	46.4	77.6	87.4	100.3	93.5	101.1	99.7	8.9	-1.4
Net purchases of used autos	14.9	30.2	35.1	35.8	38.5	40.9	41.6	12.1	1.7
Tires, tubes, accessories, etc.	16.7	23.3	25.2	26.5	28.5	31.0	32.5	7.7	4.8
Repair, greasing, washing, parking, storage, and rental	32.3	42.8	49.1	52.0	55.9	63.2	69.6	8.9	10.1
Gasoline and oil	83.7	90.0	90.6	73.5	75.3	77.3	83.8	0.0	8.4
Purchased local transportation	5.8	6.9	7.2	7.8	8.2	8.7	8.9	4.9	2.3
Transit systems	2.4	3.4	3.6	3.9	4.0	4.2	4.3	6.7	2.4
Taxicab	3.1	3.0	3.1	3.3	3.5	3.8	3.9	2.6	2.6
Railway (commutation)	0.3	0.5	0.5	0.6	0.7	0.7	0.7	9.9	0.0
Purchased intercity transportation <sup>1</sup>	15.9	21.0	22.2	22.6	25.2	27.7	29.2	7.0	5.4
Bus	1.2	1.2	1.2	1.1	1.4	1.6	1.3	0.9	-18.8
Airline	13.4	17.5	18.5	18.8	20.8	22.8	24.2	6.8	6.1
Recreation <sup>1</sup>	115.0	168.3	185.7	201.2	223.2	245.1	264.4	9.7	7.9
Magazines, newspapers, and sheet music	10.4	12.7	13.2	13.9	15.4	17.0	18.5	6.6	8.8
Nondurable toys and sport supplies	14.6	19.7	21.1	23.1	26.2	28.0	30.2	8.4	7.9
Radio and television receivers, records, and musical instruments	19.9	31.5	37.0	38.8	41.6	47.1	51.1	11.0	8.5
Private education and research	27.2	39.1	43.3	46.5	50.9	57.7	64.3	10.0	11.4
Religious and welfare activities	36.8	52.6	57.1	62.9	68.1	75.9	82.9	9.4	9.2

<sup>1</sup> Includes other expenditures not shown separately. <sup>2</sup> Consists of purchases (including tips) of meals and beverages from retail, service and amusement establishments, hotels, dining and buffet cars, schools, school fraternities, institutions, clubs, and industrial lunch rooms. <sup>3</sup> Includes mattresses and bedsprings. <sup>4</sup> Consist largely of textile house furnishings including piece goods allocated to house furnishing use. Also includes lamp shades, brooms, and brushes. <sup>5</sup> Excludes drug preparations and related products dispensed by physicians, hospitals, and other medical services. <sup>6</sup> Consists of (1) current expenditures (including capital consumption allowances with capital consumption adjustment) of nonprofit hospitals, sanitariums, and nursing homes, and (2) payments by patients to proprietary hospitals, sanitariums, and nursing homes. <sup>7</sup> Consist of (1) premiums, less benefits and dividends, for health, hospitalization and accidental death and dismemberment insurance provided by commercial insurance carriers, and (2) administrative expenses (including capital consumption allowances with capital consumption adjustment) of Blue Cross and Blue Shield plans and of other independent prepaid and self-insured health plans. <sup>8</sup> Consist of (1) operating expenses of life insurance carriers and private noninsured pension plans, and (2) premiums, less benefits and dividends, of fraternal benefit societies. Excludes expenses allocated by commercial carriers to accident and health insurance. <sup>9</sup> For additional details, see table 392.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-1982*, and *Survey of Current Business*, July issues.



**No. 707. Personal Consumption Expenditures, by Type of Product in Constant (1982) Dollars: 1980 to 1989**

(In billions of dollars, except percent. Minus sign (-) indicates decrease)

TYPE OF PRODUCT AND SERVICE	1980	1984	1985	1986	1967	1968	1989	AVERAGE ANNUAL PERCENT CHANGE	
								1980-1989	1988-1989
<b>Personal consumption expenditures..</b>	<b>2,000.4</b>	<b>2,249.3</b>	<b>2,354.8</b>	<b>2,446.4</b>	<b>2,515.8</b>	<b>2,606.5</b>	<b>2,656.8</b>	<b>3.2</b>	<b>1.9</b>
Durable goods	245.9	323.1	355.1	384.4	391.4	418.2	428.0	6.4	2.3
Motor vehicles and parts <sup>1</sup>	103.8	148.0	164.4	176.2	171.1	182.1	181.4	6.4	-0.4
New autos	51.2	73.5	80.4	88.4	79.5	84.4	81.5	5.3	-3.4
Net purchases of used autos	21.0	24.8	28.9	30.6	29.9	33.3	33.6	5.4	0.9
Tires, tubes, accessories, etc.	18.1	24.8	26.8	28.2	30.0	31.6	32.4	6.7	2.5
Furniture and household equipment <sup>1</sup>	95.4	118.4	131.0	142.9	151.6	165.0	175.0	7.0	6.1
Furniture, including mattresses and bedsprings	23.2	25.3	26.1	27.7	28.3	28.3	28.8	2.4	1.8
Kitchen and other household appliances	18.4	21.0	23.5	25.4	26.6	28.1	29.1	5.2	3.6
China, glassware, tableware, and utensils	10.6	12.0	12.7	13.6	14.1	15.0	16.0	4.7	6.7
Radio and television receivers <sup>2</sup>	20.4	34.4	42.5	48.0	52.5	61.2	67.5	14.2	10.3
Other	46.7	56.7	59.7	65.3	68.7	71.0	71.6	4.9	0.8
Nondurable goods	762.6	825.9	847.4	878.1	892.7	909.4	919.9	2.1	1.2
Food	394.9	422.8	435.5	447.1	454.0	462.2	462.9	1.8	0.2
Food purchased for off-premise consumption	272.4	292.0	304.5	311.2	310.2	313.9	314.1	1.6	0.1
Purchased meals and beverages	115.1	122.9	123.0	127.8	135.5	139.9	140.3	2.2	0.3
Food furnished employees <sup>3</sup>	7.5	7.9	8.1	8.1	8.2	8.4	8.4	1.3	0.0
Clothing and shoes	114.8	142.2	147.2	157.4	160.7	165.0	172.7	4.6	4.7
Shoes	18.3	21.2	22.2	23.7	24.4	24.8	25.8	3.9	4.0
Womens' and childrens' clothing and accessories	61.5	81.2	84.0	90.9	91.2	93.5	98.2	5.3	5.0
Mens' and boys' clothing and accessories	35.0	39.7	41.0	42.7	45.1	46.7	48.6	3.7	4.1
Gasoline and oil	88.4	94.5	94.4	97.5	95.8	97.4	96.7	1.0	-0.7
Fuel oil and coal	21.6	18.5	19.6	22.0	22.4	22.4	21.9	0.2	-2.2
Other nondurable goods <sup>1</sup>	142.9	147.8	150.7	154.2	159.9	162.5	165.7	1.7	2.0
Tobacco products	24.9	24.0	23.9	23.3	23.1	21.9	21.9	-1.4	0.0
Toilet articles and preparations	19.6	20.0	20.5	21.0	22.0	22.5	22.9	1.7	1.8
Semidurable house furnishings	11.6	12.0	12.3	13.1	13.3	14.3	15.1	3.0	5.6
Cleaning and polishing preparations, etc.	23.4	23.8	24.0	24.9	25.0	25.7	25.7	1.0	0.0
Drug preparations and sundries	23.0	22.6	22.5	22.7	22.7	22.6	22.2	-0.4	-1.8
Nondurable toys and sport supplies	15.9	19.9	21.3	23.2	25.8	26.4	27.7	6.4	4.9
Services	991.9	1,100.3	1,152.3	1,188.9	1,231.6	1,278.9	1,309.0	3.1	2.4
Housing <sup>1</sup>	312.5	333.0	341.7	348.2	358.2	366.0	372.1	2.0	1.7
Owner-occupied nonfarm dwellings-space rent	212.0	226.1	230.8	234.5	241.3	245.6	249.8	1.8	1.7
Tenant-occupied nonfarm dwellings-rent	73.6	81.8	86.3	89.4	92.6	95.7	98.0	3.2	2.4
Rental value of farm dwellings	14.3	12.1	11.7	11.4	11.0	10.7	10.3	-3.6	-3.7
Household operation <sup>1</sup>	142.6	148.8	151.6	151.9	156.8	164.1	167.6	1.8	2.1
Electricity	47.0	50.4	52.2	52.6	54.9	57.1	57.4	2.2	0.5
Gas	26.0	24.9	25.3	23.9	24.0	25.8	26.7	0.3	3.5
Water and other sanitary services	11.7	12.9	13.7	14.3	14.8	15.2	15.7	3.3	3.3
Telephone and telegraph	33.6	34.5	33.7	34.0	35.3	37.9	38.8	1.6	2.4
Domestic service	7.6	9.1	9.2	9.2	9.2	9.3	9.4	2.4	1.1
Transportation	77.4	75.9	82.1	86.2	89.5	94.3	96.9	2.5	2.8
User-operated transportation	48.0	50.0	54.7	56.2	58.2	62.1	64.9	3.4	4.5
Purchased local transportation	7.5	6.4	6.5	6.7	6.7	6.8	6.8	-1.1	0.0
Purchased intercity transportation <sup>1</sup>	21.9	19.5	20.9	23.3	24.7	25.4	25.2	1.6	-0.8
Railway (excluding commutation)	0.5	0.5	0.5	0.5	0.5	0.6	0.6	2.0	0.0
Bus	1.5	1.0	1.0	0.8	1.0	1.2	0.9	-5.5	-25.0
Airline	18.7	16.5	17.8	20.3	21.3	21.7	21.7	1.7	0.0
Medical care	200.6	232.0	240.9	251.5	266.9	279.3	286.1	4.0	2.4
Physicians	50.9	58.2	60.3	61.6	67.0	70.5	69.9	3.6	-0.9
Dentists	16.2	17.2	17.5	17.6	18.1	18.4	18.5	1.5	0.5
Other professional services	16.6	26.0	29.3	32.1	36.2	40.1	42.9	11.1	7.0
Privately controlled hospitals and sanitariums	100.9	115.7	118.2	123.9	128.8	132.8	136.8	3.4	3.0
Health insurance	16.0	14.9	15.6	16.2	16.9	17.5	17.9	1.3	2.3
Other <sup>1</sup>	258.8	310.7	336.0	346.0	360.2	375.3	386.4	4.6	3.0
Personal care <sup>1</sup>	25.0	27.0	27.9	28.9	30.1	33.3	35.7	4.0	7.2
Cleaning, storage, and repair of clothing and shoes	7.7	7.7	7.6	7.6	7.7	8.3	8.6	1.2	3.6
Barbershops, beauty parlors, baths, and health clubs	12.4	13.3	13.8	14.3	15.0	16.1	17.1	3.6	6.2
Personal business <sup>1</sup>	111.2	127.4	138.9	146.0	148.9	152.8	155.7	3.8	1.9
Brokerage charges and investment counseling	9.0	11.3	15.5	20.5	20.7	20.2	21.6	10.2	6.9
Recreation	48.1	61.5	66.1	69.7	75.1	80.1	83.7	6.3	4.5
Private education and research <sup>1</sup>	31.8	35.8	38.3	40.0	42.1	45.4	48.3	4.8	6.4
Higher education	11.7	12.8	13.3	13.6	13.8	14.2	14.5	2.4	2.1
Elementary and secondary schools	10.8	11.6	12.3	12.6	13.0	13.5	14.1	3.0	4.4
Religious and welfare activities	42.0	49.3	52.4	56.0	58.4	62.0	64.8	4.9	4.5

<sup>1</sup> Includes expenditures not shown separately. <sup>2</sup> Includes musical instruments and records. <sup>3</sup> Includes military and food produced and consumed on farms. <sup>4</sup> Except shoes.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-1982*, and *Survey of Current Business*, July issues.

## No. 708. Personal Income and Its Disposition: 1970 to 1989

[In billions of dollars, except percent. For definition of personal income, see text, section 14]

ITEM	1970	1980	1984	1985	1986	1987	1988	1989
<b>Personal income</b>	<b>831.8</b>	<b>2,258.5</b>	<b>3,108.7</b>	<b>3,325.3</b>	<b>3,526.2</b>	<b>3,766.4</b>	<b>4,070.8</b>	<b>4,384.3</b>
Wage and salary disbursements	551.5	1,372.0	1,838.6	1,975.4	2,094.8	2,249.7	2,431.1	2,573.2
Commodity-producing industries	203.7	470.7	577.6	608.9	625.6	649.9	696.4	720.6
Manufacturing	158.4	355.8	439.1	460.9	473.2	490.3	524.0	541.8
Distributive industries <sup>2</sup>	131.2	335.5	442.8	473.2	498.8	531.8	572.0	604.7
Service industries <sup>3</sup>	99.4	305.8	472.1	521.3	576.7	648.5	716.2	771.4
Government and gov't enterprises	117.1	260.2	346.1	372.0	393.7	419.4	446.6	476.6
Other labor income	32.5	138.4	182.9	187.6	199.3	209.4	225.5	241.9
Proprietors' income <sup>4</sup>	80.2	180.7	234.5	255.9	282.0	323.4	354.2	379.3
Rental income of persons <sup>5</sup>	18.2	6.6	8.5	9.2	11.6	13.7	16.3	8.2
Personal dividend income	22.2	52.9	75.5	78.7	85.8	91.8	102.2	114.4
Personal interest income	69.3	271.9	444.7	478.0	493.2	501.3	547.9	643.2
Transfer payments	85.9	324.7	456.6	489.8	521.5	549.9	587.7	636.9
Old-age, survivors, disability, and health insurance benefits	38.5	154.2	235.7	253.4	269.2	282.9	300.5	325.3
Gov't unemployment insurance benefits	4.0	16.1	15.8	15.7	16.3	14.5	13.4	14.7
Veterans benefits	7.7	15.0	16.4	16.7	16.7	16.6	16.9	17.3
Gov't employees retirement benefits	10.2	43.0	61.4	66.8	70.9	76.2	84.0	90.1
Other transfer payments	25.6	96.4	127.3	137.3	148.3	159.7	172.9	189.5
Less: Personal contributions for social insurance	27.9	88.6	132.7	149.3	161.9	172.9	194.1	212.8
Less: Personal tax and nontax payments	116.2	340.5	440.2	486.6	512.9	571.6	591.6	658.8
<b>Equals: Disposable personal income</b>	<b>715.6</b>	<b>1,918.0</b>	<b>2,668.6</b>	<b>2,836.7</b>	<b>3,013.3</b>	<b>3,194.7</b>	<b>3,479.2</b>	<b>3,725.5</b>
Less: Personal outlays	657.9	1,781.1	2,504.5	2,713.3	2,888.5	3,102.2	3,333.6	3,553.7
Personal consumption expenditures	640.0	1,732.6	2,430.5	2,629.0	2,797.4	3,009.4	3,238.2	3,450.1
Interest paid by consumers to business	16.7	47.4	72.5	82.6	89.1	90.7	93.6	102.2
Personal transfer payments to foreigners (net)	1.2	1.1	1.5	1.7	1.9	2.2	1.9	1.4
<b>Equals: Personal saving</b>	<b>57.7</b>	<b>136.9</b>	<b>164.1</b>	<b>125.4</b>	<b>124.9</b>	<b>92.5</b>	<b>145.6</b>	<b>171.8</b>
Percent of disposable personal income	8.1	7.1	6.1	4.4	4.1	2.9	4.2	4.6
Real disposable personal income <sup>6</sup>	1,668.1	2,214.3	2,469.8	2,542.8	2,635.3	2,670.7	2,800.5	2,869.0
Average annual percent change	4.1	2.9	2.8	3.0	3.6	1.3	4.9	2.4
<b>PERCENT DISTRIBUTION</b>								
<b>Personal income</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Wage and salary disbursements	66.3	60.7	59.1	59.4	59.4	59.7	59.7	58.7
Other labor income	3.9	6.1	5.9	5.6	5.7	5.6	5.5	5.5
Proprietors' income <sup>4</sup>	9.6	8.0	7.5	7.7	8.0	8.6	8.7	8.7
Rental income of persons <sup>5</sup>	2.2	0.3	0.3	0.3	0.3	0.4	0.4	0.2
Personal dividend income	2.7	2.3	2.4	2.4	2.4	2.4	2.5	2.6
Personal interest income	8.3	12.0	14.3	14.4	14.0	13.3	13.5	14.7
Transfer payments	10.3	14.4	14.7	14.7	14.8	14.8	14.4	14.5
Less: Personal contributions for social insurance	-3.4	-3.9	-4.3	-4.5	-4.6	-4.6	-4.8	-4.9

<sup>1</sup> Comprises agriculture, forestry, fisheries, mining, construction, and manufacturing. <sup>2</sup> Comprises transportation; communication; electric, gas and sanitary services; and trade. <sup>3</sup> Comprises finance, insurance, and real estate; services; and rest of world. <sup>4</sup> With capital consumption and inventory valuation adjustments. <sup>5</sup> With capital consumption adjustment. <sup>6</sup> 1982 dollars. Represents average for period of intervals shown here; for 1970, change from 1965. For explanation of average annual percent change, see Guide to Tabular Presentation.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

## No. 709. Gross Saving and Investment: 1970 to 1989

[In billions of dollars]

ITEM	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>Gross saving</b>	<b>154.7</b>	<b>445.0</b>	<b>448.4</b>	<b>483.8</b>	<b>568.5</b>	<b>533.5</b>	<b>525.3</b>	<b>555.5</b>	<b>656.1</b>	<b>691.5</b>
Gross private saving	164.5	478.4	557.1	592.2	673.5	665.3	669.5	662.6	751.3	779.3
Personal saving	57.7	136.9	153.9	130.6	164.1	125.4	124.9	92.5	145.6	171.8
Undistributed corporate profits <sup>1</sup>	17.9	37.7	20.0	65.0	94.0	102.6	84.5	83.2	91.4	53.0
Undistributed profits	19.2	97.6	39.6	58.9	67.0	44.6	24.0	50.2	70.5	49.1
Inventory valuation adjustment	-6.8	-43.1	-10.4	-10.9	-5.8	-1.7	6.7	-19.4	-27.0	-21.7
Capital consumption adjustment	5.2	-16.8	-9.2	17.0	32.7	59.7	53.8	52.4	47.8	25.5
Corporate CCA <sup>2</sup>	52.0	181.4	235.0	242.7	254.5	268.6	285.9	303.2	322.1	348.4
Noncorporate CCA <sup>2</sup>	36.9	122.4	148.2	153.9	160.9	168.7	174.2	183.8	192.2	208.0
Government surplus or deficit (-) <sup>3</sup>	-10.6	-34.5	-110.8	-128.6	-105.0	-131.8	-144.1	-107.1	-95.3	-87.8
Federal	-12.4	-61.3	-145.9	-176.0	-169.6	-196.9	-206.9	-158.2	-141.7	-134.3
State and local	1.8	26.8	35.1	47.5	64.6	65.1	62.8	51.0	46.5	46.4
Capital grants received by the U.S. (net)	0.9	1.2	-	-	-	-	-	-	-	-
<b>Gross investment</b>	<b>153.6</b>	<b>450.0</b>	<b>446.3</b>	<b>468.8</b>	<b>573.9</b>	<b>526.7</b>	<b>523.6</b>	<b>544.9</b>	<b>627.8</b>	<b>674.4</b>
Gross private domestic investment	148.8	437.0	447.3	502.3	664.8	643.1	659.4	699.5	747.1	771.2
Net foreign investment	4.8	13.0	-1.0	-33.5	-90.9	-114.4	-135.8	-154.6	-119.2	-96.8
<b>Statistical discrepancy</b>	<b>-1.1</b>	<b>4.9</b>	<b>-0.1</b>	<b>5.2</b>	<b>5.4</b>	<b>-4.8</b>	<b>-1.8</b>	<b>-10.6</b>	<b>-28.2</b>	<b>-17.0</b>

- Represents or rounds to zero. <sup>1</sup> With inventory valuation and capital consumption adjustments. <sup>2</sup> Capital consumption allowances with capital consumption adjustment. <sup>3</sup> National income and product accounts basis.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

## No. 710. Gross State Product: 1970 to 1986

(In millions of dollars, except percent. For definition of gross state product, see text, section 14. For explanation of average annual percent change, see Guide to Tabular Presentation. Minus sign (-) indicates decrease.)

DIVISION AND STATE	1970	1980	1984	1985	1986	AVERAGE ANNUAL PERCENT CHANGE		
						1970-1980	1980-1986	1985-1986
<b>United States</b> . . . . .	<b>1,001,793</b>	<b>2,670,299</b>	<b>3,707,011</b>	<b>3,963,347</b>	<b>4,191,705</b>	<b>10.3</b>	<b>7.8</b>	<b>5.8</b>
<b>New England</b> . . . . .	<b>58,665</b>	<b>138,413</b>	<b>206,107</b>	<b>225,201</b>	<b>245,850</b>	<b>9.0</b>	<b>10.0</b>	<b>9.2</b>
Maine . . . . .	3,887	10,200	14,782	15,898	17,326	10.1	9.2	9.0
New Hampshire . . . . .	3,066	9,326	14,846	16,585	18,518	11.8	12.1	11.7
Vermont . . . . .	1,916	4,894	7,215	7,915	8,636	9.8	9.9	9.1
Massachusetts . . . . .	28,520	65,057	96,980	106,148	115,526	8.6	10.0	8.8
Rhode Island . . . . .	4,302	9,184	12,921	13,961	15,205	7.9	8.8	8.9
Connecticut . . . . .	16,972	39,752	59,363	64,696	70,639	8.9	10.1	9.2
<b>Middle Atlantic</b> . . . . .	<b>201,780</b>	<b>428,206</b>	<b>606,886</b>	<b>651,363</b>	<b>701,060</b>	<b>7.8</b>	<b>8.6</b>	<b>7.6</b>
New York . . . . .	106,902	214,143	311,727	336,071	362,736	7.2	9.2	7.9
New Jersey . . . . .	38,457	88,516	131,776	142,302	154,765	8.7	9.8	8.8
Pennsylvania . . . . .	56,421	125,547	163,383	172,990	183,559	8.3	6.5	6.1
<b>East North Central</b> . . . . .	<b>208,691</b>	<b>480,518</b>	<b>624,118</b>	<b>662,480</b>	<b>700,852</b>	<b>8.7</b>	<b>6.5</b>	<b>5.8</b>
Ohio . . . . .	53,171	121,642	158,543	167,645	176,102	8.6	6.4	5.0
Indiana . . . . .	25,068	59,050	76,086	80,262	84,922	8.9	6.2	5.8
Illinois . . . . .	63,495	143,110	187,484	198,138	209,666	8.5	6.6	5.8
Michigan . . . . .	46,677	103,841	132,369	143,719	153,240	8.3	6.7	6.6
Wisconsin . . . . .	20,280	52,876	69,636	72,716	76,922	10.1	6.4	5.8
<b>West North Central</b> . . . . .	<b>75,032</b>	<b>197,637</b>	<b>265,745</b>	<b>278,528</b>	<b>292,523</b>	<b>10.2</b>	<b>6.8</b>	<b>5.0</b>
Minnesota . . . . .	18,252	48,846	67,250	71,183	75,626	10.3	7.5	6.2
Iowa . . . . .	12,917	34,442	41,407	42,100	43,836	10.3	4.1	4.1
Missouri . . . . .	22,059	53,142	74,493	79,220	83,534	9.2	7.8	5.4
North Dakota . . . . .	2,371	8,146	10,608	10,725	10,733	13.1	4.7	0.1
South Dakota . . . . .	2,522	6,822	9,023	9,297	9,802	10.6	6.0	5.4
Nebraska . . . . .	6,893	18,073	24,268	25,639	26,521	10.1	6.6	3.4
Kansas . . . . .	10,018	28,066	38,495	40,364	42,472	10.9	7.1	5.2
<b>South Atlantic</b> . . . . .	<b>137,397</b>	<b>388,303</b>	<b>573,331</b>	<b>621,755</b>	<b>671,591</b>	<b>10.9</b>	<b>9.6</b>	<b>8.0</b>
Delaware . . . . .	3,075	7,047	10,186	10,866	11,706	8.6	8.8	6.7
Maryland . . . . .	18,250	44,912	64,465	70,580	76,504	9.4	9.3	8.4
District of Columbia . . . . .	8,115	19,029	25,100	27,185	28,791	8.9	7.1	5.9
Virginia . . . . .	20,449	58,634	87,589	95,369	104,155	11.1	10.0	9.2
West Virginia . . . . .	7,090	19,197	22,885	23,541	24,096	10.5	3.9	2.4
North Carolina . . . . .	22,138	58,876	87,748	93,821	100,961	10.3	9.4	7.6
South Carolina . . . . .	9,566	27,275	39,581	41,832	44,727	11.0	8.6	6.9
Georgia . . . . .	19,173	55,503	86,213	94,121	102,922	11.2	10.8	9.4
Florida . . . . .	29,541	97,830	149,554	164,340	177,729	12.7	10.5	8.1
<b>East South Central</b> . . . . .	<b>48,595</b>	<b>138,285</b>	<b>191,066</b>	<b>201,532</b>	<b>212,300</b>	<b>11.0</b>	<b>7.4</b>	<b>5.3</b>
Kentucky . . . . .	13,883	36,828	49,512	51,234	53,135	10.2	6.3	3.7
Tennessee . . . . .	15,541	45,018	63,207	67,560	72,328	11.2	8.2	7.1
Alabama . . . . .	12,215	34,969	48,710	51,919	55,007	11.1	7.8	5.9
Mississippi . . . . .	6,956	21,470	29,637	30,819	31,830	11.9	6.8	3.3
<b>West South Central</b> . . . . .	<b>88,493</b>	<b>325,075</b>	<b>447,066</b>	<b>468,102</b>	<b>459,383</b>	<b>13.9</b>	<b>5.9</b>	<b>-1.9</b>
Arkansas . . . . .	6,485	20,123	28,716	29,926	31,633	12.0	7.8	5.7
Louisiana . . . . .	16,794	62,166	79,034	79,719	74,426	14.0	3.0	-6.6
Oklahoma . . . . .	10,857	37,739	50,077	50,842	49,814	13.3	4.7	-2.0
Texas . . . . .	54,357	205,047	289,239	307,615	303,510	14.2	6.8	-1.3
<b>Mountain</b> . . . . .	<b>38,321</b>	<b>141,179</b>	<b>194,062</b>	<b>207,626</b>	<b>216,473</b>	<b>13.9</b>	<b>7.4</b>	<b>4.3</b>
Montana . . . . .	3,055	9,525	11,726	11,543	12,163	12.0	4.2	5.4
Idaho . . . . .	3,071	9,670	12,289	13,027	13,170	12.2	5.3	1.1
Wyoming . . . . .	2,003	10,900	12,468	12,777	11,673	18.5	1.1	-8.6
Colorado . . . . .	10,504	37,620	53,373	56,713	59,177	13.6	7.8	4.3
New Mexico . . . . .	4,163	16,442	22,665	23,887	23,603	14.7	6.2	-1.2
Arizona . . . . .	8,104	29,931	43,442	48,589	53,253	14.0	10.1	9.6
Utah . . . . .	4,366	15,121	21,739	23,172	24,008	13.2	8.0	3.6
Nevada . . . . .	3,055	11,970	16,350	17,918	19,426	14.6	8.4	8.4
<b>Pacific</b> . . . . .	<b>144,817</b>	<b>432,680</b>	<b>598,629</b>	<b>646,759</b>	<b>691,672</b>	<b>11.6</b>	<b>8.1</b>	<b>6.9</b>
Washington . . . . .	16,705	51,354	67,347	71,756	77,683	11.9	7.1	8.3
Oregon . . . . .	9,726	30,219	36,882	38,922	41,278	12.0	5.3	6.1
California . . . . .	111,631	325,171	456,874	496,850	533,816	11.3	8.6	7.4
Alaska . . . . .	2,189	12,860	20,802	21,237	19,575	19.4	7.3	-7.8
Hawaii . . . . .	4,566	13,076	16,724	17,994	19,320	11.1	6.7	7.4

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, May 1988.

**No. 711. Disposable Personal Income Per Capita in Current and Constant (1982) Dollars—States: 1980 to 1989**

REGION, DIVISION, AND STATE	CURRENT DOLLARS						CONSTANT (1982) DOLLARS			
	1980	1985	1986	1989	Income rank		1980	1985	1986	1989
					1980	1989				
<b>United States</b> .....	<b>8,424</b>	<b>11,863</b>	<b>14,111</b>	<b>14,948</b>	(X)	(X)	<b>9,705</b>	<b>10,630</b>	<b>11,362</b>	<b>11,507</b>
<b>Northeast</b> .....	<b>8,965</b>	<b>13,123</b>	<b>16,366</b>	<b>17,374</b>	(X)	(X)	<b>10,328</b>	<b>11,759</b>	<b>13,177</b>	<b>13,375</b>
<b>New England</b> .....	<b>8,938</b>	<b>13,515</b>	<b>17,233</b>	<b>18,185</b>	(X)	(X)	<b>10,295</b>	<b>12,110</b>	<b>13,875</b>	<b>13,999</b>
Maine .....	7,218	10,409	13,068	14,110	39	21	8,316	9,327	10,522	10,862
New Hampshire .....	8,523	13,466	17,201	17,829	15	5	9,819	12,066	13,849	13,725
Vermont .....	7,410	10,562	13,126	13,945	35	25	8,537	9,464	10,568	10,735
Massachusetts .....	8,926	13,677	17,690	18,636	13	4	10,283	12,255	14,243	14,346
Rhode Island .....	8,130	12,065	14,352	15,189	26	14	9,368	10,811	11,556	11,693
Connecticut .....	10,198	15,309	19,559	20,687	2	1	11,749	13,718	15,748	15,925
<b>Middle Atlantic</b> .....	<b>8,974</b>	<b>12,990</b>	<b>16,067</b>	<b>17,093</b>	(X)	(X)	<b>10,339</b>	<b>11,640</b>	<b>12,936</b>	<b>13,169</b>
New York .....	8,966	13,003	16,269	17,293	10	7	10,329	11,651	13,099	13,313
New Jersey .....	9,822	15,012	18,998	20,180	4	2	11,316	13,452	15,296	15,535
Pennsylvania .....	8,460	11,681	13,881	14,811	16	18	9,747	10,467	11,176	11,402
<b>Midwest</b> .....	<b>8,407</b>	<b>11,639</b>	<b>13,583</b>	<b>14,419</b>	(X)	(X)	<b>9,686</b>	<b>10,429</b>	<b>10,936</b>	<b>11,100</b>
<b>East North Central</b> .....	<b>8,544</b>	<b>11,740</b>	<b>13,825</b>	<b>14,652</b>	(X)	(X)	<b>9,843</b>	<b>10,520</b>	<b>11,131</b>	<b>11,279</b>
Ohio .....	8,275	11,304	13,261	13,994	24	24	9,533	10,129	10,677	10,773
Indiana .....	7,874	10,664	12,638	13,451	31	30	9,071	9,556	10,176	10,355
Illinois .....	9,151	12,683	15,103	16,060	8	10	10,543	11,365	12,160	12,363
Michigan .....	8,622	11,876	13,958	14,757	14	20	9,933	10,642	11,238	11,380
Wisconsin .....	8,315	11,425	13,129	13,933	20	26	9,579	10,237	10,571	10,726
<b>West North Central</b> .....	<b>8,076</b>	<b>11,398</b>	<b>13,008</b>	<b>13,866</b>	(X)	(X)	<b>9,304</b>	<b>10,213</b>	<b>10,473</b>	<b>10,674</b>
Minnesota .....	8,410	11,890	13,785	14,771	17	19	9,689	10,654	11,099	11,371
Iowa .....	8,012	10,909	12,213	13,183	27	33	9,230	9,775	9,933	10,149
Missouri .....	7,954	11,450	13,240	14,008	28	23	9,164	10,260	10,660	10,784
North Dakota .....	7,339	10,606	10,844	11,937	37	40	8,455	9,504	8,731	9,189
South Dakota .....	7,322	10,028	11,369	12,335	38	38	8,435	8,986	9,154	9,496
Nebraska .....	7,873	11,349	12,567	13,268	32	32	9,070	10,169	10,118	10,214
Kansas .....	8,388	11,676	13,425	14,103	18	22	9,664	10,462	10,809	10,857
<b>South</b> .....	<b>7,614</b>	<b>10,767</b>	<b>12,733</b>	<b>13,489</b>	(X)	(X)	<b>8,772</b>	<b>9,648</b>	<b>10,252</b>	<b>10,384</b>
<b>South Atlantic</b> .....	<b>7,782</b>	<b>11,284</b>	<b>13,687</b>	<b>14,492</b>	(X)	(X)	<b>8,965</b>	<b>10,111</b>	<b>11,020</b>	<b>11,158</b>
Delaware .....	8,259	11,987	14,137	14,949	25	17	9,515	10,741	11,382	11,508
Maryland .....	8,942	13,413	16,491	17,489	12	6	10,302	12,019	13,278	13,463
District of Columbia .....	10,290	14,651	18,397	19,337	(X)	(X)	11,855	13,128	14,812	14,886
Virginia .....	8,296	12,280	15,010	15,936	23	11	9,558	11,004	12,085	12,288
West Virginia .....	6,773	8,802	10,279	10,901	46	49	7,803	7,887	8,276	8,392
North Carolina .....	6,819	9,889	12,212	12,979	45	34	7,856	8,861	9,833	9,992
South Carolina .....	6,505	9,214	11,098	11,665	48	42	7,494	8,256	8,936	8,990
Georgia .....	7,088	10,544	12,925	13,464	41	29	8,166	9,448	10,407	10,365
Florida .....	8,384	11,924	14,144	15,049	19	16	9,659	10,685	11,388	11,585
<b>East South Central</b> .....	<b>6,682</b>	<b>9,175</b>	<b>11,165</b>	<b>11,822</b>	(X)	(X)	<b>7,710</b>	<b>8,221</b>	<b>8,990</b>	<b>9,101</b>
Kentucky .....	6,952	9,276	11,088	11,873	43	41	8,009	8,312	8,928	9,140
Tennessee .....	6,991	9,797	12,228	12,854	42	35	8,054	8,779	9,845	9,895
Alabama .....	6,574	9,099	10,993	11,634	47	43	7,574	8,153	8,851	8,956
Mississippi .....	5,953	8,011	9,560	10,102	50	50	6,858	7,178	7,697	7,777
<b>West South Central</b> .....	<b>7,920</b>	<b>10,892</b>	<b>12,123</b>	<b>12,839</b>	(X)	(X)	<b>9,124</b>	<b>9,760</b>	<b>9,761</b>	<b>9,884</b>
Arkansas .....	6,479	9,168	10,630	11,243	49	48	7,464	8,215	8,559	8,655
Louisiana .....	7,406	9,835	10,793	11,348	36	46	8,532	8,813	8,690	8,736
Oklahoma .....	7,939	9,864	10,956	11,591	30	44	9,146	8,839	8,821	8,923
Texas .....	8,298	11,639	12,908	13,687	22	27	9,560	10,429	10,393	10,537
<b>West</b> .....	<b>9,245</b>	<b>12,702</b>	<b>14,787</b>	<b>15,594</b>	(X)	(X)	<b>10,851</b>	<b>11,382</b>	<b>11,908</b>	<b>12,005</b>
<b>Mountain</b> .....	<b>8,096</b>	<b>10,962</b>	<b>12,623</b>	<b>13,418</b>	(X)	(X)	<b>9,327</b>	<b>9,823</b>	<b>10,163</b>	<b>10,329</b>
Montana .....	7,692	9,673	11,371	12,390	33	37	8,862	8,668	9,155	9,538
Idaho .....	7,451	9,503	11,177	12,041	34	39	8,584	8,515	8,999	9,268
Wyoming .....	9,420	10,713	11,803	12,399	6	36	10,853	9,599	9,503	9,545
Colorado .....	8,944	12,551	14,187	15,050	11	15	10,304	11,246	11,423	11,586
New Mexico .....	7,138	9,690	10,672	11,302	40	47	8,224	8,683	8,593	8,701
Arizona .....	7,943	11,264	13,008	13,625	29	28	9,151	10,093	10,473	10,489
Utah .....	6,874	9,156	10,650	11,425	44	45	7,919	8,204	8,575	8,795
Nevada .....	9,714	12,430	15,121	16,295	5	9	11,191	11,138	12,175	12,544
<b>Pacific</b> .....	<b>9,656</b>	<b>13,337</b>	<b>15,559</b>	<b>16,362</b>	(X)	(X)	<b>11,124</b>	<b>11,951</b>	<b>12,527</b>	<b>12,596</b>
Washington .....	9,213	12,474	14,347	15,438	7	13	10,614	11,177	11,552	11,885
Oregon .....	8,304	10,793	12,667	13,422	21	31	9,567	9,671	10,215	10,333
California .....	9,875	13,734	16,059	16,779	3	8	11,377	12,306	12,930	12,917
Alaska .....	11,572	16,307	17,089	19,100	1	3	13,332	14,612	13,759	14,704
Hawaii .....	9,065	12,011	14,294	15,584	9	12	10,444	10,763	11,509	11,997

X Not applicable.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, August issues, and unpublished data.

## No. 712. Personal Income in Current and Constant (1982) Dollars—States: 1980 to 1989

[In billions of dollars, except percent. Represents a measure of income received from all sources during the calendar year by the residents of each State. Data exclude Federal employees overseas and, for 1980, U.S. residents employed by private U.S. firms on temporary foreign assignment. Totals may differ from those in tables 702, 703, and 708. See text, section 14. Minus sign (-) indicates decrease]

REGION, DIVISION, AND STATE	CURRENT DOLLARS				CONSTANT (1982) DOLLARS							
	1980	1985	1988	1989	Total				Average annual percent change <sup>1</sup>		Percent of United States	
					1980	1985	1988	1989	1980- 1989	1988- 1989	1980	1989
<b>United States . . . . .</b>	<b>2,254.1</b>	<b>3,317.5</b>	<b>4,058.7</b>	<b>4,388.1</b>	<b>2,596.9</b>	<b>2,972.7</b>	<b>3,267.8</b>	<b>3,362.7</b>	<b>2.9</b>	<b>2.9</b>	<b>100.0</b>	<b>100.0</b>
<b>Northeast . . . . .</b>	<b>521.5</b>	<b>776.4</b>	<b>980.1</b>	<b>1,050.7</b>	<b>600.8</b>	<b>695.7</b>	<b>789.1</b>	<b>808.8</b>	<b>3.4</b>	<b>2.5</b>	<b>23.1</b>	<b>24.1</b>
New England . . . . .	130.4	202.0	262.5	280.8	150.2	181.0	211.4	216.0	4.1	2.2	5.8	6.4
Maine . . . . .	9.3	13.9	18.1	19.9	10.7	12.4	14.6	15.3	4.1	4.7	0.4	0.5
New Hampshire . . . . .	9.0	15.3	21.1	22.4	10.4	13.7	17.0	17.3	5.8	1.8	0.4	0.5
Vermont . . . . .	4.4	6.6	8.5	9.3	5.1	5.9	6.9	7.1	3.9	4.2	0.2	0.2
Massachusetts . . . . .	60.9	95.0	123.1	131.1	70.2	85.1	99.1	100.9	4.1	1.8	2.7	3.0
Rhode Island . . . . .	9.0	13.3	16.8	17.9	10.4	11.9	13.5	13.8	3.2	2.2	0.4	0.4
Connecticut . . . . .	37.7	57.9	75.0	79.9	43.4	51.9	60.4	61.5	3.9	2.0	1.7	1.8
Middle Atlantic . . . . .	391.1	574.4	717.6	770.1	450.6	514.7	577.8	592.9	3.1	2.6	17.4	17.6
New York . . . . .	188.3	280.3	352.1	378.3	217.0	251.1	283.5	291.2	3.3	2.7	8.4	8.7
New Jersey . . . . .	85.4	133.3	171.8	183.9	98.3	119.5	138.4	141.6	4.1	2.3	3.8	4.2
Pennsylvania . . . . .	117.4	160.8	193.6	207.9	135.3	144.1	155.9	160.1	1.9	2.7	5.2	4.8
<b>Midwest . . . . .</b>	<b>584.4</b>	<b>803.3</b>	<b>949.2</b>	<b>1,018.1</b>	<b>673.3</b>	<b>719.8</b>	<b>764.3</b>	<b>783.7</b>	<b>1.7</b>	<b>2.5</b>	<b>25.9</b>	<b>23.3</b>
East North Central . . . . .	420.3	570.4	679.2	728.1	484.2	511.1	546.9	560.5	1.6	2.5	18.6	16.7
Ohio . . . . .	105.0	142.0	167.6	178.6	121.0	127.2	134.9	137.5	1.4	1.9	4.7	4.1
Indiana . . . . .	50.8	68.3	81.8	88.3	58.5	61.2	65.9	67.9	1.7	3.1	2.3	2.0
Illinois . . . . .	124.0	170.0	204.0	219.4	142.8	152.3	164.3	168.9	1.9	2.8	5.5	5.0
Michigan . . . . .	94.1	127.2	151.4	161.8	108.4	114.0	121.9	124.5	1.6	2.1	4.2	3.7
Wisconsin . . . . .	46.4	62.9	74.3	80.1	53.5	58.4	59.8	61.6	1.6	3.0	2.1	1.8
West North Central . . . . .	164.1	232.8	270.0	290.0	189.1	208.6	217.4	223.2	1.9	2.7	7.3	6.8
Minnesota . . . . .	41.1	59.3	71.0	76.9	47.4	53.1	57.1	59.2	2.5	3.6	1.8	1.8
Iowa . . . . .	27.8	36.2	40.5	44.0	32.0	32.5	32.6	33.9	0.6	3.8	1.2	1.0
Missouri . . . . .	45.8	66.7	78.8	84.1	52.7	59.8	63.5	64.7	2.3	2.0	2.0	1.9
North Dakota . . . . .	5.6	8.2	8.2	9.0	6.4	7.3	6.6	6.9	0.8	4.0	0.2	0.2
South Dakota . . . . .	5.7	7.8	9.0	9.8	6.5	7.0	7.2	7.5	1.6	4.0	0.3	0.2
Nebraska . . . . .	14.6	20.8	23.4	24.9	16.8	18.8	18.8	19.2	1.5	1.9	0.6	0.6
Kansas . . . . .	23.6	33.8	39.2	41.5	27.1	30.3	31.5	31.9	1.8	1.2	1.0	0.9
<b>South . . . . .</b>	<b>677.4</b>	<b>1,032.4</b>	<b>1,253.5</b>	<b>1,349.0</b>	<b>780.4</b>	<b>925.1</b>	<b>1,009.2</b>	<b>1,038.5</b>	<b>3.2</b>	<b>2.9</b>	<b>30.1</b>	<b>30.9</b>
South Atlantic . . . . .	340.6	535.0	681.8	738.3	392.4	479.4	549.0	568.3	4.2	3.5	15.1	16.9
Delaware . . . . .	6.1	9.1	11.5	12.4	7.0	8.2	9.2	9.6	3.5	3.8	0.3	0.3
Maryland . . . . .	45.6	70.2	90.8	98.6	52.5	62.9	73.1	75.9	4.2	3.8	2.0	2.3
District of Columbia . . . . .	7.9	11.1	13.5	14.2	9.1	10.0	10.9	10.9	2.1	0.3	0.3	0.3
Virginia . . . . .	52.8	82.5	106.5	115.4	60.8	73.9	85.8	88.8	4.3	3.6	2.3	2.6
West Virginia . . . . .	15.5	19.5	21.7	22.9	17.8	17.5	17.5	17.6	-0.1	0.9	0.7	0.5
North Carolina . . . . .	47.2	73.0	92.4	99.9	54.4	65.4	74.4	76.9	3.9	3.3	2.1	2.3
South Carolina . . . . .	23.8	35.8	44.7	47.9	27.4	32.1	36.0	36.9	3.3	2.4	1.1	1.1
Georgia . . . . .	45.8	75.4	96.9	103.3	52.8	67.6	78.0	79.5	4.7	2.0	2.0	2.4
Florida . . . . .	96.1	158.4	203.8	223.6	110.7	141.9	164.1	172.1	5.0	4.9	4.3	5.1
East South Central . . . . .	113.9	160.9	197.3	210.8	131.2	144.2	158.8	162.2	2.4	2.1	5.1	4.8
Kentucky . . . . .	29.4	40.1	47.7	51.2	33.9	35.9	38.4	39.4	1.7	2.7	1.3	1.2
Tennessee . . . . .	37.0	53.6	68.1	72.8	42.6	48.1	54.8	55.9	3.1	2.0	1.6	1.7
Alabama . . . . .	30.1	43.0	52.6	56.1	34.6	38.6	42.3	43.2	2.5	2.0	1.3	1.3
Mississippi . . . . .	17.5	24.2	29.0	30.7	20.2	21.7	23.3	23.7	1.8	1.4	0.8	0.7
West South Central . . . . .	222.9	336.5	374.4	400.1	256.8	301.5	301.4	308.0	2.0	2.2	9.9	9.2
Arkansas . . . . .	17.1	24.8	29.1	31.0	19.7	22.3	23.4	23.9	2.2	2.0	0.8	0.7
Louisiana . . . . .	36.7	50.7	53.9	56.6	42.3	45.4	43.4	43.6	0.3	0.4	1.6	1.3
Oklahoma . . . . .	28.6	40.2	43.0	45.6	32.9	36.1	34.6	35.1	0.7	1.4	1.3	1.0
Texas . . . . .	140.5	220.7	248.3	266.8	161.9	197.8	200.0	205.4	2.7	2.7	6.2	6.1
<b>West . . . . .</b>	<b>470.8</b>	<b>705.5</b>	<b>875.8</b>	<b>950.4</b>	<b>542.3</b>	<b>632.2</b>	<b>705.2</b>	<b>731.6</b>	<b>3.4</b>	<b>3.8</b>	<b>20.9</b>	<b>21.8</b>
Mountain . . . . .	108.1	162.5	194.4	210.4	124.5	145.6	156.5	161.9	3.0	3.4	4.8	4.8
Montana . . . . .	7.0	9.1	10.4	11.3	8.1	8.1	8.3	8.7	0.8	4.7	0.3	0.3
Idaho . . . . .	8.1	10.9	12.7	13.9	9.4	9.7	10.2	10.7	1.5	4.7	0.4	0.3
Wyoming . . . . .	5.4	6.5	6.6	6.9	6.2	5.9	5.3	5.3	-1.7	0.0	0.2	0.2
Colorado . . . . .	30.8	47.5	54.4	58.2	35.5	42.6	43.8	44.8	2.6	2.4	1.4	1.3
New Mexico . . . . .	10.7	16.2	18.7	20.1	12.3	14.6	15.1	15.5	2.5	2.5	0.5	0.5
Arizona . . . . .	25.1	41.0	52.2	56.2	28.9	36.7	42.1	43.3	4.6	2.9	1.1	1.3
Utah . . . . .	11.7	17.5	20.7	22.3	13.5	15.7	16.6	17.2	2.7	3.3	0.5	0.5
Nevada . . . . .	9.3	13.8	18.8	21.4	10.7	12.4	15.2	16.5	5.0	8.7	0.4	0.5
Pacific . . . . .	362.6	543.0	681.4	740.0	417.8	486.5	548.6	569.7	3.5	3.8	16.1	16.9
Washington . . . . .	44.6	62.0	76.1	84.0	51.3	55.6	61.3	64.7	2.6	5.5	2.0	1.9
Oregon . . . . .	26.1	34.0	41.0	44.9	30.0	30.4	33.0	34.6	1.6	4.7	1.2	1.0
California . . . . .	276.1	422.6	535.7	579.2	318.1	378.7	431.3	445.9	3.8	3.4	12.2	13.3
Alaska . . . . .	5.6	9.8	10.1	11.4	6.5	8.8	8.1	8.8	3.5	8.1	0.2	0.3
Hawaii . . . . .	10.3	14.6	18.5	20.5	11.8	13.1	14.9	15.8	3.3	6.4	0.5	0.5

<sup>1</sup> For definition of average annual percent change, see Guide to Tabular Presentation.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, August issues, and unpublished data.

**No. 713. Personal Income Per Capita in Current and Constant (1982) Dollars—States:  
1980 to 1989**

[See headnote, table 712]

REGION, DIVISION, AND STATE	CURRENT DOLLARS					CONSTANT (1982) DOLLARS					Income rank	
	1980	1985	1987	1988	1989	1980	1985	1987	1988	1989	1980	1989
<b>United States . . . . .</b>	<b>9,919</b>	<b>13,896</b>	<b>15,423</b>	<b>16,513</b>	<b>17,596</b>	<b>11,427</b>	<b>12,452</b>	<b>12,895</b>	<b>13,295</b>	<b>13,546</b>	(X)	(X)
<b>Northeast . . . . .</b>	<b>10,603</b>	<b>15,570</b>	<b>17,792</b>	<b>19,373</b>	<b>20,694</b>	<b>12,216</b>	<b>13,952</b>	<b>14,876</b>	<b>15,599</b>	<b>15,931</b>	(X)	(X)
<b>New England . . . . .</b>	<b>10,542</b>	<b>15,950</b>	<b>18,633</b>	<b>20,249</b>	<b>21,504</b>	<b>12,145</b>	<b>14,292</b>	<b>15,579</b>	<b>16,304</b>	<b>16,554</b>	(X)	(X)
Maine . . . . .	8,218	11,903	13,985	15,045	16,248	9,468	10,686	11,693	12,114	12,508	39	26
New Hampshire . . . . .	9,788	15,367	18,032	19,410	20,267	11,276	13,770	15,077	15,628	15,602	23	7
Vermont . . . . .	8,577	12,373	14,256	15,268	16,371	9,881	11,087	11,920	12,293	12,603	35	24
Massachusetts . . . . .	10,612	16,305	19,140	20,898	22,174	12,228	14,810	16,003	16,826	17,070	12	3
Rhode Island . . . . .	9,518	13,779	15,644	16,870	17,950	10,965	12,347	13,080	13,583	13,818	27	14
Connecticut . . . . .	12,112	18,227	21,288	23,190	24,683	13,954	16,332	17,799	18,671	19,002	2	1
<b>Middle Atlantic . . . . .</b>	<b>10,624</b>	<b>15,441</b>	<b>17,503</b>	<b>19,072</b>	<b>20,414</b>	<b>12,240</b>	<b>13,836</b>	<b>14,635</b>	<b>15,356</b>	<b>15,715</b>	(X)	(X)
New York . . . . .	10,721	15,773	17,906	19,663	21,073	12,351	14,134	14,972	15,832	16,222	10	5
New Jersey . . . . .	11,573	17,618	20,303	22,265	23,778	13,333	15,787	16,976	17,927	18,305	4	2
Pennsylvania . . . . .	9,891	13,554	15,103	16,135	17,269	11,395	12,145	12,628	12,991	13,284	18	20
<b>Midwest . . . . .</b>	<b>9,919</b>	<b>13,569</b>	<b>14,997</b>	<b>15,856</b>	<b>16,828</b>	<b>11,427</b>	<b>12,159</b>	<b>12,539</b>	<b>12,766</b>	<b>13,030</b>	(X)	(X)
<b>East North Central . . . . .</b>	<b>10,077</b>	<b>13,694</b>	<b>15,174</b>	<b>16,130</b>	<b>17,214</b>	<b>11,609</b>	<b>12,271</b>	<b>12,687</b>	<b>12,967</b>	<b>13,252</b>	(X)	(X)
Ohio . . . . .	9,723	13,176	14,529	15,427	16,373	11,202	11,806	12,148	12,421	12,604	25	23
Indiana . . . . .	9,245	12,424	13,894	14,721	15,779	10,651	11,133	11,617	11,853	12,147	31	30
Illinois . . . . .	10,837	14,730	16,366	17,567	18,824	12,485	13,199	13,684	14,144	14,491	7	11
Michigan . . . . .	10,165	14,001	15,473	16,391	17,444	11,711	12,546	12,937	13,197	13,429	15	19
Wisconsin . . . . .	9,845	13,234	14,652	15,378	16,449	11,342	11,858	12,251	12,382	12,663	20	22
<b>West North Central . . . . .</b>	<b>9,534</b>	<b>13,273</b>	<b>14,575</b>	<b>15,205</b>	<b>16,244</b>	<b>10,984</b>	<b>11,893</b>	<b>12,186</b>	<b>12,242</b>	<b>12,505</b>	(X)	(X)
Minnesota . . . . .	10,062	14,144	15,716	16,472	17,657	11,592	12,674	13,140	13,262	13,593	18	15
Iowa . . . . .	9,537	12,619	13,859	14,316	15,467	10,987	11,307	11,588	11,527	11,922	26	32
Missouri . . . . .	9,298	13,250	14,582	15,331	16,292	10,712	11,873	12,192	12,344	12,542	29	25
North Dakota . . . . .	8,538	11,951	12,641	12,342	13,563	9,836	10,709	10,589	9,937	10,441	37	44
South Dakota . . . . .	8,217	11,029	12,370	12,599	13,685	9,467	9,883	10,343	10,144	10,535	40	41
Nebraska . . . . .	9,274	12,967	13,976	14,569	15,446	10,684	11,619	11,686	11,730	11,891	30	33
Kansas . . . . .	9,941	13,812	14,962	15,688	16,498	11,453	12,376	12,510	12,631	12,701	17	21
<b>South . . . . .</b>	<b>8,944</b>	<b>12,608</b>	<b>13,817</b>	<b>14,810</b>	<b>15,773</b>	<b>10,305</b>	<b>11,297</b>	<b>11,552</b>	<b>11,924</b>	<b>12,143</b>	(X)	(X)
<b>South Atlantic . . . . .</b>	<b>9,171</b>	<b>13,301</b>	<b>15,022</b>	<b>16,073</b>	<b>17,123</b>	<b>10,566</b>	<b>11,918</b>	<b>12,580</b>	<b>12,941</b>	<b>13,182</b>	(X)	(X)
Delaware . . . . .	10,249	14,547	16,319	17,347	18,483	11,808	13,035	13,645	13,967	14,229	14	12
Maryland . . . . .	10,790	15,970	18,231	19,639	21,013	12,431	14,310	15,243	15,812	16,176	8	6
District of Columbia . . . . .	12,322	17,811	19,579	22,063	23,491	14,196	15,960	16,370	17,764	18,084	(X)	(X)
Virginia . . . . .	9,827	14,468	16,531	17,712	18,927	11,321	12,984	13,822	14,261	14,570	21	10
West Virginia . . . . .	7,915	10,073	10,959	11,578	12,345	9,119	9,026	9,163	9,322	9,503	46	49
North Carolina . . . . .	7,999	11,682	13,284	14,243	15,198	9,215	10,450	11,107	11,468	11,700	44	34
South Carolina . . . . .	7,589	10,729	12,070	12,907	13,634	8,743	9,614	10,092	10,392	10,496	48	42
Georgia . . . . .	8,348	12,616	14,316	15,280	16,053	9,618	11,305	11,970	12,303	12,358	38	27
Florida . . . . .	9,764	13,935	15,538	16,515	17,647	11,249	12,487	12,992	13,297	13,585	24	17
<b>East South Central . . . . .</b>	<b>7,752</b>	<b>10,640</b>	<b>11,976</b>	<b>12,853</b>	<b>13,673</b>	<b>8,931</b>	<b>9,534</b>	<b>10,013</b>	<b>10,349</b>	<b>10,526</b>	(X)	(X)
Kentucky . . . . .	8,022	10,768	11,963	12,792	13,743	9,242	9,649	10,003	10,300	10,580	43	39
Tennessee . . . . .	8,030	11,252	12,913	13,895	14,694	9,251	10,082	10,797	11,188	11,312	42	35
Alabama . . . . .	7,704	10,698	11,982	12,814	13,625	8,876	9,586	10,018	10,317	10,489	47	43
Mississippi . . . . .	6,926	9,249	10,250	11,055	11,724	7,979	8,288	8,570	8,901	9,025	50	50
<b>West South Central . . . . .</b>	<b>9,326</b>	<b>12,679</b>	<b>12,993</b>	<b>13,933</b>	<b>14,817</b>	<b>10,744</b>	<b>11,361</b>	<b>10,864</b>	<b>11,218</b>	<b>11,408</b>	(X)	(X)
Arkansas . . . . .	7,465	10,525	11,385	12,141	12,901	8,600	9,431	9,519	9,775	9,931	49	48
Louisiana . . . . .	8,682	11,302	11,439	12,238	12,921	10,002	10,127	9,564	9,853	9,947	34	47
Oklahoma . . . . .	9,393	12,139	12,481	13,306	14,154	10,821	10,877	10,438	10,713	10,896	28	37
Texas . . . . .	9,798	13,476	13,734	14,753	15,702	11,288	12,075	11,483	11,878	12,088	22	31
<b>West . . . . .</b>	<b>10,843</b>	<b>14,763</b>	<b>16,247</b>	<b>17,278</b>	<b>18,349</b>	<b>12,492</b>	<b>13,229</b>	<b>13,585</b>	<b>13,912</b>	<b>14,125</b>	(X)	(X)
<b>Mountain . . . . .</b>	<b>9,445</b>	<b>12,730</b>	<b>13,813</b>	<b>14,590</b>	<b>15,566</b>	<b>10,881</b>	<b>11,407</b>	<b>11,549</b>	<b>11,747</b>	<b>11,983</b>	(X)	(X)
Montana . . . . .	8,924	11,015	12,331	12,870	14,078	10,281	9,870	10,310	10,362	10,838	33	38
Idaho . . . . .	8,569	10,817	11,838	12,652	13,707	9,872	9,693	9,898	10,187	10,552	38	40
Wyoming . . . . .	11,339	12,834	12,819	13,720	14,508	13,063	11,500	10,718	11,047	11,169	6	36
Colorado . . . . .	10,598	14,699	15,624	16,471	17,553	12,210	13,171	13,064	13,262	13,513	13	18
New Mexico . . . . .	8,169	11,197	11,872	12,401	13,140	9,411	10,033	9,926	9,985	10,115	41	45
Arizona . . . . .	9,172	12,957	14,355	14,995	15,802	10,567	11,610	12,003	12,073	12,165	32	29
Utah . . . . .	7,952	10,653	11,532	12,225	13,079	9,161	9,546	9,642	9,843	10,069	45	46
Nevada . . . . .	11,421	14,693	16,381	17,849	19,269	13,158	13,166	13,696	14,371	14,834	5	9
<b>Pacific . . . . .</b>	<b>11,343</b>	<b>15,504</b>	<b>17,125</b>	<b>18,237</b>	<b>19,331</b>	<b>13,088</b>	<b>13,892</b>	<b>14,319</b>	<b>14,684</b>	<b>14,881</b>	(X)	(X)
Washington . . . . .	10,725	14,076	15,535	16,364	17,647	12,356	12,613	12,989	13,176	13,585	9	16
Oregon . . . . .	9,866	12,628	13,850	14,811	15,919	11,366	11,315	11,580	11,925	12,255	19	28
California . . . . .	11,603	16,035	17,749	18,915	19,929	13,368	14,368	14,840	15,229	15,342	3	8
Alaska . . . . .	13,835	18,765	18,282	19,237	21,656	15,939	16,832	15,286	15,489	16,671	1	4
Hawaii . . . . .	10,617	13,900	15,540	16,840	18,472	12,232	12,455	12,993	13,559	14,220	11	13

X Not applicable.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, August issues, and unpublished data.

**No. 714. Total and Per Capita Personal Income in Constant (1982) Dollars, 1979 and 1988; and Projections: 1995 to 2000**

[Data for 1988 will not match tables 712 and 713 due to revisions that were released in August, 1990]

REGION, DIVISION, AND STATE	PERSONAL INCOME						PERSONAL INCOME PER CAPITA <sup>1</sup>					
	1979 (mil. dol.)	1988 (mil. dol.)	1995 (mil. dol.)	2000 (mil. dol.)	Average annual percent change		1979 (dol.)	1988 (dol.)	1995 (dol.)	2000 (dol.)	Average annual percent change	
					1979- 1988	1988- 2000					1979- 1988	1988- 2000
<b>U.S. ....</b>	<b>2,594,003</b>	<b>3,255,648</b>	<b>3,756,405</b>	<b>4,108,386</b>	<b>2.56</b>	<b>1.96</b>	<b>11,551</b>	<b>13,245</b>	<b>14,469</b>	<b>15,345</b>	<b>1.53</b>	<b>1.23</b>
<b>Northeast. ....</b>	<b>598,429</b>	<b>780,761</b>	<b>876,757</b>	<b>944,466</b>	<b>3.00</b>	<b>1.60</b>	<b>12,157</b>	<b>15,432</b>	<b>16,717</b>	<b>17,635</b>	<b>2.69</b>	<b>1.12</b>
<b>New England. . .</b>	<b>148,007</b>	<b>210,062</b>	<b>236,346</b>	<b>255,368</b>	<b>3.97</b>	<b>1.64</b>	<b>11,989</b>	<b>16,205</b>	<b>17,319</b>	<b>18,154</b>	<b>3.41</b>	<b>0.95</b>
Maine. ....	10,578	14,615	16,781	18,337	3.66	1.91	9,404	12,126	13,205	14,014	2.87	1.21
New Hampshire. .	10,164	16,765	19,583	21,531	5.72	2.11	11,146	15,449	16,536	17,363	3.69	0.98
Vermont. ....	5,035	6,860	7,950	8,727	3.50	2.03	9,956	12,305	13,393	14,193	2.38	1.20
Massachusetts. .	69,401	98,567	110,130	118,566	3.98	1.55	12,078	16,736	17,861	18,694	3.69	0.93
Rhode Island. . .	10,331	13,441	15,340	16,677	2.97	1.81	10,799	13,540	14,746	15,555	2.54	1.16
Connecticut. ....	42,498	59,814	66,561	71,530	3.87	1.50	13,709	18,500	19,625	20,503	3.39	0.86
<b>Middle Atlantic. .</b>	<b>450,422</b>	<b>570,699</b>	<b>640,412</b>	<b>689,098</b>	<b>2.66</b>	<b>1.58</b>	<b>11,977</b>	<b>13,738</b>	<b>15,009</b>	<b>15,904</b>	<b>1.54</b>	<b>1.23</b>
New York. ....	216,991	277,066	309,204	330,379	2.75	1.48	12,306	15,470	16,889	17,852	2.58	1.20
New Jersey. ....	96,856	137,280	155,240	168,834	3.95	1.74	13,136	17,780	18,985	19,932	3.42	0.96
Pennsylvania. . .	136,575	156,353	175,968	189,885	1.51	1.63	11,502	13,028	14,287	15,173	1.39	1.28
<b>Midwest. ....</b>	<b>694,407</b>	<b>768,875</b>	<b>872,867</b>	<b>944,408</b>	<b>1.14</b>	<b>1.73</b>	<b>11,828</b>	<b>12,840</b>	<b>14,074</b>	<b>14,938</b>	<b>0.92</b>	<b>1.27</b>
<b>E. No. Central. . .</b>	<b>499,291</b>	<b>549,337</b>	<b>620,514</b>	<b>670,277</b>	<b>1.07</b>	<b>1.67</b>	<b>11,999</b>	<b>13,042</b>	<b>14,245</b>	<b>15,098</b>	<b>0.93</b>	<b>1.23</b>
Ohio. ....	123,703	165,330	182,066	193,636	1.02	1.58	11,455	12,486	13,679	14,531	0.96	1.27
Indiana. ....	60,840	86,330	75,904	82,518	0.96	1.84	11,113	11,937	13,201	14,031	0.80	1.36
Illinois. ....	147,379	164,058	184,671	199,416	1.20	1.64	12,902	14,126	15,280	16,131	0.81	1.11
Michigan. ....	113,240	122,783	138,577	149,509	0.90	1.65	12,244	13,288	14,507	15,361	0.91	1.22
Wisconsin. ....	54,129	60,636	69,295	75,197	1.27	1.81	11,601	12,490	13,709	14,675	0.82	1.29
<b>W. No. Central. . .</b>	<b>195,117</b>	<b>219,538</b>	<b>252,355</b>	<b>274,131</b>	<b>1.32</b>	<b>1.87</b>	<b>11,412</b>	<b>12,362</b>	<b>13,670</b>	<b>14,562</b>	<b>0.89</b>	<b>1.37</b>
Minnesota. ....	47,643	57,611	66,334	72,217	2.13	1.90	11,798	13,378	14,617	15,508	1.41	1.24
Iowa. ....	33,910	33,374	38,120	41,283	-0.18	1.79	11,626	11,777	12,998	13,849	0.14	1.36
Missouri. ....	53,889	63,822	72,585	79,287	1.90	1.82	11,022	12,414	13,683	14,592	1.33	1.36
North Dakota. . .	6,987	6,840	8,035	8,703	0.24	2.03	10,714	10,255	11,663	12,461	-0.49	1.64
South Dakota. . .	7,103	7,304	8,512	9,237	0.31	1.97	10,309	10,244	11,518	12,330	0.07	1.56
Nebraska. ....	17,713	19,037	22,230	24,149	0.80	2.00	11,323	11,882	13,419	14,322	0.54	1.57
Kansas. ....	27,871	31,550	36,265	39,256	1.39	1.84	11,873	12,645	14,055	14,986	0.70	1.43
<b>South. ....</b>	<b>767,614</b>	<b>1,006,107</b>	<b>1,171,418</b>	<b>1,288,688</b>	<b>3.05</b>	<b>2.08</b>	<b>10,330</b>	<b>11,885</b>	<b>13,105</b>	<b>13,975</b>	<b>1.57</b>	<b>1.36</b>
<b>South Atlantic. . .</b>	<b>385,340</b>	<b>548,425</b>	<b>646,327</b>	<b>716,033</b>	<b>4.00</b>	<b>2.25</b>	<b>10,559</b>	<b>12,927</b>	<b>14,137</b>	<b>15,009</b>	<b>2.27</b>	<b>1.25</b>
Delaware. ....	7,035	9,386	10,898	11,968	3.26	2.05	11,748	14,217	15,033	15,747	2.14	0.86
Maryland. ....	52,188	72,690	83,314	90,933	3.75	1.88	12,357	15,727	16,804	17,665	2.72	0.97
Dist. of Col. . . .	9,505	10,579	11,596	12,380	1.20	1.32	14,498	17,149	18,801	19,823	1.88	1.21
Virginia. ....	59,325	85,349	101,091	112,134	4.12	2.30	11,142	14,189	15,448	16,345	2.72	1.19
West Virginia. . .	17,908	17,622	19,292	20,460	-0.18	1.25	9,235	9,393	10,300	10,921	0.19	1.26
North Carolina. .	54,138	74,500	86,537	94,880	3.61	2.04	9,332	11,481	12,658	13,481	2.33	1.35
South Carolina. .	27,196	35,992	41,553	45,410	3.16	1.96	8,810	10,372	11,513	12,304	1.83	1.43
Georgia. ....	52,462	77,764	92,077	102,019	4.47	2.29	9,731	12,262	13,450	14,297	2.60	1.29
Florida. ....	105,583	164,543	199,969	225,849	5.05	2.67	11,148	13,340	14,583	15,496	2.01	1.26
<b>E. So. Central. . .</b>	<b>132,868</b>	<b>158,657</b>	<b>182,226</b>	<b>198,536</b>	<b>1.99</b>	<b>1.89</b>	<b>9,129</b>	<b>10,340</b>	<b>11,482</b>	<b>12,272</b>	<b>1.39</b>	<b>1.44</b>
Kentucky. ....	34,414	38,398	43,451	47,050	1.22	1.71	9,445	10,304	11,402	12,179	0.97	1.40
Tennessee. ....	42,849	54,519	64,129	70,694	2.71	2.19	9,452	11,138	12,370	13,192	1.84	1.42
Alabama. ....	34,953	42,329	47,973	51,856	2.15	1.71	9,033	10,318	11,453	12,247	1.49	1.44
Mississippi. ....	20,652	23,411	26,673	28,936	1.40	1.78	8,235	8,936	9,927	10,631	0.91	1.46
<b>E. So. Central. . .</b>	<b>249,406</b>	<b>299,025</b>	<b>342,865</b>	<b>374,119</b>	<b>2.04</b>	<b>1.88</b>	<b>10,720</b>	<b>11,122</b>	<b>12,334</b>	<b>13,206</b>	<b>0.41</b>	<b>1.44</b>
Arkansas. ....	20,155	23,498	26,881	29,183	1.72	1.82	8,882	9,812	10,858	11,594	1.11	1.40
Louisiana. ....	40,588	43,531	47,974	51,293	0.78	1.38	8,806	9,876	10,928	11,680	0.08	1.41
Oklahoma. ....	31,791	34,689	39,661	43,319	0.97	1.87	10,704	10,700	12,010	12,937	0.00	1.59
Texas. ....	156,872	197,307	228,349	250,324	2.58	2.00	11,296	11,716	12,951	13,851	0.41	1.41
<b>West. ....</b>	<b>533,554</b>	<b>699,906</b>	<b>835,362</b>	<b>930,824</b>	<b>3.06</b>	<b>2.40</b>	<b>12,608</b>	<b>13,811</b>	<b>14,983</b>	<b>15,844</b>	<b>1.02</b>	<b>1.15</b>
<b>Mountain. ....</b>	<b>121,826</b>	<b>155,856</b>	<b>187,764</b>	<b>210,863</b>	<b>2.77</b>	<b>2.55</b>	<b>10,952</b>	<b>11,894</b>	<b>12,853</b>	<b>13,698</b>	<b>0.73</b>	<b>1.33</b>
Montana. ....	8,221	8,339	9,503	10,285	0.16	1.76	10,417	10,364	11,654	12,474	0.06	1.56
Idaho. ....	9,321	10,145	11,863	13,072	0.95	2.13	9,995	10,119	11,325	12,181	0.14	1.56
Wyoming. ....	5,898	5,251	5,712	6,120	-1.28	1.28	13,053	10,956	12,059	12,898	-1.93	1.37
Colorado. ....	34,435	43,644	51,844	57,942	2.67	2.39	12,086	13,220	14,418	15,311	1.00	1.23
New Mexico. ....	12,217	15,122	18,098	20,202	2.40	2.44	9,540	10,037	11,163	11,949	0.57	1.46
Arizona. ....	28,065	41,970	51,862	58,991	4.57	2.88	10,636	12,029	13,105	13,926	1.38	1.23
Utah. ....	13,414	16,545	19,934	22,549	2.36	2.61	9,472	9,791	10,827	11,605	0.37	1.43
Nevada. ....	10,255	14,840	18,948	21,702	4.19	3.22	13,403	14,076	15,058	15,855	0.55	1.00
<b>Pacific. ....</b>	<b>411,728</b>	<b>544,050</b>	<b>647,598</b>	<b>719,961</b>	<b>3.14</b>	<b>2.36</b>	<b>13,199</b>	<b>14,566</b>	<b>15,740</b>	<b>16,607</b>	<b>1.10</b>	<b>1.10</b>
Washington. ....	50,494	61,480	72,889	80,747	2.21	2.30	12,583	13,228	14,447	15,316	0.56	1.23
Oregon. ....	30,253	33,069	38,749	42,693	0.99	2.15	11,734	11,953	13,091	13,908	0.21	1.27
California. ....	313,012	426,707	509,527	567,566	3.50	2.41	13,460	15,070	16,241	17,113	1.26	1.06
Alaska. ....	6,421	8,025	8,681	9,277	2.51	1.22	16,090	15,302	16,075	16,765	-0.56	0.76
Hawaii. ....	11,548	14,769	17,752	19,678	2.77	2.42	12,156	13,449	14,477	15,219	1.13	1.04

<sup>1</sup> Based on U.S. Bureau of the Census population as of July 1.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, May 1990.

### No. 715. Personal Income and Personal Income Per Capita for Selected Metropolitan Areas: 1985 to 1988

[As defined June 30, 1990, CMSA=Consolidated Metropolitan Statistical Area; NECMA=New England County Metropolitan Area; MSA=Metropolitan Statistical Area. See text, section 1 and Appendix II]

METROPOLITAN AREA, RANKED BY 1988 POPULATION <sup>1</sup>	PERSONAL INCOME				PER CAPITA PERSONAL INCOME			
	1985 (mil. dol.)	1987 (mil. dol.)	1988 (mil. dol.)	Annual percent change, 1987-88	1985 (dol.)	1987 (dol.)	1988 (dol.)	Percent of national average, 1988
United States <sup>2</sup> . . . . .	3,317,545	3,766,092	4,053,282	7.6	13,899	15,472	16,490	(X)
New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA <sup>3</sup> . . . . .	317,259	366,904	398,330	8.6	17,837	20,446	22,148	134.3
Los Angeles-Anaheim-Riverside, CA CMSA . . . . .	205,721	241,923	260,773	7.8	16,123	17,976	18,938	114.8
Chicago-Gary-Lake County (IL), IL-IN-WI CMSA . . . . .	126,297	142,695	154,202	8.1	15,630	17,518	18,849	114.3
San Francisco-Oakland-San Jose, CA CMSA . . . . .	110,314	125,127	135,838	8.6	19,011	21,037	22,483	136.3
Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA . . . . .	88,854	102,652	111,182	8.3	15,355	17,367	18,644	113.1
Detroit-Ann Arbor, MI CMSA . . . . .	71,792	80,825	86,425	6.9	15,634	17,489	18,706	113.4
Boston-Lawrence-Salem-Lowell-Brockton, MA NECMA . . . . .	64,539	75,877	83,110	9.5	17,391	20,355	22,248	134.9
Dallas-Fort Worth, TX CMSA . . . . .	58,213	63,924	67,353	5.4	16,510	17,127	17,884	108.5
Washington, DC-MD-VA MSA . . . . .	66,042	78,664	86,539	10.0	18,904	21,527	23,175	140.5
Houston-Galveston-Brazoria, TX CMSA . . . . .	54,355	54,721	58,732	7.3	15,076	15,109	16,129	97.8
Miami-Fort Lauderdale, FL CMSA . . . . .	43,484	50,367	54,975	9.1	15,180	17,073	18,322	111.1
Cleveland-Akron-Lorain, OH CMSA . . . . .	40,581	44,795	47,860	6.8	14,636	16,137	17,284	104.8
Atlanta, GA MSA . . . . .	38,186	46,357	50,354	8.6	15,464	17,453	18,400	111.6
St. Louis, MO-IL MSA . . . . .	36,565	41,210	43,922	6.6	15,095	16,783	17,806	108.0
Seattle-Tacoma, WA CMSA . . . . .	35,455	41,216	44,877	8.9	15,754	17,529	18,538	112.4
Minneapolis-St. Paul, MN-WI MSA . . . . .	37,089	42,661	46,248	8.4	16,398	18,272	19,371	117.5
San Diego, CA MSA . . . . .	32,190	38,075	41,661	9.4	15,095	16,654	17,576	106.6
Baltimore, MD MSA . . . . .	35,204	41,004	44,531	8.8	15,635	17,746	19,010	115.3
Pittsburgh-Beaver Valley, PA CMSA . . . . .	31,972	34,713	37,022	6.7	13,696	15,145	16,208	98.3
Phoenix, AZ MSA . . . . .	26,491	31,725	34,126	7.6	14,582	16,039	16,815	102.0
Tampa-St. Petersburg-Clearwater, FL MSA . . . . .	25,862	30,141	32,738	8.6	13,826	15,407	16,409	99.5
Denver-Boulder, CO CMSA . . . . .	30,067	32,316	33,919	5.0	16,448	17,409	18,256	110.7
Cincinnati-Hamilton, OH-KY-IN CMSA . . . . .	23,017	26,405	28,392	7.5	13,690	15,354	16,426	99.6
Kansas City, MO-KS MSA . . . . .	22,370	25,248	26,905	6.6	14,922	16,280	17,078	103.6
Milwaukee-Racine, WI CMSA . . . . .	23,266	25,877	27,858	7.7	14,988	16,614	17,724	107.5
Portland-Vancouver, OR-WA CMSA . . . . .	18,979	21,233	23,258	9.5	14,058	15,338	16,446	99.7
Sacramento, CA MSA . . . . .	18,253	21,774	23,617	8.5	14,531	16,280	17,050	103.4
Norfolk-Virginia Beach-Newport News, VA MSA . . . . .	18,717	19,471	20,774	6.7	13,058	14,424	15,051	91.3
Columbus, OH MSA . . . . .	17,699	20,295	21,846	7.6	13,755	15,309	16,251	98.6
San Antonio, TX MSA . . . . .	15,487	16,777	17,778	6.0	12,474	12,750	13,436	81.5
New Orleans, LA MSA . . . . .	16,981	17,434	18,342	5.2	12,769	13,231	14,034	85.1
Indianapolis, IN MSA . . . . .	16,885	19,534	21,006	7.5	14,031	15,945	16,987	103.0
Buffalo-Niagara Falls, NY CMSA . . . . .	16,033	17,642	18,918	7.2	13,531	15,057	16,093	97.6
Providence-Pawtucket-Woonsocket, RI NECMA . . . . .	12,048	13,943	15,135	8.5	13,648	15,458	16,668	101.1
Charlotte-Gastonia-Rock Hill, NC-SC MSA . . . . .	13,935	16,688	18,179	8.9	13,230	15,310	16,348	99.1
Hartford-New Britain-Middletown-Bristol, CT NECMA . . . . .	18,716	22,429	24,432	8.9	17,392	20,423	22,041	133.7
Salt Lake City-Ogden, UT MSA . . . . .	11,909	13,176	13,841	5.8	11,615	12,476	13,090	79.4
Rochester, NY MSA . . . . .	14,943	16,477	17,910	8.7	15,318	16,915	18,273	110.8
Memphis, TN-AR-MS MSA . . . . .	11,910	13,999	15,136	8.1	12,534	14,468	15,456	93.7
Nashville, TN MSA . . . . .	12,187	14,723	15,799	7.3	13,378	15,372	16,258	98.6
Orlando, FL MSA . . . . .	11,829	14,544	16,049	10.3	13,712	15,518	16,525	100.2
Louisville, KY-IN MSA . . . . .	12,473	14,132	15,164	7.3	12,945	14,616	15,682	95.1
Oklahoma City, OK MSA . . . . .	13,214	13,390	14,083	5.2	13,498	13,841	14,612	88.6
Dayton-Springfield, OH MSA . . . . .	12,746	14,142	15,269	8.0	13,697	15,013	16,107	97.7
Greensboro-Winston-Salem-High Point, NC MSA . . . . .	12,110	14,089	15,364	9.0	13,541	15,395	16,614	100.8
Birmingham, AL MSA . . . . .	11,166	12,751	13,664	7.2	12,345	13,854	14,798	89.7
Jacksonville, FL MSA . . . . .	10,911	12,668	13,877	7.8	13,219	14,657	15,452	93.7
Albany-Schenectady-Troy, NY MSA . . . . .	11,782	13,591	14,718	8.3	14,041	16,118	17,299	104.9

X Not applicable. <sup>1</sup> For 1988 population, see table 36. <sup>2</sup> Includes other areas not listed separately. <sup>3</sup> Includes Bridgeport-Stamford-Norwalk-Danbury, CT NECMA.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, April issues, and unpublished data.



**No. 716. Percent Distribution and Average Annual Percent Change of Shares of National Income, by Type: 1970 to 1989**

[For definition of average annual percent change, see Guide to Tabular Presentation]

TYPE OF INCOME	PERCENT DISTRIBUTION							AVERAGE ANNUAL PERCENT CHANGE		
	1970	1980	1985	1986	1987	1988	1989	1970-1980	1980-1989	1988-1989
<b>National income, total.</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>10.2</b>	<b>7.5</b>	<b>6.0</b>
Compensation of employees	74.3	74.3	73.2	73.6	73.4	72.9	72.9	10.2	7.3	6.0
Wages and salaries	66.2	62.3	61.1	61.4	61.5	61.0	60.9	9.5	7.2	5.8
Supplements to wages, salaries	8.0	12.1	12.1	12.2	11.9	11.9	12.0	14.8	7.4	6.7
Proprietors' income	9.6	8.2	7.9	8.3	8.8	8.9	9.0	8.5	8.6	7.1
Farm	1.8	0.9	0.9	1.0	1.2	1.1	1.2	3.4	10.1	11.2
Nonfarm	7.9	7.3	7.0	7.2	7.7	7.8	7.8	9.4	8.4	6.5
Rental income of persons	2.2	0.3	0.3	0.3	0.4	0.4	0.2	-9.7	2.4	-49.7
Corporate profits	9.0	8.0	8.7	8.3	8.4	8.5	7.4	9.0	6.5	-7.7
Profits before tax	9.1	10.8	6.9	6.5	7.5	7.9	7.3	12.1	2.9	-2.8
Profits after tax	5.0	6.9	4.0	3.4	4.1	4.5	4.1	13.8	1.4	-4.4
Inventory valuation adjustment	-0.8	-2.0	(-2)	0.2	-0.5	-0.7	-0.5	(NS)	(NS)	(NS)
Capital consumption adjustment	0.6	-0.8	1.8	1.6	1.4	1.2	0.6	(NS)	(NS)	(NS)
Net interest	4.9	9.1	9.9	9.5	9.0	9.3	10.5	17.2	9.2	19.7

NS Percent change irrelevant or insignificant. Z Less than .05 percent. <sup>1</sup> With inventory valuation and capital consumption adjustments. <sup>2</sup> With capital consumption adjustment.

Source: Compiled by U.S. Bureau of the Census; based on data from U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

**No. 717. Flow of Funds Accounts—Composition of Individuals' Savings: 1970 to 1989**

[In billions of dollars. Combined statement for households, farm and nonfarm, noncorporate business, nonprofit organizations, and personal trusts. Minus sign (-) indicates decrease. See *Historical Statistics, Colonial Times to 1970*, series F 566-594, for similar but not exactly comparable data.]

COMPOSITION OF SAVINGS	1970	1975	1980	1984	1985	1986	1987	1988	1989
<b>Increase in financial assets</b>	<b>80.7</b>	<b>176.4</b>	<b>321.3</b>	<b>563.7</b>	<b>568.0</b>	<b>561.2</b>	<b>512.1</b>	<b>549.5</b>	<b>595.1</b>
Checkable deposits and currency	8.7	6.0	8.9	23.0	32.6	94.8	22.8	8.5	12.1
Time and savings deposits	43.5	77.6	124.9	229.6	133.0	106.5	97.8	159.6	134.4
Money market fund shares	-	1.3	24.5	44.0	12.1	33.0	21.4	18.1	84.9
Securities	0.5	9.3	9.0	72.8	137.7	51.1	144.7	75.1	114.1
U.S. savings bonds	0.3	4.0	-7.3	3.0	5.3	13.6	7.8	8.5	8.2
Other U.S. Treasury securities	-10.6	14.2	30.3	64.2	53.3	3.8	18.8	48.2	19.3
U.S. Government agency securities	4.6	-5.6	9.4	32.4	24.2	4.8	71.4	72.8	114.7
Tax-exempt obligations	-0.1	5.0	1.1	26.2	38.1	-24.5	42.6	30.7	16.8
Corporate and foreign bonds	9.2	9.6	-18.2	-4.1	4.2	39.3	24.1	-4.1	24.3
Open-market paper	-2.2	-11.7	3.7	4.4	47.0	-2.2	4.8	34.8	8.0
Mutual fund shares	2.0	-0.4	1.1	24.0	68.5	141.4	73.1	-1.7	28.3
Other corporate equities	-2.8	-5.8	-11.0	-77.3	-102.8	-125.0	-97.9	-114.0	-105.4
Private life insurance reserves	5.2	7.9	9.7	5.0	10.4	17.2	25.7	24.9	27.6
Private insured pension reserves	2.9	8.7	22.3	46.7	63.4	82.5	70.6	88.8	86.8
Private noninsured pension reserves	7.2	40.2	51.2	42.1	39.5	24.4	25.0	11.7	-23.3
Government insurance and pension reserves	8.9	15.1	35.3	63.9	72.3	78.7	73.9	84.9	84.8
Miscellaneous financial assets	3.9	10.1	35.4	36.6	67.0	72.9	30.2	78.0	73.8
<b>Gross investment in tangible assets</b>	<b>150.5</b>	<b>236.4</b>	<b>403.4</b>	<b>608.0</b>	<b>640.5</b>	<b>699.5</b>	<b>727.8</b>	<b>773.5</b>	<b>805.7</b>
Owner-occupied homes	28.1	51.9	113.6	155.4	161.4	181.7	204.0	224.3	243.5
Other fixed assets	36.4	45.1	79.6	100.9	101.9	108.5	100.2	89.6	78.2
Consumer durables	85.7	135.4	219.3	335.6	372.2	406.0	421.1	455.2	473.3
Inventories	0.4	4.0	-9.1	16.1	5.0	3.4	2.4	4.4	10.7
<b>Capital consumption allowances</b>	<b>102.9</b>	<b>173.0</b>	<b>311.1</b>	<b>399.3</b>	<b>424.8</b>	<b>456.3</b>	<b>490.5</b>	<b>517.0</b>	<b>549.5</b>
Owner-occupied homes	13.5	24.4	47.0	60.0	64.4	67.1	70.0	73.0	76.0
Other fixed assets	23.7	41.6	76.8	102.6	105.9	108.7	115.2	120.4	132.9
Consumer durables	65.8	107.0	187.4	236.7	254.6	280.6	305.4	323.7	340.7
<b>Net investment in tangible assets</b>	<b>47.6</b>	<b>63.4</b>	<b>92.3</b>	<b>208.7</b>	<b>215.7</b>	<b>243.2</b>	<b>237.1</b>	<b>256.5</b>	<b>256.1</b>
Owner-occupied homes	14.6	27.5	66.6	95.4	97.1	114.6	134.0	151.3	167.5
Other fixed assets	12.7	3.5	2.9	-1.6	-4.0	-0.2	-15.0	-30.7	-54.6
Consumer durables	19.9	28.4	31.9	98.8	117.6	125.4	115.7	131.6	132.6
Inventories	0.4	4.0	-9.1	16.1	5.0	3.4	2.4	4.4	10.7
<b>Net increase in liabilities</b>	<b>38.7</b>	<b>80.7</b>	<b>209.3</b>	<b>381.0</b>	<b>437.5</b>	<b>395.2</b>	<b>372.0</b>	<b>390.6</b>	<b>360.2</b>
Mortgage debt on nonfarm homes	13.5	38.8	96.4	136.7	157.0	216.8	234.0	230.9	217.2
Other mortgage debt	16.4	16.8	57.4	87.4	103.1	71.2	75.0	61.4	51.0
Consumer credit	4.6	8.0	2.6	81.6	82.5	58.0	32.9	51.1	39.1
Security credit	-1.8	0.7	7.2	-2.4	19.4	8.2	-15.3	3.1	0.8
Other liabilities	3.7	14.7	38.9	77.3	75.6	41.2	45.5	43.0	48.8
<b>Individuals' saving</b>	<b>89.6</b>	<b>159.1</b>	<b>204.4</b>	<b>391.4</b>	<b>346.1</b>	<b>409.2</b>	<b>377.2</b>	<b>415.4</b>	<b>491.0</b>
Less: Government insurance and pension reserve	8.9	15.1	35.3	63.9	72.3	78.7	73.9	84.9	84.8
Net investment in consumer durables	19.9	28.4	31.9	98.8	117.6	125.4	115.7	131.6	132.6
Capital gains dividends from mutual funds	0.9	0.2	1.8	6.0	4.9	17.5	22.4	6.3	15.0
Net saving by farm corporations	(Z)	0.5	0.5	0.7	0.9	0.6	0.9	1.4	1.8
<b>Equals: Personal saving, flow of funds basis</b>	<b>59.9</b>	<b>114.8</b>	<b>134.9</b>	<b>221.9</b>	<b>150.5</b>	<b>167.0</b>	<b>164.3</b>	<b>191.3</b>	<b>256.8</b>

- Represents or rounds to zero. Z Less than \$50 million. <sup>1</sup> Includes corporate farms. <sup>2</sup> Includes items not shown separately. <sup>3</sup> Personal saving on national income account basis measures personal saving as income less taxes and consumption; flow-of-funds basis measures the same concept from acquisition of assets less borrowing.

Source: Board of Governors of the Federal Reserve System, *Flow of Funds Accounts*, quarterly.

## No. 718. Average Annual Income

(In dollars. Based on Consumer Expenditure Survey, integrated data from the interview and Diary surveys; see text, section for the noninstitutional population. Second, expenditures reported here are

Line no.	CHARACTERISTIC	Income before taxes	Total expenditures	Food, total	FOOD AT HOME					Food away from home	Alcoholic beverages
					Total <sup>2</sup>	Cereal and bakery products	Meats, poultry, fish, and eggs	Dairy products	Fruits and vegetables		
1	All consumer units. . . . .	28,540	25,892	3,748	2,136	312	551	274	373	1,612	269
2	Age of reference person:										
3	Under 25 years old . . . . .	14,827	16,373	2,455	1,121	166	249	152	176	1,334	312
4	25 to 34 years old . . . . .	28,318	25,770	3,664	2,046	291	506	276	328	1,618	355
5	35 to 44 years old . . . . .	36,428	33,078	4,636	2,599	387	661	333	434	2,037	281
6	45 to 54 years old . . . . .	39,934	33,205	4,815	2,605	387	675	329	450	2,210	307
7	55 to 64 years old . . . . .	29,979	25,765	3,952	2,355	334	648	295	433	1,597	239
8	65 to 74 years old . . . . .	20,704	20,120	3,013	1,933	277	533	236	390	1,081	162
9	75 years old and over . . . . .	13,707	13,339	1,939	1,373	215	357	175	290	566	89
9	Region of residence:										
10	Northeast . . . . .	29,774	26,348	3,993	2,212	341	606	277	398	1,781	272
11	Midwest . . . . .	27,436	24,763	3,660	2,084	304	529	268	355	1,577	273
12	South . . . . .	27,329	24,671	3,553	2,039	287	539	264	351	1,514	229
13	West . . . . .	30,624	28,830	3,924	2,282	334	541	296	406	1,643	326
13	Size of consumer unit:										
14	One person . . . . .	16,090	15,671	2,087	989	143	233	128	190	1,099	278
15	Two persons or more . . . . .	33,540	29,875	4,398	2,585	378	676	332	445	1,813	265
16	Two persons . . . . .	30,444	26,350	3,600	2,022	282	534	252	384	1,578	278
17	Three persons . . . . .	33,862	30,446	4,402	2,522	368	650	321	433	1,880	268
18	Four persons . . . . .	38,944	34,455	5,207	3,071	466	792	402	506	2,137	261
19	Five persons or more . . . . .	34,417	32,706	5,550	3,621	550	960	480	554	1,928	229
19	Single consumers:										
20	No earner . . . . .	8,825	10,327	1,637	1,080	160	264	140	231	558	105
21	One earner . . . . .	19,757	18,520	2,318	943	134	217	121	168	1,375	365
21	Consumer units of two or more persons:										
22	No earner . . . . .	15,876	16,943	2,811	2,049	311	570	249	389	762	121
23	One earner . . . . .	26,511	24,904	3,861	2,468	355	660	320	428	1,393	205
24	Two earners . . . . .	38,742	33,013	4,534	2,521	364	638	327	430	2,014	317
25	Three or more . . . . .	46,963	40,476	6,077	3,374	510	896	428	559	2,703	312
25	Husband and wife consumer units:										
26	Total husband and wife consumer units. . . . .	37,299	32,314	4,727	2,761	407	710	353	475	1,967	263
27	Husband and wife only . . . . .	33,825	27,955	3,815	2,148	302	558	266	413	1,667	259
28	Husband and wife with children:										
29	Oldest child under 6 . . . . .	34,318	30,943	4,077	2,516	346	595	340	427	1,561	273
30	Oldest child 6 to 17 . . . . .	38,039	35,248	5,473	3,268	515	813	431	509	2,205	244
31	Oldest child 18 or over . . . . .	45,596	37,764	5,966	3,313	484	929	408	546	2,653	299
31	One parent, at least one child under 18 years . . . . .	16,276	18,616	3,005	1,931	291	511	256	314	1,074	167
32	Single person and other . . . . .	18,509	17,951	2,452	1,265	179	328	163	235	1,187	292
32	Occupation of reference person:										
33	Self employed workers . . . . .	32,320	31,953	4,131	2,355	353	593	308	410	1,776	265
34	Wage and salary earners:										
35	Managers and professionals. . . . .	45,088	36,703	4,758	2,357	347	566	302	422	2,401	362
36	Technical, sales, and clerical workers . . . . .	30,756	27,973	3,858	2,091	299	543	263	353	1,767	317
37	Service workers . . . . .	19,268	19,941	3,212	1,800	256	480	228	308	1,413	278
38	Construction workers and mechanics. . . . .	31,497	28,332	4,256	2,411	352	620	315	385	1,845	297
39	Operators, fabricators and laborers . . . . .	26,507	23,124	3,711	2,262	324	606	300	372	1,449	258
40	Retired . . . . .	16,486	16,657	2,633	1,779	268	461	231	352	854	157
39	Income before taxes:										
40	Complete reporters of income <sup>1</sup> . . . . .	28,540	26,389	3,804	2,177	317	560	278	376	1,627	282
41	Quintiles of income:										
42	Lowest 20 percent . . . . .	4,942	10,893	1,950	1,322	194	347	164	247	628	144
43	Second 20 percent . . . . .	12,872	16,880	2,815	1,831	269	499	234	323	984	185
44	Third 20 percent . . . . .	22,570	23,290	3,545	2,074	303	521	272	352	1,471	264
45	Fourth 20 percent . . . . .	34,974	32,084	4,633	2,570	371	636	337	442	2,063	343
46	Highest 20 percent . . . . .	67,199	48,718	6,071	3,084	447	795	381	517	2,987	472
47	Incomplete reporting of income . . . . .	( <sup>1</sup> )	23,360	3,545	1,977	293	517	260	360	1,568	219

<sup>1</sup> Income values derived from "complete income reporters" only. Represents the combined income of all consumer unit members 14 years or over during the 12 months preceding the interview. A complete reporter is a consumer unit providing values for at least one of the major sources of income. <sup>2</sup> Includes other amounts not shown separately. <sup>3</sup> Includes household equipment.

## and Expenditures of All Consumer Units: 1988

14 for description. In interpreting the expenditure data, several factors should be considered. First, the data are averages out-of-pocket expenditures]

HOUSING					TRANSPORTATION				Health care	Pensions and Social Security	Other expenditures <sup>5</sup>	Personal taxes	Line No.
Total	Shelter	Fuel, utilities, and public services	Household operations and furnishings <sup>3</sup>	House-keeping supplies	Appliances and services	Vehicle purchases	Gasoline and motor oil	All other transportation <sup>4</sup>					
8,079	4,493	1,747	1,477	361	1,489	2,361	932	1,800	1,298	1,935	3,982	2,391	1
4,746	3,004	897	686	166	1,042	2,039	659	1,213	523	926	2,458	1,008	2
8,469	4,942	1,545	1,635	347	1,504	2,794	923	1,763	777	2,052	3,469	2,390	3
10,467	6,147	2,023	1,885	411	2,015	2,931	1,152	2,287	1,253	2,756	5,299	3,201	4
9,672	5,232	2,173	1,818	450	2,112	3,016	1,248	2,376	1,258	2,991	5,410	3,355	5
7,757	3,929	1,935	1,510	383	1,355	1,749	970	1,883	1,518	2,191	4,152	2,653	6
6,178	3,018	1,739	1,039	382	977	1,849	729	1,397	2,005	682	3,129	1,021	7
4,682	2,276	1,393	764	249	451	667	367	725	2,230	119	2,071	822	8
8,591	4,993	1,797	1,461	340	1,619	2,111	812	1,910	1,238	1,952	3,851	2,406	9
7,499	3,897	1,761	1,435	406	1,465	2,403	893	1,653	1,257	1,870	3,788	2,270	10
7,352	3,834	1,827	1,359	331	1,406	2,487	1,025	1,631	1,372	1,803	3,813	2,313	11
9,461	5,797	1,548	1,741	375	1,521	2,359	952	2,147	1,289	2,215	4,636	2,644	12
5,335	3,363	1,084	693	195	893	1,099	518	1,122	834	1,048	2,458	1,502	13
9,147	4,932	2,005	1,783	426	1,722	2,852	1,093	2,064	1,478	2,280	4,577	2,748	14
8,148	4,420	1,794	1,555	378	1,325	2,581	916	1,906	1,607	1,927	4,063	2,809	15
9,503	5,105	2,013	1,929	456	1,859	2,851	1,112	2,098	1,409	2,375	4,568	2,779	16
10,462	5,632	2,213	2,155	462	2,010	3,241	1,279	2,299	1,425	2,809	5,462	3,069	17
9,627	5,157	2,315	1,689	466	2,246	3,088	1,313	2,140	1,287	2,406	4,823	2,067	18
4,034	2,174	1,116	547	196	563	517	288	579	1,231	31	1,343	195	19
6,033	4,003	1,067	768	194	1,065	1,412	642	1,414	621	1,596	3,054	2,161	20
5,658	2,796	1,612	915	335	760	972	559	1,045	1,964	20	3,034	574	21
8,236	4,413	1,907	1,515	401	1,345	2,095	889	1,648	1,344	1,587	3,695	1,910	22
10,231	5,680	2,015	2,106	430	1,901	3,356	1,185	2,262	1,403	2,965	4,857	3,544	23
10,629	5,562	2,519	2,026	522	2,571	4,404	1,672	3,139	1,493	3,524	6,656	3,868	24
9,731	5,174	2,100	1,994	463	1,829	3,109	1,188	2,226	1,658	2,579	5,003	3,127	25
8,453	4,433	1,873	1,738	409	1,395	2,743	964	1,988	1,837	2,127	4,374	3,115	26
10,808	5,772	1,841	2,719	477	1,764	3,224	1,054	1,971	1,206	2,502	4,065	2,585	27
10,850	6,003	2,197	2,159	491	2,182	3,054	1,279	2,236	1,479	2,878	5,572	3,046	28
9,819	4,901	2,533	1,852	533	2,171	3,894	1,624	2,895	1,659	3,237	6,200	3,888	29
7,113	4,249	1,482	1,112	271	1,383	1,174	558	1,132	578	982	2,524	955	30
5,903	3,576	1,295	805	227	1,019	1,495	631	1,305	903	1,180	2,771	1,611	31
10,009	5,503	2,177	1,937	392	1,689	2,763	1,169	2,103	2,075	2,563	5,187	2,070	32
11,584	6,689	2,038	2,408	449	2,276	3,269	1,118	2,669	1,242	3,497	5,927	4,933	33
8,664	5,088	1,693	1,541	342	1,702	2,854	969	2,009	1,034	2,282	4,283	2,785	34
6,247	3,548	1,495	923	281	1,177	1,833	786	1,384	913	1,376	2,734	1,179	35
8,258	4,446	1,820	1,607	385	1,494	3,272	1,251	1,844	1,040	2,372	4,246	2,575	36
6,645	3,557	1,642	1,114	332	1,206	2,452	1,116	1,653	1,007	1,891	3,184	1,967	37
5,392	2,612	1,571	883	327	768	1,074	572	1,089	1,962	270	2,739	637	38
8,069	4,470	1,726	1,489	383	1,537	2,388	934	1,819	1,282	2,208	4,065	2,391	39
3,957	2,209	1,121	455	173	574	588	459	613	831	159	1,620	88	40
5,510	2,982	1,432	793	302	901	1,422	659	1,061	1,320	626	2,383	563	41
7,051	3,850	1,675	1,171	354	1,356	2,282	926	1,674	1,286	1,580	3,326	1,396	42
9,370	5,171	1,928	1,807	464	1,826	3,334	1,204	2,306	1,425	3,007	4,636	2,849	43
14,434	8,126	2,473	3,216	620	3,025	4,308	1,420	3,430	1,550	5,656	8,351	7,042	44
8,236	4,628	1,875	1,455	277	1,310	2,194	920	1,716	1,397	289	3,535	( <sup>1</sup> )	45

<sup>4</sup> Includes other vehicle expenses and public transportation. <sup>5</sup> Includes life insurance, entertainment, personal care, reading, education, tobacco and smoking supplies, cash contributions, and miscellaneous expenditures. For data on entertainment and reading, see table 393.

Source: U.S. Bureau of Labor Statistics, *Consumer Expenditures in 1988*. (BLS News Release, U.S.D.L.: 90-96.)

**No. 719. Average Annual Expenditures of All Consumer Units: 1984 to 1988**

[In dollars, except as indicated. For explanation of average annual percent change, see Guide to Tabular Presentation. Minus sign (-) indicates decrease. See headnote, table 718]

ITEM	1984	1985	1986	1987	1988	AVERAGE ANNUAL PERCENT CHANGE	
						1984-88	1987-88
<b>All consumer units (1,000)</b> .....	<b>90,223</b>	<b>91,584</b>	<b>94,044</b>	<b>94,150</b>	<b>94,862</b>	<b>1.3</b>	<b>0.8</b>
Total expenditures .....	21,975	23,490	23,866	24,414	25,892	4.2	6.1
Food, total .....	3,290	3,477	3,448	3,664	3,748	3.3	2.3
Food at home, total .....	1,970	2,037	1,993	2,099	2,136	2.0	1.8
Cereal and bakery products .....	262	283	275	299	312	4.5	4.3
Meats, poultry, fish, and eggs .....	586	579	562	572	551	-1.5	-3.7
Dairy products .....	253	266	251	274	274	2.0	-
Fruits and vegetables .....	313	322	320	356	373	4.5	4.8
Food away from home .....	1,320	1,441	1,455	1,565	1,612	5.1	3.0
Alcoholic beverages .....	275	306	271	289	269	-0.5	-6.9
Tobacco products and smoking supplies .....	228	219	230	232	242	1.5	4.3
Housing, total .....	6,674	7,087	7,292	7,589	8,079	4.9	6.7
Shelter .....	3,489	3,833	3,979	4,154	4,493	6.5	8.2
Fuels, utilities, and public services .....	1,638	1,648	1,645	1,671	1,747	1.6	4.5
Household operations and furnishings .....	1,241	1,282	1,352	1,403	1,477	4.4	5.3
Housekeeping supplies .....	307	325	316	341	361	4.1	5.9
Apparel and services .....	1,319	1,420	1,346	1,446	1,489	3.1	3.0
Transportation, total .....	4,304	4,587	4,842	4,600	5,093	4.3	10.7
Vehicles .....	1,813	2,043	2,338	2,022	2,361	6.8	16.8
Gasoline and motor oil .....	1,058	1,035	915	888	932	-3.1	5.0
Other transportation .....	1,433	1,509	1,590	1,690	1,800	5.9	6.5
Health care .....	1,049	1,108	1,135	1,135	1,298	5.5	14.4
Life insurance .....	300	278	292	294	314	1.1	6.8
Pensions and Social Security .....	1,598	1,738	1,834	1,881	1,935	4.9	2.9
Other expenditures .....	2,936	3,269	3,174	3,305	3,426	3.9	3.7

- Represents or rounds to zero. <sup>1</sup> Includes other items not shown separately. <sup>2</sup> Includes other vehicles and public transportation. <sup>3</sup> Includes entertainment, personal care, reading, education, cash contributions, and miscellaneous expenditures. For data on entertainment and reading, see table 393.

**No. 720. Average Annual Expenditures of All Consumer Units for Selected Metropolitan Statistical Areas: 1988**

[In dollars. Metropolitan areas defined June 30, 1983. CMSA=Consolidated Metropolitan Statistical Area; MSA=Metropolitan Statistical Area; PMSA=Primary Metropolitan Statistical Area. See text, section 1 and Appendix II. Based on Consumer Expenditure Survey, integrated data from the interview and Diary surveys, see headnote, table 719]

METROPOLITAN STATISTICAL AREA	Total expenditures	Food	HOUSING		Apparel and services	TRANSPORTATION			Health care
			Total <sup>1</sup>	Shelter		Total <sup>1</sup>	Vehicle purchases	Gasoline and motor oil	
Anchorage, AK MSA .....	35,623	4,323	12,123	8,614	1,941	6,107	2,216	1,073	1,139
Atlanta, GA MSA .....	28,478	3,472	9,462	5,876	1,827	5,578	2,608	1,023	1,284
Baltimore, MD MSA .....	25,689	4,192	8,027	4,658	1,610	4,930	2,386	754	1,093
Boston-Lawrence-Salem, MA-NH CMSA .....	29,402	3,973	9,861	6,473	1,968	5,966	3,098	862	907
Buffalo-Niagara Falls, NY CMSA .....	20,047	3,956	6,087	3,252	1,326	4,048	1,995	676	864
Chicago-Gary-Lake County, IL-IN-WI CMSA .....	29,444	4,389	9,544	5,269	1,989	5,391	2,376	876	1,274
Cincinnati-Hamilton, OH-KY-IN CMSA .....	25,302	4,097	7,634	3,775	1,555	5,058	2,367	879	1,062
Cleveland-Akron-Lorain, OH CMSA .....	27,732	4,012	7,462	3,610	1,782	6,084	2,960	941	1,225
Dallas-Fort Worth, TX CMSA .....	30,738	4,006	8,953	4,952	2,065	6,384	3,061	1,145	1,874
Detroit-Ann Arbor, MI CMSA .....	26,755	3,865	8,372	4,609	2,034	5,594	2,529	999	1,031
Honolulu, HI MSA .....	32,164	5,126	9,386	6,196	1,927	6,023	2,730	856	1,115
Houston-Galveston-Brasoria, TX CMSA .....	29,903	4,279	9,197	5,143	1,908	4,964	1,733	1,206	1,436
Kansas City, MO-KS MSA .....	28,076	3,645	8,489	4,718	1,464	5,696	2,769	940	1,345
Los Angeles-Long Beach, CA PMSA .....	30,187	4,224	10,875	6,888	1,695	5,128	1,898	984	1,182
Miami-Fort Lauderdale, FL CMSA .....	28,966	4,872	9,277	5,893	1,399	6,200	3,088	900	1,401
Milwaukee, WI PMSA .....	25,012	3,982	8,488	5,111	1,593	4,343	2,035	757	1,134
Minneapolis-St. Paul, MN-WI MSA .....	27,432	3,752	9,227	5,640	1,826	5,063	2,190	937	1,009
New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA .....	29,489	4,484	10,191	6,023	2,270	4,677	1,736	731	1,406
Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA .....	27,672	4,262	8,942	5,156	1,865	4,700	1,986	791	1,056
Pittsburgh-Beaver Valley, PA CMSA .....	22,136	3,403	6,694	3,335	1,366	4,582	2,256	747	1,058
Portland-Vancouver, OR-WA CMSA .....	24,431	3,939	7,961	4,890	1,197	4,231	1,700	770	1,276
San Diego, CA MSA .....	31,149	3,952	10,493	6,642	1,956	5,985	2,787	1,028	1,104
San Francisco-Oakland-San Jose, CA CMSA .....	32,192	4,422	11,174	7,629	1,813	5,600	2,197	888	1,071
Seattle-Tacoma, WA CMSA .....	29,170	4,234	8,898	5,043	1,496	5,258	2,188	940	1,171
St. Louis, MO-IL MSA .....	25,179	3,757	7,584	3,851	1,494	4,590	2,019	896	1,309
Washington, DC-MD-VA MSA .....	36,255	4,388	12,069	7,488	2,102	6,751	3,443	882	1,365

<sup>1</sup> Includes other items not shown separately.

Sources of tables 719 and 720: U.S. Bureau of Labor Statistics, *Consumer Expenditures in 1988*. (BLS News Release, U.S.D.L.: 90-96.)

**No. 721. Money Income of Households—Percent Distribution, by Income Level in Constant (1989) Dollars, by Race and Hispanic Origin of Householder: 1970 to 1989**

[Households as of March of following year. Based on Current Population Survey; see text, sections 1 and 14, and Appendix III. Hispanic persons may be of any race. For definitions of household and race, see text, section 1. For definition of median, see Guide to Tabular Presentation]

RACE AND HISPANIC ORIGIN OF HOUSEHOLDER AND YEAR	Number of house- holds (1,000)	PERCENT DISTRIBUTION, BY INCOME LEVEL							Median income (dol.)
		Under \$10,000	\$10,000- \$14,999	\$15,000- \$24,999	\$25,000- \$34,999	\$35,000- \$49,999	\$50,000- \$74,999	\$75,000 and over	
ALL HOUSEHOLDS <sup>1</sup>									
1970	64,778	16.8	8.9	18.7	19.2	19.6	12.0	4.8	27,913
1975	72,867	16.8	10.4	19.1	17.7	18.7	12.5	4.8	27,197
1980	82,368	17.4	10.1	19.8	17.0	18.2	12.2	5.4	26,651
1985 <sup>2</sup>	88,458	17.2	10.2	19.0	16.3	17.2	13.3	6.8	27,218
1986	89,479	16.7	9.9	18.5	15.6	17.7	13.8	7.7	28,168
1987 <sup>3</sup>	91,124	16.5	9.7	18.2	15.7	17.5	14.2	8.1	28,447
1988	92,830	16.2	9.9	17.9	15.9	17.4	14.3	8.4	28,537
1989	93,347	15.6	9.7	17.9	15.9	17.3	14.5	9.0	28,906
WHITE									
1970	57,575	15.4	8.4	18.2	19.6	20.5	12.7	5.2	29,073
1975	64,392	15.1	10.1	18.8	18.1	19.5	13.3	5.2	28,442
1980	71,872	15.4	9.7	19.7	17.4	19.1	12.9	5.9	28,117
1985 <sup>2</sup>	76,576	15.3	9.8	18.9	16.6	18.0	14.1	7.4	28,704
1986	77,284	14.7	9.5	18.3	16.0	18.4	14.7	8.3	29,614
1987 <sup>3</sup>	78,519	14.3	9.4	18.0	16.2	18.3	15.1	8.7	29,972
1988	79,734	14.0	9.5	17.8	16.4	18.2	15.2	9.0	30,168
1989	80,163	13.6	9.4	17.8	16.2	18.1	15.2	9.6	30,406
BLACK									
1970	6,180	30.0	13.3	23.0	15.0	11.8	5.7	1.2	17,696
1975	7,489	31.8	13.7	21.3	14.9	11.7	5.6	1.0	17,074
1980	8,847	33.3	13.8	20.8	13.9	11.1	5.8	1.3	16,196
1985 <sup>2</sup>	9,797	32.4	13.5	20.3	13.6	11.1	7.1	1.9	17,078
1986	9,922	32.8	12.9	19.5	13.0	12.5	6.6	2.8	17,061
1987 <sup>3</sup>	10,192	33.2	12.4	20.4	12.6	11.3	7.1	2.9	17,107
1988	10,561	32.7	12.9	18.8	12.7	11.8	8.0	3.1	17,198
1989	10,486	31.3	11.9	19.6	13.8	12.0	8.5	3.0	18,083
HISPANIC									
1975	2,948	21.8	14.6	24.5	17.7	14.0	5.8	1.7	20,432
1980	3,906	22.2	13.8	23.8	16.3	14.7	6.9	2.3	20,543
1985 <sup>2</sup>	5,213	24.5	14.4	21.0	16.3	13.0	8.2	2.5	20,127
1986	5,418	23.2	13.9	21.4	15.3	14.1	8.9	3.2	20,763
1987 <sup>3</sup>	5,642	23.7	13.1	21.8	15.2	13.8	8.4	4.0	21,106
1988	5,910	22.6	13.6	21.0	16.1	14.6	8.2	3.9	21,340
1989	5,933	21.5	12.3	21.9	15.8	14.7	9.6	4.2	21,921

<sup>1</sup> Includes other races not shown separately. <sup>2</sup> Beginning 1985, based on revised Hispanic population controls; data not directly comparable with prior years. <sup>3</sup> Beginning 1987, based on revised processing procedures; data not directly comparable with prior years. See text, section 14, and source.

**No. 722. Money Income of Households—Median Household Income in Current and Constant (1989) Dollars, by Race and Hispanic Origin of Householder: 1970 to 1989**

[See headnote, table 721. Minus sign (-) indicates decrease. For definition of median, see Guide to Tabular Presentation]

YEAR	MEDIAN INCOME IN CURRENT DOLLARS (dol.)				MEDIAN INCOME IN CONSTANT (1989) DOLLARS (dol.)				ANNUAL PERCENT CHANGE OF MEDIAN INCOME OF ALL HOUSEHOLDS	
	All households <sup>1</sup>	White	Black	Hispanic <sup>2</sup>	All households <sup>1</sup>	White	Black	Hispanic <sup>2</sup>	Current dollars	Constant (1989) dollars
1970	8,734	9,097	5,537	(NA)	27,913	29,073	17,696	(NA)	<sup>3</sup> 6.9	<sup>3</sup> 1.7
1975	11,800	12,340	7,408	8,865	27,197	28,442	17,074	20,432	6.2	-0.5
1976	12,686	13,289	7,902	9,589	27,646	28,960	17,221	20,853	7.5	1.7
1977	13,572	14,272	8,422	10,647	27,771	29,203	17,233	21,786	7.0	0.5
1978	15,064	15,660	9,411	11,803	28,649	29,783	17,898	22,447	11.0	3.2
1979	16,461	17,259	10,133	13,042	28,115	29,478	17,307	22,276	9.3	-1.9
1980	17,710	18,684	10,764	13,651	26,651	28,117	16,198	20,543	7.6	-5.2
1981	19,074	20,153	11,309	15,300	26,020	27,491	15,427	20,871	7.7	-2.4
1982	20,171	21,117	11,968	15,178	25,919	27,135	15,379	19,503	5.8	-0.4
1983 <sup>4</sup>	21,018	22,035	12,473	15,794	26,167	27,433	15,529	19,663	4.2	1.0
1984	22,415	23,847	13,471	16,992	26,751	28,222	16,077	20,279	6.6	2.2
1985	23,618	24,908	14,819	17,465	27,218	28,704	17,078	20,127	5.4	1.7
1986	24,897	26,175	15,080	18,352	28,168	29,614	17,061	20,763	5.4	3.5
1987 <sup>5</sup>	26,081	27,458	15,672	19,336	28,447	29,972	17,107	21,106	4.7	1.0
1988	27,225	28,781	16,407	20,359	28,537	30,168	17,198	21,340	4.5	0.3
1989	28,906	30,406	18,083	21,921	28,908	30,406	18,083	21,921	6.2	1.3

NA Not available. <sup>1</sup> Includes other races not shown separately. <sup>2</sup> Hispanic persons may be of any race. <sup>3</sup> Change from 1967. <sup>4</sup> Beginning 1983, data based on revised Hispanic population controls; data not directly comparable with prior years. <sup>5</sup> Beginning 1987, based on revised processing procedures; data not directly comparable with prior years. See text, section 14, and source.

Source of tables 721 and 722: U.S. Bureau of the Census, *Current Population Reports*, series P-60, No. 168, and unpublished data.

### No. 723. Money Income of Households—Percent Distribution, by Money Income Level and Selected Characteristics: 1988 and 1989

[Households as of March of following year. For definition of median, see Guide to Tabular Presentation. For composition of regions, see fig. 1, inside front cover]

CHARACTERISTIC	Number of households (1,000)	PERCENT DISTRIBUTION OF HOUSEHOLDS BY INCOME LEVEL								Median income (dollars)
		Under \$5,000	\$5,000-\$9,999	\$10,000-\$14,999	\$15,000-\$24,999	\$25,000-\$34,999	\$35,000-\$49,999	\$50,000-\$74,999	\$75,000 and over	
1988										
Total <sup>1</sup> . . . . .	92,830	6.2	10.8	10.3	18.6	16.0	17.3	13.4	7.4	27,225
White . . . . .	79,734	5.0	9.8	9.8	18.6	16.5	18.1	14.2	7.9	28,781
Black . . . . .	10,561	15.4	18.4	13.1	19.4	12.5	11.4	7.3	2.6	16,407
Hispanic <sup>2</sup> . . . . .	5,910	9.9	13.6	13.7	22.1	15.5	14.3	7.3	3.5	20,359
Family households . . . . .	65,837	3.8	6.6	8.7	17.7	16.9	20.2	16.7	9.3	32,491
Married-couple families . . . . .	52,100	1.5	4.2	7.4	16.8	17.5	22.2	19.4	11.1	36,436
Male householder . . . . .	2,847	4.6	6.4	10.4	21.4	17.7	22.0	12.0	5.4	28,642
Female householder <sup>3</sup> . . . . .	10,890	14.7	18.2	14.4	21.2	14.0	10.3	5.3	2.0	16,051
Nonfamily households . . . . .	26,994	11.9	21.0	14.0	20.9	13.8	10.2	5.4	2.7	16,148
Male householder . . . . .	11,874	9.0	14.6	12.4	21.6	16.4	13.9	7.7	4.4	20,999
Female householder . . . . .	15,120	14.3	26.1	15.3	20.4	11.7	7.2	3.5	1.5	12,877
1989										
Total <sup>1</sup> . . . . .	93,347	5.3	10.3	9.7	17.9	15.9	17.3	14.5	9.0	28,906
Age of householder:										
15-24 years . . . . .	5,121	12.1	13.7	13.5	26.5	17.6	11.2	4.3	1.0	18,663
25-34 years . . . . .	20,472	4.5	6.7	8.3	20.5	19.9	21.0	13.9	5.2	29,823
35-44 years . . . . .	20,554	3.4	5.1	5.9	14.1	16.7	22.3	20.8	11.8	37,635
45-54 years . . . . .	14,514	4.0	4.6	5.8	12.2	14.0	19.9	21.7	17.9	41,523
55-64 years . . . . .	12,529	5.7	8.6	9.4	16.7	15.5	16.9	15.4	11.8	30,819
65 years and over . . . . .	20,156	7.1	23.6	17.1	22.0	12.2	8.6	5.6	3.9	15,771
White . . . . .	80,163	4.2	9.4	9.4	17.8	16.2	18.1	15.2	9.7	30,406
Black . . . . .	10,486	14.1	17.2	11.9	19.6	13.8	12.0	8.5	2.9	18,083
Hispanic <sup>2</sup> . . . . .	5,933	8.1	13.4	12.2	21.9	15.8	14.7	9.7	4.2	21,921
Northeast . . . . .	19,127	4.3	9.9	8.4	15.9	14.4	17.6	17.2	12.4	32,643
Midwest . . . . .	22,760	5.2	10.3	9.4	18.1	16.6	18.5	14.5	7.4	28,750
South . . . . .	32,262	7.0	11.4	11.1	18.9	16.1	15.9	12.3	7.3	25,870
West . . . . .	19,197	3.7	8.9	9.0	18.3	16.2	18.1	15.5	10.4	31,086
Size of household:										
One person . . . . .	22,999	11.4	23.6	15.4	21.8	13.3	8.9	3.7	1.9	14,829
Two persons . . . . .	30,114	3.6	7.2	10.1	20.0	17.6	18.3	14.4	8.9	29,862
Three persons . . . . .	16,128	3.7	5.7	6.6	15.2	16.6	21.1	19.2	11.9	36,277
Four persons . . . . .	14,456	2.7	4.1	5.3	12.3	16.0	22.7	22.8	14.0	40,744
Five persons . . . . .	6,213	2.4	4.7	5.9	14.5	15.8	22.0	21.1	13.6	39,281
Six persons . . . . .	2,143	3.6	6.1	7.3	17.5	15.0	17.4	18.7	14.3	35,304
Seven persons or more . . . . .	1,295	3.8	6.3	8.4	18.3	15.4	15.6	18.7	13.3	32,644
Family households . . . . .	66,090	3.4	6.1	7.9	16.6	16.5	20.0	18.0	11.5	34,633
Married-couple families . . . . .	52,317	1.4	3.8	6.6	15.4	16.8	21.8	20.6	13.6	38,664
Male householder . . . . .	2,884	3.5	7.1	8.1	20.7	18.7	19.2	14.7	8.0	30,336
Female householder <sup>3</sup> . . . . .	10,890	13.1	16.8	14.3	21.2	14.6	11.2	6.4	2.5	17,383
Nonfamily households . . . . .	27,257	10.0	20.5	14.0	21.2	14.4	11.0	6.0	2.9	17,115
Male householder . . . . .	11,606	7.3	13.5	12.0	21.8	16.9	15.1	8.7	4.7	22,423
Female householder . . . . .	15,651	12.0	25.8	15.4	20.8	12.5	7.9	4.0	1.5	13,755
Education attainment of householder: <sup>4</sup>										
Elementary school, 8 years or less . . . . .	10,695	13.4	26.9	16.2	20.8	10.5	7.3	3.6	1.3	12,696
High school . . . . .	41,318	5.4	11.4	11.7	20.3	17.7	17.4	11.9	4.3	25,608
1-3 years . . . . .	10,091	9.7	17.9	15.0	21.9	14.7	11.7	6.9	2.2	17,767
4 years . . . . .	31,227	4.0	9.3	10.6	19.8	18.6	19.2	13.5	5.0	28,060
College . . . . .	36,214	1.9	3.7	5.0	13.2	15.2	21.1	22.1	17.7	42,153
1-3 years . . . . .	15,842	2.6	5.8	6.9	16.8	17.7	22.3	18.9	8.9	35,083
4 years or more . . . . .	20,372	1.4	2.1	3.5	10.4	13.3	20.3	24.5	24.5	49,180
Tenure:										
Owner occupied . . . . .	59,846	2.9	7.3	8.0	15.5	15.5	19.9	18.4	12.5	35,481
Renter occupied . . . . .	31,895	9.4	15.4	12.7	22.3	16.7	13.0	7.7	2.8	20,302
Occupier paid no cash rent . . . . .	1,606	14.3	21.8	12.1	22.0	14.8	8.2	5.2	1.7	15,829

<sup>1</sup> Includes other races not shown separately. <sup>2</sup> Hispanic persons may be of any race. <sup>3</sup> No spouse present. <sup>4</sup> 25 years old and over.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, Nos. 166 and 168, and unpublished data.

### No. 724. Money Income of Households—Aggregate and Mean Income, by Race and Hispanic Origin of Householder: 1989

[As of March 1990. See headnote, table 721. For number of households by characteristic, see table 62. For definition of mean, see Guide to Tabular Presentation]

CHARACTERISTIC	ALL RACES <sup>1</sup>		WHITE		BLACK		HISPANIC <sup>2</sup>	
	Aggregate money income (bil.dol.)	Mean income (dol.)	Aggregate money income (bil.dol.)	Mean income (dol.)	Aggregate money income (bil.dol.)	Mean income (dol.)	Aggregate money income (bil.dol.)	Mean income (dol.)
<b>Total</b> .....	<b>3,409.0</b>	<b>36,520</b>	<b>3,049.5</b>	<b>38,041</b>	<b>251.6</b>	<b>23,995</b>	<b>166.1</b>	<b>27,992</b>
Age of householder:								
15 to 24 years old .....	110.4	21,566	96.5	22,848	9.7	13,724	10.0	18,508
25 to 34 years old .....	693.4	33,873	609.6	35,575	58.5	22,268	45.8	26,622
35 to 44 years old .....	906.6	44,109	799.7	45,972	75.0	30,528	43.8	31,186
45 to 54 years old .....	723.3	49,832	647.5	52,199	50.5	31,415	32.0	34,422
55 to 64 years old .....	502.6	40,112	458.8	42,237	32.4	23,220	21.3	32,110
65 years old and over .....	472.7	23,452	437.5	24,112	25.6	15,108	13.1	19,492
Region:								
Northeast .....	786.4	41,113	713.2	42,522	52.0	27,885	28.9	27,833
Midwest .....	801.5	35,217	740.1	36,389	49.2	23,533	12.0	30,266
South .....	1,072.1	33,230	932.8	35,666	122.3	21,762	49.7	25,437
West .....	749.1	39,020	663.3	39,257	28.0	30,907	75.5	29,662
Size of household:								
One person .....	467.0	20,306	417.4	20,997	38.6	14,789	14.2	16,535
Two persons .....	1,131.7	37,581	1,043.5	39,062	64.4	23,675	33.8	26,174
Three persons .....	689.0	42,723	612.6	45,096	54.3	26,564	33.4	29,352
Four persons .....	685.7	47,436	610.9	49,306	48.5	31,262	36.8	31,364
Five persons .....	286.0	46,036	246.6	48,314	26.9	31,309	24.2	32,194
Six persons .....	95.7	44,644	78.8	48,785	10.7	26,050	11.9	30,838
Seven persons or more .....	53.9	41,624	39.7	45,254	8.3	28,314	11.8	35,022

<sup>1</sup> Includes other races not shown separately. <sup>2</sup> Hispanic persons may be of any race.

### No. 725. Household Type, by Median Income and Income Level: 1988

[Households as of March 1989. See headnote, table 721]

ITEM	All households	FAMILY HOUSEHOLDS				NONFAMILY HOUSEHOLDS		
		Total	Married couple	Male householder, wife absent	Female householder, husband absent	Total	Single-person household	
							Male householder	Female householder
<b>MEDIAN INCOME (dol.)</b>								
<b>All households</b> .....	<b>27,225</b>	<b>32,491</b>	<b>36,436</b>	<b>28,642</b>	<b>16,051</b>	<b>16,148</b>	<b>18,284</b>	<b>11,622</b>
White .....	28,781	34,222	36,883	30,889	18,685	16,932	19,584	12,115
Black .....	16,407	19,823	30,424	19,501	10,995	9,826	10,859	7,107
Hispanic <sup>1</sup> .....	20,359	22,157	25,769	23,656	11,321	12,889	12,654	7,495
<b>NUMBER (1,000)</b>								
<b>All households</b> .....	<b>92,830</b>	<b>65,837</b>	<b>52,100</b>	<b>2,847</b>	<b>10,890</b>	<b>26,994</b>	<b>9,193</b>	<b>13,515</b>
Under \$5,000 .....	5,737	2,512	785	132	1,596	3,225	983	2,126
\$5,000-\$9,999 .....	10,006	4,332	2,165	183	1,984	5,674	1,605	3,822
\$10,000-\$14,999 .....	9,516	5,723	3,862	297	1,564	3,792	1,222	2,197
\$15,000-\$19,999 .....	9,126	5,938	4,328	321	1,288	3,188	1,140	1,627
\$20,000-\$24,999 .....	8,184	5,727	4,420	287	1,020	2,457	927	1,153
\$25,000-\$34,999 .....	14,875	11,152	9,127	505	1,520	3,723	1,466	1,463
\$35,000-\$49,999 .....	16,052	13,306	11,556	626	1,124	2,746	1,106	723
\$50,000 and over .....	19,332	17,146	15,855	496	794	2,188	740	404

<sup>1</sup> Hispanic persons may be of any race.

Source of tables 724 and 725: U.S. Bureau of the Census, *Current Population Reports*, series P-60, No. 166.

### No. 726. Money Income of Households—Mean After-Tax Household Income in Constant (1987) Dollars, by Selected Characteristics: 1980 to 1987

[In dollars, except percent. Households as of March of following year. Estimates of after-tax income were derived from tax simulation procedures based on a "statistical" combination of data from the Internal Revenue Service, summaries of State individual income tax regulations, data on the characteristics of persons paying FICA payroll taxes from the Social Security Administration, property tax information from the Annual Housing Survey, and the March Current Population Survey microdata file. For additional information on methodology, see source. For composition of regions, see fig. 1, inside front cover.]

CHARACTERISTIC	AFTER-TAX HOUSEHOLD INCOME						AVERAGE ANNUAL PERCENT CHANGE				
	1980	1983	1984	1985	1986	1987	1980-1987	1983-1984	1984-1985	1985-1986	1986-1987
All households . . . . .	22,442	22,982	23,594	23,924	24,547	24,857	1.5	2.7	1.4	2.8	1.3
Age of householder:											
Under 65 years . . . . .	24,327	24,628	25,278	25,738	26,467	26,915	1.5	2.6	1.8	2.8	1.7
65 years old and over . . . . .	15,145	16,752	17,226	17,113	17,425	17,284	1.9	2.8	-0.7	1.8	-0.8
Race and Hispanic origin:											
White . . . . .	23,242	23,851	24,476	24,810	25,467	25,816	1.5	2.6	1.4	2.6	1.4
Black . . . . .	15,792	15,865	16,192	16,681	16,996	17,011	1.1	3.4	3.0	1.9	0.1
Hispanic . . . . .	18,668	18,305	18,993	18,932	19,504	20,077	1.0	3.8	-0.3	3.0	2.9
Region:											
Northeast . . . . .	22,409	23,352	24,072	24,983	25,645	25,919	2.1	3.1	3.8	2.8	1.1
Midwest . . . . .	22,670	22,526	22,829	23,147	23,831	24,045	0.8	1.3	1.4	3.0	0.9
South . . . . .	21,511	22,340	22,923	22,784	23,443	23,773	1.4	2.6	-0.6	2.9	1.4
West . . . . .	23,748	24,256	25,207	25,725	26,146	26,562	1.6	3.9	2.1	1.6	1.6
Type of family:											
Married couples with children <sup>2</sup> . . . . .	28,298	28,348	29,365	29,992	31,060	31,981	1.8	3.6	2.1	3.8	3.0
Married couples without children . . . . .	26,704	26,126	26,944	29,276	30,214	30,132	1.7	2.9	1.1	3.2	-0.3
Female householders with related children <sup>3</sup> . . . . .	13,641	12,910	13,395	13,832	13,613	14,424	0.8	3.8	3.3	1.6	6.0

<sup>1</sup> Hispanic persons may be of any race. <sup>2</sup> Related children under 18 years old. <sup>3</sup> No husband present.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-23, No. 157, and unpublished data.

### No. 727. Number of Households Paying Taxes and Amount of Taxes, by Type of Tax and Before-Tax Money Income: 1987

[Households as March 1987. See headnote, table 721.]

TYPE OF TAX	Unit	BEFORE TAX MONEY INCOME								
		Total	Under \$10,000	\$10,000-\$14,999	\$15,000-\$19,999	\$20,000-\$24,999	\$25,000-\$34,999	\$35,000-\$49,999	\$50,000-\$74,999	\$75,000 and over
All households . . . . .	1,000 . .	91,066	16,717	9,858	9,136	8,405	14,664	15,677	11,109	5,700
Households paying—										
One or more taxes <sup>1</sup> . . . . .	1,000 . .	84,439	10,981	8,983	8,963	8,375	14,656	15,674	11,108	5,897
Federal income taxes . . . . .	1,000 . .	68,770	2,008	4,971	7,163	7,774	14,423	15,628	11,108	5,694
State income taxes . . . . .	1,000 . .	60,418	3,067	5,106	6,462	6,452	12,120	12,656	9,505	4,851
FICA payroll taxes . . . . .	1,000 . .	68,236	6,059	6,027	6,548	6,776	12,636	14,307	10,432	5,451
Federal retirement taxes . . . . .	1,000 . .	3,357	78	113	200	227	633	922	893	352
Property taxes . . . . .	1,000 . .	56,367	6,413	4,716	4,912	4,897	9,549	11,618	9,225	5,037
Taxes paid . . . . .	Bil. dol..	666.3	6.3	12.4	20.3	28.7	79.9	139.5	168.6	210.7
Percent of taxes paid:										
Federal income taxes . . . . .	Percent.	54.2	9.2	24.7	36.8	40.8	45.2	48.9	54.4	67.6
State income taxes . . . . .	Percent.	14.8	4.7	8.8	11.5	12.6	14.1	14.7	15.1	16.0
FICA payroll taxes . . . . .	Percent.	22.0	35.1	35.6	34.2	32.9	29.7	27.0	22.1	11.8
Federal retirement taxes . . . . .	Percent.	1.1	0.4	0.6	0.9	1.0	1.5	1.5	1.4	0.6
Property taxes . . . . .	Percent.	7.9	52.5	30.3	16.5	12.6	9.5	7.9	7.0	3.9
Average tax paid <sup>2</sup> . . . . .	Dollars.	7,891	578	1,377	2,265	3,423	5,450	8,900	15,175	36,980
Federal income taxes . . . . .	Dollars.	5,252	289	615	1,043	1,506	2,500	4,361	8,255	25,018
State income taxes . . . . .	Dollars.	1,627	97	214	382	562	930	1,595	2,682	6,839
FICA payroll taxes . . . . .	Dollars.	2,148	346	790	1,062	1,391	1,879	2,637	3,572	4,579
Federal retirement taxes . . . . .	Dollars.	2,249	358	691	932	1,307	1,922	2,278	2,836	3,643
Property taxes . . . . .	Dollars.	935	519	794	683	736	784	949	1,275	1,649

<sup>1</sup> Figures will not add as more than one type of tax may be reported for each household. <sup>2</sup> Based on households paying taxes.

Source: U.S. Bureau of the Census, unpublished data.



**No. 728. Households with Discretionary Income—Selected Income Measures: 1986**

[Households as of March 1987 and income figures are for the preceding year, expressed in 1986 dollars. Discretionary income is the amount of money which would permit a household to maintain a living standard comfortably higher (30 percent or more) than the average for similar households. For methodology, see source.]

CHARACTERISTIC	ALL HOUSEHOLDS		HOUSEHOLDS WITH DISCRETIONARY INCOME					
	Number (1,000)	Aggregate income after taxes (bil. dol.)	Households		Average income		Spendable discretionary income	
			Number (1,000)	Percent of all house- holds	Before taxes (dol.)	After taxes (dol.)	Aggregate income (bil. dol.)	Average income (dol.)
<b>Total</b>	<b>89,479</b>	<b>2,165.1</b>	<b>25,869</b>	<b>28.9</b>	<b>56,605</b>	<b>41,940</b>	<b>319.0</b>	<b>12,332</b>
<b>Age of householder:</b>								
15-24 years old	5,197	78.0	972	18.7	38,241	30,124	7.6	7,790
25-29 years old	9,652	205.9	2,646	27.4	48,547	36,618	24.2	9,130
30-34 years old	10,850	264.3	3,419	31.5	54,243	40,067	37.3	10,919
35-39 years old	10,155	280.2	3,349	33.0	60,049	43,585	41.5	12,405
40-44 years old	8,549	259.1	2,605	30.5	66,133	47,891	36.5	13,999
45-49 years old	6,888	218.3	2,299	33.4	69,412	49,968	33.2	14,448
50-54 years old	6,323	193.0	2,008	31.8	68,181	49,079	27.2	13,550
55-59 years old	6,443	178.5	2,252	35.0	61,480	44,906	32.8	14,584
60-64 years old	6,424	157.8	1,848	28.8	61,001	44,262	26.5	14,356
65-69 years old	6,086	125.3	1,523	25.0	50,447	38,968	19.7	12,921
70-years old and over	12,912	204.6	2,946	22.8	39,117	32,344	32.5	11,015
<b>Race and Hispanic origin of householder:</b>								
White	77,284	1,940.8	23,927	31.0	56,786	42,040	298.9	12,491
Black	12,195	224.3	1,942	15.9	54,368	40,713	20.2	10,374
Hispanic <sup>1</sup>	5,418	103.5	761	14.1	54,245	41,505	7.0	9,174
<b>Divisions:</b>								
New England	4,793	132.5	1,624	33.9	59,570	44,607	21.8	13,432
Middle Atlantic	14,080	349.6	3,738	26.5	61,168	43,871	47.3	12,667
East North Central	15,378	370.0	4,487	29.2	53,700	40,486	50.8	11,311
West North Central	6,595	147.6	1,814	27.5	51,771	38,231	18.5	10,211
South Atlantic	15,465	371.8	4,657	30.1	55,701	41,468	60.3	12,946
East South Central	5,556	107.4	1,426	25.7	47,661	36,351	15.9	11,119
West South Central	9,599	224.5	2,782	29.0	56,203	42,711	37.9	13,615
Mountain	4,844	114.3	1,320	27.2	55,762	41,261	16.2	12,293
Pacific	13,170	347.3	4,022	30.5	61,360	44,486	50.3	12,520
<b>Size of household:</b>								
One person	21,128	277.2	5,640	26.7	34,224	25,424	48.8	8,655
Two persons	26,602	705.4	8,643	30.9	57,587	42,626	115.6	13,077
Three persons	16,159	453.0	4,781	29.6	64,464	47,365	65.8	13,758
Four persons	13,984	431.5	3,970	28.4	68,520	50,595	51.5	12,981
Five persons	6,162	183.1	1,726	28.0	68,612	51,550	23.8	13,805
Six persons or more	3,443	104.9	909	26.4	69,742	53,168	13.4	14,781
<b>Educational attainment of householder:</b>								
Less than 12 years	23,012	355.1	2,604	11.3	43,783	34,508	21.9	8,416
12 years	32,023	718.5	7,850	24.5	48,448	37,296	70.6	8,999
College: total	34,445	1,091.8	15,414	44.8	62,925	45,561	226.5	14,692
1 to 3 years	15,456	402.5	5,051	32.7	54,253	40,904	56.7	11,226
4 years	10,408	350.6	5,249	50.4	63,043	45,427	76.4	14,559
5 years or more	8,581	338.4	5,115	59.6	71,369	50,298	93.3	18,250
<b>Number of earners:</b>								
No earners	19,038	236.3	2,840	14.9	35,709	30,329	28.3	9,958
One earner	29,789	594.2	7,562	25.4	48,094	34,841	84.5	11,172
Two earners	30,707	925.6	11,220	36.5	60,391	44,346	138.1	12,309
Three earners or more	9,945	409.0	4,246	42.7	75,737	55,996	68.1	16,049
<b>Type of earners:</b>								
Husband working, wife not working	12,812	370.2	3,426	26.7	69,704	49,945	54.4	15,868
Husband and wife working	29,291	994.2	12,067	41.2	64,783	47,512	160.6	13,308
All other households	47,376	800.7	10,376	21.9	42,768	32,817	104.1	10,030
<b>Occupation:</b>								
Managerial and professional specialty	17,826	653.9	9,512	53.4	67,743	48,138	151.8	15,961
Technical sales and administrative support	15,767	425.4	5,210	33.0	57,570	41,963	62.6	12,021
Precision production, craft, repair, operators, fabricators, and laborers	21,553	533.6	5,551	25.8	49,874	38,029	47.3	8,519
Service, farming, forestry, and fishing	9,158	171.3	1,433	15.6	50,371	38,510	13.8	9,633
Nonworker or in the Armed Forces	25,175	380.9	4,163	16.5	41,066	34,146	43.5	10,444
<b>Household income:</b>								
Under \$15,000	26,984	205.8	197	0.7	13,855	13,213	0.2	1,014
\$15,000-\$19,999	9,303	142.5	694	7.5	17,570	16,108	1.6	2,304
\$20,000-\$24,999	8,617	164.5	1,011	11.7	22,558	19,303	3.5	3,438
\$25,000-\$29,999	7,733	175.6	1,662	21.5	27,460	22,733	6.2	3,737
\$30,000-\$34,999	7,078	186.4	2,248	31.8	32,327	26,323	10.6	4,700
\$35,000-\$39,999	6,089	182.0	2,278	37.4	37,453	29,990	13.3	5,841
\$40,000-\$49,999	8,667	302.8	4,807	55.5	44,767	35,190	32.4	6,746
\$50,000-\$74,999	10,085	455.6	8,146	80.8	60,163	45,618	93.8	11,493
\$75,000-\$99,999	2,938	180.5	2,885	100.0	84,785	61,466	65.8	22,618
\$100,000 and over	1,984	169.6	1,940	100.0	140,759	86,745	91.8	47,320

<sup>1</sup> Hispanic persons may be of any race.

Source: U.S. Bureau of the Census and the Conference Board, *A Marketer's Guide to Discretionary Income*, 1989.

### No. 729. Money Income of Families—Percent Distribution by Income Level in Constant (1989) Dollars, by Race and Hispanic Origin of Householder: 1970 to 1989

[Families as of March of following year. Beginning with 1980, based on household concept and restricted to primary families. For definition of race, family, and householder, see text, section 1. Based on Current Population Survey; see text, sections 1 and 14 and Appendix III. For definition of median, see Guide to Tabular Presentation. See also *Historical Statistics, Colonial Times to 1970*, series G 1-8, G 16-23, G 190-192, and G 197-199]

RACE AND HISPANIC ORIGIN OF HOUSEHOLDER AND YEAR	Number of families (1,000)	PERCENT DISTRIBUTION OF FAMILIES, BY INCOME LEVEL							Median income (dol.)
		Under \$10,000	\$10,000- \$14,999	\$15,000- \$24,999	\$25,000- \$34,999	\$35,000- \$49,999	\$50,000- \$74,999	\$75,000 and over	
ALL FAMILIES									
1970	52,227	9.7	7.8	18.8	21.3	22.7	14.1	5.5	31,534
1975	56,245	8.4	9.0	18.8	19.5	22.2	15.1	5.8	31,620
1980	60,309	10.2	8.6	18.1	18.5	21.7	15.1	6.7	31,637
1985 <sup>1</sup>	63,558	11.1	8.6	18.2	17.3	20.0	16.2	8.5	31,962
1986	64,491	10.5	8.4	17.5	16.6	20.4	16.9	9.7	33,328
1987 <sup>2</sup>	65,204	10.4	7.9	17.3	16.8	20.3	17.4	10.1	33,805
1988	65,837	10.1	8.3	16.9	16.6	20.0	17.6	10.3	33,742
1989	66,090	9.9	8.1	16.7	16.4	19.8	17.7	11.3	34,213
WHITE									
1970	46,535	8.3	7.2	18.2	21.8	23.7	14.8	6.0	32,713
1975	49,873	7.9	8.4	18.4	19.9	23.1	16.0	6.3	32,885
1980	52,710	8.3	7.9	18.9	19.0	22.7	16.0	7.3	32,962
1985 <sup>1</sup>	54,991	9.1	8.0	17.9	17.7	20.9	17.2	9.3	33,595
1986	55,676	8.4	7.8	17.2	17.0	21.2	18.0	10.3	34,857
1987 <sup>2</sup>	56,086	8.1	7.4	16.9	17.1	21.2	18.5	10.9	35,350
1988	56,492	8.0	7.6	16.6	17.1	21.0	18.7	11.1	35,549
1989	56,590	7.7	7.5	16.4	16.8	20.7	18.7	12.2	35,975
BLACK									
1970	4,928	23.0	13.6	24.8	17.2	13.5	6.7	1.3	20,067
1975	5,586	23.5	14.6	22.7	16.9	14.1	7.1	1.2	20,234
1980	6,317	25.9	14.4	21.6	15.4	13.6	7.5	1.7	19,073
1985 <sup>1</sup>	6,921	27.0	13.0	21.4	14.4	13.3	8.5	2.4	19,344
1986	7,096	26.6	13.1	19.4	14.4	14.8	8.5	3.5	19,917
1987 <sup>2</sup>	7,202	27.3	11.8	21.1	13.5	13.8	8.9	3.7	20,091
1988	7,409	26.4	13.3	19.1	13.5	13.5	10.3	4.0	20,260
1989	7,470	25.9	12.6	19.5	14.4	13.7	10.2	3.6	20,209
HISPANIC <sup>3</sup>									
1975	2,499	18.3	14.3	25.0	18.9	15.4	6.4	1.7	22,013
1980	3,235	18.3	13.8	24.4	17.7	15.9	7.4	2.5	22,145
1985 <sup>1</sup>	4,206	20.8	14.3	21.7	17.1	14.1	9.1	3.0	21,927
1986	4,403	19.9	14.1	21.5	16.4	15.0	9.6	3.6	22,622
1987 <sup>2</sup>	4,576	20.8	13.2	22.1	15.8	14.6	9.4	4.1	22,158
1988	4,823	19.3	13.6	21.0	17.0	15.6	9.4	4.0	22,818
1989	4,840	18.6	12.1	21.9	16.5	16.2	10.2	4.5	23,446

<sup>1</sup> Beginning 1985, data based on revised Hispanic population controls; data not directly comparable with prior years.

<sup>2</sup> Beginning 1987, based on revised processing procedures; data not directly comparable with prior years. See text, section 14, and source. <sup>3</sup> Hispanic persons may be of any race.

### No. 730. Money Income of Families—Median Family Income in Current and Constant (1989) Dollars, by Race and Hispanic Origin of Householder: 1960 to 1989

[See headline, table 729. For definition of median, see Guide to Tabular Presentation. Minus sign (-) indicates decrease]

YEAR	MEDIAN INCOME IN CURRENT DOLLARS (dol.)				MEDIAN INCOME IN CONSTANT (1989) DOLLARS (dol.)				ANNUAL PERCENT CHANGE OF MEDIAN INCOME OF ALL FAMILIES	
	All families	White	Black	Hispanic <sup>2</sup>	All families	White	Black	Hispanic <sup>2</sup>	Current dollars	Constant (1989) dollars
1960	5,620	5,835	<sup>3</sup> 3,230	(NA)	23,543	24,444	13,531	(NA)	<sup>4</sup> 4.9	<sup>4</sup> 2.9
1965	6,957	7,251	<sup>3</sup> 3,993	(NA)	27,366	28,544	15,718	(NA)	4.4	3.1
1970	9,867	10,236	6,279	(NA)	31,534	32,713	20,067	(NA)	7.2	2.9
1973	12,051	12,595	7,269	8,715	33,656	35,175	20,301	24,339	8.4	2.1
1974	12,902	13,408	8,006	9,540	32,451	33,724	20,137	23,996	7.1	-3.6
1975	13,719	14,268	8,779	9,551	31,620	32,885	20,234	22,013	6.3	-2.6
1976	14,958	15,537	9,242	10,259	32,597	33,859	20,141	22,357	9.0	3.1
1977	16,009	16,740	9,563	11,421	32,758	34,253	19,588	23,370	7.0	0.5
1978	17,640	18,368	10,879	12,566	33,548	34,933	20,590	23,899	10.2	2.4
1979	19,587	20,439	11,574	14,169	33,454	34,910	19,768	24,200	11.0	-0.3
1980	21,023	21,904	12,674	14,716	31,837	32,962	18,073	22,145	7.3	-5.4
1981	22,388	23,517	13,266	16,401	30,540	32,060	18,097	22,373	6.5	-3.5
1982	23,433	24,603	13,598	16,227	30,111	31,614	17,473	20,851	4.7	-1.4
1983 <sup>6</sup>	24,580	25,757	14,506	16,227	30,602	32,067	18,060	21,111	4.9	1.6
1984	26,433	27,686	15,432	18,833	31,547	33,042	18,416	22,475	7.5	3.1
1985	27,735	29,152	16,788	19,027	31,962	33,595	19,344	21,927	4.9	1.3
1986	29,458	30,809	17,604	19,995	33,328	34,857	19,917	22,622	6.2	4.3
1987 <sup>6</sup>	30,970	32,385	18,406	20,300	33,805	35,350	20,091	22,158	0.4	0.4
1988	32,191	33,815	19,329	21,768	33,742	35,549	20,260	22,818	3.9	-0.2
1989	34,213	35,975	20,209	23,446	34,213	35,975	20,209	23,446	6.3	1.4

NA Not available. <sup>1</sup> Includes other races not shown separately. <sup>2</sup> Hispanic persons may be of any race. <sup>3</sup> For 1960 and 1965, Black and other races. <sup>4</sup> Change from 1955. <sup>5</sup> Beginning 1983, data based on revised Hispanic population controls; data not directly comparable with prior years. <sup>6</sup> Beginning 1987, data based on revised processing procedures; data not directly comparable with prior years.

Source of tables 729 and 730: U.S. Bureau of the Census, *Current Population Reports*, series P-60, No. 168, and unpublished data.

**No. 731. Money Income of Families—Income at Selected Positions and Percent of Aggregate Income Received by Each Fifth and Top 5 Percent of Families: 1980 and 1989**

[Families as of March of following year. For composition of regions, see fig. 1, inside front cover. Based on Current Population Survey; see headnote, table 729. See also *Historical Statistics, Colonial Times to 1970*, series G 31-138]

ITEM	All families, 1980	1989						
		All families	RACE		REGION			
			White	Black	North-east	Midwest	South	West
Number (1,000) .....	60,309	66,090	56,590	7,470	13,494	16,059	23,244	13,293
INCOME AT SELECTED POSITIONS (dollars)								
Upper limit of each fifth:								
Lowest .....	10,286	16,003	17,938	7,888	18,744	16,896	13,832	17,364
Second .....	17,390	28,000	29,888	15,500	32,058	29,836	24,680	29,294
Third .....	24,830	40,800	42,450	26,054	46,825	40,512	37,000	42,000
Fourth .....	34,534	59,550	61,039	41,956	67,598	57,050	54,782	61,698
Top 5 percent .....	54,060	98,963	101,354	69,545	112,000	92,700	91,230	102,293
PERCENT DISTRIBUTION OF AGGREGATE INCOME								
Lowest fifth .....	5.1	4.6	5.0	3.4	4.6	4.9	4.3	4.9
Second fifth .....	11.6	10.6	11.0	8.8	10.7	11.4	10.1	10.7
Third fifth .....	17.5	16.5	16.6	15.4	16.6	17.0	16.2	16.4
Fourth fifth .....	24.3	23.7	23.4	25.2	23.7	23.8	23.9	23.4
Highest fifth .....	41.6	44.6	44.0	47.3	44.4	42.9	45.6	44.6
Top 5 percent .....	15.3	17.9	17.7	17.1	17.7	17.0	18.2	18.0

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, unpublished data.

**No. 732. Money Income of Families—Median Family Income, by Race and Hispanic Origin: 1989**

[Families as of March 1990. Based on Current Population Survey; see text, section 1, and Appendix III. For composition of regions, see fig. 1, inside front cover. For definition of median, see Guide to Tabular Presentation]

CHARACTERISTIC	NUMBER (1,000)				MEDIAN FAMILY INCOME (dollars)			
	All families	White	Black	Hispanic <sup>1</sup>	All families	White	Black	Hispanic <sup>1</sup>
All families .....	66,090	56,590	7,470	4,840	34,213	35,975	20,209	23,446
Region:								
Northeast .....	13,494	11,837	1,279	815	39,484	40,990	25,391	22,627
Midwest .....	16,059	14,370	1,448	330	34,613	35,789	18,301	26,359
South .....	23,244	18,746	4,147	1,596	30,499	32,939	19,029	20,520
West .....	13,293	11,638	598	2,101	35,696	36,144	25,670	25,511
Type of family:								
Married-couple families .....	52,317	46,981	3,750	3,395	38,547	39,208	30,650	27,362
Wife in paid labor force .....	30,188	26,829	2,400	1,763	45,266	45,803	37,787	34,821
Wife not in paid labor force .....	22,129	20,153	1,350	1,633	28,747	29,689	18,727	20,717
Male householder <sup>2</sup> .....	2,684	2,303	446	329	27,847	30,467	18,395	25,176
Female householder <sup>2</sup> .....	10,890	7,306	3,275	1,116	16,442	18,946	11,630	11,745
With related children <sup>3</sup> .....	34,279	27,977	5,031	3,314	33,458	35,892	18,489	21,766
Married couple .....	25,476	22,271	2,179	2,309	39,995	40,616	33,704	27,142
Male householder <sup>2</sup> .....	1,358	(NA)	(NA)	(NA)	24,750	(NA)	(NA)	(NA)
Female householder <sup>2</sup> .....	7,445	4,627	2,624	848	12,979	14,864	10,293	9,525
Number of earners:								
No earners .....	9,439	7,816	1,396	615	14,285	16,360	6,166	7,486
One earner .....	18,146	14,970	2,601	1,554	25,226	27,145	15,440	17,250
Two earners .....	29,235	25,737	2,609	1,860	40,658	41,429	32,171	29,420
Three earners .....	6,724	5,832	659	541	51,758	52,582	43,693	40,480
Four or more earners .....	2,546	2,236	205	271	65,722	66,890	53,258	46,858

NA Not available. <sup>1</sup> Hispanic persons may be of any race. <sup>2</sup> No spouse present. <sup>3</sup> Children under 18 years old.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, No. 168.

### No. 733. Money Income of Families—Percent Distribution by Income Level, by Race and Hispanic Origin of Householder, and Selected Characteristics: 1988 and 1989

[Families as of **March of following year**. See headnote, table 729. For definitions, see text, section 1. For definition of median, see Guide to Tabular Presentation. See *Historical Statistics, Colonial Times to 1970*, series G1-8 for U.S. data on total, White, Black, and other races. For composition of regions, see fig. 1, inside front cover]

RACE OF HOUSEHOLDER, PRESENCE OF CHILDREN, REGION AND YEAR	Number of families (1,000)	PERCENT DISTRIBUTION OF FAMILIES, BY INCOME LEVEL								Median income (dol.)
		Under \$5,000	\$5,000 to \$9,999	\$10,000 to \$14,999	\$15,000 to \$24,999	\$25,000 to \$34,999	\$35,000 to \$49,999	\$50,000 to \$74,999	\$75,000 and over	
1988										
All families <sup>1</sup> . . . . .	65,837	4.0	6.8	8.8	17.8	16.9	20.0	16.5	9.2	32,191
White . . . . .	56,492	3.0	5.5	8.1	17.7	17.4	21.0	17.6	9.8	33,915
Black . . . . .	7,409	11.9	15.4	13.6	19.7	13.4	13.3	9.3	3.3	19,329
Hispanic <sup>2</sup> . . . . .	4,823	8.4	11.9	13.6	22.2	16.5	15.5	8.3	3.6	21,769
Presence of related children under 18 years old:										
All families . . . . .	65,837	4.0	6.8	8.8	17.8	16.9	20.0	16.5	9.2	32,191
No children . . . . .	32,069	2.0	5.8	9.6	19.2	16.7	19.5	16.8	10.4	32,722
One or more children . . . . .	33,768	5.9	7.6	8.0	16.6	17.0	20.6	16.3	8.0	31,770
Married-couple families . . . . .	52,100	1.5	4.2	7.4	16.8	17.5	22.2	19.4	11.0	36,389
No children . . . . .	26,972	1.6	5.1	9.1	18.5	16.4	19.6	18.0	11.6	34,443
One or more children . . . . .	25,127	1.4	3.2	5.5	15.1	18.7	25.0	20.8	10.3	38,164
Female householder, no husband present . . . . .	10,890	15.6	18.9	14.6	21.6	13.5	9.5	4.7	1.7	15,346
No children . . . . .	3,531	4.3	11.3	12.8	23.4	18.3	17.1	9.4	3.4	24,225
One or more children . . . . .	7,359	21.0	22.5	15.5	20.7	11.2	5.8	2.4	0.9	11,865
1989										
All families <sup>1</sup> . . . . .	66,090	3.6	6.3	8.1	16.7	16.4	19.8	17.7	11.3	34,213
White, total . . . . .	56,590	2.6	5.1	7.5	16.4	16.8	20.7	18.7	12.2	35,975
Northeast . . . . .	11,837	2.3	4.3	6.4	13.7	14.7	20.2	21.8	16.6	40,990
Midwest . . . . .	14,370	2.4	4.7	6.7	16.3	18.4	22.7	18.8	10.0	35,789
South . . . . .	18,746	3.2	6.0	8.7	17.7	17.2	19.7	16.7	10.8	32,939
West . . . . .	11,638	2.2	4.9	7.4	17.1	16.5	20.5	18.6	12.8	36,144
Black, total . . . . .	7,470	11.2	14.7	12.6	19.5	14.4	13.7	10.2	3.6	20,209
Northeast . . . . .	1,279	7.2	12.3	9.6	20.0	16.2	14.7	13.2	6.7	25,391
Midwest . . . . .	1,446	13.9	15.9	11.3	18.4	11.7	14.6	10.9	3.3	18,301
South . . . . .	4,147	11.9	15.6	14.1	20.1	14.8	12.9	8.5	2.2	19,029
West . . . . .	598	8.2	10.7	12.8	17.3	13.9	15.6	14.3	7.2	25,670
Hispanic, <sup>2</sup> total . . . . .	6,547	7.2	12.6	12.4	21.1	16.0	15.2	10.7	4.8	22,948
Northeast . . . . .	1,293	8.5	14.8	12.1	17.3	15.4	13.8	12.6	5.5	22,620
Midwest . . . . .	589	11.1	13.1	10.9	19.1	16.9	13.8	10.7	4.4	22,822
South . . . . .	2,043	8.8	14.8	13.8	23.1	15.3	12.9	7.7	3.6	19,852
West . . . . .	2,622	4.5	9.6	11.8	21.9	16.6	18.2	12.0	5.3	25,976
Presence of related children under 18 years old:										
All families . . . . .	66,090	3.6	6.3	8.1	16.7	16.4	19.8	17.7	11.3	34,213
No children . . . . .	31,811	1.9	5.4	8.6	17.6	16.5	19.1	17.9	13.0	35,032
One or more children . . . . .	34,279	5.2	7.1	7.7	15.8	16.4	20.5	17.6	9.7	33,458
Married-couple families . . . . .	52,317	1.4	3.8	6.7	15.4	16.8	21.8	20.5	13.5	38,547
No children . . . . .	26,841	1.6	4.8	8.2	16.9	15.9	19.3	18.9	14.5	36,843
One or more children . . . . .	25,476	1.2	2.8	5.1	13.9	17.8	24.6	22.2	12.4	39,995
Female householder, no husband present . . . . .	10,890	14.1	17.6	14.6	21.3	14.2	10.6	5.5	2.1	16,442
No children . . . . .	3,445	4.0	9.7	12.5	21.9	20.2	17.7	9.9	4.0	25,784
One or more children . . . . .	7,445	18.8	21.3	15.6	21.1	11.3	7.3	3.5	1.2	12,979

<sup>1</sup> Includes other races not shown separately. <sup>2</sup> Hispanic persons may be of any race.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, Nos. 166 and 168, and unpublished data.

**No. 734. Money Income of Families, by Type of Family and Income Level: 1988**

[In thousands, except dollars. Families as of March 1989. Based on Current Population Survey; see headnote, table 729. For definition of median, see Guide to Tabular Presentation]

TYPE OF FAMILY	Number of families	INCOME LEVEL								Median income (dol.)
		Under \$9,999	\$10,000-\$14,999	\$15,000-\$19,999	\$20,000-\$24,999	\$25,000-\$34,999	\$35,000-\$49,999	\$50,000-\$74,999	\$75,000 and over	
<b>All families</b> .....	<b>65,837</b>	<b>7,085</b>	<b>5,785</b>	<b>6,002</b>	<b>5,748</b>	<b>11,094</b>	<b>13,196</b>	<b>10,888</b>	<b>6,037</b>	<b>32,191</b>
Married-couple families .....	52,100	2,976	3,858	4,333	4,443	9,122	11,564	10,085	5,719	36,389
Wife in paid labor force .....	29,713	693	1,066	1,672	2,072	5,143	7,621	7,440	4,005	42,709
Wife not in paid labor force .....	22,387	2,283	2,791	2,661	2,372	3,978	3,943	2,645	1,715	27,220
Male householder <sup>1</sup> .....	2,847	355	336	353	274	500	598	292	135	26,827
Female householder <sup>1</sup> .....	10,890	3,755	1,590	1,316	1,031	1,472	1,034	509	182	15,346
With own children <sup>2</sup> .....	34,255	4,589	2,765	2,926	2,867	5,842	7,035	5,534	2,698	31,645
Married-couple .....	25,599	1,168	1,454	1,860	2,109	4,789	6,364	5,265	2,593	37,832
Female householder <sup>1</sup> .....	7,363	3,204	1,137	884	637	829	430	180	63	11,874

<sup>1</sup> No spouse present. <sup>2</sup> Children under 18 years old.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, unpublished data.

**No. 735. Median Money Income of Families and Unrelated Individuals, in Current and Constant (1989) Dollars: 1970 to 1989**

[See headnote, table 726. Unrelated individuals are persons not living with any relatives. See text, sections 1 and 14. For definition of median, see Guide to Tabular Presentation. See also *Historical Statistics, Colonial Times to 1970*, series G 179-188]

ITEM	1970	1975	1980	1983	1984	1985	1986	1987 <sup>1</sup>	1988	1989
<b>CURRENT DOLLARS</b>										
Families: <sup>2</sup>										
Married-couple families .....	10,516	14,867	23,141	27,286	29,612	31,100	32,805	34,879	36,389	38,547
Wife in paid labor force .....	12,276	17,237	26,879	32,107	34,668	36,431	38,346	40,751	42,709	45,266
Wife not in paid labor force .....	9,304	12,752	18,972	21,890	23,582	24,556	25,803	26,640	27,220	28,747
Male householder, no wife present .....	9,012	12,995	17,519	21,845	23,325	22,622	24,962	25,208	26,827	27,847
Female householder, no husband present .....	5,093	6,844	10,408	11,789	12,803	13,660	13,647	14,683	15,346	16,442
Unrelated individuals:										
Male .....	4,540	6,612	10,939	12,888	13,566	14,921	15,281	16,082	16,976	17,860
Female .....	2,483	3,978	6,668	8,863	9,501	9,865	10,142	11,029	11,881	12,390
<b>CONSTANT (1989) DOLLARS</b>										
Families: <sup>2</sup>										
Married-couple families .....	33,608	34,266	34,824	33,971	35,341	35,840	37,115	38,072	38,142	38,547
Wife in paid labor force .....	39,233	39,728	40,449	39,973	41,375	41,984	43,384	44,482	44,767	45,266
Wife not in paid labor force .....	29,734	29,391	28,550	27,253	28,144	28,299	29,193	29,079	28,532	28,747
Male householder, no wife present .....	28,801	29,951	26,364	27,197	27,837	26,070	28,242	27,516	28,120	27,847
Female householder, no husband present .....	16,277	15,774	15,863	14,677	15,280	15,742	15,440	16,027	16,085	16,442
Unrelated individuals:										
Male .....	14,509	15,240	16,482	16,045	16,190	17,195	17,289	17,554	17,794	17,860
Female .....	7,935	9,169	10,034	11,034	11,339	11,369	11,475	12,039	12,453	12,390

<sup>1</sup> Beginning 1987, based on revised processing procedures; data not directly comparable with prior years. See text, section 14, and source. <sup>2</sup> Beginning 1980, based on household concept. Restricted to primary families, see source.

**No. 736. Median Money Income of Year-Round Full-Time Workers With Income, by Sex, Age, Race, and Hispanic Origin: 1980 to 1989**

[Age as of March of following year. Refers to civilian workers. For definition of median, see Guide to Tabular Presentation]

ITEM	FEMALE					MALE				
	1980	1985	1987 <sup>1</sup>	1988	1989	1980	1985	1987 <sup>1</sup>	1988	1989
<b>Total with income</b> .....	<b>\$11,591</b>	<b>\$16,252</b>	<b>\$17,584</b>	<b>\$18,545</b>	<b>\$19,643</b>	<b>\$19,173</b>	<b>\$24,999</b>	<b>\$26,681</b>	<b>\$27,342</b>	<b>\$28,605</b>
15-19 years old. ....	6,779	8,372	12,329	13,183	13,653	7,753	9,050	14,170	14,863	15,501
20-24 years old. ....	9,407	11,757	17,552	18,486	19,706	12,109	13,827	23,554	24,284	24,991
25-34 years old. ....	12,190	16,740	17,552	18,486	19,706	17,724	22,321	30,802	31,847	32,370
35-44 years old. ....	12,239	18,032	19,934	20,635	21,498	21,777	28,966	30,802	31,847	32,370
45-54 years old. ....	12,116	17,009	19,299	20,174	20,905	22,323	29,880	32,170	32,701	33,356
55-64 years old. ....	11,931	16,761	18,047	18,347	19,895	21,053	28,387	30,869	31,645	34,505
65 years old and over .....	12,342	18,336	19,502	19,493	21,505	17,307	26,146	28,593	29,070	34,110
White .....	11,703	16,482	17,889	18,823	19,873	19,720	25,693	27,303	28,262	29,846
Black .....	10,915	14,590	15,978	16,867	17,908	13,875	17,971	19,522	20,716	20,708
Hispanic <sup>2</sup> .....	9,887	13,522	14,802	15,201	16,006	13,790	17,344	17,680	18,190	18,570

<sup>1</sup> Beginning 1987, based on revised processing procedures; data not directly comparable with prior years. See text, section 14, and source. <sup>2</sup> Persons of Hispanic origin may be of any race.

Source of tables 735 and 736: U.S. Bureau of the Census, *Current Population Reports*, series P-60, No. 168, and earlier issues.

**No. 737. Money Income of Persons—Percent Distribution by Income Level, Median, and Mean Income, by Sex, 1970 to 1988, and by Age, Race, Hispanic Origin, and Region, 1988**

[As of March of following year. For 1970 and 1975, persons 14 years old and over; thereafter, 15 years old and over. Based on Current Population Survey; see headnote, table 729. For definitions of median and mean, see Guide to Tabular Presentation. See *Historical Statistics, Colonial Times to 1970*, series G 257-268, for percent distribution by income level, and median income. For composition of regions, see fig. 1, inside front cover]

SEX, YEAR, AGE, RACE, HISPANIC ORIGIN, AND REGION	All persons (mil.)	PERSONS WITH INCOME											Median income (dol.)	Mean income (dol.)
		Total (mil.)	Percent distribution by income (in 1988 dollars) level—											
			1 to 2,499 or less	2,500 to 4,999	5,000 to 9,999	10,000 to 14,999	15,000 to 24,999	25,000 to 49,999	50,000 to 74,999	75,000 and over				
MALE														
1970	70.6	65.0	9.1	6.9	12.0	10.2	24.1	30.9	4.4	2.3	20,337	22,980		
1975	77.6	71.2	8.5	6.4	13.4	11.9	22.7	30.2	4.7	2.2	19,467	22,932		
1980	82.9	78.7	8.3	6.8	13.9	13.7	22.2	28.5	4.7	2.0	17,989	22,023		
1981	84.0	79.7	8.7	7.3	14.4	13.4	22.2	27.5	4.5	1.9	17,534	21,493		
1982	85.0	79.7	9.6	7.1	14.7	14.1	22.2	25.6	4.5	2.1	17,101	21,307		
1983 <sup>2</sup>	86.0	80.8	9.8	7.2	14.5	13.4	22.4	26.0	4.6	2.2	17,414	21,596		
1984	87.3	82.2	8.9	7.3	14.4	13.7	21.1	27.2	5.0	2.4	17,782	22,132		
1985	88.5	83.6	8.6	6.9	14.3	13.4	21.7	27.3	5.4	2.5	17,933	22,706		
1986	89.4	84.5	8.3	6.5	14.0	12.9	21.9	27.9	5.4	3.0	18,473	23,554		
1987 <sup>3</sup>	90.3	85.7	8.1	6.4	13.7	13.5	21.7	27.8	5.8	2.9	18,522	(NA)		
1988	91.0	86.6	7.5	6.4	13.4	13.2	21.9	28.6	5.9	3.2	18,908	24,054		
15-24 years old	17.8	14.6	29.9	16.0	20.3	14.8	13.7	4.8	0.2	0.3	5,843	8,549		
25-34 years old	21.5	20.9	3.3	4.0	10.4	13.5	30.4	33.2	4.0	1.3	20,782	23,316		
35-44 years old	17.7	17.4	3.0	2.8	6.6	8.2	20.8	42.8	10.2	5.5	28,545	32,950		
45-54 years old	11.9	11.7	2.8	3.2	6.8	9.4	18.7	41.0	11.6	6.6	29,578	34,415		
55-64 years old	10.1	10.0	3.3	5.1	11.6	12.9	21.5	32.7	7.8	5.1	22,647	28,730		
65 yr. old and over	12.1	12.0	2.1	8.3	27.7	22.3	22.0	13.3	2.6	1.8	12,471	17,327		
White	78.2	75.2	6.9	5.8	12.5	13.0	22.1	29.9	6.3	3.4	19,959	(NA)		
Black	9.8	8.6	12.3	10.9	20.0	14.9	21.0	18.2	1.9	0.8	12,044	(NA)		
Hispanic <sup>4</sup>	7.0	6.3	8.3	10.1	18.6	19.4	23.4	17.4	1.8	1.0	13,030	(NA)		
Northeast	18.8	17.9	6.4	5.1	11.6	11.6	22.4	31.8	7.2	4.0	21,544	(NA)		
Midwest	22.2	21.3	7.9	6.4	12.9	12.6	21.8	30.1	5.7	2.4	19,156	(NA)		
South	31.1	29.4	7.9	7.6	15.0	14.5	21.9	24.9	5.0	3.1	16,773	(NA)		
West	18.9	17.9	7.3	5.6	13.0	13.6	21.3	29.5	6.1	3.5	19,431	(NA)		
FEMALE														
1970	77.6	51.6	23.5	17.9	21.0	14.9	16.7	5.6	0.3	0.2	6,821	9,568		
1975	85.0	60.8	19.4	17.4	24.4	15.5	16.6	6.3	0.3	0.1	7,443	9,924		
1980	91.1	80.8	22.8	16.3	22.7	15.7	15.7	6.3	0.4	0.1	7,064	9,722		
1981	92.2	82.1	22.4	16.6	23.2	15.5	15.6	6.3	0.3	0.1	7,103	9,683		
1982	93.1	82.5	22.5	16.2	23.0	15.2	15.6	6.8	0.4	0.2	7,217	10,046		
1983 <sup>2</sup>	94.3	83.8	21.8	15.6	22.3	15.2	16.6	7.8	0.6	0.2	7,608	10,570		
1984	95.3	85.6	20.9	15.1	22.7	15.2	16.6	8.7	0.7	0.3	7,820	10,912		
1985	96.4	86.5	20.4	15.1	22.6	14.6	16.9	9.3	0.8	0.3	7,935	11,185		
1986	97.3	87.8	19.6	15.0	22.3	14.3	17.9	9.8	0.8	0.3	8,214	11,594		
1987 <sup>3</sup>	98.2	89.7	18.6	14.5	22.1	14.9	17.9	10.6	0.9	0.4	8,638	(NA)		
1988	99.0	90.6	17.9	14.4	21.5	15.0	18.3	11.4	1.1	0.4	8,884	12,311		
15-24 years old	18.1	14.5	35.2	18.7	21.7	12.9	9.6	1.8	0.1	0.1	4,485	6,596		
25-34 years old	21.8	20.2	16.9	10.1	17.2	16.1	24.7	13.8	0.9	0.3	11,565	13,590		
35-44 years old	18.2	17.0	15.9	8.8	15.9	15.5	22.8	18.8	1.9	0.5	12,546	15,624		
45-54 years old	12.7	11.7	17.5	9.0	16.4	15.4	22.1	17.0	1.8	0.8	12,020	15,435		
55-64 years old	11.3	10.4	18.7	15.6	21.2	14.4	17.3	11.0	1.1	0.7	8,377	12,348		
65 yr. old and over	16.9	16.7	5.9	24.7	36.2	14.9	11.7	5.7	0.7	0.2	7,103	10,140		
White	84.0	77.5	18.1	13.5	21.4	15.1	18.5	11.7	1.1	0.5	9,103	(NA)		
Black	11.8	10.4	15.5	21.1	22.3	14.3	17.3	8.9	0.5	0.1	7,349	(NA)		
Hispanic <sup>4</sup>	7.0	5.5	21.5	17.4	24.2	14.6	14.5	7.2	0.4	0.2	6,990	(NA)		
Northeast	21.4	19.7	16.4	13.5	21.3	14.2	19.8	12.8	1.5	0.4	9,611	(NA)		
Midwest	24.0	22.8	19.2	14.7	22.4	15.1	17.6	9.8	0.9	0.4	8,299	(NA)		
South	34.2	30.6	18.3	16.1	21.0	15.7	17.8	10.1	0.7	0.3	8,424	(NA)		
West	19.5	17.8	17.1	12.3	21.6	14.4	18.7	14.0	1.3	0.6	9,699	(NA)		

NA Not available. <sup>1</sup> Includes persons with income deficit. <sup>2</sup> Beginning 1983, based on revised Hispanic population controls; data not directly comparable with prior years. <sup>3</sup> Beginning 1987, based on revised processing procedures; data not directly comparable with prior years. <sup>4</sup> Hispanic persons may be of any race.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, No. 166.

### No. 738. Married-Couple Families With Earnings, by Work Experience of Husbands and Wives: 1981 and 1987

[As of March of following year. Based on Current Population Survey; see text, sections 1 and 14 and Appendix III. Money earnings is the sum of wages or salary and net income from farm and nonfarm self-employment; see text, section 13]

WORK EXPERIENCE OF HUSBAND	NUMBER (1,000)					MEAN EARNINGS (dol.)				
	Total	Wife worked			Wife did not work	Total	Wife worked			Wife did not work
		Total	Worked at full-time jobs	Worked at part-time jobs			Total	Worked at full-time jobs	Worked at part-time jobs	
<b>1981</b>										
Total	42,199	28,209	18,738	9,471	13,991	25,551	27,163	28,568	24,345	22,301
Husband worked in 1981	40,249	26,258	17,408	8,850	13,991	26,386	28,562	29,955	25,822	22,301
Full-time jobs	37,560	24,808	16,536	8,273	12,751	27,479	29,360	30,579	26,924	23,821
Part-time jobs	2,689	1,450	873	577	1,239	11,109	14,911	18,134	10,043	6,661
Husband did not work in 1981	1,950	1,950	1,329	621	(X)	8,333	10,686		3,300	(X)
<b>1987</b>										
Total	43,450	31,586	21,585	10,001	11,864	37,171	39,486	41,764	34,569	31,008
Husband worked in 1987	41,142	29,278	20,134	9,144	11,864	38,610	41,690	43,678	37,315	31,008
Full-time jobs	38,400	27,791	19,284	8,507	10,608	40,288	42,806	44,517	38,927	33,694
Part-time jobs	2,742	1,487	850	637	1,256	15,104	20,841	24,634	15,781	8,312
Husband did not work in 1987	2,308	2,308	1,451	857	(X)	11,523	11,523	15,218	5,264	(X)

X Not applicable.

### No. 739. Mean Earnings of Husbands and Wives in Married-Couple Families: 1981 and 1987

[In dollars. As of March of following year. See headnote, table 738]

CHARACTERISTIC	CURRENT DOLLARS				CONSTANT (1987) DOLLARS			
	Husband		Wife		Husband		Wife	
	1981	1987	1981	1987	1981	1987	1981	1987
<b>Total</b>	<b>20,866</b>	<b>29,154</b>	<b>8,598</b>	<b>13,245</b>	<b>26,075</b>	<b>29,154</b>	<b>10,744</b>	<b>13,245</b>
Age: 15 to 24 years	12,378	15,028	6,433	8,791	15,468	15,028	8,039	8,791
25 to 34 years	18,711	25,238	8,813	13,077	23,382	25,238	11,013	13,077
35 to 44 years	24,170	33,166	8,984	14,764	30,204	33,166	11,227	14,764
45 to 54 years	23,938	34,648	9,210	14,094	29,914	34,648	11,509	14,094
55 to 64 years	21,874	28,727	8,222	12,251	27,334	28,727	11,024	12,251
65 years and over	10,663	16,132	5,500	7,581	13,325	16,132	6,873	7,581
Age of own children under 18 years: No own children	19,888	27,755	9,594	14,256	24,853	27,755	11,989	14,256
One or more children	21,596	30,256	7,779	12,395	26,987	30,256	9,721	12,395
All under 6	18,859	28,161	7,379	12,163	23,567	28,161	9,221	12,163
Some under 6, some 6 to 17	20,946	29,564	6,575	10,732	26,176	29,564	8,216	10,732
All 6 to 17	23,215	31,636	8,318	13,067	29,010	31,636	10,394	13,067
Work experience: Worked at full-time jobs	21,870	30,600	10,957	16,603	27,329	30,600	13,692	16,603
Worked at part-time jobs	6,835	8,790	3,621	5,959	8,541	8,790	4,787	5,959
Years of school completed: Less than 12 years	13,785	18,048	5,964	8,081	17,722	18,048	7,453	8,081
High school, 4 years	18,967	24,483	7,897	11,373	24,483	24,483	9,868	11,373
College: 1 to 3 years	21,473	29,179	9,352	13,872	26,833	29,179	11,687	13,872
4 years	27,343	38,973	10,681	17,599	34,169	38,973	13,347	17,599
5 or more years	32,863	46,853	14,914	22,769	41,067	46,853	18,637	22,769

Source of tables 738 and 739: U.S. Bureau of the Census, *Current Population Reports*, series P-60, Nos. 163 and 165.

### No. 740. Mean Money Earnings, by Educational Attainment, Sex, and Age: 1988

[In dollars. For year-round full-time workers 25 years old and over. As of March 1989. See headnote, table 738]

AGE AND SEX	Total	Elementary, 8 years or less	SECONDARY			COLLEGE			
			Total	1-3 years	4 years	Total	1-3 years	4 years	5 or more years
<b>Male, total</b>	<b>32,558</b>	<b>18,903</b>	<b>26,292</b>	<b>22,430</b>	<b>27,139</b>	<b>39,671</b>	<b>31,543</b>	<b>40,415</b>	<b>50,262</b>
25-34 years old	26,520	14,923	22,698	18,915	23,434	31,035	26,486	32,956	37,354
35-44 years old	36,044	20,455	27,922	22,737	28,777	42,343	32,698	43,087	53,692
45-54 years old	37,039	20,348	29,487	24,935	30,660	47,248	38,158	47,432	57,164
55-64 years old	33,975	20,713	27,930	25,231	28,852	45,073	34,500	49,272	51,860
65 years old and over	28,659	13,941	26,517	21,630	27,961	38,176	32,990	34,124	45,742
<b>Female, total</b>	<b>20,531</b>	<b>11,710</b>	<b>16,856</b>	<b>13,634</b>	<b>17,336</b>	<b>24,933</b>	<b>21,310</b>	<b>25,674</b>	<b>31,189</b>
25-34 years old	19,593	11,009	15,728	11,724	16,166	22,970	19,526	24,688	27,740
35-44 years old	21,740	12,201	17,108	13,967	17,551	26,432	22,334	27,220	32,957
45-54 years old	21,563	12,273	18,288	14,738	18,953	27,242	23,680	26,822	33,667
55-64 years old	19,047	11,445	16,865	15,134	17,321	24,769	21,215	25,465	31,080
65 years old and over	15,570	9,430	14,257	11,963	14,891	18,674	18,414	13,054	25,858

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, unpublished data.

### No. 741. Married-Couple Families With Earnings: Occupation of Longest Job in 1987 of Husband and Wife

[Married-couple families as of March 1988. Based on Current Population Survey. See headnote, table 738]

OCCUPATION OF LONGEST JOB OF HUSBAND	Total <sup>1</sup>	WIFE WORKED IN 1987									Wife did not work in 1987
		Total <sup>1</sup>	Occupation of longest job of wife								
			Exec., administrators and managerial	Professional specialty	Technical and related support	Sales workers	Admin. support, incl. clerical	Precision production, craft, and repair	Operators, fabricators, laborers	Service workers	
NUMBER (1,000)											
Total .....	43,450	31,579	3,449	4,898	1,038	3,808	9,483	777	2,909	4,807	11,870
Husband worked in 1987 <sup>2</sup>	41,072	29,219	3,266	4,643	983	3,523	8,883	712	2,624	4,200	11,853
Occupation of longest job of husband:											
Executive, administrators, and managerial .....	6,556	4,811	882	1,016	161	529	1,614	74	138	381	1,745
Professional specialty .....	5,477	3,999	510	1,534	127	364	999	59	90	304	1,477
Technical and related support .....	1,158	862	110	176	75	72	277	16	36	100	296
Sales workers .....	4,708	3,459	475	542	121	680	1,102	51	148	315	1,250
Administrative support, including clerical .....	2,019	1,503	161	192	74	141	572	27	129	205	516
Precision production, craft and repair .....	8,853	6,162	555	573	188	750	1,950	244	787	1,069	2,691
Operators, fabricators, and laborers .....	7,727	5,310	311	323	154	648	1,545	156	1,031	1,102	2,417
Service workers .....	2,811	1,951	194	191	56	228	552	49	147	527	861
Farming, forestry, and fishing .....	1,763	1,162	67	98	27	112	272	35	117	196	601
Husband did not work in 1987 <sup>3</sup>	2,378	2,360	183	255	55	285	601	66	285	607	17
MEAN EARNINGS (dollars)											
Total .....	37,171	39,488	51,181	53,099	44,164	37,082	39,866	36,003	28,342	28,162	31,007
Husband worked in 1987 <sup>2</sup>	38,629	41,715	52,945	55,081	45,838	39,214	41,626	38,192	30,230	28,967	31,022
Occupation of longest job of husband:											
Executive, administrators, and managerial .....	53,627	55,048	60,251	67,037	63,405	54,154	50,329	(B)	37,588	37,594	49,708
Professional specialty .....	53,383	55,520	65,916	60,311	54,647	54,503	50,039	(B)	38,658	37,729	47,598
Technical and related support .....	42,257	44,493	53,628	50,851	45,172	(B)	42,452	(B)	(B)	36,094	35,741
Sales workers .....	43,562	45,927	58,521	53,880	46,988	42,553	44,409	(B)	33,553	32,973	37,016
Administrative support, including clerical .....	34,079	37,434	43,165	42,483	(B)	35,843	38,433	(B)	31,392	26,805	24,305
Precision production, craft and repair .....	32,571	35,651	43,035	42,842	38,836	33,173	38,086	35,906	30,889	28,456	25,518
Operators, fabricators, and laborers .....	28,725	32,198	38,141	40,240	36,592	29,925	35,483	35,192	29,412	26,676	21,092
Service workers .....	26,826	31,362	38,882	40,582	(B)	27,151	35,103	(B)	24,392	24,686	6,548
Farming, forestry, and fishing .....	19,329	22,962	(B)	36,529	(B)	19,769	27,181	(B)	18,553	17,962	12,299
Husband did not work in 1987 <sup>3</sup>	11,989	11,925	19,700	17,079	(B)	10,761	13,825	(B)	10,974	6,745	(B)

B Base figure too small to meet statistical standards for reliability of derived figure. <sup>1</sup> Includes farming, forestry, and fishing, not shown separately. <sup>2</sup> Excludes husbands whose longest job was in the Armed Forces. <sup>3</sup> Includes husbands whose longest job was in the Armed Forces.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, No. 165.

### No. 742. Per Capita Money Income in Current and Constant (1989) Dollars, by Race and Hispanic Origin: 1970 to 1989

[In dollars. See headnote, table 737]

YEAR	CURRENT DOLLARS				CONSTANT (1989) DOLLARS			
	All races	White	Black	Hispanic <sup>1</sup>	All races	White	Black	Hispanic <sup>1</sup>
1970 .....	3,177	3,354	1,869	(NA)	10,153	10,719	5,973	(NA)
1975 .....	4,818	5,072	2,972	2,847	11,105	11,690	6,850	6,562
1976 .....	5,271	5,556	3,286	3,179	11,487	12,108	7,161	6,928
1977 .....	5,785	6,100	3,574	3,538	11,837	12,482	7,313	7,239
1978 .....	6,455	6,797	4,034	3,961	12,276	12,927	7,672	7,533
1979 .....	7,168	7,574	4,444	4,432	12,243	12,936	7,590	7,570
1980 .....	7,787	8,233	4,804	4,865	11,718	12,389	7,229	7,321
1981 .....	8,476	8,979	5,129	5,349	11,562	12,249	6,997	7,297
1982 .....	8,980	9,527	5,360	5,448	11,539	12,242	6,887	7,001
1983 <sup>2</sup> .....	9,548	10,125	5,755	5,852	11,887	12,605	7,165	7,286
1984 .....	10,328	10,939	6,277	6,401	12,326	13,055	7,491	7,639
1985 .....	11,013	11,671	6,840	6,613	12,692	13,450	7,883	7,621
1986 .....	11,670	12,352	7,207	7,000	13,203	13,975	8,154	7,920
1987 <sup>3</sup> .....	12,391	13,143	7,645	7,653	13,525	14,346	8,345	8,354
1988 .....	13,123	13,896	8,271	7,956	13,755	14,566	8,670	8,339
1989 .....	14,056	14,896	8,747	8,390	14,056	14,896	8,747	8,390

NA Not available. <sup>1</sup> Hispanic persons may be of any race. <sup>2</sup> Beginning 1983, based on revised Hispanic population controls; data not directly comparable to prior years. <sup>3</sup> Beginning 1987, based on revised processing procedures; data not directly comparable to prior years.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, No. 168.



**No. 743. Per Capita Money Income, 1969 to 1987, and Median Family Income, 1969 and 1979, by State**(In dollars. For definition of median, see Guide to Tabular Presentation. See also *Historical Statistics, Colonial Times to 1970*, series G 205-256 and Appendix III)

STATE	PER CAPITA INCOME			MEDIAN FAMILY INCOME		STATE	PER CAPITA INCOME			MEDIAN FAMILY INCOME	
	1969	1979	1987	1969	1979		1969	1979	1987	1969	1979
<b>United States.</b>	<b>3,119</b>	<b>7,298</b>	<b>11,923</b>	<b>9,586</b>	<b>19,917</b>	Missouri.	2,952	6,917	11,203	8,908	18,784
Alabama	2,317	5,894	9,615	7,263	16,347	Montana	2,696	6,589	9,322	8,509	18,413
Alaska	3,725	10,193	13,263	12,441	28,395	Nebraska	2,797	6,934	11,139	8,562	19,122
Arizona	2,937	7,042	11,521	9,185	19,017	Nevada	3,554	8,453	12,603	10,687	21,311
Arkansas	2,142	5,614	9,051	6,271	14,641	New Hampshire	2,965	6,966	13,529	9,682	19,723
California	3,614	8,294	13,197	10,729	21,537	New Jersey	3,674	8,127	15,028	11,403	22,906
Colorado	3,106	7,998	12,271	9,552	21,279	New Mexico	2,437	6,119	9,434	7,845	16,928
Connecticut	3,885	8,511	16,094	11,808	23,149	New York	3,608	7,496	13,167	10,609	20,180
Delaware	3,265	7,449	12,785	10,209	20,817	North Carolina	2,474	6,132	10,856	7,770	16,792
District of Columbia	3,842	8,960	14,778	9,576	19,099	North Dakota	2,469	6,417	9,641	7,836	18,023
Florida	3,058	7,260	12,456	8,261	17,280	Ohio	3,199	7,284	11,323	10,309	20,909
Georgia	2,640	6,380	11,406	8,165	17,414	Oklahoma	2,694	6,854	9,927	7,720	17,688
Hawaii	3,373	7,740	12,290	11,552	22,750	Oregon	3,148	7,556	11,045	9,487	20,027
Idaho	2,644	6,248	9,159	8,380	17,492	Pennsylvania	3,066	7,075	11,544	9,554	19,995
Illinois	3,495	8,064	12,437	10,957	22,746	Rhode Island	3,121	6,897	12,351	9,793	19,448
Indiana	3,070	7,142	11,078	9,966	20,535	South Carolina	2,303	5,884	9,967	7,620	16,978
Iowa	2,884	7,136	11,198	9,016	20,052	South Dakota	2,387	5,696	8,910	7,490	15,993
Kansas	2,929	7,350	11,520	8,690	19,707	Tennessee	2,464	6,212	10,448	7,446	16,564
Kentucky	2,425	5,973	9,380	7,439	16,444	Texas	2,792	7,203	10,645	8,486	19,618
Louisiana	2,330	6,425	8,961	7,527	18,088	Utah	2,697	6,305	9,288	9,320	20,024
Maine	2,548	5,768	10,478	8,205	16,167	Vermont	2,772	6,177	11,234	8,928	17,205
Maryland	3,512	8,293	14,697	11,057	23,112	Virginia	2,996	7,475	13,658	9,044	20,018
Massachusetts	3,408	7,458	14,389	10,833	21,166	Washington	3,357	8,073	12,184	10,404	21,696
Michigan	3,357	7,688	11,973	11,029	22,107	West Virginia	2,333	6,142	8,980	7,414	17,308
Minnesota	3,038	7,451	12,281	9,928	21,185	Wisconsin	3,032	7,241	11,417	10,065	20,915
Mississippi	1,925	5,183	8,088	6,068	14,591	Wyoming	2,895	7,927	9,826	8,944	22,430

Source: U.S. Bureau of the Census, *1970 Census of Population*, vol. 1; *1980 Census of Population*, vol. 1, chapter C (PC 80-1C), and *Current Population Reports*, series P-26, No. 88.**No. 744. Per Capita Money Income for 50 Largest Cities: 1979 and 1987**

CITIES RANKED BY POPULATION-SIZE, 1988	1979	1987	Percent change, 1979- 1987	CITIES RANKED BY POPULATION-SIZE, 1988	1979	1987	Percent change, 1979- 1987
New York, NY	7,271	12,926	77.8	Denver, CO	8,553	12,980	51.8
Los Angeles, CA	8,415	13,592	61.5	Nashville-Davidson, TN	7,276	12,583	72.9
Chicago, IL	6,933	10,806	55.9	Austin, TX	7,368	11,860	61.0
Houston, TX	8,826	12,007	36.0	Kansas City, MO	7,480	12,077	61.5
Philadelphia, PA	6,053	10,002	65.2	Oklahoma City, OK	7,999	11,547	44.4
San Diego, CA	8,016	12,978	61.9	Fort Worth, TX	7,336	11,082	51.1
Detroit, MI	6,215	9,662	55.5	Atlanta, GA	6,539	11,689	78.8
Dallas, TX	8,607	13,489	56.7	Portland, OR	8,104	11,830	46.0
San Antonio, TX	5,763	8,779	52.3	Long Beach, CA	8,342	12,947	55.2
Phoenix, AZ	7,552	12,375	63.9	St. Louis, MO	5,877	9,718	65.4
Honolulu	7,912	12,734	60.9	Tucson, AZ	6,537	10,204	56.1
Baltimore, MD	5,877	9,989	70.0	Albuquerque, NM	7,440	11,988	61.1
San Jose, CA	8,377	13,711	63.7	Pittsburgh, PA	6,845	10,988	60.5
San Francisco, CA	9,265	15,137	63.4	Miami, FL	6,084	9,830	61.6
Indianapolis, IN	7,585	12,111	59.7	Cincinnati, OH	6,874	11,223	63.3
Memphis, TN	6,466	10,347	60.0	Tulsa, OK	8,842	12,829	45.1
Jacksonville, FL	6,767	11,514	70.1	Charlotte, NC	7,965	13,970	75.4
Washington, DC	8,959	14,778	65.0	Virginia Beach, VA	7,704	13,141	70.6
Milwaukee, WI	7,029	10,593	50.7	Oakland, CA	7,701	12,215	58.6
Boston, MA	6,555	12,984	98.1	Omaha, NE	7,718	12,480	61.7
Columbus, OH	6,783	10,811	59.4	Minneapolis, MN	7,940	13,092	64.9
New Orleans, LA	6,463	9,340	44.5	Toledo, OH	7,050	10,872	54.2
Cleveland, OH	5,770	8,690	50.6	Sacramento, CA	7,558	11,580	53.2
El Paso, TX	5,431	8,027	47.8	Newark, NJ	4,525	7,622	68.4
Seattle, WA	9,282	14,438	55.5	Buffalo, NY	5,929	9,354	57.8

<sup>1</sup> Data are for Honolulu County.Source: U.S. Bureau of the Census, *1980 Census of Population*, vol. 1, chapter C (PC 80-1-C) and *Current Population Reports*, series, P-26, No. 88.

### No. 745. Persons Below Poverty Level and Below 125 Percent of Poverty Level: 1959 to 1989

[Persons as of March of the following year. For explanation of poverty level, see text, section 14]

YEAR	NUMBER BELOW POVERTY LEVEL (mil.)				PERCENT BELOW POVERTY LEVEL				BELOW 125 PERCENT OF POVERTY LEVEL		AVERAGE INCOME CUTOFFS FOR NON-FARM FAMILY OF FOUR <sup>3</sup>	
	All races <sup>1</sup>	White	Black	Hispanic <sup>2</sup>	All races <sup>1</sup>	White	Black	Hispanic <sup>2</sup>	Number (mil.)	Percent of total population	At poverty level	At 125 percent of poverty level
1959	39.5	28.5	9.9	(NA)	22.4	18.1	55.1	(NA)	54.9	31.1	\$2,973	\$3,716
1960	39.9	28.3	(NA)	(NA)	22.2	17.8	(NA)	(NA)	54.6	30.4	3,022	3,778
1966	28.5	20.8	8.9	(NA)	14.7	12.2	41.8	(NA)	41.3	21.3	3,317	4,146
1969	24.1	16.7	7.1	(NA)	12.1	9.5	32.2	(NA)	34.7	17.4	3,743	4,679
1970	25.4	17.5	7.5	(NA)	12.6	9.9	33.5	(NA)	35.6	17.6	3,968	4,960
1975	25.9	17.8	7.5	3.0	12.3	9.7	31.3	26.9	37.2	17.6	5,500	6,875
1976	25.0	16.7	7.6	2.8	11.8	9.1	31.1	24.7	35.5	16.7	5,815	7,269
1977	24.7	16.4	7.7	2.7	11.6	8.9	31.3	22.4	35.7	16.7	6,191	7,739
1978	24.5	16.3	7.6	2.6	11.4	8.7	30.6	21.6	34.2	15.8	6,662	8,328
1979 <sup>4</sup>	26.1	17.2	8.1	2.9	11.7	9.0	31.0	21.8	36.6	16.4	7,412	9,265
1980	29.3	19.7	8.6	3.5	13.0	10.2	32.5	25.7	40.7	18.1	8,414	10,518
1981	31.8	21.6	9.2	3.7	14.0	11.1	34.2	26.5	43.7	19.3	9,287	11,609
1982	34.4	23.5	9.7	4.3	15.0	12.0	35.6	29.9	46.5	20.3	9,862	12,328
1983	35.3	24.0	9.9	4.6	15.2	12.1	35.7	28.0	47.2	20.3	10,178	12,723
1984	33.7	23.0	9.5	4.8	14.4	11.5	33.8	28.4	45.3	19.4	10,609	13,261
1985	33.1	22.9	8.9	5.2	14.0	11.4	31.3	29.0	44.2	18.7	10,989	13,736
1986	32.4	22.2	9.0	5.1	13.6	11.0	31.1	27.3	43.5	18.2	11,203	14,004
1987 <sup>5</sup>	32.2	21.2	9.5	5.4	13.4	10.4	32.4	28.0	43.0	17.9	11,611	14,514
1988	31.7	20.7	9.4	5.4	13.0	10.1	31.3	26.7	42.6	17.5	12,092	15,115
1989	31.5	20.8	9.3	5.4	12.8	10.0	30.7	26.2	42.7	17.3	12,675	15,844

NA Not available. <sup>1</sup> Includes other races not shown separately. <sup>2</sup> Hispanic persons may be of any race. <sup>3</sup> Beginning 1981, income cutoffs for nonfarm families are applied to all families, both farm and nonfarm. <sup>4</sup> Population controls based on 1980 census; see text, sections 1 and 14. <sup>5</sup> Beginning 1987, based on revised processing procedures; data not directly comparable with prior years.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, No. 168, and earlier reports.

### No. 746. Children Below the Poverty Level, by Race and Hispanic Origin: 1970 to 1989

[Persons as of March of the following year. Covers only related children in families under 18 years old. Based on Current Population Survey; see headnote, table 729. For explanation of poverty, see text, section 14]

YEAR AND REGION	NUMBER BELOW POVERTY LEVEL (1,000)				PERCENT BELOW POVERTY LEVEL			
	All races <sup>1</sup>	White	Black	Hispanic <sup>2</sup>	All races <sup>1</sup>	White	Black	Hispanic <sup>2</sup>
1970	10,235	6,138	3,922	(NA)	14.9	10.5	41.5	(NA)
1971	10,344	6,341	3,836	(NA)	15.1	10.9	40.7	(NA)
1972	10,082	5,784	4,025	(NA)	14.9	10.1	42.7	(NA)
1973	9,453	5,462	3,822	1,364	14.2	9.7	40.6	27.8
1974	9,967	6,079	3,713	1,414	15.1	11.0	39.6	28.6
1975	10,882	6,748	3,884	1,619	16.8	12.5	41.4	33.1
1976	10,081	6,034	3,758	1,424	15.8	11.3	40.4	30.1
1977	10,028	5,943	3,850	1,402	16.0	11.4	41.6	28.0
1978	9,722	5,674	3,781	1,354	15.7	11.0	41.2	27.2
1979	9,993	5,909	3,745	1,505	16.0	11.4	40.8	27.7
1980	11,114	6,817	3,906	1,718	17.9	13.4	42.1	33.0
1981	12,068	7,429	4,170	1,874	19.5	14.7	44.9	35.4
1982	13,139	8,282	4,388	2,117	21.3	16.5	47.3	38.9
1983	13,427	8,534	4,273	2,251	21.8	17.0	46.2	37.7
1984	12,929	8,086	4,320	2,317	21.0	16.1	46.2	38.7
1985	12,483	7,838	4,057	2,512	20.1	15.6	43.1	39.6
1986	12,257	7,714	4,039	2,413	19.8	15.3	42.7	37.1
1987 <sup>3</sup>	12,275	7,398	4,234	2,606	19.7	14.7	44.4	38.9
1988	11,935	7,095	4,148	2,576	19.0	14.0	42.8	37.3
1989	12,001	7,165	4,257	2,496	19.0	14.1	43.2	35.5

NA Not available. <sup>1</sup> Includes persons of other races, not shown separately. <sup>2</sup> Hispanic persons may be of any race. <sup>3</sup> Beginning 1987, based on revised processing procedures; data not directly comparable with prior years.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, No. 168, and earlier reports.

### No. 747. Distribution of All Children and of Poor Children, by Family Type and Race: 1987

[Based on unpublished tabulations from the 1988 March Supplement to the Current Population Survey. Numbers and percentages may not add due to rounding]

AGE, RACE AND FAMILY TYPE	ALL CHILDREN		CHILDREN BELOW POVERTY LINE		Poverty rate	AGE, RACE AND FAMILY TYPE	ALL CHILDREN		CHILDREN BELOW POVERTY LINE		Poverty rate
	Number (mil.)	Per cent	Number (mil.)	Per cent			Number (mil.)	Per cent	Number (mil.)	Per cent	
ALL FAMILIES						Married-couple	13.7	86.7	1.1	52.4	8.0
Children under 18 years:						Single-parent	2.1	13.3	1.0	47.6	47.6
All family types	63.0	100.0	12.8	100.0	20.6	Mother-only	1.8	11.4	0.9	42.9	48.2
Married-couple	46.5	73.8	4.7	36.7	10.4	Other <sup>1</sup>	0.3	1.9	0.1	4.8	40.8
Single-parent	16.5	26.2	8.1	63.3	46.2	Black:					
Mother-only	12.5	19.8	6.9	53.9	51.2	All family types	3.3	100.0	1.6	100.0	48.4
Other <sup>1</sup>	4.0	6.4	1.2	9.4	28.2	Married-couple	1.0	30.3	0.2	12.5	19.9
Children under 6 years:						Single-parent	2.3	69.7	1.4	87.5	60.9
All family types	21.9	100.0	5.0	100.0	22.8	Mother-only	1.8	54.5	1.2	75.0	67.2
Married-couple	16.5	75.3	1.9	38.0	11.6	Other <sup>1</sup>	0.5	15.2	0.2	12.5	39.3
Single-parent	5.4	24.7	3.1	62.0	57.4	Hispanic <sup>2</sup>					
Mother-only	4.4	20.1	2.7	54.0	61.4	All family types	2.5	100.0	1.1	100.0	41.8
Other <sup>1</sup>	1.0	4.6	0.4	8.0	40.0	Married-couple	1.7	68.0	0.5	45.5	30.0
CHILDREN UNDER 6 YEARS OLD						Single-parent	0.9	36.0	0.6	54.5	66.7
White:						Mother-only	0.7	28.0	0.5	45.5	70.3
All family types	15.8	100	2.1	100.0	13.1	Other <sup>1</sup>	0.2	8.0	0.1	9.0	42.6

<sup>1</sup> Includes father-only, relative-only, and nonrelative-only families. <sup>2</sup> Hispanic persons may be of any race.  
Source: National Center for Children in Poverty, Columbia University, New York, New York.

### No. 748. Persons Below Poverty Level, by Race, Hispanic Origin, Age, and Region: 1989

[Persons as of March 1990. Based on Current Population Survey; see headnote, table 729. For explanation of poverty level, see text, section 14. For composition of regions, see fig. 1, inside front cover]

AGE AND REGION	NUMBER BELOW POVERTY LEVEL (1,000)				PERCENT BELOW POVERTY LEVEL			
	All races <sup>1</sup>	White	Black	Hispanic <sup>2</sup>	All races <sup>1</sup>	White	Black	Hispanic <sup>2</sup>
<b>Total</b>	<b>31,534</b>	<b>20,788</b>	<b>9,305</b>	<b>5,430</b>	<b>12.8</b>	<b>10.0</b>	<b>30.7</b>	<b>26.2</b>
Under 16 years old	11,576	7,014	3,996	2,393	20.1	15.2	44.7	36.6
16 to 21 years old	3,214	2,041	990	635	15.3	12.0	31.7	28.5
22 to 44 years old	9,447	6,471	2,505	1,684	10.3	8.4	22.7	20.9
45 to 54 years old	1,883	1,323	462	289	7.4	6.1	17.4	17.0
55 to 59 years old	1,027	693	309	111	9.7	7.6	28.6	17.4
60 to 64 years old	1,017	705	277	107	9.5	7.5	27.0	18.8
65 years old and over	3,369	2,542	766	211	11.4	9.6	30.8	20.6
Northeast	5,061	3,502	1,303	958	10.0	8.0	24.7	29.6
Midwest	7,043	4,718	2,181	352	11.9	9.0	36.4	24.7
South	12,943	7,498	5,220	1,855	15.4	11.4	31.6	28.7
West	6,487	5,070	601	2,266	12.5	11.3	23.5	23.6

<sup>1</sup> Includes other races not shown separately. <sup>2</sup> Hispanic persons may be of any race.  
Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, No. 168.

### No. 749. Persons 65 Years Old and Over Below Poverty Level, by Selected Characteristics: 1970 to 1988

[Persons as of March of following year. See headnote, table 748]

CHARACTERISTIC	NUMBER BELOW POVERTY LEVEL (1,000)					PERCENT BELOW POVERTY LEVEL				
	1970	1979 <sup>1</sup>	1985	1987 <sup>2</sup>	1988	1970	1979 <sup>1</sup>	1985	1987 <sup>2</sup>	1988
<b>Persons, 65 yr. and over<sup>3</sup></b>	<b>4,793</b>	<b>3,682</b>	<b>3,456</b>	<b>3,563</b>	<b>3,481</b>	<b>24.6</b>	<b>15.2</b>	<b>12.6</b>	<b>12.5</b>	<b>12.0</b>
White	4,011	2,911	2,698	2,704	2,593	22.6	13.3	11.0	10.6	10.0
Black	735	740	717	774	785	47.7	36.3	31.5	32.4	32.2
Hispanic <sup>4</sup>	(NA)	154	219	243	225	(NA)	26.8	23.9	27.5	22.4
In families	2,013	1,380	1,173	1,266	1,200	14.8	8.4	6.4	6.6	6.1
Unrelated individuals	2,779	2,299	2,281	2,293	2,277	47.2	29.4	25.6	24.7	24.1
<b>Persons, 60 yr. and over</b>	<b>5,977</b>	<b>4,753</b>	<b>4,677</b>	<b>4,684</b>	<b>4,606</b>	<b>21.3</b>	<b>13.9</b>	<b>12.3</b>	<b>11.9</b>	<b>11.8</b>

NA Not available. <sup>1</sup> Population controls based on 1980 census; see text, section 14. <sup>2</sup> Beginning 1987, based on revised processing procedures; data not directly comparable with prior years. <sup>3</sup> Beginning 1979, includes members of unrelated subfamilies not shown separately. For earlier years, unrelated subfamily members are included in the "In families" category. <sup>4</sup> Hispanic persons may be of any race.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, No. 168, and unpublished data.

# **No. 750. Persons Below Poverty Level and Below 125 Percent of Poverty Level, by Race of Householder and Family Status: 1979 to 1988**

[Persons as of March of following year. For explanation of poverty level, see text, section 14]

RACE OF HOUSEHOLDER AND FAMILY STATUS	BELOW POVERTY LEVEL					BELOW 125 PERCENT OF POVERTY LEVEL				
	1979 <sup>1</sup>	1985	1986	1987 <sup>2</sup>	1988	1979 <sup>1</sup>	1985	1986	1987 <sup>2</sup>	1988
NUMBER (mil.)										
<b>All persons <sup>3</sup></b>	<b>26.1</b>	<b>33.1</b>	<b>32.4</b>	<b>32.2</b>	<b>31.7</b>	<b>36.6</b>	<b>44.2</b>	<b>43.5</b>	<b>43.0</b>	<b>42.6</b>
In families	20.0	25.7	24.8	24.7	24.0	28.1	34.4	33.2	(NA)	(NA)
Householder	5.5	7.2	7.0	7.0	6.9	7.8	9.8	9.5	9.3	9.3
Related children under 18 years	10.0	12.5	12.3	12.3	11.9	13.4	15.8	15.5	(NA)	(NA)
Other family members	4.5	6.0	5.5	5.4	5.2	7.0	8.9	8.2	(NA)	(NA)
Unrelated individuals	5.7	6.7	6.8	6.9	7.1	8.0	9.1	9.4	9.6	9.6
<b>White</b>	<b>17.2</b>	<b>22.9</b>	<b>22.2</b>	<b>21.2</b>	<b>20.7</b>	<b>25.2</b>	<b>31.5</b>	<b>30.7</b>	<b>29.7</b>	<b>29.2</b>
In families	12.5	17.1	16.4	15.6	15.0	18.4	23.7	22.6	(NA)	(NA)
Householder	3.6	5.0	4.8	4.6	4.5	5.3	7.0	6.7	6.4	6.3
Related children under 18 years	5.9	7.8	7.7	7.4	7.1	8.2	10.3	10.0	(NA)	(NA)
Other family members	3.0	4.3	3.9	3.6	3.4	4.8	6.4	5.9	(NA)	(NA)
Unrelated individuals	4.5	5.3	5.2	5.2	5.3	6.5	7.3	7.4	7.5	7.4
<b>Black</b>	<b>8.1</b>	<b>8.9</b>	<b>9.0</b>	<b>9.5</b>	<b>9.4</b>	<b>10.3</b>	<b>11.1</b>	<b>11.2</b>	<b>11.5</b>	<b>11.3</b>
In families	6.8	7.5	7.4	7.8	7.7	8.8	9.3	9.2	(NA)	(NA)
Householder	1.7	2.0	2.0	2.1	2.1	2.2	2.5	2.5	2.6	2.5
Related children under 18 years	3.7	4.1	4.0	4.2	4.1	4.7	4.8	4.8	(NA)	(NA)
Other family members	1.3	1.5	1.4	1.5	1.4	1.9	2.1	1.9	(NA)	(NA)
Unrelated individuals	1.2	1.3	1.4	1.5	1.5	1.4	1.6	1.8	1.8	1.9
<b>In families with female householder, no husband present <sup>3</sup></b>	<b>13.5</b>	<b>16.4</b>	<b>16.9</b>	<b>16.3</b>	<b>16.2</b>	<b>17.4</b>	<b>20.1</b>	<b>21.0</b>	(NA)	(NA)
In families	9.4	11.6	11.9	12.1	12.0	11.6	13.7	14.2	(NA)	(NA)
Householder	2.6	3.5	3.6	3.7	3.6	3.3	4.2	4.3	4.3	4.4
Related children under 18 years	5.6	6.7	6.9	7.0	7.0	6.7	7.8	7.9	(NA)	(NA)
Other family members	1.1	1.4	1.4	1.5	1.4	1.6	2.0	1.9	(NA)	(NA)
Unrelated individuals	3.8	4.2	4.3	4.2	4.2	5.4	5.8	6.0	(NA)	(NA)
<b>In all other families <sup>3</sup></b>	<b>12.6</b>	<b>16.7</b>	<b>15.4</b>	<b>15.3</b>	<b>14.9</b>	<b>19.2</b>	<b>24.1</b>	<b>22.5</b>	(NA)	(NA)
In families	10.6	14.1	12.8	12.6	12.1	16.5	20.7	19.0	(NA)	(NA)
Householder	2.8	3.7	3.4	3.4	3.2	4.5	5.6	5.1	(NA)	(NA)
Related children under 18 years	4.4	5.8	5.3	5.3	5.0	6.6	8.2	7.6	(NA)	(NA)
Other family members	3.4	4.6	4.1	4.0	3.9	5.4	6.9	6.3	(NA)	(NA)
Unrelated individuals	2.0	2.5	2.5	2.7	2.8	2.7	3.3	3.4	(NA)	(NA)
PERCENT OF POPULATION										
<b>All persons <sup>3</sup></b>	<b>11.7</b>	<b>14.0</b>	<b>13.8</b>	<b>13.4</b>	<b>13.0</b>	<b>16.4</b>	<b>18.7</b>	<b>18.2</b>	<b>17.9</b>	<b>17.5</b>
In families	10.2	12.6	12.0	12.0	11.6	14.4	16.9	16.2	(NA)	(NA)
Householder	9.2	11.4	10.9	10.7	10.4	13.1	15.3	14.7	14.3	14.1
Related children under 18 years	16.0	20.1	19.8	19.7	19.0	21.3	25.5	25.1	(NA)	(NA)
Other family members	6.1	7.7	6.9	6.9	6.6	9.5	11.3	10.3	(NA)	(NA)
Unrelated individuals	21.9	21.5	21.6	20.8	20.6	30.7	29.0	29.8	29.0	27.9
<b>White</b>	<b>9.0</b>	<b>11.4</b>	<b>11.0</b>	<b>10.4</b>	<b>10.1</b>	<b>13.1</b>	<b>15.7</b>	<b>15.2</b>	<b>14.6</b>	<b>14.2</b>
In families	7.4	9.9	9.4	8.9	8.6	10.9	13.7	13.0	(NA)	(NA)
Householder	6.9	9.1	8.6	8.1	7.9	10.2	12.7	12.0	11.4	11.2
Related children under 18 years	11.4	15.6	15.3	14.7	14.0	15.9	20.5	20.0	(NA)	(NA)
Other family members	4.7	6.4	5.7	5.3	5.0	7.5	9.5	8.6	(NA)	(NA)
Unrelated individuals	19.7	19.6	19.2	18.3	18.1	28.6	27.0	27.3	26.3	25.3
<b>Black</b>	<b>31.0</b>	<b>31.3</b>	<b>31.1</b>	<b>32.4</b>	<b>31.3</b>	<b>39.9</b>	<b>38.8</b>	<b>38.7</b>	<b>39.3</b>	<b>37.9</b>
In families	30.0	30.5	29.7	31.2	30.0	39.0	37.9	37.1	(NA)	(NA)
Householder	27.8	28.7	28.0	29.4	28.2	36.2	35.8	35.0	35.5	34.2
Related children under 18 years	40.8	43.1	42.7	44.3	42.8	51.1	51.0	50.8	(NA)	(NA)
Other family members	18.2	17.7	16.5	17.9	16.8	26.1	24.8	23.3	(NA)	(NA)
Unrelated individuals	37.3	34.7	38.5	37.0	36.8	45.4	42.7	47.3	46.5	45.6
<b>In families with female householder, no husband present <sup>3</sup></b>	<b>32.0</b>	<b>33.5</b>	<b>34.2</b>	<b>32.9</b>	<b>32.1</b>	<b>41.3</b>	<b>41.1</b>	<b>42.4</b>	(NA)	(NA)
In families	34.9	37.6	38.3	38.1	37.2	43.2	44.5	45.6	(NA)	(NA)
Householder	30.4	34.0	34.6	34.2	33.4	38.2	40.8	41.6	40.5	40.4
Related children under 18 years	48.6	53.6	54.4	53.7	52.9	58.0	60.7	62.3	(NA)	(NA)
Other family members	16.9	17.3	17.5	18.1	16.9	23.9	24.2	24.1	(NA)	(NA)
Unrelated individuals	26.0	24.8	25.1	23.6	23.1	37.0	33.9	35.0	(NA)	(NA)
<b>In all other families <sup>3</sup></b>	<b>7.0</b>	<b>8.9</b>	<b>8.2</b>	<b>8.0</b>	<b>7.8</b>	<b>10.6</b>	<b>12.8</b>	<b>11.9</b>	(NA)	(NA)
In families	6.3	8.2	7.3	7.2	6.9	9.8	11.9	10.9	(NA)	(NA)
Householder	5.5	7.0	6.3	6.1	5.9	8.8	10.5	9.5	(NA)	(NA)
Related children under 18 years	8.5	11.7	10.8	10.6	10.0	13.0	16.5	15.4	(NA)	(NA)
Other family members	5.1	6.6	5.8	5.6	5.4	8.1	9.8	8.8	(NA)	(NA)
Unrelated individuals	16.9	17.4	17.5	17.5	17.7	22.9	23.2	23.5	(NA)	(NA)

<sup>1</sup> Population controls based on 1980 census; see text, section 14. <sup>2</sup> Beginning 1987, based on revised processing procedures; data not directly comparable with prior years. <sup>3</sup> Includes races and members of unrelated subfamilies not shown separately.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, No. 161, and unpublished data.

### No. 751. Families Below Poverty Level and Below 125 Percent of Poverty Level: 1959 to 1989

[Families as of **March of the following year**. For explanation of poverty level, see text, section 14]

YEAR	NUMBER BELOW POVERTY LEVEL (1,000)				PERCENT BELOW POVERTY LEVEL				BELOW 125 PERCENT OF POVERTY LEVEL	
	All races <sup>1</sup>	White	Black	His- panic <sup>2</sup>	All races <sup>1</sup>	White	Black	His- panic <sup>2</sup>	Number (1,000)	Percent
1959	8,320	6,185	1,860	(NA)	18.5	15.2	48.1	(NA)	11,790	26.2
1960	8,243	6,115	(NA)	(NA)	18.1	14.9	(NA)	(NA)	11,525	25.4
1970	5,260	3,708	1,481	(NA)	10.1	8.0	29.5	(NA)	7,516	14.4
1972	5,075	3,441	1,529	(NA)	9.3	7.1	29.0	(NA)	7,347	13.5
1973	4,828	3,219	1,527	468	8.8	6.6	28.1	19.8	7,044	12.8
1974	4,922	3,352	1,479	526	8.8	6.8	26.9	21.2	7,195	12.9
1975	5,450	3,838	1,513	627	9.7	7.7	27.1	25.1	7,974	14.2
1976	5,311	3,560	1,617	598	9.4	7.1	27.9	23.1	7,647	13.5
1977	5,311	3,540	1,637	591	9.3	7.0	28.2	21.4	7,713	13.5
1978	5,280	3,523	1,622	559	9.1	6.9	27.5	20.4	7,417	12.8
1979	5,320	3,515	1,666	610	9.1	6.8	27.6	19.7	7,586	13.0
1979 <sup>3</sup>	5,461	3,581	1,722	614	9.2	6.9	27.8	20.3	7,784	13.1
1980	6,217	4,195	1,826	751	10.3	8.0	28.9	23.2	8,764	14.5
1981	6,851	4,670	1,972	792	11.2	8.8	30.8	24.0	9,568	15.7
1982	7,512	5,118	2,158	916	12.2	9.6	33.0	27.2	10,279	16.7
1983	7,647	5,220	2,161	981	12.3	9.7	32.3	25.9	(NA)	(NA)
1984	7,277	4,925	2,094	991	11.6	9.1	30.9	25.2	9,901	15.8
1985	7,223	4,983	1,983	1,074	11.4	9.1	28.7	25.5	9,753	15.3
1986	7,023	4,811	1,987	1,085	10.9	8.6	28.0	24.7	9,476	14.7
1987	7,059	4,592	2,149	1,183	10.8	8.2	29.9	25.8	9,458	14.5
1987 <sup>6</sup>	7,005	4,567	2,117	1,168	10.7	8.1	29.4	25.5	9,338	14.3
1988	6,874	4,471	2,089	1,141	10.4	7.9	28.2	23.7	9,284	14.1
1989	6,784	4,409	2,077	1,133	10.3	7.8	27.8	23.4	9,267	14.0

NA Not available. <sup>1</sup> Includes other races not shown separately. <sup>2</sup> Hispanic persons may be of any race. <sup>3</sup> Population controls based on 1970 census; see text, section 14. <sup>4</sup> Population controls based on 1980 census; see text, section 14. <sup>5</sup> Beginning 1983, data based on revised Hispanic population controls; data not directly comparable with prior years. <sup>6</sup> Beginning 1987, based on revised processing procedures; data not comparable with prior years. See text, section 14, and source.  
Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, No. 168.

### No. 752. Families Below Poverty Level—Selected Characteristics, by Race and Hispanic Origin: 1989

[Families as of **March 1990**. For explanation of poverty, see text, section 14. For composition of regions, see fig. 1, inside front cover]

CHARACTERISTIC	NUMBER BELOW POVERTY LEVEL (1,000)				PERCENT BELOW POVERTY LEVEL			
	All races <sup>1</sup>	White	Black	His- panic <sup>2</sup>	All races <sup>1</sup>	White	Black	His- panic <sup>2</sup>
<b>Total</b>	<b>6,784</b>	<b>4,409</b>	<b>2,077</b>	<b>1,133</b>	<b>10.3</b>	<b>7.8</b>	<b>27.8</b>	<b>23.4</b>
Age of householder:								
15 to 24 years old	869	535	312	160	30.4	23.9	60.6	39.4
25 to 34 years old	2,218	1,406	718	390	14.9	11.4	35.3	26.7
35 to 44 years old	1,567	1,012	461	292	9.4	7.2	23.6	23.8
45 to 54 years old	738	500	193	141	6.3	5.0	16.3	17.7
55 to 64 years old	689	447	220	81	7.4	5.5	24.3	15.6
65 years old and over	703	510	173	70	6.6	5.3	19.6	16.0
Northeast	1,092	767	274	225	8.1	6.5	21.4	27.6
Midwest	1,521	1,001	488	74	9.5	7.0	33.7	22.3
South	2,897	1,663	1,179	403	12.5	8.9	28.4	25.2
West	1,274	978	137	432	9.6	8.4	22.9	20.6
Size of family:								
Two persons	2,264	1,601	585	229	8.2	6.6	22.7	18.6
Three persons	1,504	915	532	239	9.8	7.1	27.3	21.5
Four persons	1,416	958	382	281	10.1	8.0	25.8	24.5
Five persons	801	501	272	168	13.5	10.3	33.2	23.6
Six persons	421	234	165	105	21.1	15.6	44.3	30.3
Seven persons or more	378	199	141	111	32.3	25.5	51.2	38.0
Mean size	3.55	3.45	3.68	4.12	(X)	(X)	(X)	(X)
Mean number of children per family with children	2.26	2.18	2.39	2.53	(X)	(X)	(X)	(X)
Education of householder: <sup>3</sup>								
Elementary: Less than 8 years	956	656	246	357	25.5	22.7	34.8	32.5
8 years	474	364	103	98	15.9	14.0	33.4	29.2
High school: 1 to 3 years	1,369	801	530	191	19.2	14.0	41.9	28.4
4 years	2,070	1,394	607	196	8.9	7.0	23.4	16.2
College: 1 year or more	922	595	251	80	3.6	2.6	12.3	8.1
Work experience of householder in 1989: <sup>4</sup>								
Total <sup>5</sup>	6,784	4,409	2,077	1,133	10.3	7.8	27.8	23.4
Worked	3,319	2,331	866	605	6.6	5.3	16.9	16.4
50 to 52 weeks	1,420	1,035	337	271	3.5	2.9	8.9	10.0
49 weeks or less	1,899	1,296	529	334	19.0	15.4	39.7	34.1
Did not work	3,444	2,068	1,201	527	23.4	17.1	54.3	47.8

X Not applicable. <sup>1</sup> Includes other races not shown separately. <sup>2</sup> Hispanic persons may be of any race. <sup>3</sup> Householder 25 years old and over. <sup>4</sup> Restricted to families with civilian workers. <sup>5</sup> Includes Armed Forces not shown separately.  
Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, No. 168.

**No. 753. Persons Below Poverty Level and Poverty Rate, by Definition of Income: 1989**

[Persons as of March 1990. Based on Current Population Survey; see text, sections 1 and 14. For explanation of definitions of income, see text, section 14 and source]

Definition number	DEFINITION OF INCOME	NUMBER BELOW POVERTY LEVEL (1,000)				PERCENT BELOW POVERTY LEVEL			
		All races <sup>1</sup>	White	Black	Hispanic <sup>2</sup>	All races <sup>1</sup>	White	Black	Hispanic <sup>2</sup>
	All persons. . . . .	245,992	206,853	30,332	20,746	(X)	(X)	(X)	(X)
	INCOME BEFORE TAXES								
1	Money income excluding capital gains (current measure) <sup>3</sup>	31,534	20,788	9,305	5,430	12.8	10.0	30.7	26.2
2	Definition 1 less government money transfers	49,125	35,650	11,582	6,493	20.0	17.2	38.2	31.3
3	Definition 2 plus capital gains	48,990	35,550	11,548	6,441	19.9	17.2	38.1	31.0
4	Definition 3 plus health insurance supplements to wage or salary income <sup>4</sup>	47,713	34,541	11,301	6,200	19.4	16.7	37.3	29.9
	INCOME AFTER TAXES								
5	Definition 4 less Social Security payroll taxes	50,018	36,419	11,610	6,752	20.3	17.6	38.3	32.5
6	Definition 5 less Federal income taxes	49,333	35,889	11,479	6,577	20.1	17.3	37.8	31.7
7	Definition 6 less State income taxes	49,850	36,274	11,604	6,601	20.3	17.5	38.3	31.8
8	Definition 7 plus nonmeans-tested government cash transfers <sup>5</sup>	34,296	22,651	9,947	5,870	13.9	11.0	32.8	28.3
10	Definition 8 plus nonmeans-tested government noncash transfers <sup>6</sup>	33,049	21,768	9,630	5,753	13.4	10.5	31.7	27.7
11	Definition 10 plus means-tested government cash transfers <sup>7</sup>	30,715	20,382	8,890	5,401	12.5	9.9	29.3	26.0
13	Definition 11 plus means-tested government noncash transfers <sup>8</sup>	25,620	17,246	7,255	4,466	10.4	8.3	23.9	21.5
14	Definition 13 plus net imputed return on equity in own home <sup>9</sup>	22,810	14,337	6,432	4,019	8.9	6.9	21.2	19.4

X Not applicable. <sup>1</sup> Includes other races not shown separately. <sup>2</sup> Hispanic persons may be of any race. <sup>3</sup> Official definition of income based on money income before taxes and includes government cash transfers. <sup>4</sup> Employer contributions to the health insurance plans of employees. <sup>5</sup> Includes Social Security and Railroad Retirement, veterans payments, and unemployment and workers' compensation. <sup>6</sup> Includes Medicare and subsidies from regular price school lunches. <sup>7</sup> Includes AFDC or other assistance or welfare payments and Supplemental Security Income. Households must meet certain eligibility requirements in order to qualify for these benefits. (See section 12.) <sup>8</sup> Includes Medicaid, food stamps, subsidies from free or reduced-price school lunches, and rent subsidies. <sup>9</sup> Estimated amount of income a household would receive if it chose to shift amount held as home equity into an interest bearing account.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, No. 169-RD.

**No. 754. Families Below Poverty Level—Alternative Inflation Adjustment: 1970 to 1988**

[In thousands, except percent. Families include unrelated individuals and are therefore not directly comparable to Census Bureau definitions; see text, section 1. Adjustments for family size and inflation were made to family income and poverty thresholds; see text, section 14. Based on March Current Population Survey, 1971-89]

ITEM	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988
NUMBER OF FAMILIES BELOW POVERTY LEVEL										
All families . . . . .	9,775	9,630	10,869	12,142	12,695	12,091	12,203	12,269	12,468	12,515
Families with children <sup>1</sup> . . . . .	3,330	3,903	4,432	5,291	5,463	5,230	5,177	5,199	5,231	5,179
Married couples . . . . .	1,558	1,829	1,555	1,969	2,051	1,877	1,803	1,644	1,638	1,515
Single mothers . . . . .	1,509	2,050	2,498	2,890	2,948	2,918	2,957	3,121	3,142	3,195
Nonelderly units:										
Childless families . . . . .	662	611	587	920	954	907	898	826	795	796
Unrelated individuals . . . . .	2,146	2,677	3,307	3,578	3,975	3,890	3,990	4,016	4,100	4,214
Elderly units:										
Childless families . . . . .	965	504	574	527	529	408	420	413	466	492
Unrelated individuals . . . . .	2,672	1,936	1,969	1,827	1,774	1,656	1,718	1,815	1,876	1,834
PERCENT BELOW POVERTY LEVEL										
All families . . . . .	15	13	12	14	14	13	13	13	13	12
Families with children . . . . .	11	12	13	16	16	16	15	15	15	15
Married couples . . . . .	8	7	6	8	9	8	7	7	7	6
Single mothers . . . . .	45	44	42	47	46	44	44	46	45	45
Nonelderly units:										
Childless families . . . . .	4	4	3	5	5	4	4	4	4	4
Unrelated individuals . . . . .	23	20	17	18	19	18	18	18	17	17
Elderly units:										
Childless families . . . . .	14	6	6	6	6	4	4	4	4	5
Unrelated individuals . . . . .	46	28	25	22	21	19	19	20	20	19

<sup>1</sup> Includes other types of families not shown separately.

Source: Congressional Budget Office, *Trends in Family Income: 1970-1986*, February 1988, and Congressional Budget Office tabulations.

**No. 755. Adjusted Poverty Thresholds, Weighted Average by Family Size: 1970 to 1988**

[Adjustments for changes in family size and for inflation using the CPI-U-X1 have been made; see text, section 14]

SIZE OF UNIT	1974	1975	1980	1982	1983	1984	1985	1986	1987	1988
1 person (unrelated individual) . . .	1,908	2,612	3,843	4,458	4,604	4,801	4,974	5,068	5,308	5,534
Under 65 years . . .	1,963	2,682	3,935	4,566	4,713	4,912	5,088	5,186	5,428	5,654
65 years and over . . .	1,818	2,475	3,623	4,208	4,345	4,529	4,690	4,780	5,004	5,212
2 persons . . .	2,466	3,362	4,920	5,714	5,899	6,151	6,366	6,493	6,795	7,077
Householder under 65 years . . .	2,544	3,469	5,079	5,901	6,093	6,352	6,578	6,706	7,019	7,310
Householder 65 years and over . . .	2,293	3,124	4,571	5,309	5,480	5,715	5,916	6,031	6,313	6,575
3 persons . . .	3,027	4,117	6,022	6,998	7,222	7,529	7,799	7,948	8,319	8,667
4 persons . . .	3,876	5,275	7,719	8,972	9,260	9,651	9,997	10,191	10,666	11,108
5 persons . . .	4,571	6,233	9,142	10,629	10,963	11,431	11,832	12,061	12,619	13,141
6 persons . . .	5,138	7,016	10,338	12,015	12,401	12,924	13,369	13,633	14,247	14,834
7 or more persons . . .	6,318	8,653	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
7 persons . . .	(NA)	(NA)	11,706	13,679	14,103	14,642	15,152	15,509	16,212	16,763
8 persons . . .	(NA)	(NA)	13,025	15,210	15,622	16,339	16,840	17,094	17,926	18,628
9 or more persons . . .	(NA)	(NA)	15,499	17,920	18,479	19,328	20,089	20,465	21,224	22,169

NA Not available.

Source: Congressional Budget Office, *Trends in Family Income: 1970 to 1986*, February 1988 and Congressional Budget Office tabulations.**No. 756. Persons Below Poverty Level—Alternative Inflation Adjustment: 1974 to 1989**

[Based on Current Population Survey. Annual adjustment for cost-of-living changes are based on the CPI-U-X1; see text, section 14]

YEAR	NUMBER BELOW POVERTY LEVEL (1,000)				PERCENT BELOW POVERTY LEVEL			
	All races <sup>1</sup>	White	Black	Hispanic <sup>2</sup>	All races <sup>1</sup>	White	Black	Hispanic <sup>2</sup>
1974 . . .	22,076	14,870	6,773	2,448	10.5	8.2	28.6	21.9
1975 . . .	24,232	16,547	7,170	2,787	11.5	9.0	29.8	25.1
1976 . . .	23,347	15,513	7,202	2,570	11.0	8.4	29.5	22.8
1977 . . .	22,933	15,190	7,230	2,480	10.7	8.2	29.3	20.6
1978 . . .	22,472	14,829	7,085	2,416	10.4	8.0	28.4	20.0
1979 . . .	23,504	15,382	7,388	2,614	10.5	8.0	28.5	19.5
1980 . . .	25,869	17,283	7,671	3,134	11.5	9.0	29.0	23.0
1981 . . .	27,731	18,456	8,311	3,302	12.2	9.5	31.0	23.6
1982 . . .	30,288	20,385	8,824	3,842	13.2	10.4	32.4	26.7
1983 . . .	31,649	21,180	9,130	4,215	13.7	10.7	33.0	25.5
1984 . . .	29,971	20,043	8,765	4,367	12.8	10.1	31.2	25.8
1985 . . .	29,558	20,157	8,284	4,712	12.5	10.0	29.1	26.1
1986 . . .	29,101	19,629	8,391	4,570	12.2	9.7	29.1	24.4
1987 . . .	28,890	18,777	8,744	4,899	12.0	9.2	29.8	25.3
1988 . . .	28,544	18,326	8,707	4,914	11.7	8.9	29.2	24.5
1989 . . .	27,967	18,152	8,504	4,827	11.4	8.8	28.0	23.3

<sup>1</sup> Includes races not shown separately. <sup>2</sup> Hispanic persons may be of any race.Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, No. 168.**No. 757. Weighted Average Poverty Thresholds Based on the CPI-U-X1, by Size: 1974 to 1989**

SIZE OF UNIT	1974	1975	1980	1983	1984	1985	1986	1987	1988	1989
1 person (unrelated individual) . . .	2,417	2,618	3,851	4,657	4,856	5,032	5,127	5,316	5,543	5,807
Under 65 years . . .	2,482	2,688	3,942	4,766	4,969	5,146	5,246	5,437	5,663	5,936
65 years and over . . .	2,290	2,481	3,629	4,394	4,581	4,744	4,835	5,012	5,221	5,472
2 persons . . .	3,110	3,370	3,729	5,965	6,222	6,439	6,568	6,806	7,089	7,431
Householder under 65 years . . .	3,208	3,477	5,086	6,162	6,425	6,653	6,783	7,031	7,322	7,676
Householder 65 years and over . . .	2,888	3,130	4,579	5,542	5,780	5,983	6,100	6,323	6,586	6,902
3 persons . . .	3,813	4,126	6,033	7,304	7,616	7,888	8,039	8,333	8,681	9,095
4 persons . . .	4,880	5,286	7,732	9,365	9,761	10,111	10,308	10,683	11,126	11,662
5 persons . . .	5,763	6,247	9,159	11,086	11,562	11,968	12,200	12,640	13,162	13,792
6 persons . . .	6,489	7,032	10,356	12,541	13,072	13,522	13,789	14,270	14,859	15,569
7 or more persons . . .	7,994	8,672	12,825	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
7 persons . . .	(NA)	(NA)	(NA)	14,262	14,810	15,325	15,687	16,239	16,790	17,631
8 persons . . .	(NA)	(NA)	(NA)	15,798	16,526	17,033	17,290	17,956	18,659	19,624
9 or more persons . . .	(NA)	(NA)	(NA)	18,687	19,550	20,319	20,700	21,259	22,205	23,444

NA Not available.

Source: U.S. Bureau of the Census, *Current Population Reports*, unpublished data.

### No. 758. Money Income of Households—Percent Distribution by Quintile and Index of Income Concentration, by Definition of Income: 1989

[Based on 93,347,000 households as of March 1990. Based on Current Population Survey; see text, sections 1 and 14. For explanation of money income definitions, see text, section 14. For definition of median, see Guide to Tabular Presentation]

Definition number	DEFINITION OF INCOME	Total income (bil. dol.)	SHARE OF AGGREGATE INCOME BY QUINTILE					Index of income concentration <sup>1</sup>	Median income (dol.)	
			Lowest quintile	Second quintile	Third quintile	Fourth quintile	Highest quintile			
INCOME BEFORE TAXES										
1	Money income excluding capital gains (current) measure <sup>2</sup>	3,409	3.9	9.6	15.9	24.0	46.7	0.429	28,906	
2	Definition 1 less government money transfers	3,151	1.5	8.2	15.9	25.0	49.4	0.481	26,715	
3	Definition 2 plus capital gains	3,286	1.5	7.8	15.3	24.2	51.1	0.496	26,868	
4	Definition 3 plus health insurance supplements to wage or salary income <sup>3</sup>	3,412	1.4	7.8	15.4	24.4	50.9	0.495	28,091	
INCOME AFTER TAXES										
5	Definition 4 less Social Security payroll taxes	3,233	1.4	7.8	15.3	24.1	51.3	0.498	26,379	
6	Definition 5 less Federal income taxes	2,813	1.7	8.6	16.1	24.8	48.9	0.474	24,168	
7	Definition 6 less State income taxes	2,691	1.7	8.8	16.3	24.9	48.2	0.467	23,442	
8	Definition 7 plus nonmeans-tested government cash transfers <sup>4</sup>	2,922	3.9	10.3	16.4	23.9	45.5	0.417	25,641	
10	Definition 8 plus nonmeans-tested government noncash transfers <sup>5</sup>	2,989	4.1	10.7	16.6	23.8	44.8	0.407	26,523	
11	Definition 10 plus means-tested government cash transfers <sup>6</sup>	3,017	4.6	10.7	16.5	23.6	44.5	0.399	26,644	
13	Definition 11 plus means-tested government noncash transfers <sup>7</sup>	3,047	5.0	10.9	16.5	23.4	44.1	0.391	26,859	
14	Definition 13 plus net imputed return on equity in own home <sup>8</sup>	3,390	5.1	10.8	16.4	23.5	44.3	0.392	29,620	

<sup>1</sup> A statistical measure of income equality ranging from 0 to 1. A measure of 1 indicates perfect inequality (i.e., one person having all the wealth and the rest having none). A measure of 0 indicates perfect equality (i.e., all persons having equal shares of wealth.)

<sup>2</sup> Official definition of income based on money income before taxes and includes government cash transfers. Employer contributions to the health insurance plans of employees. <sup>3</sup> Includes Social Security and Railroad Retirement, Veterans payments, and unemployment and workers' compensation. <sup>4</sup> Includes Medicare and subsidies from regular price school lunches. <sup>5</sup> Includes AFDC or other assistance or welfare payments and Supplemental Security Income. Households must meet certain eligibility requirements in order to qualify for these benefits (see Section 12.) <sup>6</sup> Includes Medicaid, food stamps, subsidies from free or reduced price school lunches, and rent subsidies. <sup>7</sup> Includes Medicaid, food stamps, subsidies from free or reduced price school lunches, and rent subsidies. <sup>8</sup> Estimated amount of income a household would receive if it chose to shift amount held as home equity into an interest bearing account.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, No. 169-RD.

### No. 759. Household Net Worth—Ownership, Median Value of Asset Holdings, and Distribution of Net Worth, by Asset Type: 1984 and 1988

[Net worth: the sum of the market value of assets owned by every member of the household minus liabilities (secured or unsecured) owed by household members. Equity values of asset and liabilities held at the end of months September-December 1984, December 1987-March 1988, and January-April 1988. Excludes persons in group quarters. Based on the Survey of Income and Program Participation; see text, section 14. For definition of median, see Guide to Tabular Presentation]

ASSET TYPE	1984 (in constant (1988) dollars)			1988		
	Percent of households owning asset type	Median value of holdings for asset owner	Percent distribution of net worth	Percent of households owning asset type	Median value of holdings for asset owner	Percent distribution of net worth
Interest-earning assets at financial institutions	71.8	3,528	14.5	72.9	3,494	14.1
Savings accounts	62.9	(NA)	(NA)	61.6	(NA)	(NA)
Money market deposit accounts	15.7	(NA)	(NA)	15.2	(NA)	(NA)
Certificates of deposit	19.1	(NA)	(NA)	17.7	(NA)	(NA)
Interest-earning checking	24.8	(NA)	(NA)	34.3	(NA)	(NA)
Other interest-earning assets	8.5	11,084	3.2	9.4	10,911	4.2
Money market funds	3.8	(NA)	(NA)	3.6	(NA)	(NA)
Government securities	1.4	(NA)	(NA)	2.2	(NA)	(NA)
Corporate or municipal bonds	2.6	(NA)	(NA)	2.8	(NA)	(NA)
Other interest-earning assets	2.8	(NA)	(NA)	3.3	(NA)	(NA)
Checking accounts <sup>1</sup>	53.9	511	0.6	48.3	487	0.6
Stocks and mutual fund shares	20.0	4,425	6.8	21.8	4,510	6.5
Own home	64.3	46,106	41.3	63.6	43,070	43.0
Rental property	9.8	39,235	9.0	9.0	37,439	7.9
Other real estate	10.0	16,904	4.4	10.5	18,064	4.3
Vehicles	85.8	4,558	5.9	86.3	4,416	5.8
Business or profession	12.9	7,270	10.3	12.5	10,446	8.8
U.S. savings bonds	15.0	342	0.5	17.5	546	0.6
IRA or KEOGH accounts	19.5	5,480	2.2	24.2	9,016	4.2
Other financial investments <sup>2</sup>	7.0	14,567	5.0	6.6	16,204	3.0
Unsecured liabilities <sup>3</sup>	6.7	1,538	-3.5	5.9	1,820	-2.9

NA Not available. <sup>1</sup> Regular non-interest-earning checking accounts. <sup>2</sup> Includes mortgages held from sale of real estate, amount due from sale of business, unit trusts, and other financial investments. <sup>3</sup> Since net worth is the value of assets less liabilities, unsecured liabilities are subtracted from the distribution of net worth and are shown as negatives. Unsecured liabilities include credit card or store bills, bank loans, and other unsecured debts.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-70, No. 22.



**No. 760. Household Net Worth—Percent Distribution, by Selected Characteristics: 1988**

[See headnote, table 759. Based on the Survey of Income and Program Participation; see text, section 14]

CHARACTERISTIC	Number of households (1,000)	PERCENT DISTRIBUTION OF HOUSEHOLDS BY NET WORTH								Median (dol.)
		Zero or negative	\$1 to \$4,999	\$5,000 to \$9,999	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 or over	
<b>Total</b> . . . . .	<b>91,554</b>	<b>11.1</b>	<b>15.1</b>	<b>6.2</b>	<b>11.5</b>	<b>13.0</b>	<b>16.7</b>	<b>17.5</b>	<b>8.8</b>	<b>35,752</b>
Age of householder:										
Under 35 years old . . . . .	25,379	19.4	27.6	11.4	16.2	11.1	8.0	4.8	1.5	6,078
35 to 44 years old . . . . .	19,916	11.3	13.3	6.4	13.4	15.3	18.2	15.8	6.5	33,183
45 to 54 years old . . . . .	13,613	8.2	10.5	4.5	9.1	13.7	21.1	21.9	11.1	57,466
55 to 64 years old . . . . .	13,090	6.4	7.5	2.5	7.4	12.6	20.5	27.5	15.6	80,032
65 years old and over . . . . .	19,556	5.2	8.9	3.1	8.1	13.2	20.9	26.1	14.4	73,471
Race of householder:										
White . . . . .	79,169	8.7	13.9	5.9	11.5	13.1	17.7	19.3	9.8	43,279
Black . . . . .	10,278	29.1	22.8	8.1	11.6	12.9	10.3	4.4	0.8	4,169
Hispanic <sup>1</sup> . . . . .	5,916	23.8	24.8	6.5	11.2	10.7	11.3	9.3	2.4	5,524
Region:										
Northeast . . . . .	18,418	12.8	13.6	5.1	8.1	9.8	15.7	23.5	11.3	51,536
Midwest . . . . .	23,649	10.0	13.1	6.7	12.8	15.8	18.2	16.0	7.4	36,304
South . . . . .	31,219	11.2	15.9	6.9	13.1	14.1	17.6	14.2	6.9	28,987
West . . . . .	18,268	10.6	17.6	5.6	10.6	10.8	14.4	19.1	11.3	36,081
Type of household:										
Married-couple . . . . .	51,697	6.1	10.0	5.3	11.5	13.7	19.4	22.1	12.0	57,134
Male householder . . . . .	14,383	14.2	23.6	8.7	13.4	12.5	11.5	10.6	5.5	13,053
Female householder . . . . .	25,473	19.5	20.6	6.7	10.5	12.1	14.3	12.2	4.2	13,571
Education of householder:										
Less than 12 years . . . . .	23,775	15.6	19.3	5.1	10.9	14.4	16.7	13.5	4.6	23,804
High school, 4 years . . . . .	28,664	9.9	16.3	6.5	11.8	13.6	17.9	17.0	7.1	34,334
College: 1-3 years . . . . .	19,807	10.7	15.4	7.5	13.2	12.4	15.2	17.2	8.4	30,789
4 or more years . . . . .	19,308	7.7	7.7	6.0	10.2	11.2	16.6	23.7	16.9	69,983
Tenure:										
Owner-occupied . . . . .	58,268	1.5	2.9	3.8	11.6	17.1	24.3	25.7	13.1	72,768
Renter-occupied . . . . .	33,285	27.8	36.4	10.4	11.4	5.9	3.5	3.2	1.3	2,136

<sup>1</sup> Hispanic persons may be of any race.Source: U.S. Bureau of the Census, *Current Population Reports*, series P-70, No. 22.**No. 761. Top Wealthholders With Net Worth Under \$10,000,000 and Gross Assets of \$500,000 or More, by State of Residence: 1986**

[All figures are estimates based on estate tax return samples. Net worth equals assets minus debts and mortgages. For composition of regions, see fig. 1, inside front cover]

REGION, DIVISION, AND STATE	Number of top wealth-holders (1,000)	Total assets (bil. dol.)	Net worth (bil. dol.)	REGION, DIVISION, AND STATE	Number of top wealth-holders (1,000)	Total assets (bil. dol.)	Net worth (bil. dol.)	REGION, DIVISION, AND STATE	Number of top wealth-holders (1,000)	Total assets (bil. dol.)	Net worth (bil. dol.)
<b>Total</b> . . . . .	<b>3,304.3</b>	<b>3,743.6</b>	<b>3,230.0</b>	<b>WI</b> . . . . .	<b>44.8</b>	<b>48.1</b>	<b>42.7</b>	<b>MS.</b> . . . . .	<b>23.5</b>	<b>23.4</b>	<b>17.2</b>
Region:				<b>W.N.C.</b> . . . . .	<b>185.7</b>	<b>186.6</b>	<b>158.7</b>	<b>W.S.C.</b> . . . . .	<b>343.1</b>	<b>404.9</b>	<b>324.8</b>
Northeast . . . . .	832.5	918.1	821.3	MN . . . . .	35.2	36.4	31.0	AR . . . . .	16.7	18.8	15.2
Midwest . . . . .	597.5	625.2	540.4	IA . . . . .	34.5	28.9	24.9	LA . . . . .	38.3	42.0	33.6
South . . . . .	1,047.4	1,204.5	1,024.6	MO . . . . .	53.9	61.3	54.3	OK . . . . .	37.6	48.6	41.3
West . . . . .	822.5	991.3	839.4	ND . . . . .	9.4	7.5	4.5	TX . . . . .	250.6	295.5	234.8
N.E. . . . .	<b>239.9</b>	<b>265.6</b>	<b>234.4</b>	SD . . . . .	7.0	4.8	3.6	<b>MT.</b> . . . . .	<b>163.3</b>	<b>174.7</b>	<b>148.5</b>
ME . . . . .	14.9	11.8	10.3	NE . . . . .	19.8	18.4	14.7	MT . . . . .	7.2	6.4	5.3
NH . . . . .	20.2	24.9	20.2	KS . . . . .	25.9	29.3	25.8	ID . . . . .	11.3	10.1	8.2
VT . . . . .	4.8	5.5	5.0	<b>S.A.</b> . . . . .	<b>555.5</b>	<b>641.5</b>	<b>563.2</b>	WY . . . . .	6.4	6.7	4.4
MA . . . . .	113.2	117.2	104.2	DE . . . . .	7.1	6.3	6.0	CO . . . . .	52.6	48.4	41.2
RI . . . . .	12.1	15.9	14.0	DC . . . . .	14.0	18.0	16.6	NM . . . . .	12.3	15.8	14.2
CT . . . . .	74.7	90.3	80.6	MD . . . . .	49.7	53.4	47.9	AZ . . . . .	52.9	60.6	51.0
M.A. . . . .	<b>592.6</b>	<b>652.5</b>	<b>587.0</b>	VA . . . . .	76.5	75.0	65.9	UT . . . . .	7.3	8.8	7.5
NY . . . . .	339.6	381.5	345.6	WV . . . . .	11.2	10.0	9.4	NV . . . . .	13.3	18.0	16.7
NJ . . . . .	139.2	150.1	133.6	NC . . . . .	66.3	80.4	71.4	<b>Pac.</b> . . . . .	<b>659.2</b>	<b>816.6</b>	<b>690.9</b>
PA . . . . .	113.8	120.9	107.7	SC . . . . .	29.4	31.1	27.6	WA . . . . .	55.6	56.6	47.6
E.N.C. . . . .	<b>411.8</b>	<b>438.6</b>	<b>381.7</b>	GA . . . . .	62.6	72.5	62.9	OR . . . . .	25.4	37.0	31.8
OH . . . . .	106.4	103.9	90.7	FL . . . . .	238.8	294.9	255.5	CA . . . . .	558.3	701.2	593.5
IN . . . . .	39.7	39.7	34.0	<b>E.S.C.</b> . . . . .	<b>148.8</b>	<b>158.1</b>	<b>136.6</b>	AK . . . . .	8.8	10.4	8.1
IL . . . . .	148.5	175.2	148.0	KY . . . . .	34.9	38.9	32.9	HI . . . . .	11.0	11.3	9.9
MI . . . . .	72.4	71.7	66.2	TN . . . . .	51.4	55.3	49.6	Other areas <sup>1</sup> . . . . .	4.5	4.6	4.2
				AL . . . . .	39.0	40.5	36.9				

<sup>1</sup> U.S. citizens domiciled abroad.Source: U.S. Internal Revenue Service, *Statistics of Income Bulletin*, Spring 1990.

### No. 762. Gross and Net Stock of Fixed Reproducible Tangible Wealth in Current and Constant (1982) Dollars: 1970 to 1989

[In billions of dollars. As of December 31]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>CURRENT DOLLARS</b>													
Gross stock, total...	4,335	7,805	12,366	13,914	15,330	15,873	16,768	17,733	18,770	19,787	21,134	22,395	23,789
Equipment	1,583	2,686	4,247	4,849	5,432	5,840	6,160	6,499	6,900	7,415	7,873	8,458	9,012
Structures	2,752	4,919	8,119	9,065	9,899	10,032	10,607	11,235	11,870	12,372	13,261	13,937	14,777
Private	2,649	4,756	7,902	8,943	10,007	10,343	10,929	11,566	12,105	12,757	13,707	14,424	15,397
Nonresidential equipment	679	1,252	2,031	2,353	2,680	2,894	3,008	3,153	3,287	3,511	3,685	3,943	4,186
Nonresidential structures	774	1,409	2,194	2,491	2,823	2,965	3,087	3,280	3,420	3,545	3,774	3,953	4,202
Residential	1,195	2,094	3,677	4,098	4,503	4,484	4,834	5,133	5,399	5,700	6,247	6,528	7,010
Corporate	1,115	2,056	3,264	3,748	4,259	4,542	4,706	4,977	5,202	5,499	5,828	6,202	6,598
Noncorporate	1,533	2,700	4,638	5,195	5,748	5,801	6,223	6,589	6,903	7,258	7,879	8,222	8,799
Government	1,006	1,730	2,704	2,997	3,162	3,234	3,387	3,561	3,648	3,967	4,116	4,394	4,561
Equipment	224	314	456	521	590	651	700	739	796	841	877	938	996
Structures	782	1,416	2,248	2,476	2,572	2,583	2,687	2,822	3,052	3,127	3,240	3,456	3,566
Federal	371	549	802	910	997	1,059	1,123	1,162	1,257	1,309	1,347	1,431	1,501
Military	228	316	465	533	586	636	683	708	784	825	845	905	942
State and local	635	1,181	1,902	2,087	2,165	2,175	2,264	2,400	2,591	2,658	2,769	2,963	3,060
Consumer durable goods	680	1,119	1,760	1,974	2,162	2,295	2,452	2,606	2,817	3,063	3,311	3,577	3,831
Net stock, total...	2,637	4,600	7,436	8,312	9,094	9,310	9,775	10,325	10,912	11,493	12,273	12,976	13,762
Private	1,637	2,934	4,867	5,484	6,104	6,242	6,583	6,939	7,255	7,637	8,200	8,612	9,179
Government	627	1,070	1,644	1,806	1,894	1,926	2,005	2,100	2,259	2,323	2,409	2,559	2,649
Consumer durable goods	372	596	925	1,020	1,096	1,142	1,207	1,266	1,398	1,534	1,664	1,806	1,934
<b>CONSTANT (1982) DOLLARS</b>													
Gross stock, total...	10,743	12,772	14,604	15,042	15,467	15,834	16,245	16,762	17,335	17,923	18,510	19,131	19,749
Equipment	3,344	4,236	5,146	5,355	5,558	5,741	5,952	6,223	6,537	6,866	7,211	7,592	7,998
Structures	7,399	8,536	9,458	9,687	9,909	10,093	10,293	10,539	10,798	11,057	11,300	11,539	11,751
Private	6,989	8,313	9,514	9,813	10,106	10,334	10,579	10,904	11,254	11,603	11,939	12,302	12,646
Nonresidential equipment	1,620	2,084	2,537	2,651	2,759	2,834	2,913	3,024	3,154	3,284	3,418	3,581	3,751
Nonresidential structures	2,118	2,429	2,686	2,769	2,865	2,951	3,020	3,104	3,195	3,262	3,314	3,367	3,407
Residential	3,251	3,800	4,291	4,393	4,481	4,548	4,646	4,776	4,906	5,058	5,207	5,354	5,488
Corporate	2,893	3,480	4,036	4,194	4,354	4,481	4,600	4,771	4,969	5,152	5,323	5,523	5,722
Noncorporate	4,106	4,833	5,477	5,619	5,752	5,853	5,979	6,132	6,285	6,451	6,616	6,779	6,924
Government	2,548	2,839	3,056	3,118	3,171	3,230	3,291	3,348	3,422	3,502	3,594	3,681	3,776
Equipment	518	532	575	592	609	637	665	689	725	764	815	863	919
Structures	2,030	2,307	2,481	2,525	2,562	2,594	2,627	2,659	2,697	2,738	2,779	2,818	2,856
Federal	922	934	980	999	1,018	1,046	1,075	1,098	1,133	1,168	1,216	1,256	1,307
Military	554	544	574	588	600	624	647	666	695	729	770	806	846
State and local	1,626	1,905	2,076	2,118	2,153	2,185	2,217	2,250	2,290	2,334	2,378	2,425	2,469
Consumer durable goods	1,206	1,620	2,034	2,111	2,190	2,270	2,375	2,511	2,658	2,817	2,978	3,148	3,328
Net stock, total...	6,566	7,743	8,762	8,972	9,165	9,299	9,469	9,750	10,079	10,418	10,741	11,084	11,411
Private	4,313	5,130	5,841	6,005	6,156	6,244	6,349	6,535	6,741	6,941	7,125	7,332	7,515
Government	1,594	1,753	1,852	1,878	1,898	1,925	1,949	1,974	2,012	2,053	2,106	2,148	2,198
Consumer durable goods	659	860	1,069	1,090	1,111	1,129	1,170	1,242	1,327	1,423	1,511	1,605	1,699

Source: U.S. Bureau of Economic Analysis, *Fixed Reproducible Tangible Wealth in the United States, 1925-85 and Survey of Current Business*, August issues.

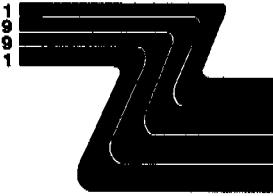
### No. 763. Top Wealthholders With Gross Assets of \$500,000 or More, by Size of Net Worth and Sex: 1986

[All figures are estimates based on estate tax return samples. Net worth equals assets minus debts and mortgages]

ITEM	Unit	Total	SIZE OF NET WORTH (\$1,000)						
			Under \$250 <sup>1</sup>	\$250 to \$499	\$500 to \$999	\$1,000 to \$2,499	\$2,500 to \$4,999	\$5,000 to \$9,999	\$10,000 or more
Top wealthholders, number	1,000	3,329.4	291.2	548.9	1,548.3	710.0	150.3	55.5	25.0
Total assets	Mill. dol.	4,321,202	118,635	306,901	1,182,818	1,148,848	574,279	412,160	577,581
Net worth	Mill. dol.	3,766,706	6,460	219,171	1,066,541	1,050,716	513,217	373,847	536,756
<b>MALE</b>									
Top wealthholders, number	1,000	1,957.4	248.6	389.1	789.0	389.2	93.0	32.2	16.4
Total assets	Mill. dol.	2,557,384	103,475	211,403	618,115	642,995	356,532	242,260	382,584
Net worth	Mill. dol.	2,162,692	777	152,548	543,976	579,562	318,340	216,925	350,564
<b>FEMALE</b>									
Top wealthholders, number	1,000	1,372.0	42.7	159.8	759.3	320.9	57.3	23.3	8.7
Total assets	Mill. dol.	1,763,838	15,159	95,499	564,703	505,853	217,748	169,900	194,976
Net worth	Mill. dol.	1,604,014	5,683	66,623	522,565	471,153	194,876	156,921	186,192

<sup>1</sup> Includes those wealthholders with negative net worth.

Source: U.S. Internal Revenue Service, *Statistics of Income Bulletin*, Spring 1990.



## Section 15 Prices

This section presents indexes of producer and consumer prices, actual prices for selected commodities and energy prices. The primary sources of these data are monthly publications of the Department of Labor, Bureau of Labor Statistics (BLS), which include *Monthly Labor Review*, *Consumer Price Index, Detailed Report*; and *Producer Price Indexes*. The Bureau of Economic Analysis of the Department of Commerce is the source for gross national product implicit price deflators; see table 779.

**Producer price index (PPI).**—This index, dating from 1890, is the oldest continuous statistical series published by BLS. It is designed to measure average changes in prices received by producers of all commodities, at all stages of processing, produced in the U.S.

The index has undergone several revisions (see *Monthly Labor Review*, February 1962, April 1978, and August 1988). It is now based on approximately 3,100 commodity price series. Indexes for the net output of manufacturing and mining industries have been added in recent years. Prices used in constructing the index are collected from sellers, and generally, apply to the first significant large-volume commercial transaction for each commodity—i.e., the manufacturer's or other producer's selling price or the selling price on an organized exchange or at a central market.

The weights used in the index represent the total net selling value of commodities produced or processed in this country. Values are f.o.b. (free-on-board) production point and are exclusive of excise taxes. Effective with the release of data for January 1988, many important producer price indexes were changed to a new reference base year, 1982=100, from 1967=100. The base year 1982 coincides with the reference year of the PPI shipment weights, which have been taken primarily from the 1982 Census of Manufactures.

**Consumer price indexes (CPI).**—The CPI is a measure of the average change in prices over time in a fixed "market basket" of goods and services purchased either by urban wage earners and clerical workers or by all urban consumers.

In 1919, BLS began to publish complete indexes at semiannual intervals, using a weighting structure based on data collected in the expenditure survey of wage-earner and clerical-worker families in 1917-19 (BLS Bulletin 357, 1924). The first major revision of the CPI occurred in 1940, with subsequent revisions in 1953, 1964, 1978, and 1987.

Beginning with the release of data for January 1988 in February 1988, most Consumer Price Indexes shifted to a new reference base year. All indexes previously expressed on a base of 1967=100, or any other base through December 1981, have been rebased to 1982-84=100. Selection of the 1982-84 period was made to coincide with the updated expenditure weights, which are based upon data tabulated from the Consumer Expenditure Surveys for 1982, 1983, and 1984.

BLS publishes CPI's for two population groups: (1) a CPI for All Urban Consumers (CPI-U) which covers approximately 80 percent of the total population; and (2) a CPI for Urban Wage Earners and Clerical Workers (CPI-W) which covers 32 percent of the total population. The CPI-U includes, in addition to wage earners and clerical workers, groups which historically have been excluded from CPI coverage, such as professional, managerial, and technical workers; the self-employed; short-term workers; the unemployed; and retirees and others not in the labor force.

The current CPI is based on prices of food, clothing, shelter, fuels, transportation fares, charges for doctors' and dentists' services, drugs, etc. purchased for day-to-day living. Prices are collected in 85 areas across the country from over 57,000 housing units and 19,000 establishments. Area selection was based on the 1980 census. All taxes directly associated with the purchase and use of items are included in the index. Prices of food, fuels, and a few other items are obtained every month in all 85 locations. Prices of most other commodities and services are collected monthly in the five largest geographic areas and every other month in other areas.

In calculating the index, each item is assigned a weight to account for its relative importance in consumers' budgets. Price changes for the various items in each location are then averaged. Local data are then combined to obtain a U.S. city average. Separate indexes are also published

for regions, area size-classes, cross-classifications of regions and size-classes, and for 29 local areas, usually consisting of the Metropolitan Statistical Area (MSA); see Appendix II. Area definitions are those established by the Office of Management and Budget in 1983. Definitions do not include revisions made since 1983. Area indexes do not measure differences in the level of prices among cities; they only measure the average change in prices for each area since the base period. For further detail regarding the CPI, see the BLS *Handbook of Methods*, Bulletin 2285, Chapter 19; the Consumer Price Index, and Report 736, the CPI: 1987 Revision.

In January 1983, the method of measuring homeownership costs in the CPI-U was changed to a rental equivalence approach. This treatment calculates homeowner costs of shelter based on the implicit rent owners would pay to rent the homes they own. The rental equivalence approach was introduced into the CPI-W in 1985.

**Other price indexes.**—The *fixed-weighted price index* is a weighted average of the detailed price indexes used in the deflation of goods and services that make up the Gross national product (GNP). These price indexes are combined using weights that reflect the composition of GNP in 1982. Because the same weights are used for each period, changes in this index measure changes in prices over any period. The *chain price index* is an alternative measure of price change. It is a weighted average of the same detailed price indexes, but they are combined using weights that reflect the composition of GNP in the first of two consecutive periods. Thus, changes in this index measure changes in prices only between the consecutive periods.

The *implicit price deflator* is a by-product of the deflation of GNP. It is derived as the ratio of current- to constant-dollar GNP (multiplied by 100). It is a weighted average of the detailed price indexes used in the deflation of GNP, but they are combined using weights that reflect the composition of GNP in each period. Thus, changes in the implicit price deflator reflect not only changes in prices but also changes in the composition of GNP. All of the above GNP measures are published by the Bureau of Economic Analysis of the Department of Commerce.

**Measures of inflation.**—Inflation is defined as a time of generally rising prices for goods and factors of production. The U.S. Bureau of Labor Statistics samples prices of items in a representative market basket and publishes the results as the CPI. The media invariably announce the inflation rate as the percent change in the CPI from month to month. A much more meaningful indicator of inflation is the percent change from the same month of the prior year.

The CPI is the most widely followed measure of inflation. It is broad-ranging and readily comprehensible. Broad as it is, the CPI is not the most comprehensive price yardstick available. That distinction belongs to the *Gross national product implicit price deflator*. The GNP implicit price deflator is issued quarterly by the U.S. Bureau of Economic Analysis of the Department of Commerce. It is a measure of the difference between current dollar GNP and constant dollar GNP. It is obtained by dividing the current dollar GNP for a given period by the constant dollar GNP for the same period. The movement of the implicit price deflator usually closely parallels the movement of the CPI but is rarely identical to it. The GNP implicit price deflator, in theory, reflects price trends throughout the economy, whereas, the CPI represents price trends at the retail level only.

The *Producer Price Index (PPI)* measures prices at the wholesale level only. The PPI shows the same general pattern of inflation as does the CPI, but is more volatile. The PPI can be roughly viewed as a leading indicator. It often tends to foreshadow trends that later occur in the CPI and the GNP implicit price deflator.

*Other measures of inflation include* the index of industrial materials prices, the Dow Jones Commodity Spot Price Index, and Futures Price Index.

**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability pertaining to the producer price index and the CPI, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

## No. 764. Purchasing Power of the Dollar: 1950 to 1990

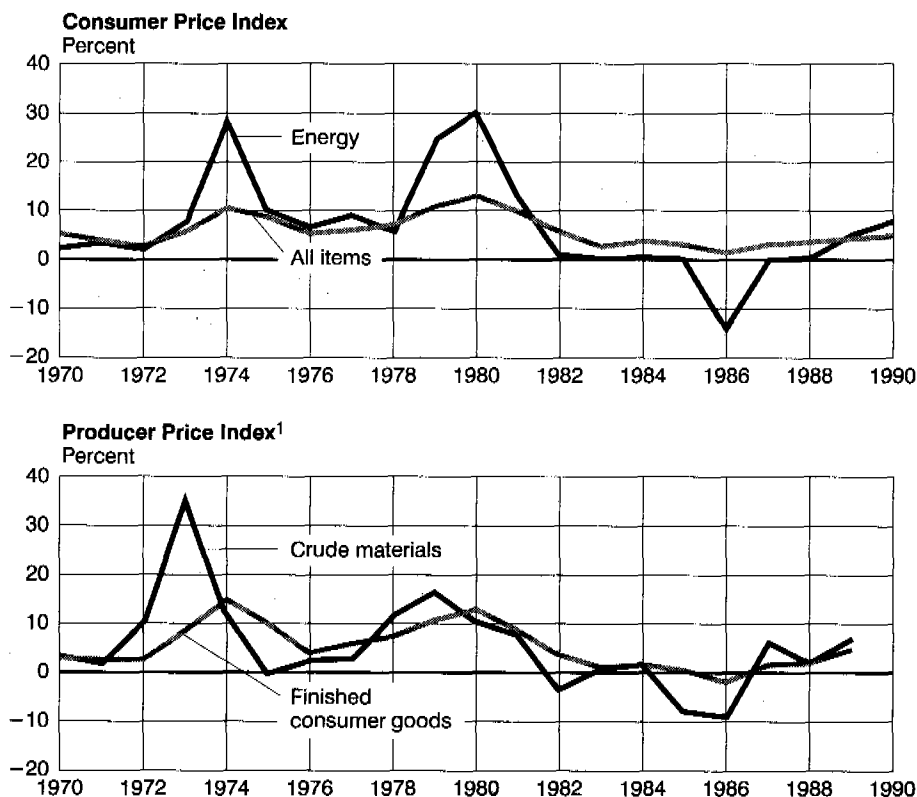
[Indexes: PPI, 1982=\$1.00; CPI, 1982-84=\$1.00. Producer prices prior to 1961, and consumer prices prior to 1964, exclude Alaska and Hawaii. Producer prices based on finished goods index. Obtained by dividing the average price index for the 1982-100, PPI; 1982-84=100, CPI base periods (100.0) by the price index for a given period and expressing the result in dollars and cents. Annual figures are based on average of monthly data]

YEAR	ANNUAL AVERAGE AS MEASURED BY—		YEAR	ANNUAL AVERAGE AS MEASURED BY—		YEAR	ANNUAL AVERAGE AS MEASURED BY—	
	Producer prices	Consumer prices		Producer prices	Consumer prices		Producer prices	Consumer prices
1950	\$3.546	\$4.151	1964	2.985	3.220	1978	1.433	1.532
1951	3.247	3.846	1965	2.933	3.166	1979	1.289	1.380
1952	3.268	3.765	1966	2.841	3.080	1980	1.136	1.215
1953	3.300	3.735	1967	2.809	2.993	1981	1.041	1.098
1954	3.289	3.717	1968	2.732	2.873	1982	1.000	1.035
1955	3.279	3.732	1969	2.632	2.726	1983	0.984	1.003
1956	3.195	3.678	1970	2.545	2.574	1984	0.964	0.961
1957	3.077	3.549	1971	2.469	2.466	1985	0.955	0.928
1958	3.012	3.457	1972	2.392	2.391	1986	0.969	0.913
1959	3.021	3.427	1973	2.193	2.251	1987	0.949	0.880
1960	2.994	3.373	1974	1.901	2.029	1988	0.926	0.846
1961	2.994	3.340	1975	1.718	1.859	1989	0.880	0.807
1962	2.985	3.304	1976	1.645	1.757	1990	0.839	0.766
1963	2.994	3.265	1977	1.546	1.649			

Source: U.S. Bureau of Labor Statistics. Monthly data in U.S. Bureau of Economic Analysis, *Survey of Current Business*.

Figure 15.1

## Annual Percent Change in Consumer and Producer Price Indexes: 1970 to 1990



<sup>1</sup>Producer price index by stage of processing.

Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 765 and 766.

**No. 765. Consumer Price Indexes—Percent Change in Major Groups: 1960 to 1990**

(In percent. See table 770)

YEAR	All items	Energy	Food	Shelter	Apparel and upkeep	Transportation	Medical care	Fuel oil	Electricity	Utility (piped) gas	Telephone services	All commodities
1960	1.7	2.3	1.0	2.0	1.6	-	-1.5	3.7	1.4	6.7	1.6	0.9
1961	1.0	0.4	1.3	0.8	0.9	1.0	3.7	2.7	-	1.7	0.3	0.6
1962	1.0	0.4	0.7	1.6	0.4	2.3	-	2.6	-	-	-	0.9
1963	1.3	-	1.6	1.2	1.3	0.3	2.1	2.6	-	-	0.2	0.9
1964	1.3	-0.4	1.3	1.5	0.9	1.6	-2.1	2.1	-0.3	-	-	1.2
1965	1.6	1.8	2.2	1.9	1.1	1.6	2.1	2.4	-0.3	0.6	-1.5	1.1
1966	2.9	1.7	5.0	3.0	2.5	1.3	2.8	4.4	-	0.6	2.1	2.6
1967	3.1	2.1	0.9	3.6	4.1	3.1	2.7	7.2	0.7	-	1.4	1.9
1968	4.2	1.7	3.5	4.5	5.3	3.0	3.3	6.0	1.0	0.6	-	3.5
1969	5.5	2.5	5.1	8.3	5.8	4.1	1.9	6.7	2.0	2.2	1.2	4.7
1970	5.7	2.8	5.7	8.9	4.2	5.0	3.8	6.6	3.2	5.4	1.2	4.5
1971	4.4	3.9	3.1	4.2	3.2	5.3	6.7	6.2	6.6	7.1	4.9	3.6
1972	3.2	2.6	4.2	4.6	2.0	1.0	-	3.3	5.0	5.2	5.5	3.0
1973	6.2	8.1	14.5	4.7	3.7	3.3	15.9	4.0	5.1	4.5	2.6	7.4
1974	11.0	29.6	14.3	9.6	7.4	11.2	57.8	9.3	17.9	12.6	4.2	11.9
1975	9.1	10.5	8.5	9.9	4.5	9.4	8.4	12.0	13.4	19.6	3.2	8.8
1976	5.8	7.1	3.0	5.5	3.7	10.0	7.2	9.5	6.2	16.7	3.6	4.3
1977	6.5	9.5	6.3	6.6	4.5	7.1	13.4	9.6	6.6	19.0	1.2	5.8
1978	7.6	6.3	9.9	10.2	3.6	4.6	5.9	8.4	7.6	10.0	1.1	7.2
1979	11.3	25.1	11.0	13.9	4.3	14.3	40.5	9.2	7.7	16.0	0.3	11.3
1980	13.5	30.9	8.6	17.6	7.1	17.9	39.0	11.0	15.5	19.2	2.5	12.3
1981	10.3	13.6	7.8	11.7	4.8	12.2	22.3	10.7	15.0	14.0	8.9	8.4
1982	6.2	1.5	4.1	7.1	2.6	4.1	-2.1	11.6	9.9	19.9	10.2	4.1
1983	3.2	0.7	2.1	2.3	2.5	2.4	8.1	8.8	3.2	16.6	6.4	2.9
1984	4.3	1.0	3.8	4.9	1.9	4.4	2.1	6.2	6.5	0.8	8.4	3.4
1985	3.6	0.7	2.3	5.6	2.8	2.6	-4.0	6.3	3.4	-0.7	3.9	2.1
1986	1.9	-13.2	3.2	5.5	0.9	-3.9	-21.7	7.5	1.4	-4.9	4.9	-0.9
1987	3.6	0.5	4.1	4.7	4.4	3.0	2.3	6.6	-0.4	-4.6	0.6	3.2
1988	4.1	0.8	4.1	4.8	4.3	3.1	-	6.5	1.4	-0.6	-0.4	3.5
1989	4.8	5.6	5.8	4.5	2.8	5.0	5.9	7.7	2.9	2.8	1.0	4.7
1990	5.4	8.3	5.8	5.4	4.6	5.6	22.8	9.0	2.4	0.2	0.4	5.2

- Represents zero.

**No. 766. Stage of Processing Producer Prices—Annual Percent Change: 1960 to 1989**

[1982 = 100. Yearly averages. See table 776]

YEAR	FINISHED GOODS			Finished consumer goods except foods	Intermediate materials, supplies and components	Intermediate materials, less food and feed-stuffs	CRUDE MATERIALS			
	Total	Consumer goods	Capital equipment				Total	Crude food-stuffs and feed-stuffs	Crude nonfood materials excluding fuel	Crude fuel
1960	0.9	0.9	0.3	0.6	-	0.7	-2.3	-1.0	-4.3	1.0
1961	-	-	0.3	-0.3	-0.6	1.3	-0.7	-1.3	1.1	-
1962	0.3	0.3	0.3	-	-	-0.3	1.0	1.8	-0.4	-1.0
1963	-0.3	-0.6	0.3	-	0.3	0.3	-2.0	2.8	-1.5	1.0
1964	0.3	0.3	0.9	-0.3	0.3	0.7	1.0	-2.4	1.9	-
1965	1.8	1.8	1.2	0.9	1.3	1.3	5.1	7.1	1.8	1.0
1966	3.2	3.5	2.4	1.5	2.6	2.0	6.4	8.9	2.2	2.8
1967	1.1	0.6	3.5	1.8	0.6	1.3	-5.4	5.6	-6.4	3.7
1968	2.8	2.5	3.4	2.3	2.5	2.5	6.6	1.5	2.3	1.8
1969	3.8	3.8	3.5	2.3	3.3	3.4	6.6	7.8	4.8	4.3
1970	3.4	3.2	4.7	3.0	3.8	3.6	3.8	2.5	2.5	15.0
1971	3.1	2.8	4.0	3.5	4.0	4.0	2.3	2.0	1.0	13.8
1972	3.2	3.2	2.6	1.8	3.8	4.1	10.8	11.7	9.9	7.0
1973	9.1	10.8	3.3	4.6	11.0	7.7	36.6	41.0	32.8	10.7
1974	15.4	15.4	14.3	17.0	23.8	24.4	12.7	5.2	27.0	33.3
1975	10.6	9.6	15.2	10.4	10.5	12.1	0.3	1.3	-8.3	23.4
1976	4.5	3.8	6.7	6.2	5.0	6.0	2.9	-0.8	9.8	12.7
1977	6.4	6.5	6.4	7.3	6.6	6.8	3.3	0.9	2.6	21.7
1978	7.9	7.9	7.9	7.1	7.1	7.0	12.1	12.6	9.9	14.8
1979	11.2	11.7	8.7	13.3	12.8	12.8	17.0	14.5	22.0	18.9
1980	13.4	14.3	10.7	18.5	15.2	15.5	10.9	4.6	21.6	21.1
1981	9.2	9.0	10.3	10.3	9.2	9.8	8.1	-0.7	19.6	22.2
1982	4.1	3.5	5.7	4.1	1.4	1.8	-2.9	-3.8	-8.9	17.9
1983	1.6	1.3	2.8	1.2	0.6	0.5	1.3	1.8	1.2	5.1
1984	1.1	2.0	2.3	1.0	2.5	2.5	2.2	2.8	2.2	-
1985	1.0	0.5	2.2	1.1	-0.4	-	-7.4	-9.5	-6.6	-2.3
1986	-1.4	2.3	2.0	-4.6	3.5	-3.6	-8.5	-1.7	-19.4	-10.2
1987	2.1	2.2	1.8	2.2	2.4	2.4	6.8	3.2	16.4	8.8
1988	2.5	2.5	2.3	2.4	5.5	5.1	2.5	10.3	15.0	-2.4
1989	5.2	5.6	3.9	5.6	4.6	4.7	7.4	4.8	3.7	3.9

- Represents zero.

Source of tables 765 and 766: U.S. Bureau of Labor Statistics, *Monthly Labor Review*.

**No. 767. Implicit Price Deflators for Gross National Product—Annual Percent Change: 1960 to 1989**

[Minus sign (-) indicates decrease. See table 779]

YEAR	Gross national product	Gross domestic product	Gross domestic business product	Gross non-farm business product	Personal consumption expenditures	FIXED INVESTMENT <sup>1</sup>			Exports	Imports	Govt. purchases of goods and services
						Total	Residential	Nonresidential			
1960	1.6	1.6	1.2	1.2	1.9	1.4	0.7	1.3	1.7	1.3	1.2
1961	1.0	1.0	0.9	0.6	1.2	-	-	-0.3	1.6	-1.3	2.0
1962	2.2	2.2	1.8	2.1	1.8	0.7	0.4	1.3	0.3	-0.9	3.5
1963	1.6	1.6	0.9	0.9	1.5	0.7	-0.4	1.3	0.3	3.1	2.3
1964	1.5	1.5	1.2	1.2	1.7	1.0	1.1	0.6	1.0	2.1	2.6
1965	2.7	2.7	2.3	2.0	1.7	2.3	1.8	1.9	3.5	2.5	3.3
1966	3.6	3.6	3.1	2.8	3.1	4.2	3.1	3.7	3.7	4.0	4.6
1967	2.6	2.6	2.5	3.0	2.5	3.1	3.3	3.3	2.4	1.9	4.7
1968	5.0	5.0	4.6	4.3	4.5	4.2	5.2	4.4	2.0	1.5	6.1
1969	5.6	5.6	4.9	4.9	4.3	6.9	9.5	5.6	4.0	3.0	6.0
1970	5.5	5.5	4.7	4.9	4.6	4.8	3.9	5.3	5.7	5.8	8.5
1971	5.7	5.7	4.9	4.9	4.7	5.6	5.4	6.3	4.4	4.1	7.6
1972	4.7	4.7	4.0	3.8	4.0	4.9	5.6	4.7	3.2	6.0	6.8
1973	6.5	6.5	6.4	4.7	6.2	5.6	8.7	3.6	12.9	10.9	7.5
1974	9.1	9.1	9.3	9.7	10.5	10.3	11.2	9.8	19.5	42.0	10.8
1975	9.8	9.8	10.0	10.7	8.0	13.1	8.8	14.7	10.3	7.3	10.5
1976	6.4	6.4	6.0	6.3	5.7	6.7	7.0	6.9	4.3	3.0	6.6
1977	6.7	6.7	6.6	6.7	6.5	8.1	11.4	6.8	4.9	7.4	7.0
1978	7.3	7.3	7.3	7.0	7.3	9.6	12.4	8.2	7.1	10.0	7.0
1979	8.9	8.9	9.0	8.8	9.2	9.7	12.1	8.8	12.1	17.2	9.1
1980	9.0	9.0	9.1	9.7	10.7	9.4	9.8	9.4	10.5	24.5	11.3
1981	9.7	9.7	9.7	9.8	9.2	9.2	8.1	9.8	8.1	5.8	9.2
1982	6.4	6.4	6.0	6.4	5.7	6.2	3.5	5.2	2.6	1.6	7.1
1983	3.9	3.9	3.5	3.6	4.1	-0.2	-1.2	1.3	-2.6	4.0	4.0
1984	3.7	3.7	3.5	3.2	3.8	0.4	3.7	-0.9	1.9	-0.3	4.4
1985	3.0	3.1	2.7	3.3	3.2	0.4	2.2	0.2	-2.1	-2.0	3.4
1986	2.6	2.5	2.4	2.5	2.4	2.3	2.6	1.6	-1.2	-1.6	2.0
1987	3.2	3.3	2.8	2.8	4.6	1.0	3.7	-0.4	-0.3	5.7	3.3
1988	3.3	3.3	3.1	2.8	3.8	1.7	3.6	1.3	3.7	3.5	4.2
1989	4.1	4.0	4.0	3.9	4.6	1.4	3.5	1.0	2.2	1.3	4.2

- Represents or rounds to zero. <sup>1</sup> Gross private domestic fixed investment.Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.**No. 768. Fixed Weighted Price Indexes for Personal Consumption Expenditures—Annual Percent Change: 1960 to 1989**

YEAR	Personal consumption expenditures <sup>1</sup>	Motor vehicles and parts	Furniture <sup>2</sup>	Food	Clothing and shoes	Gasoline and oil	Housing	Household operation	Electricity and gas	Transportation	Medical care
1960	1.4	-1.7	0.3	1.2	1.2	2.6	1.6	3.5	1.3	3.4	3.4
1961	1.1	-0.2	-1.1	0.9	0.6	-0.8	1.4	1.4	0.3	3.6	2.9
1962	0.8	0.9	-1.8	1.2	0.4	0.9	1.3	0.7	-	0.6	2.8
1963	1.1	0.2	-1.0	1.5	1.0	-	1.1	1.7	-	-1.3	2.3
1964	1.1	0.4	-0.8	1.8	0.8	-0.4	1.0	1.6	-0.6	-0.3	3.4
1965	1.3	-0.9	-1.8	2.0	0.9	3.8	1.0	1.8	-0.3	3.2	3.3
1966	2.1	-0.9	-1.5	4.5	2.8	2.4	1.3	1.6	-	3.4	4.6
1967	2.6	1.3	0.7	1.1	4.3	3.2	2.0	2.2	-0.6	1.8	6.4
1968	3.8	3.0	2.2	3.8	5.7	1.5	2.5	3.7	1.0	2.4	7.6
1969	4.4	2.1	2.2	5.2	5.7	3.4	3.4	3.5	1.9	4.9	5.9
1970	4.4	3.3	1.5	5.7	4.2	0.7	4.2	4.8	3.4	10.2	7.0
1971	4.3	4.4	1.4	2.8	3.9	1.1	4.7	7.0	6.6	11.3	5.5
1972	3.6	-	1.0	4.8	2.2	1.1	3.6	5.3	4.8	3.4	5.2
1973	5.6	1.1	1.4	13.2	3.7	9.6	4.5	6.0	5.9	1.3	4.2
1974	9.4	5.9	6.2	13.0	6.6	34.9	4.1	11.3	18.1	6.0	8.1
1975	7.7	9.6	7.6	7.4	3.2	6.8	6.8	10.2	13.2	4.1	9.8
1976	5.7	7.8	3.7	2.7	3.2	4.3	6.9	9.2	6.3	11.9	8.9
1977	6.3	6.0	2.5	4.3	3.8	5.6	8.8	7.8	6.8	12.4	9.9
1978	7.0	7.0	4.0	9.4	2.4	4.3	7.2	6.6	6.7	5.7	7.8
1979	8.9	8.1	5.2	10.2	2.8	34.8	8.4	6.8	7.7	6.7	8.5
1980	10.4	7.9	6.3	8.0	3.9	38.2	9.8	10.2	15.6	15.5	11.3
1981	9.0	8.2	5.9	8.2	3.2	11.4	10.8	12.4	15.0	10.9	11.3
1982	5.7	5.5	3.6	4.2	1.9	-5.2	7.9	11.4	9.9	7.2	9.5
1983	4.2	2.9	1.1	2.0	1.9	-3.3	5.7	6.8	3.2	4.8	7.2
1984	4.0	3.3	0.1	4.2	1.3	-1.6	5.5	5.2	6.4	3.2	7.1
1985	3.5	2.2	-0.5	2.2	3.0	0.8	5.8	3.0	3.6	1.1	5.9
1986	2.8	2.1	0.2	3.3	-0.3	-21.5	5.6	2.2	1.4	3.5	4.9
1987	4.6	4.7	1.1	4.5	4.7	4.2	5.0	0.0	-0.2	6.4	5.7
1988	4.1	0.2	1.7	4.3	4.3	1.0	4.8	1.3	0.7	5.1	6.7
1989	4.8	2.0	1.1	5.7	2.3	9.3	4.5	2.3	2.8	4.2	6.5

- Represents or rounds to zero. <sup>1</sup> Includes items not shown separately. <sup>2</sup> Includes household equipment.Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

## No. 769. Consumer Price Indexes for Selected Items and Groups: 1970 to 1990

[1982-84=100. Annual averages of monthly figures. See headnote, table 770]

ITEM	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989	1990
All items .....	38.8	53.8	82.4	99.6	103.9	107.6	109.6	113.6	118.3	124.0	130.7
Food and beverages .....	40.1	60.2	86.7	99.5	103.2	105.6	109.1	113.5	118.2	124.9	132.1
Food .....	39.2	59.8	86.8	99.4	103.2	105.6	109.0	113.5	118.2	125.1	132.4
Food at home .....	39.9	61.8	88.4	99.1	102.8	104.3	107.3	111.9	116.6	124.2	132.3
Cereals and bakery products .....	37.1	62.9	83.9	99.6	103.9	107.9	110.9	114.8	122.1	132.4	140.0
Cereals .....	(NA)	(NA)	76.3	99.9	105.3	111.3	117.3	124.1	132.9	147.9	158.6
Bakery products .....	(NA)	(NA)	83.8	99.6	104.2	108.2	111.1	115.0	121.8	131.5	139.2
Meats, poultry, fish and eggs .....	44.6	67.0	92.0	99.2	101.3	100.1	104.5	110.5	114.3	121.3	130.0
Meats .....	43.8	66.3	92.7	99.5	99.8	98.9	102.0	109.6	112.2	116.7	126.5
Beef and veal .....	43.5	61.9	98.4	99.1	100.3	98.2	98.8	106.3	112.1	119.3	128.8
Ground beef other than canned .....	47.0	62.3	104.6	99.4	98.4	95.9	94.9	100.2	103.4	108.6	118.1
Chuck roast .....	42.8	62.6	99.8	98.7	99.6	95.6	95.0	103.8	108.1	116.8	130.3
Round steak .....	45.8	66.5	98.9	99.3	99.2	97.0	98.4	105.3	110.6	116.6	125.1
Sirloin steak .....	42.4	61.7	96.2	99.0	101.7	99.7	102.3	111.2	120.0	126.0	130.6
Pork .....	45.4	77.1	81.9	100.1	98.8	99.1	107.2	116.0	112.5	113.2	129.8
Poultry .....	53.2	79.7	93.7	97.0	107.3	106.2	114.2	112.6	120.7	132.7	132.5
Fresh and frozen chicken parts .....	(NA)	(NA)	91.7	96.6	108.4	104.6	114.6	114.4	123.3	135.7	135.9
Fish and seafood .....	31.3	53.9	87.5	99.3	102.5	107.5	117.4	129.9	137.4	143.6	146.7
Canned fish and seafood .....	(NA)	(NA)	93.7	99.9	97.6	97.8	98.6	103.9	117.0	124.3	119.5
Eggs .....	65.6	82.4	88.6	97.7	109.1	91.0	97.2	91.5	93.6	118.5	124.1
Dairy products .....	44.7	62.6	90.9	100.0	101.3	103.2	103.3	105.9	108.4	115.6	126.5
Fruits and vegetables .....	37.8	56.9	82.1	97.3	105.7	108.4	109.4	119.1	128.1	138.0	149.0
Fresh fruits .....	35.6	51.8	84.8	95.1	105.6	116.3	118.7	132.0	143.0	152.4	170.9
Apples .....	37.1	56.4	92.1	94.6	106.6	113.1	130.6	131.0	134.2	140.5	147.5
Bananas .....	39.0	57.4	91.5	108.0	97.9	99.9	105.0	104.2	119.2	131.3	138.2
Oranges, tangerines .....	30.6	41.4	72.8	83.1	112.4	119.7	108.6	135.9	144.6	147.0	160.6
Fresh vegetables .....	39.4	55.6	79.0	97.8	108.2	103.5	107.7	121.6	129.3	143.1	151.1
Potatoes .....	38.0	57.7	81.0	91.3	116.0	101.6	96.1	116.0	119.1	153.5	162.6
Lettuce .....	35.4	49.6	77.8	103.2	96.1	106.1	112.7	136.4	148.6	151.5	150.3
Tomatoes .....	46.3	63.6	81.9	100.8	105.7	103.6	111.3	116.8	123.1	136.2	160.8
Processed fruits .....	38.4	59.7	82.1	98.1	105.2	109.5	106.3	110.6	122.0	125.9	136.9
Processed vegetables .....	36.6	62.2	83.1	98.6	103.3	104.4	104.2	107.1	112.2	124.2	127.5
Coffee .....	31.7	46.4	111.6	98.8	102.7	105.5	132.7	116.2	115.0	120.4	117.5
Alcoholic beverages .....	52.1	65.9	86.4	100.4	103.0	106.4	111.1	114.1	118.6	123.5	129.3
Alcoholic beverages at home .....	(NA)	(NA)	87.3	100.6	102.4	105.2	109.3	111.5	114.2	117.9	123.0
Beer and ale .....	49.2	63.4	84.8	100.7	104.2	106.7	108.7	110.9	114.4	118.2	123.6
Distilled spirits .....	(NA)	(NA)	89.8	100.4	101.4	105.3	113.3	114.4	116.1	118.9	125.7
Wine .....	49.7	65.5	89.5	100.5	99.1	100.2	102.4	105.7	107.8	110.9	114.4
Alcoholic beverages away from home .....	(NA)	(NA)	82.9	99.8	105.1	111.1	118.5	123.4	130.6	137.4	144.4
Lunch away from home .....	(NA)	(NA)	83.6	100.0	103.8	107.8	112.0	116.6	121.5	127.8	133.9
Dinner away from home .....	(NA)	(NA)	84.2	99.7	104.4	108.8	112.7	117.0	121.6	126.9	132.3
Housing .....	36.4	50.7	81.1	99.5	103.6	107.7	110.9	114.2	118.5	123.0	128.5
Shelter .....	35.5	48.8	81.0	99.1	104.0	109.8	115.8	121.3	127.1	132.8	140.0
Renters' cost .....	(NA)	(NA)	103.0	108.6	115.4	121.9	128.1	133.6	138.9	146.7	158.1
Rent, residential .....	46.5	58.0	80.9	100.1	105.3	111.8	118.3	123.1	127.8	132.8	138.4
Tenants' insurance .....	(NA)	(NA)	78.9	100.7	104.8	109.4	115.8	120.4	124.9	128.3	130.6
Homeowners' costs .....	(NA)	(NA)	(NA)	102.5	107.3	113.1	119.4	124.8	131.1	137.3	144.6
Owners' equivalent rent .....	(NA)	(NA)	(NA)	102.5	107.3	113.2	119.4	124.8	131.1	137.4	144.8
Household insurance .....	(NA)	(NA)	(NA)	103.2	107.5	112.4	118.2	124.0	129.0	132.6	135.3
Maintenance and repair .....	35.8	54.1	82.4	99.9	103.7	106.5	107.9	111.8	114.7	118.0	122.2
Services .....	33.1	51.3	80.0	99.7	105.7	108.7	111.2	114.8	117.0	120.6	126.4
Commodities .....	43.7	61.9	88.0	100.2	101.0	103.7	103.7	107.8	110.4	114.8	116.6
Fuels and other utilities .....	29.1	45.4	75.4	100.2	104.8	106.5	104.1	103.0	104.4	107.8	111.6
Fuels .....	23.1	39.4	74.8	100.5	104.0	104.5	99.2	97.3	98.0	100.9	104.5
Fuel oil and other .....	17.0	36.4	86.1	97.2	99.4	95.9	77.6	77.9	78.1	81.7	99.3
Fuel oil .....	16.5	34.9	87.7	96.5	98.5	94.6	74.1	75.8	75.8	80.3	98.6
Gas (piped) and electricity .....	25.4	40.1	71.4	101.5	105.4	107.1	105.7	103.8	104.6	107.5	109.3
Electricity .....	31.8	50.0	75.8	98.9	105.3	108.9	110.4	110.0	111.5	114.7	117.4
Utility (piped) gas .....	19.6	31.1	65.7	104.7	105.5	104.8	99.7	95.1	94.5	97.1	97.3
Telephone services .....	58.7	71.7	77.7	99.2	107.5	111.7	117.2	116.5	116.0	117.2	117.7
Local charges .....	(NA)	(NA)	72.8	97.9	111.6	120.4	132.7	139.3	141.3	146.5	149.3
Interstate toll charges .....	(NA)	(NA)	83.3	101.5	99.2	94.9	88.4	75.3	72.3	70.0	68.2
Intrastate toll charges .....	(NA)	(NA)	85.2	100.4	105.9	106.8	106.8	104.7	101.5	97.0	95.1
Water and sewerage maintenance .....	34.3	48.4	74.0	100.4	107.0	113.4	119.4	125.8	132.7	140.8	150.2
Cable television .....	(NA)	(NA)	(NA)	(NA)	103.9	110.6	115.5	123.1	132.9	144.0	158.4
Refuse collection .....	(NA)	(NA)	(NA)	(NA)	103.2	109.9	118.7	130.3	142.5	155.6	171.2

See footnotes at end of table.



# **No. 769. Consumer Price Indexes for Selected Items and Groups: 1970 to 1990—Continued**

[1982-84 = 100. Annual averages of monthly figures. See headnote, table 770]

ITEM	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989	1990
Household furnishings and operations . . .	46.8	63.4	86.3	100.2	101.9	103.8	105.2	107.1	109.4	111.2	113.1
Housefurnishings . . .	55.5	69.8	88.5	100.4	101.2	101.7	102.2	103.6	105.1	105.5	106.7
Appliances and electronic equipment . . .	69.3	78.8	93.5	100.7	98.8	95.2	92.8	91.4	90.2	89.1	87.8
Video and audio equipment . . .	(NA)	(NA)	100.7	100.4	96.7	91.9	88.0	86.0	83.6	82.2	80.8
Television . . .	100.0	101.8	104.6	100.5	95.5	88.7	83.2	79.7	77.6	76.1	74.6
Video products other than TV . . .	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	96.8	91.5
Audio products . . .	(NA)	(NA)	97.7	100.3	97.7	94.4	91.8	93.0	92.7	92.8	93.2
Housekeeping supplies . . .	36.6	56.9	83.2	100.3	102.6	106.2	108.2	111.5	114.7	120.9	125.2
Housekeeping services . . .	37.9	55.9	84.3	99.8	102.5	106.1	108.5	110.6	114.3	117.3	120.1
Postage . . .	34.9	52.0	76.2	100.0	100.0	108.8	110.2	110.2	121.4	125.1	125.1
Gardening and other household services . . .	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	103.1	106.9	112.6	115.7
Apparel and upkeep . . .	59.2	72.5	90.9	100.2	102.1	105.0	105.8	110.6	115.4	118.6	124.1
Apparel commodities . . .	63.3	76.7	92.9	100.2	101.5	104.0	104.2	108.9	113.7	116.7	122.0
Apparel commodities less footwear . . .	64.5	78.0	93.0	100.2	101.6	104.3	104.7	109.6	114.4	117.1	122.8
Men's and boy's apparel . . .	62.2	75.5	89.4	100.3	102.1	105.0	106.2	109.1	113.4	117.0	120.4
Women's and girl's apparel . . .	71.8	85.5	96.0	100.2	101.3	104.9	104.0	110.4	114.9	116.4	122.6
Infants' and toddlers' . . .	39.2	64.5	85.5	101.1	102.6	107.2	111.8	112.1	116.4	119.1	125.8
Footwear . . .	56.8	69.6	91.8	99.8	101.1	102.3	101.9	105.1	109.9	114.4	117.4
Transportation . . .	37.5	50.1	83.1	99.3	103.7	106.4	102.3	105.4	108.7	114.1	120.5
Private transportation . . .	37.5	50.6	84.2	99.3	103.6	106.2	101.2	104.2	107.6	112.9	118.8
New vehicles . . .	53.1	63.0	88.5	99.9	102.6	106.1	110.6	114.4	116.5	119.2	121.4
New cars . . .	53.0	62.9	88.4	99.9	102.8	106.1	110.6	114.6	116.9	119.2	121.0
New trucks . . .	(NA)	(NA)	(NA)	(NA)	101.3	105.5	110.2	112.2	113.5	117.0	121.6
Used cars . . .	31.2	43.8	62.3	98.7	112.5	113.7	108.8	113.1	118.0	120.4	117.6
Motor fuel . . .	27.9	45.1	97.4	99.4	97.9	98.7	77.1	80.2	80.9	88.5	101.2
Automobile maintenance and repair . . .	36.6	53.7	81.5	100.3	103.8	106.8	110.3	114.8	119.7	124.9	130.1
Automobile insurance . . .	42.0	48.4	82.0	100.4	108.2	119.2	135.0	146.2	156.6	166.6	177.9
Automobile finance charges . . .	(NA)	(NA)	86.4	92.9	97.1	94.5	86.0	84.9	91.3	100.5	99.6
Vehicle rental, registration, other . . .	(NA)	(NA)	78.3	100.2	106.3	111.7	117.2	123.0	128.1	135.0	148.1
Public transportation . . .	35.2	43.5	69.0	99.5	105.7	110.5	117.0	121.1	123.3	129.5	142.6
Airline fares . . .	28.3	38.0	68.0	99.8	105.8	112.5	117.1	122.8	124.2	131.6	148.4
Other intercity transportation . . .	(NA)	(NA)	73.1	100.0	107.9	114.7	125.5	126.7	132.6	138.5	143.3
Intracity transportation . . .	(NA)	(NA)	69.7	99.0	105.2	107.7	115.8	118.8	121.7	125.2	133.5
Medical care . . .	34.0	47.5	74.9	100.6	106.8	113.5	122.0	130.1	138.6	149.3	162.8
Medical care commodities . . .	46.5	53.3	75.4	100.2	107.5	115.2	122.8	131.0	139.9	150.8	163.4
Prescription drugs . . .	47.4	51.2	72.5	100.1	109.7	120.1	130.4	140.8	150.2	165.2	181.7
Nonprescription drugs, medical supplies . . .	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	103.1	108.1	114.6	120.6
Medical care services . . .	32.3	46.6	74.8	100.7	106.7	113.2	121.9	130.0	138.3	148.9	162.7
Professional medical services . . .	37.0	50.8	77.9	99.8	107.0	113.5	120.8	128.8	137.5	146.4	156.1
Physicians' services . . .	34.5	48.1	76.5	100.1	107.0	113.3	121.5	130.4	139.8	150.1	160.8
Dental services . . .	39.2	53.2	78.9	99.4	107.5	114.2	120.6	128.8	137.5	146.1	155.8
Eye care . . .	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	103.5	108.7	112.4	117.3
Hospital and related services . . .	(NA)	(NA)	69.2	100.5	109.2	116.1	123.1	131.6	143.9	160.5	178.0
Entertainment . . .	47.5	62.0	83.6	100.1	103.8	107.9	111.6	115.3	120.3	126.5	132.4
Entertainment commodities . . .	46.1	61.7	84.5	100.2	102.8	105.8	107.9	110.5	115.0	119.8	124.0
Reading materials . . .	(NA)	(NA)	77.7	101.2	104.5	110.7	115.6	119.5	124.3	129.5	136.2
Sporting goods, equipment . . .	(NA)	(NA)	88.5	99.4	102.4	104.6	104.0	104.3	108.1	111.1	114.9
Toys, hobbies, and other entertainment . . .	(NA)	(NA)	86.5	100.1	101.9	103.3	105.3	108.4	113.2	118.5	121.5
Pet supplies and expenses . . .	(NA)	(NA)	83.3	100.0	103.3	106.4	108.7	111.0	114.5	120.7	124.6
Entertainment services . . .	49.4	62.2	82.3	100.1	105.4	110.9	116.8	122.0	127.7	135.4	143.2
Tobacco and smoking products . . .	43.1	54.7	72.0	103.4	110.1	116.7	124.7	133.6	145.8	164.4	181.5
Personal care . . .	43.5	57.9	81.9	100.3	104.3	108.3	111.9	115.1	119.4	125.0	130.4
Personal care services . . .	44.2	57.7	83.7	100.0	104.4	108.9	112.5	116.2	120.7	126.8	132.8
Beauty parlor services for women . . .	42.9	56.4	83.4	100.1	104.4	108.8	112.2	116.0	120.3	126.5	133.0
Haircuts, etc. for men . . .	(NA)	(NA)	84.4	99.6	104.4	109.0	113.1	116.5	121.7	127.3	131.5
Personal and educational expenses . . .	35.5	48.7	70.9	100.0	109.7	119.1	128.6	138.5	147.9	158.1	170.2
Tuition and other school fees . . .	(NA)	(NA)	71.2	99.7	109.8	119.7	129.6	140.0	151.0	162.7	175.7
College tuition . . .	(NA)	(NA)	70.8	99.7	109.9	119.9	129.6	139.4	150.0	161.9	175.0
Elementary and high school tuition . . .	(NA)	(NA)	72.3	99.8	109.8	119.0	129.2	141.3	154.6	168.0	182.8
All commodities . . .	41.7	58.2	86.0	99.8	103.2	105.4	104.4	107.7	111.5	116.7	122.8
All commodities less food . . .	43.4	57.6	85.7	100.0	103.1	105.2	101.7	104.3	107.7	112.0	117.0
Durables . . .	44.1	57.4	83.0	99.8	105.1	106.8	106.8	108.2	110.4	112.2	113.4
Nondurables . . .	40.8	58.3	87.6	99.7	102.5	104.8	103.5	107.5	111.8	118.2	126.0
Energy . . .	25.5	42.1	86.0	99.9	100.9	101.6	88.2	88.6	89.3	94.3	102.1

NA Not available.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review* and *CPI Detailed Report*, January issues.

**No. 770. Consumer Price Indexes, by Major Groups: 1960 to 1990**

[1982-84 = 100. Represents annual averages of monthly figures. Reflects buying patterns of all urban consumers. See text. See *Historical Statistics, Colonial Times to 1970*, series E 135-173 for similar data]

YEAR	All items	Energy	Food	Shelter	Apparel and upkeep	Transportation	Medical care	Fuel oil	Electricity	Utility (piped gas)	Telephone services	All commodities
1960.	29.6	22.4	30.0	25.2	45.7	29.8	22.3	13.5	29.9	17.6	58.3	33.6
1961.	29.9	22.5	30.4	25.4	46.1	30.1	22.9	14.0	29.9	17.9	58.5	33.8
1962.	30.2	22.6	30.6	25.8	46.3	30.8	23.5	14.0	29.9	17.9	58.5	34.1
1963.	30.6	22.6	31.1	26.1	46.9	30.9	24.1	14.3	29.9	17.9	58.6	34.4
1964.	31.0	22.5	31.5	26.5	47.3	31.4	24.6	14.0	29.8	17.9	58.6	34.8
1965.	31.5	22.9	32.2	27.0	47.8	31.9	25.2	14.3	29.7	18.0	57.7	35.2
1966.	32.4	23.3	33.8	27.8	49.0	32.3	26.3	14.7	29.7	18.1	56.5	36.1
1967.	33.4	23.8	34.1	28.8	51.0	33.3	28.2	15.1	29.9	18.1	57.3	36.8
1968.	34.8	24.2	35.3	30.1	53.7	34.3	29.9	15.6	30.2	18.2	57.3	38.1
1969.	36.7	24.8	37.1	32.6	56.8	35.7	31.9	15.9	30.8	18.6	58.0	39.9
1970.	38.8	25.5	39.2	35.5	59.2	37.5	34.0	16.5	31.8	19.6	58.7	41.7
1971.	40.5	26.5	40.4	37.0	61.1	39.5	36.1	17.6	33.8	21.0	61.6	43.2
1972.	41.8	27.2	42.1	38.7	62.3	39.9	37.3	17.6	35.6	22.1	65.0	44.5
1973.	44.4	29.4	48.2	40.5	64.6	41.2	38.8	20.4	37.4	23.1	66.7	47.8
1974.	49.3	38.1	55.1	44.4	69.4	45.8	42.4	32.2	44.1	26.0	69.5	53.5
1975.	53.8	42.1	59.8	48.8	72.5	50.1	47.5	34.9	50.0	31.1	71.7	58.2
1976.	56.9	45.1	61.6	51.5	75.2	55.1	52.0	37.4	53.1	36.3	74.3	60.7
1977.	60.6	49.4	65.5	54.9	78.6	59.0	57.0	42.4	56.6	43.2	75.2	64.2
1978.	65.2	52.5	72.0	60.5	81.4	61.7	61.8	44.9	60.9	47.5	76.0	68.8
1979.	72.6	65.7	79.9	68.9	84.9	70.5	67.5	63.1	65.6	55.1	75.8	76.6
1980.	82.4	86.0	86.8	81.0	90.9	83.1	74.9	87.7	75.8	65.7	77.7	86.0
1981.	90.9	97.7	93.6	90.5	95.3	93.2	82.9	107.3	87.2	74.9	84.6	83.2
1982.	96.5	99.2	97.4	96.9	97.8	97.0	92.5	105.0	95.8	89.8	93.2	97.0
1983.	99.6	99.9	99.4	99.1	100.2	99.3	100.6	96.5	98.9	104.7	99.2	99.8
1984.	103.9	100.9	103.2	104.0	102.1	103.7	106.8	98.5	105.3	105.5	107.5	103.2
1985.	107.6	101.6	105.6	109.8	105.0	106.4	113.5	94.6	108.9	104.8	111.7	105.4
1986.	109.6	88.2	109.0	115.8	105.9	102.3	122.0	74.1	110.4	99.7	117.2	104.4
1987.	113.6	88.6	113.5	121.3	110.6	105.4	130.1	75.8	110.0	95.1	116.5	107.7
1988.	118.3	89.3	118.2	127.1	115.4	108.7	138.6	75.8	111.5	94.5	116.0	111.5
1989.	124.0	94.3	125.1	132.8	118.6	114.1	149.3	80.3	114.7	97.1	117.2	116.7
1990.	130.7	102.1	132.4	140.0	124.1	120.5	162.8	98.6	117.4	97.3	117.7	122.8

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review* and *Handbook of Labor Statistics*, periodic.

**No. 771. Consumer Price Index by Region: 1975 to 1990**

[1982-84 = 100. For composition of regions, see fig. 1, inside front cover]

ITEM	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
U.S. city average, all items.	53.8	72.6	82.4	90.9	96.5	99.6	103.9	107.6	109.6	113.6	118.3	124.0	130.7
Food.	59.8	79.9	86.8	93.6	97.4	99.4	103.2	105.6	109.0	113.5	118.2	125.1	132.4
Housing.	50.7	70.1	81.1	90.4	96.9	99.5	103.6	107.7	110.9	114.2	118.5	123.0	128.5
Gas (piped) and electricity.	40.1	61.0	71.4	81.9	93.2	101.5	105.4	107.1	105.7	103.8	104.6	107.5	109.3
Northeast:													
All items.	55.8	72.8	82.2	91.0	95.8	99.8	104.5	108.4	111.1	116.0	121.8	128.6	136.3
Food.	60.4	79.3	86.5	93.4	97.3	99.4	103.3	106.2	110.1	115.8	121.1	128.7	135.9
Housing.	(NA)	70.2	80.7	90.7	95.7	99.7	104.6	109.0	112.7	117.3	124.0	130.8	138.0
Gas (piped) and electricity.	(NA)	64.0	73.8	85.4	94.4	100.9	104.7	105.9	104.6	101.2	100.2	105.4	109.6
North Central:													
All items.	53.0	72.6	82.4	90.1	96.5	99.9	103.6	106.8	108.0	111.9	116.1	121.5	127.4
Food.	60.3	81.5	88.5	94.9	98.1	99.3	102.7	104.4	107.5	111.8	116.0	122.2	129.6
Housing.	(NA)	69.2	80.0	87.7	96.3	100.3	103.5	107.0	109.4	112.4	115.9	119.9	124.1
Gas (piped) and electricity.	(NA)	62.1	70.1	79.1	90.7	103.3	106.1	108.6	107.1	104.6	104.3	105.5	104.0
South:													
All items.	53.3	72.4	81.9	90.7	96.5	99.7	103.8	107.1	108.9	112.4	116.4	121.5	127.9
Food.	59.7	79.8	86.6	93.5	97.1	99.3	103.6	105.7	108.8	113.1	117.6	124.2	131.6
Housing.	(NA)	70.2	80.8	90.4	97.5	99.6	103.0	106.3	109.0	111.0	113.9	117.2	121.8
Gas (piped) and electricity.	(NA)	61.7	70.2	82.6	94.1	100.9	105.0	106.0	105.1	104.3	106.1	108.2	110.4
West:													
All items.	52.6	72.6	83.3	91.9	97.4	99.0	103.6	108.0	110.5	114.3	119.0	124.6	131.5
Food.	57.8	78.7	85.2	92.3	96.7	99.7	103.6	106.1	109.0	112.9	117.6	124.9	132.0
Housing.	(NA)	70.8	83.3	92.6	98.4	98.2	103.3	108.8	113.0	116.5	120.7	124.8	130.9
Gas (piped) and electricity.	(NA)	53.1	72.1	80.3	94.6	99.9	105.6	108.1	105.8	105.5	108.8	112.9	115.8

NA Not available.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review* and *CPI Detailed Report*, January issues.

**No. 772. Consumer Price Indexes—Selected Areas: 1970 to 1990**

[1982-84 = 100. Represents annual averages of monthly figures. Local area CPI indexes are byproducts of the national CPI program. Each local index has a smaller sample size than the national index and is therefore, subject to substantially more sampling and other measurement error. As a result, local area indexes show greater volatility than the national index, although their long-term trends are similar. Area definitions are those established by the Office of Management and Budget in 1983. For further detail see the U.S. Bureau of Labor Statistics Handbook of Methods, Bulletin 2285, Chapter 19, the Consumer Price Index, and Report 736, the CPI: 1987 Revision. See also text, section 15]

AREA	1970	1975	1980	1985	1986	1987	1988	1989	1990
All item index	38.8	53.8	82.4	107.6	109.6	113.6	118.3	124.0	130.7
Anchorage, AK MSA	41.1	57.1	85.5	105.8	107.8	108.2	108.6	111.7	118.6
Atlanta, GA MSA	38.6	53.6	80.3	108.9	112.2	116.5	120.4	126.1	131.7
Baltimore, MD MSA	39.1	55.2	83.7	108.2	110.9	114.2	119.3	124.5	130.8
Boston-Lawrence-Salem, MA-NH CMSA	40.2	55.8	82.6	109.4	112.2	117.1	124.2	131.3	138.9
Buffalo-Niagara Falls, NY CMSA	41.2	57.4	83.5	108.6	109.6	113.0	117.4	121.6	127.7
Chicago-Gary-Lake County, IL-IN-WI CMSA	38.9	52.8	82.2	107.7	110.0	114.5	119.0	125.0	131.7
Cincinnati-Hamilton, OH-KY-IN CMSA	37.4	51.8	82.1	106.6	107.6	111.9	116.1	120.9	126.5
Cleveland-Akron-Lorain, OH CMSA	37.2	50.2	78.9	107.8	109.4	112.7	116.7	122.7	129.0
Dallas-Fort Worth, TX CMSA	37.6	50.4	81.5	108.2	109.9	112.9	116.1	119.5	125.1
Denver-Boulder, CO CMSA	34.5	48.4	78.4	107.1	107.9	110.8	113.7	115.8	120.9
Detroit-Ann Arbor, MI CMSA	39.5	53.9	85.3	106.8	108.3	111.7	116.1	122.3	128.6
Honolulu, HI MSA	41.5	56.3	83.0	106.8	109.4	114.9	121.7	128.7	138.1
Houston-Galveston-Brazoria, TX CMSA	36.4	51.4	82.7	104.9	103.9	106.5	109.5	114.1	120.6
Kansas City, MO-KS CMSA	39.0	53.2	83.6	107.7	108.7	113.1	117.0	121.6	126.0
Los Angeles-Anaheim-Riverside, CA CMSA	38.7	53.3	83.7	108.4	111.9	116.7	122.1	128.3	135.9
Miami-Fort Lauderdale, FL CMSA	(NA)	(NA)	81.1	106.5	107.9	111.8	116.8	121.5	128.0
Milwaukee, WI PMSA	37.5	50.8	81.4	107.0	107.4	111.5	115.9	120.8	126.2
Minneapolis-St. Paul, MN-WI MSA	37.4	51.2	78.9	107.0	108.4	111.6	117.2	122.0	127.0
New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA	41.2	57.6	82.1	108.7	112.3	118.0	123.7	130.6	138.5
Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA	40.8	56.8	83.6	108.8	111.5	116.8	122.4	128.3	135.8
Pittsburgh-Beaver Valley, PA CMSA	38.1	52.4	81.0	106.9	108.2	111.4	114.9	120.1	126.2
Portland-Vancouver, OR-WA CMSA	38.7	53.5	87.2	106.7	108.2	110.9	114.7	120.4	127.4
San Diego, CA MSA	34.1	47.6	79.4	110.4	113.5	117.5	123.4	130.6	138.4
San Francisco-Oakland-San Jose, CA CMSA	37.7	51.8	80.4	108.4	111.6	115.4	120.5	126.4	132.1
Seattle-Tacoma, WA CMSA	37.4	51.1	82.7	105.6	106.7	109.2	112.8	118.1	126.8
St. Louis-East St. Louis, MO-IL CMSA	38.8	52.6	82.5	107.1	108.6	112.2	115.7	121.8	128.1
Washington, DC-MD-VA MSA	39.8	54.7	82.9	109.0	112.2	116.2	121.0	128.0	135.6

NA Not available.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review* and *CPI Detailed Report*, January issues.

**No. 773. CPI—Major Commodity Groups, by Selected Areas: 1990**

[1982-1984 = 100. See table 772]

AREA	All items	Food and beverages	Food	Housing	Apparel and upkeep	Transportation	Medical care	Entertainment	Fuel and other utilities
All item index	130.7	132.1	132.4	128.5	124.1	120.5	162.8	132.4	111.6
Anchorage, AK MSA	118.6	123.7	124.0	103.9	127.7	120.7	161.2	141.9	131.1
Atlanta, GA MSA	131.7	131.9	134.4	128.8	133.8	117.7	177.6	149.8	121.9
Baltimore, MD MSA	130.8	136.9	137.9	125.2	128.1	122.8	158.4	138.3	102.7
Boston-Lawrence-Salem, MA-NH CMSA	138.9	138.6	139.0	137.0	138.2	119.7	181.6	144.2	104.9
Buffalo-Niagara Falls, NY CMSA	127.7	131.5	131.4	132.0	107.6	109.1	151.7	142.8	103.1
Chicago-Gary-Lake County, IL-IN-WI CMSA	131.7	130.3	130.4	131.4	124.3	118.7	163.0	139.2	108.9
Cincinnati-Hamilton, OH-KY-IN CMSA	126.5	128.3	128.9	121.1	121.2	117.7	157.4	129.7	101.4
Cleveland-Akron-Lorain, OH CMSA	129.0	130.6	131.2	127.7	117.8	119.4	156.6	133.6	112.0
Dallas-Fort Worth, TX CMSA	125.1	131.1	131.5	114.3	137.5	117.2	161.9	137.5	109.3
Denver-Boulder, CO CMSA	120.9	124.1	124.1	109.8	91.2	126.8	173.4	129.3	106.8
Detroit-Ann Arbor, MI CMSA	128.6	126.5	126.3	126.4	127.9	124.0	159.8	128.1	112.4
Honolulu, HI MSA	138.1	137.8	138.3	141.5	107.0	131.1	154.2	128.4	98.0
Houston-Galveston-Brazoria, TX CMSA	120.6	128.7	129.2	104.8	132.5	116.0	161.2	134.9	101.9
Kansas City, MO-KS CMSA	126.0	127.5	128.1	121.8	116.5	118.2	156.8	142.0	113.7
Los Angeles-Anaheim-Riverside, CA CMSA	135.9	130.9	130.3	139.3	126.4	126.5	163.3	125.4	124.5
Miami-Fort Lauderdale, FL CMSA	128.0	134.3	135.9	120.4	135.6	121.6	151.8	121.0	109.3
Milwaukee, WI PMSA	126.2	128.1	129.8	126.0	126.0	115.2	150.8	118.7	94.4
Minneapolis-St. Paul, MN-WI MSA	127.0	134.6	134.8	118.5	130.5	118.5	161.5	140.5	102.1
New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA	138.5	139.6	139.7	139.3	121.8	123.1	172.4	135.6	102.8
Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA	135.8	131.2	130.8	138.7	101.4	127.7	167.4	133.5	112.9
Pittsburgh-Beaver Valley, PA CMSA	126.2	124.3	123.8	124.8	125.0	112.1	160.6	138.8	123.7
Portland-Vancouver, OR-WA CMSA	127.4	126.1	126.4	122.6	120.7	125.5	154.4	128.6	103.9
San Diego, CA MSA	138.4	134.1	132.8	139.2	131.9	131.7	173.3	142.4	102.1
San Francisco-Oakland-San Jose, CA CMSA	132.1	134.7	135.7	137.3	107.5	114.7	160.5	140.7	125.1
Seattle-Tacoma, WA CMSA	126.8	133.0	133.7	125.4	112.0	116.1	154.6	129.9	95.8
St. Louis-East St. Louis, MO-IL CMSA	128.1	134.9	135.4	129.4	120.9	117.4	159.0	124.4	113.7
Washington, DC-MD-VA MSA	135.6	133.4	132.9	136.6	139.4	120.7	162.4	135.6	110.5

NA Not available.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, and *CPI Detailed Report*, January issues.

### No. 774. Cost of Living Index—Selected Metropolitan Areas: First Quarter 1990

[This cost of living index measures relative price levels for consumer goods and services in participating areas for a midmanagement standard of living. The national average equals 100, and each participant's index is read as a percentage of the national average. For example, the Albany-Schenectady-Troy, NY MSA's composite cost of living is 4.9 percent above the national average. The index does not measure inflation, but compares prices at a single point in time. Excludes taxes. Metropolitan areas defined as of June 30, 1989. For definitions and components of MSA's, see Appendix II. See source for details.]

METROPOLITAN STATISTICAL AREA (MSA)	Com- posite index	Grocery items	Housing	Utilities	Transpor- tation	Health care
Albany-Schenectady-Troy, NY MSA	104.9	108.3	106.8	127.4	89.1	107.5
Albuquerque, NM MSA	99.1	96.3	105.2	98.8	100.9	102.1
Augusta, GA-SC MSA	99.3	96.2	88.8	115.6	102.3	94.0
Austin, TX MSA	95.4	98.0	83.9	87.7	97.4	94.9
Bakersfield, CA MSA	110.3	103.4	94.8	126.2	95.4	161.2
Baltimore, MD MSA	111.4	106.0	114.1	108.1	112.8	111.5
Beaumont-Port Arthur, TX MSA	99.3	102.0	78.5	89.3	112.8	104.8
Buffalo, NY PMSA	110.0	103.1	117.3	127.6	107.8	100.8
Canton, OH MSA	96.2	91.9	83.3	113.9	102.6	87.3
Charleston, SC MSA	99.5	95.9	97.1	93.9	102.9	98.8
Charlotte-Gastonia-Rock Hill, NC-SC MSA	99.8	95.0	102.5	96.3	98.3	99.1
Chattanooga, TN-GA MSA	90.7	94.6	83.8	96.6	93.8	80.3
Cleveland, OH PMSA	106.2	104.6	100.4	119.7	110.4	108.7
Colorado Springs, CO MSA	91.7	94.5	88.5	74.6	93.3	102.4
Columbia, SC MSA	100.4	97.1	107.8	90.2	100.2	98.3
Columbus, OH MSA	104.0	100.2	105.8	95.3	112.1	98.1
Corpus Christi, TX MSA	94.9	97.2	83.3	95.0	106.5	95.3
Dallas, TX PMSA	103.1	105.4	98.9	108.9	110.0	106.8
Davenport-Rock Island-Moline, IA-IL MSA	97.6	99.6	105.9	93.4	94.9	93.0
Dayton-Springfield, OH MSA	105.3	98.9	117.8	101.3	105.2	95.1
Denver, CO PMSA	101.3	91.5	108.3	97.2	105.9	114.3
Des Moines, IA MSA	100.7	94.3	95.1	111.4	105.7	96.2
El Paso, TX MSA	98.6	102.9	94.6	90.9	104.2	91.4
Fresno, CA MSA	112.2	109.0	121.5	104.0	101.7	131.3
Greensboro-Winston-Salem-High Point, NC MSA	96.8	92.5	97.6	96.7	92.7	93.6
Greenville-Spartanburg, SC MSA	95.9	95.7	94.3	103.9	93.4	80.0
Harrisburg-Lebanon-Carlisle, PA MSA	104.6	96.0	93.4	125.8	117.3	102.0
Houston, TX PMSA	99.5	106.9	82.1	93.5	115.6	102.0
Huntington-Ashland, WV-KY-OH MSA	93.3	100.3	76.0	99.5	94.1	85.5
Indianapolis, IN MSA	97.7	96.0	99.7	92.1	102.7	97.4
Jacksonville, FL MSA	96.7	96.1	90.4	96.0	106.0	96.1
Kansas City, MO-KS MSA	94.8	89.8	92.4	96.3	95.6	93.6
Knoxville, TN MSA	90.9	93.2	88.0	91.7	91.6	82.3
Lakeland-Winter Haven, FL MSA	103.2	99.2	91.1	127.7	99.5	98.2
Lancaster, PA MSA	103.8	102.5	90.8	138.4	101.7	87.2
Lexington-Fayette, KY MSA	100.1	100.0	103.7	94.6	94.9	98.3
Los Angeles-Long Beach, CA PMSA	127.4	103.3	211.3	75.6	102.1	128.5
Louisville, KY-IN MSA	93.1	94.6	91.0	79.4	102.4	88.4
Memphis, TN-AR-MS MSA	94.8	99.1	86.2	91.1	101.1	85.5
Miami-Hialeah, FL PMSA	112.2	100.3	123.0	125.6	104.3	137.8
Minneapolis-St. Paul, MN-WI MSA	102.9	92.8	112.3	105.2	106.0	107.5
Mobile, AL MSA	95.5	99.9	81.1	104.9	102.8	92.2
Nashville-Davidson, TN MSA	99.9	95.8	107.7	91.6	98.1	90.9
Nassau-Suffolk, NY PMSA	159.3	118.2	237.0	219.1	128.1	137.2
New Orleans, LA MSA	96.9	104.0	83.4	122.2	98.2	87.0
Norfolk-Virginia Beach-Newport News, VA MSA	103.2	100.7	99.8	110.2	105.9	93.9
Oklahoma City, OK MSA	94.6	98.2	79.4	103.4	97.3	97.1
Omaha, NE-IA MSA	91.2	93.1	85.6	90.4	102.3	83.8
Orlando, FL MSA	103.8	109.5	104.8	110.4	101.7	102.0
Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA	127.5	114.9	139.9	171.6	108.9	136.7
Phoenix, AZ MSA	101.1	95.7	98.7	96.3	104.6	115.2
Pittsburgh-Beaver Valley, PA CMSA	109.5	99.6	109.4	129.3	107.6	105.7
Portland, OR PMSA	103.0	101.5	111.1	72.7	101.6	127.0
Richmond-Petersburg, VA MSA	106.0	99.8	111.2	108.9	105.1	102.7
Salt Lake City-Ogden, UT MSA	92.9	90.0	82.3	86.4	95.2	95.0
San Antonio, TX MSA	99.3	97.6	89.9	112.6	107.7	102.8
San Diego, CA MSA	132.8	104.7	216.1	74.2	134.6	132.3
Scranton-Wilkes-Barre, PA MSA	101.4	104.6	108.5	129.2	85.6	87.8
Spokane, WA MSA	94.3	97.6	94.4	67.9	88.5	116.4
St. Louis, MO-IL MSA	98.2	94.7	97.3	111.1	98.6	97.3
Syracuse, NY MSA	102.0	100.7	104.4	112.0	104.4	101.2
Toledo, OH MSA	102.6	100.3	104.7	108.9	101.6	86.7
Tulsa, OK MSA	92.8	98.6	81.2	85.2	91.2	101.6
West Palm Beach-Boca Raton-DeLray Beach, FL MSA	106.7	102.8	102.1	119.3	108.2	110.7
Wichita, KS MSA	96.7	93.7	92.6	116.3	92.7	102.2
York, PA MSA	100.2	100.8	100.0	115.6	97.5	85.8
Youngstown-Warren, OH MSA	93.7	95.8	84.6	112.1	96.0	94.0

Source: American Chamber of Commerce Researchers Association (ACCRA), Alexandria, VA, *Cost of Living Index*, First quarter 1990. (Copyright.)

### No. 775. Annual Percent Changes in Consumer Prices, United States and OECD Countries: 1970 to 1989

[Covers member countries of Organization for Economic Cooperation and Development (OECD). For consumer price indexes for OECD countries, see section 31]

COUNTRY	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
United States	5.8	9.1	7.8	11.3	13.5	10.3	6.1	3.2	4.3	3.5	1.9	3.7	4.1	4.8
OECD, total	6.0	11.8	8.5	10.7	14.2	10.9	8.1	5.7	5.8	5.1	3.2	3.9	4.8	6.0
OECD, Europe	6.1	14.4	10.8	12.7	17.7	13.4	11.4	9.5	9.0	7.9	5.3	5.1	7.1	8.6
Australia	3.9	15.1	7.9	9.1	10.2	9.8	11.1	10.1	3.9	6.8	9.1	8.5	7.2	7.6
Canada	3.4	10.8	8.9	9.2	10.2	12.5	10.8	5.8	4.3	4.0	4.2	4.4	4.0	5.0
Japan	7.7	11.8	3.8	3.6	8.0	4.9	2.6	1.8	2.3	2.0	0.4	0.2	0.5	2.3
New Zealand	6.5	14.7	12.0	13.7	17.2	15.4	16.2	7.3	6.2	15.4	13.2	15.8	6.4	5.7
Austria	4.4	8.4	3.6	3.7	6.4	6.8	5.4	3.3	5.6	3.2	1.7	1.4	2.0	2.5
Belgium	3.9	12.8	4.5	4.5	6.6	7.6	8.2	7.7	6.3	4.9	1.3	1.6	1.2	3.1
Denmark	5.8	9.6	10.0	9.6	12.3	11.7	10.1	6.9	6.3	4.7	3.6	4.0	4.6	4.8
Finland	2.8	17.9	7.8	7.5	11.6	12.0	9.6	8.3	7.1	5.9	2.9	4.1	5.1	6.6
France	5.2	11.8	9.1	10.8	13.6	13.4	11.8	9.6	7.4	5.8	2.7	3.1	2.7	3.6
Greece	3.2	13.4	12.6	19.0	24.9	24.5	21.0	20.2	18.4	19.3	23.0	16.4	13.5	13.7
Ireland	8.2	20.9	7.6	13.3	18.2	20.4	17.1	10.5	8.6	5.4	3.8	3.2	2.1	4.0
Italy	5.0	17.0	12.1	14.8	21.2	17.8	16.6	14.6	10.8	9.2	5.9	4.7	5.0	6.6
Luxembourg	4.6	10.7	3.1	4.5	6.3	8.1	9.4	8.7	5.6	4.1	0.3	-0.1	1.4	3.4
Netherlands	3.6	10.2	4.1	4.2	6.5	6.7	5.3	2.7	3.3	2.7	0.1	-0.7	0.7	1.1
Norway	10.6	11.7	8.1	4.8	10.9	13.7	11.3	8.4	6.3	5.7	7.2	8.7	9.7	4.6
Portugal	6.3	20.4	22.5	23.9	16.6	20.0	22.4	25.5	28.8	19.6	11.8	9.4	9.7	12.6
Spain	5.9	16.9	19.8	15.6	15.6	14.5	14.4	12.2	11.3	8.8	8.8	5.2	4.8	6.8
Sweden	7.0	9.8	10.0	7.2	13.7	12.1	8.6	8.9	8.0	7.4	4.3	4.2	5.8	6.4
Switzerland	3.6	6.7	1.1	3.6	4.0	6.5	5.6	3.0	2.9	3.4	0.8	1.4	1.9	3.2
Turkey	29.3	19.2	45.3	58.7	110.2	36.6	29.0	31.4	48.4	45.0	34.6	38.9	75.4	63.3
United Kingdom	6.4	24.2	8.3	13.4	18.0	11.9	8.6	4.6	5.0	6.1	3.4	4.2	4.9	7.8
Germany	3.4	6.0	2.7	4.1	5.5	6.3	5.3	3.3	2.4	2.2	-0.1	0.2	1.3	2.8

<sup>1</sup> Households of wage and salary earners. <sup>2</sup> Excludes rent.

Source: Organization for Economic Cooperation and Development, Paris, France, *Main Economic Indicators*, monthly.

### No. 776. Producer Price Indexes, by Stage of Processing: 1950 to 1989

[1982 = 100. See text, section 15. See *Historical Statistics, Colonial Times to 1970*, series E 73-86 for similar data]

YEAR	Crude materials	Crude food-stuffs and feed-stuffs	Intermediate materials	Finished goods	Finished consumer goods	Capital equipment	YEAR	Crude materials	Crude food-stuffs and feed-stuffs	Intermediate materials	Finished goods	Finished consumer goods	Capital equipment
1950	32.7	43.4	25.3	28.2	32.7	23.2	1970	35.2	45.2	35.4	39.3	43.8	40.1
1951	37.6	50.2	28.4	30.8	36.7	25.5	1971	36.0	46.1	36.8	40.5	44.5	41.7
1952	34.5	47.3	27.5	30.6	36.4	25.9	1972	39.9	51.5	38.2	41.8	46.9	42.8
1953	31.9	42.3	27.7	30.3	34.5	26.3	1973	54.5	72.6	42.4	45.6	56.5	44.2
1954	31.6	42.3	27.9	30.4	34.2	26.7	1974	61.4	76.4	52.5	52.6	64.4	50.5
1955	30.4	38.4	28.4	30.5	33.4	27.4	1975	61.6	77.4	58.0	58.2	69.8	58.2
1956	30.6	37.6	29.6	31.3	33.3	29.5	1976	63.4	76.8	60.9	60.8	69.6	62.1
1957	31.2	39.2	30.3	32.5	34.4	31.3	1977	65.5	77.5	64.9	64.7	73.3	66.1
1958	31.9	41.6	30.4	33.2	36.5	32.1	1978	73.4	87.3	69.5	69.8	79.9	71.3
1959	31.1	38.8	30.8	33.1	34.8	32.7	1979	85.9	100.0	78.4	77.6	87.3	77.5
1960	30.4	38.4	30.8	33.4	35.5	32.8	1980	95.3	104.6	90.3	88.0	92.4	85.8
1961	30.2	37.9	30.6	33.4	35.4	32.9	1981	103.0	103.9	98.6	96.1	97.6	94.6
1962	30.5	38.6	30.6	33.5	35.7	33.0	1982	100.0	100.0	100.0	100.0	100.0	100.0
1963	29.9	37.5	30.7	33.4	35.3	33.1	1983	101.3	101.8	100.6	101.6	101.0	102.8
1964	29.6	36.6	30.8	33.5	35.4	33.4	1984	103.5	104.7	103.1	103.7	105.4	105.2
1965	31.1	39.2	31.2	34.1	36.8	33.8	1985	95.8	94.8	102.7	104.7	104.6	107.5
1966	33.1	42.7	32.0	35.2	39.2	34.6	1986	87.7	93.2	99.1	103.2	107.3	109.7
1967	31.3	40.3	32.2	35.6	38.5	35.8	1987	93.7	96.2	101.5	105.4	109.5	111.7
1968	31.8	40.9	33.0	36.8	40.0	37.0	1988	96.0	106.1	107.1	108.0	112.6	114.3
1969	33.9	44.1	34.1	38.0	42.4	38.3	1989	103.1	111.2	112.0	113.6	112.1	118.0

Source: U.S. Bureau of Labor Statistics, *Producer Price Indexes*, monthly and annual.

# No. 777. Producer Price Indexes for Selected Commodity Groupings, by Stage of Processing: 1960 to 1989

[1982 = 100 unless otherwise indicated]

COMMODITY	1960	1970	1980	1985	1986	1987	1988	1989
<b>Finished goods</b>	<b>33.4</b>	<b>39.3</b>	<b>88.0</b>	<b>104.7</b>	<b>103.2</b>	<b>105.4</b>	<b>108.0</b>	<b>113.6</b>
Finished consumer goods	33.6	39.1	88.6	103.8	101.4	103.6	106.2	112.1
Finished consumer foods	35.5	43.8	92.4	104.6	107.3	109.5	112.6	118.7
Fresh fruits	42.8	42.3	100.3	108.1	112.9	112.0	113.5	113.2
Fresh and dried vegetables	39.0	47.5	88.9	99.5	97.8	103.8	105.5	116.7
Eggs	68.5	71.0	95.7	95.7	99.6	87.6	88.6	119.6
Bakery products	32.3	40.0	90.0	113.9	116.7	118.5	126.4	135.4
Milled rice	51.5	52.4	131.5	105.0	86.2	82.8	118.1	104.9
Beef and veal	38.8	46.7	106.2	90.3	88.1	95.5	101.4	108.9
Pork	34.5	44.6	78.4	89.1	99.9	104.9	95.0	97.7
Processed young chickens	66.0	61.2	106.8	106.5	116.8	101.4	113.1	120.3
Processed turkeys	67.2	69.1	109.2	121.3	116.4	96.2	100.4	110.6
Fish	19.3	29.7	87.8	114.6	124.9	140.0	148.7	142.9
Dairy products	34.6	44.7	92.7	100.2	99.9	101.6	102.2	110.6
Processed fruits and vegetables	33.8	40.3	83.3	108.0	104.9	108.6	113.8	119.9
Soft drinks	25.6	37.8	81.8	107.7	109.6	111.9	114.3	117.7
Roasted coffee	28.7	37.7	110.4	107.2	137.0	113.9	113.5	115.9
Shortening and cooking oils	37.8	47.7	99.5	124.0	103.3	103.9	118.8	116.6
Finished consumer goods excl. foods	33.5	37.4	87.1	103.3	98.5	100.7	103.1	108.9
Alcoholic beverages	49.6	53.3	88.9	107.7	110.2	110.4	111.8	115.2
Women's apparel	56.9	62.8	86.9	105.4	106.8	108.4	111.3	113.5
Men's and boys' apparel	41.1	51.2	91.3	105.0	106.4	108.6	113.0	116.8
Girls', children's, and infants' apparel	47.6	58.8	87.1	103.1	103.8	106.7	107.5	110.5
Textile housefurnishings	40.3	43.4	86.8	106.6	101.1	101.4	104.4	106.6
Footwear	35.8	46.2	95.2	104.8	106.9	109.4	115.1	120.8
Natural gas	NA	7.9	63.3	102.9	89.6	79.5	77.4	82.0
Gasoline	14.5	14.4	93.3	83.3	54.7	58.8	57.3	65.1
Fuel oil No. 2	(NA)	(NA)	82.8	81.6	50.5	55.9	49.5	58.0
Pharmaceutical preps, ethical (Prescription)	52.0	80.6	132.0	143.6	156.6	168.0	184.4	184.4
Pharmaceut'l preps, propri., Over-counter	(NA)	42.3	81.3	121.6	129.1	135.5	144.4	152.1
Soaps and synthetic detergents	37.5	41.5	85.8	107.9	107.9	109.3	114.7	119.4
Cosmetics and other toilet preparations	40.9	47.8	83.8	109.0	113.1	113.8	116.3	119.3
Tires, tubes, tread, etc	38.0	42.7	92.8	93.0	91.7	91.0	94.0	97.2
Sanitary papers and health products	26.5	32.5	91.9	106.6	108.1	109.0	115.0	126.0
Household furniture	39.2	46.6	89.1	108.5	110.3	113.0	117.6	121.8
Floor coverings	59.3	54.9	90.0	105.6	108.3	110.7	114.7	117.6
Household appliances	54.0	52.9	87.5	106.7	105.7	105.6	106.0	108.7
Home electronic equipment	133.8	106.0	103.8	90.8	89.9	88.8	87.2	86.9
Household glassware	20.6	33.1	84.7	121.8	125.4	127.6	128.1	134.7
Household flatware	20.7	32.7	148.0	98.6	94.6	99.0	113.0	125.7
Lawn and garden equip., ex. tractors	39.2	46.8	87.5	110.3	111.4	112.3	114.6	119.8
Passenger cars	48.5	50.0	88.9	106.9	110.2	112.9	113.0	115.5
Toys, games, and children's vehicles	43.3	48.5	89.2	103.8	106.3	107.2	110.8	115.6
Sporting and athletic goods	45.5	52.7	90.6	99.7	100.6	102.3	105.9	109.8
Tobacco products	27.9	35.2	76.0	132.5	142.5	154.7	171.9	194.8
Mobile homes	(NA)	(NA)	(NA)	101.7	102.8	104.3	109.3	114.0
<b>Capital equipment</b>	<b>32.8</b>	<b>40.1</b>	<b>85.8</b>	<b>107.5</b>	<b>109.7</b>	<b>111.7</b>	<b>114.3</b>	<b>118.8</b>
Agricultural machinery and equipment	27.7	36.4	83.3	108.7	109.2	109.6	112.7	117.7
Construction machinery and equipment	25.0	33.7	84.2	105.4	106.7	108.9	111.8	117.2
Metal cutting machine tools	(NA)	30.8	85.1	107.3	109.6	112.6	117.4	123.4
Metal forming machine tools	(NA)	28.6	85.7	107.0	108.7	110.2	113.2	118.1
Tools, dies, jigs, fixtures, and ind. molds	(NA)	(NA)	(NA)	106.3	107.8	108.9	110.9	113.8
Pumps, compressors, and equipment	23.9	33.0	82.8	102.6	104.1	105.2	108.9	115.0
Industrial material handling equipment	30.9	39.8	88.4	102.7	103.4	104.3	107.5	111.7
Textile machinery	35.8	45.4	87.2	107.6	112.1	115.5	119.4	123.9
Paper industries machinery (June 1982 = 100)	(NA)	(NA)	(NA)	109.8	113.0	115.4	119.4	128.5
Printing trades machinery	26.9	42.5	89.7	109.0	111.9	114.5	120.1	123.0
Transformers and power regulators	49.5	44.7	82.4	105.0	105.6	107.0	108.8	117.3
Oil field and gas field machinery	20.7	27.0	76.3	96.8	94.3	93.3	97.0	99.1
Mining machinery and equipment	24.5	30.9	85.2	105.4	106.1	106.5	110.2	116.3
Office and store machines and equipment	63.0	68.3	93.1	101.6	101.9	104.5	107.0	109.5
Commercial furniture	33.4	41.6	85.7	111.9	115.3	118.6	124.2	129.0
Light motor trucks	(NA)	42.0	83.3	112.2	117.7	121.1	125.0	129.5
Heavy motor trucks	(NA)	36.3	82.3	108.8	113.4	111.8	112.4	117.2
Truck trailers	(NA)	(NA)	(NA)	106.2	104.3	103.4	106.6	110.4
Railroad equipment	(NA)	33.2	90.4	104.9	105.4	104.7	107.5	114.0
Photographic and photocopy equipment	71.4	72.0	94.9	89.5	89.9	91.3	91.8	94.1
<b>Intermed. materials, supplies, comp'n'ts</b>	<b>30.8</b>	<b>35.4</b>	<b>90.3</b>	<b>102.7</b>	<b>99.1</b>	<b>101.5</b>	<b>107.1</b>	<b>112.0</b>
Intermediate foods and feeds	(NA)	45.6	105.5	97.3	96.2	99.2	109.5	113.8
Flour	47.9	55.3	102.3	99.8	94.6	92.9	105.7	114.6
Crude vegetable oils	57.6	75.8	127.1	137.6	84.8	84.2	116.6	103.1
Prepared animal feeds	37.2	49.1	107.3	90.1	94.6	98.5	116.0	116.6

See footnotes at end of table.

**No. 777. Producer Price Indexes for Selected Commodity Groupings by Stage of Processing: 1960 to 1989—Continued**

[1982 = 100 unless otherwise indicated]

COMMODITY	1960	1970	1980	1985	1986	1987	1988	1989
<b>Intermediate materials less foods and feeds. . . .</b>	<b>30.7</b>	<b>34.8</b>	<b>89.4</b>	<b>103.0</b>	<b>99.3</b>	<b>101.7</b>	<b>108.9</b>	<b>111.9</b>
Leather . . . . .	30.1	34.6	99.8	113.4	122.9	140.9	167.5	170.4
Liquefied petroleum gas . . . . .	(NA)	(NA)	102.3	86.3	61.0	57.4	51.6	52.7
Electric power . . . . .	24.9	26.1	79.1	111.6	112.6	110.6	111.2	114.8
Jet fuels . . . . .	(NA)	(NA)	87.5	81.0	53.8	54.2	52.1	58.1
No. 2 Diesel fuel . . . . .	(NA)	(NA)	85.8	81.2	48.6	55.4	49.7	58.9
Residual fuel . . . . .	9.3	10.6	81.3	83.2	44.5	53.1	41.1	47.6
Industrial chemicals . . . . .	29.3	28.6	91.9	96.0	91.5	95.5	106.8	114.8
Prepared paint . . . . .	35.0	42.8	89.5	105.3	107.0	108.1	112.2	119.5
Paint materials . . . . .	36.7	33.3	89.9	109.5	104.4	107.3	115.7	129.1
Medicinal and botanical chemicals . . . . .	53.9	44.4	91.0	91.8	89.2	89.4	93.5	100.3
Fats and oils, inedible . . . . .	37.5	49.7	111.6	110.6	80.1	92.7	110.9	95.5
Mixed fertilizers . . . . .	35.2	35.2	90.0	96.1	93.4	95.9	104.8	105.9
Nitrogenates . . . . .	48.4	32.7	90.0	96.3	80.3	79.0	93.3	94.9
Phosphates . . . . .	28.4	27.5	93.0	91.6	90.5	94.9	103.3	105.6
Other agricultural chemicals . . . . .	(NA)	23.2	80.1	98.7	102.2	103.6	107.4	115.1
Plastic resins and materials . . . . .	38.2	32.0	98.5	107.5	104.4	110.3	132.4	133.4
Synthetic rubber . . . . .	34.8	34.0	85.3	96.8	91.5	98.0	108.9	108.5
Plastic construction products . . . . .	(NA)	65.5	103.9	108.6	106.4	108.4	121.1	120.1
Softwood lumber . . . . .	28.8	35.2	107.3	107.4	108.4	116.1	120.0	127.1
Hardwood lumber . . . . .	34.6	43.7	96.0	117.1	118.2	126.8	131.0	128.2
Millwork . . . . .	33.3	41.5	93.2	111.7	113.7	117.7	121.9	127.3
Plywood . . . . .	47.2	46.7	106.2	99.6	101.4	102.6	103.4	115.9
Woodpulp . . . . .	27.0	28.9	100.3	91.4	94.7	111.5	136.7	157.4
Paper . . . . .	32.4	38.8	89.7	106.0	107.0	111.5	123.2	129.6
Paperboard . . . . .	41.0	39.7	92.0	107.7	106.6	118.1	133.2	140.1
Paper boxes and containers . . . . .	40.3	43.3	89.4	108.8	107.8	115.4	123.5	129.8
Building paper and board . . . . .	46.1	42.2	86.1	107.4	108.8	111.2	113.3	115.6
Commercial printing (June 1982 = 100) . . . . .	(NA)	(NA)	(NA)	111.6	113.9	118.2	119.5	124.9
Foundry and forge shop products . . . . .	26.6	32.4	89.7	105.2	105.2	105.7	109.6	114.6
Steel mill products . . . . .	27.6	32.7	86.6	104.7	99.8	102.3	110.7	114.5
Primary nonferrous metals . . . . .	29.5	44.9	132.7	93.6	93.8	109.3	144.3	149.2
Aluminum mill shapes . . . . .	37.1	36.7	89.3	107.8	102.6	105.6	130.9	135.4
Copper and brass mill shapes . . . . .	39.7	63.4	112.6	106.9	106.9	121.8	162.7	182.0
Nonferrous wire and cable . . . . .	39.8	62.6	107.5	100.9	101.8	107.0	129.6	146.1
Metal containers . . . . .	27.3	34.3	90.9	109.0	110.2	109.5	110.2	111.5
Hardware . . . . .	32.2	39.8	85.8	109.1	109.5	109.6	113.7	120.4
Plumbing fixtures and brass fittings . . . . .	33.5	39.9	88.5	111.9	115.5	119.7	128.7	137.7
Heating equipment . . . . .	44.6	46.6	87.0	109.5	113.0	115.5	119.2	125.1
Fabricated structural metal products . . . . .	31.4	36.7	88.8	103.2	103.6	105.4	114.3	120.3
Mechanical power transmission equipment . . . . .	27.3	36.9	84.5	108.2	110.6	112.0	116.0	121.1
Ball and roller bearings . . . . .	34.2	33.1	80.0	105.9	107.3	107.8	114.0	124.1
Wiring devices . . . . .	(NA)	35.9	81.9	111.7	115.8	118.6	123.8	129.7
Motors, generators, motor generator sets . . . . .	34.3	37.7	86.0	113.3	113.5	115.4	121.8	129.0
Switchgear, switchboard, etc., equipment . . . . .	34.7	40.5	88.4	106.7	108.1	110.1	113.2	119.0
Electronic components and accessories . . . . .	(NA)	57.4	88.8	112.4	114.5	115.0	117.5	119.4
Internal combustion engines . . . . .	28.4	34.5	81.7	104.9	107.3	109.3	111.4	114.7
Machine shop products . . . . .	(NA)	31.1	81.0	112.8	113.5	114.6	116.8	121.3
Flat glass . . . . .	(NA)	52.2	88.7	101.7	104.5	107.2	109.7	109.7
Concrete products . . . . .	32.6	37.7	92.0	107.5	109.2	109.4	110.0	111.2
Asphalt felts and coatings . . . . .	24.4	25.8	99.6	102.6	97.9	92.4	94.7	95.8
Gypsum products . . . . .	38.7	38.9	100.1	132.3	137.0	125.2	112.9	110.0
Glass containers . . . . .	27.6	33.9	82.3	106.8	111.9	113.0	112.3	115.2
Motor vehicle parts . . . . .	(NA)	32.9	72.9	102.5	103.4	105.7	107.2	109.7
Photographic supplies . . . . .	34.7	41.0	97.2	107.4	109.1	110.6	113.1	123.0
<b>Crude materials for further processing. . . . .</b>	<b>30.4</b>	<b>35.2</b>	<b>95.3</b>	<b>95.8</b>	<b>87.7</b>	<b>93.7</b>	<b>96.0</b>	<b>103.1</b>
Crude foodstuffs and feedstuffs. . . . .	38.4	45.2	104.6	94.8	93.2	96.2	106.1	111.2
Wheat . . . . .	51.2	39.7	108.3	87.6	76.3	72.8	93.7	109.5
Corn . . . . .	46.0	54.5	119.2	105.9	83.5	67.7	97.1	102.4
Cattle . . . . .	40.0	46.9	104.9	91.2	89.3	102.8	109.5	113.8
Hogs . . . . .	32.8	45.5	74.5	80.7	97.6	97.2	81.8	80.5
Live chickens (broilers and fryers). . . . .	63.1	48.5	103.4	110.5	126.2	101.4	125.4	131.7
Live turkeys . . . . .	67.5	59.9	112.2	144.6	135.1	101.0	108.4	119.1
Fluid milk . . . . .	30.0	40.8	96.0	93.7	91.0	91.9	89.4	98.8
Soybeans . . . . .	35.0	45.3	117.0	94.2	86.4	88.3	124.8	114.3
Cane sugar, raw . . . . .	31.0	39.9	148.3	104.6	104.9	110.3	111.9	115.5
<b>Crude nonfood materials. . . . .</b>	<b>(NA)</b>	<b>23.8</b>	<b>84.6</b>	<b>96.9</b>	<b>81.8</b>	<b>87.9</b>	<b>85.5</b>	<b>93.4</b>
Raw cotton . . . . .	65.8	43.6	135.7	97.7	88.0	105.8	95.5	105.6
Leaf tobacco . . . . .	33.1	40.3	82.1	101.2	89.8	85.8	87.2	93.8
Cattle hides . . . . .	33.5	30.4	104.6	126.1	147.7	179.9	205.8	213.1
Coal . . . . .	17.9	28.1	87.4	102.2	100.8	97.1	95.4	95.5
Natural gas . . . . .	NA	7.9	63.3	102.9	89.6	79.5	77.4	82.0
Crude petroleum . . . . .	13.4	14.5	75.9	84.5	46.9	55.5	46.2	56.3
Logs, timber, etc. . . . .	(NA)	(NA)	(NA)	96.0	92.3	101.8	117.7	131.9
Wastepaper . . . . .	95.4	103.2	172.2	122.9	142.6	181.4	183.6	157.1
Iron ore . . . . .	38.7	35.9	87.8	97.5	91.5	84.2	82.8	82.8
Iron and steel scrap . . . . .	47.3	59.6	140.9	112.6	109.6	128.4	177.1	173.7
Nonferrous metal ores (Dec. 1983 = 100) . . . . .	(NA)	(NA)	(NA)	73.2	75.7	106.0	108.1	109.6
Copper base scrap . . . . .	48.8	100.9	138.9	95.4	93.6	113.0	157.9	179.8
Aluminum base scrap . . . . .	35.0	34.4	183.9	123.4	124.5	156.4	219.5	204.4
Construction sand, gravel, and crushed stone . . . . .	33.5	40.9	85.3	110.7	114.2	118.1	120.6	122.8

NA Not available.

Source: U.S. Bureau of Labor Statistics, *Producer Price Indexes*, monthly and annual.

# **No. 778. Producer Price Indexes for the Net Output of Selected Industries: 1980 to 1989**

[Indexes are based on selling prices reported by establishments of all sizes by probability sampling. N.e.c. = not elsewhere classified. See text section 27]

SIC code <sup>1</sup>	ITEM	Unit	1980	1984	1985	1986	1987	1988	1989
1211	Bituminous coal and lignite . . . . .	12/81	91.4	105.9	105.5	103.6	100.0	98.5	98.2
1311	Crude petroleum and natural gas . . . . .	06/84	70.1	(NA)	(NA)	67.2	67.4	61.2	69.0
1321	Natural gas liquids . . . . .	06/84	(NA)	(NA)	(NA)	79.7	71.4	68.6	72.1
1381	Drilling oil and gas wells . . . . .	12/85	(NA)	(NA)	(NA)	91.3	85.5	88.7	87.5
1389	Oil and gas field services, n.e.c. . . . .	12/85	(NA)	(NA)	(NA)	94.3	92.5	96.0	98.1
2011	Meat packing plants . . . . .	12/80	98.2	96.8	90.9	92.2	99.1	101.7	108.2
2013	Sausages and other prepared meats . . . . .	12/82	81.8	96.8	95.7	97.6	101.5	99.2	102.4
2018	Poultry dressing, poultry and egg processing . . . . .	12/81	(NA)	121.3	115.5	121.8	107.1	115.2	125.6
2022	Natural and processed cheese . . . . .	06/81	94.6	101.5	98.6	96.5	97.2	97.0	106.4
2026	Fluid milk . . . . .	12/82	(NA)	101.4	102.6	102.1	104.2	106.0	112.8
2033	Canned fruits and vegetables . . . . .	06/81	89.0	112.4	112.7	111.7	115.6	121.0	128.8
2037	Frozen fruits and vegetables . . . . .	06/81	(NA)	113.6	120.6	115.2	118.6	126.8	127.5
2038	Frozen specialties . . . . .	12/82	87.6	107.3	110.8	112.2	116.5	118.4	123.5
2048	Prepared animal feeds, n.e.c. . . . .	12/80	92.8	92.1	80.3	79.9	80.7	96.4	97.4
2051	Bread, cake, and related products . . . . .	06/80	(NA)	122.9	127.1	129.7	131.9	142.8	153.6
2052	Cookies and crackers . . . . .	06/83	(NA)	105.4	112.0	116.2	120.1	126.3	134.6
2065	Confectionery products . . . . .	06/83	(NA)	105.8	107.0	111.8	115.7	116.8	119.8
2075	Soybean oil mill products . . . . .	12/79	101.0	104.1	85.8	76.2	78.1	101.4	92.9
2082	Malt beverages . . . . .	06/82	(NA)	107.8	110.0	112.9	112.4	113.2	115.4
2086	Bottled and canned soft drinks . . . . .	06/81	(NA)	111.3	112.5	114.6	117.1	119.5	122.5
2092	Fresh or frozen packaged fish . . . . .	12/82	78.8	102.7	101.4	110.2	120.6	122.2	123.1
2095	Coffee . . . . .	06/81	112.9	110.4	111.5	141.3	118.4	117.8	120.4
2099	Food preparations, n.e.c. . . . .	12/85	(NA)	(NA)	(NA)	101.9	104.3	104.8	110.4
2111	Cigarettes . . . . .	12/82	62.5	102.3	110.7	120.9	133.5	150.8	173.1
2211	Cotton broadwoven fabric . . . . .	12/80	95.9	103.0	99.5	99.0	101.9	107.6	107.2
2221	Synthetic fiber and silk broadwoven fabric . . . . .	06/81	91.0	103.1	101.2	100.9	103.7	110.1	112.3
2272	Tufted carpets and rugs . . . . .	12/79	106.1	125.9	125.0	128.2	130.7	134.3	136.2
2281	Spun yarn . . . . .	12/82	96.2	102.5	99.0	98.7	101.6	104.1	103.0
2335	Women's, misses', and juniors' dresses . . . . .	12/80	98.6	107.2	108.0	110.1	113.0	116.7	122.0
2411	Logging camps and logging contractors . . . . .	12/81	(NA)	95.8	94.8	93.1	100.4	112.8	128.0
2421	Sawmills and planing mills . . . . .	12/80	(NA)	100.0	97.3	98.3	104.1	107.1	111.6
2431	Millwork . . . . .	06/83	(NA)	101.1	103.2	105.2	110.4	113.5	118.9
2511	Wood household furniture, except upholstered . . . . .	12/79	105.3	129.3	133.3	136.2	140.7	147.2	153.7
2621	Paper mill products except building paper . . . . .	06/81	93.5	110.0	109.5	110.3	115.5	127.4	134.6
2631	Paperboard mills . . . . .	12/82	97.3	116.3	112.0	113.0	126.2	141.6	149.9
2641	Paper coating and glazing . . . . .	12/82	(NA)	106.4	108.5	110.0	112.7	119.0	126.0
2643	Bags, except textile bags . . . . .	12/83	(NA)	107.6	108.5	112.3	120.2	135.4	148.3
2647	Sanitary paper products . . . . .	06/83	91.4	102.4	105.5	106.4	107.5	112.9	121.7
2653	Corrugated and solid fiber boxes . . . . .	03/80	(NA)	115.4	119.7	117.2	129.1	140.2	143.6
2711	Newspaper publishing . . . . .	12/79	106.8	153.8	164.0	172.3	181.7	193.9	206.9
2721	Periodical publishing . . . . .	12/79	105.5	147.8	157.9	167.0	173.8	183.8	194.0
2731	Book publishing . . . . .	12/80	(NA)	127.4	134.1	140.8	146.9	155.1	165.4
2759	Commercial printing, n.e.c. . . . .	06/82	(NA)	107.6	112.9	116.9	121.1	128.2	133.7
2752	Commercial printing, lithographic . . . . .	06/82	(NA)	106.7	111.0	112.9	115.1	118.5	124.1
2781	Manifold business forms . . . . .	12/83	(NA)	104.0	106.2	108.3	112.1	120.3	124.9
2819	Industrial inorganic chemicals, n.e.c. . . . .	12/82	(NA)	101.9	100.4	102.2	102.6	104.7	116.2
2821	Plastic materials and resins . . . . .	12/80	101.5	115.4	113.6	110.6	117.6	144.0	147.3
2824	Noncellulosic manmade fibers . . . . .	06/81	84.5	101.5	97.6	94.2	92.2	96.8	101.5
2834	Pharmaceutical preparations . . . . .	06/81	(NA)	130.7	141.3	152.5	163.9	175.6	190.2
2841	Soap and other detergents . . . . .	06/83	(NA)	101.3	104.2	103.7	105.4	110.5	115.5
2842	Specialty cleaning, polish, and sanitation preps. . . . .	06/83	(NA)	101.5	103.9	105.1	106.1	110.2	115.6
2844	Toilet preparations . . . . .	03/80	(NA)	130.7	135.4	140.7	142.1	145.6	149.8
2851	Paints and allied products . . . . .	06/83	(NA)	102.9	104.9	106.2	107.2	111.7	119.5
2865	Cyclic (coal tar) crudes & intermediates . . . . .	12/82	(NA)	96.9	96.9	96.1	98.0	105.8	112.7
2869	Industrial organic chemicals, n.e.c. . . . .	12/82	(NA)	103.7	101.3	96.1	100.2	120.0	128.7
2899	Chemicals and chemical preparations, n.e.c. . . . .	06/85	(NA)	(NA)	(NA)	97.6	97.1	104.3	111.3
2911	Petroleum refining . . . . .	06/85	104.6	102.7	98.3	64.3	68.6	65.4	73.6
3011	Tires and inner tubes . . . . .	06/81	93.9	98.2	96.8	95.6	95.1	99.5	102.9
3069	Fabricated rubber products, n.e.c. . . . .	06/83	(NA)	100.7	103.0	104.6	105.9	108.2	111.3
3079	Miscellaneous plastic products . . . . .	12/82	91.3	105.0	105.1	105.8	106.8	114.3	117.9
3221	Glass containers . . . . .	06/82	81.7	100.7	105.9	110.8	111.5	110.7	113.5
3273	Ready-mixed concrete . . . . .	06/81	92.7	105.1	108.6	109.5	109.2	109.7	111.5
3312	Blast furnaces and steel mills . . . . .	06/82	87.8	104.7	104.9	99.7	102.4	109.4	113.0
3321	Gray iron foundries . . . . .	12/80	97.2	114.1	115.6	116.0	115.8	118.3	120.9
3334	Primary aluminum . . . . .	06/80	102.6	113.2	107.1	107.1	116.1	152.2	146.5
3353	Aluminum sheet, plate, foil and welded tube prods. . . . .	06/81	89.8	114.6	109.0	103.8	106.0	129.6	134.9
3356	Rolling, drawing nonferrous exc. copper, aluminum . . . . .	06/82	(NA)	111.1	103.7	107.2	116.7	129.0	134.5
3357	Nonferrous wire drawing and insulating . . . . .	12/82	(NA)	100.8	100.5	101.5	108.1	132.7	153.5
3411	Metal cans . . . . .	06/81	95.7	109.3	110.4	111.3	110.5	111.2	113.7
3429	Hardware, n.e.c. . . . .	06/85	(NA)	(NA)	(NA)	98.7	97.1	100.7	108.5
3441	Fabricated structural metal . . . . .	06/82	(NA)	99.7	103.0	103.9	107.3	113.0	118.0
3442	Metal doors, sash and trim . . . . .	06/83	86.0	104.3	104.8	106.7	109.4	118.4	125.0
3443	Fabricated plate work . . . . .	03/80	(NA)	119.9	120.8	119.6	120.2	129.6	137.1
3444	Sheet metal work . . . . .	12/82	(NA)	106.5	107.2	106.8	109.3	121.4	128.4
3465	Automotive stampings . . . . .	12/82	94.5	105.0	110.4	107.4	106.5	108.1	109.9
3469	Metal stampings, n.e.c. . . . .	06/84	(NA)	(NA)	101.4	103.2	105.8	111.5	118.8
3494	Valves and pipe fittings . . . . .	12/82	87.7	103.3	106.3	107.9	109.2	114.4	123.1
3495	Wire springs . . . . .	12/82	(NA)	101.4	103.6	104.2	106.0	109.9	112.7
3499	Fabricated metal products, n.e.c. . . . .	06/85	(NA)	(NA)	(NA)	100.5	102.6	109.6	114.6

See footnotes at end of table.



**No. 778. Producer Price Indexes for the Net Output of Selected Industries: 1980 to 1989—Continued**

[Indexes are based on selling prices reported by establishments of all sizes by probability sampling. See text section 27]

SIC code <sup>1</sup>	ITEM	Unit	1980	1984	1985	1986	1987	1988	1989
3523	Farm machinery and equipment . . . . .	12/82 .	80.8	104.8	105.3	105.6	106.0	108.1	113.0
3531	Construction machinery . . . . .	12/80 .	95.7	116.7	119.5	120.8	122.6	125.8	132.4
3533	Oilfield and gasfield machinery and equipment . . . . .	12/80 .	93.7	119.6	120.6	118.6	119.6	124.7	126.8
3541	Machine tools, metal cutting types . . . . .	06/83 .	83.1	102.3	105.0	107.3	109.8	114.1	120.2
3544	Special tools, dies, jigs, fixtures and indus. molds . . . . .	06/81 .	(NA)	111.3	113.5	115.3	116.2	118.2	121.1
3561	Pumps and pumping equipment . . . . .	12/83 .	(NA)	101.4	103.1	103.7	104.4	109.1	115.1
3585	Refrigeration and heating equipment . . . . .	12/82 .	88.3	102.8	104.7	105.9	106.7	110.8	115.5
3613	Switchgear and switchboard apparatus . . . . .	06/85 .	(NA)	(NA)	(NA)	101.4	103.6	106.7	113.5
3621	Electric motors and generators . . . . .	06/83 .	82.3	104.8	108.2	109.1	110.8	116.4	123.3
3651	Radio and t.v.s, phonos, and related equip . . . . .	03/80 .	100.5	94.7	93.1	94.1	92.8	90.5	89.6
3661	Telephone & telegraph apparatus . . . . .	12/85 .	(NA)	(NA)	(NA)	104.0	108.1	108.3	110.2
3662	Radio & television communication equipment . . . . .	12/85 .	(NA)	(NA)	(NA)	100.8	101.2	101.7	103.5
3674	Semiconductors and related devices . . . . .	06/81 .	100.5	107.4	106.6	108.1	108.3	108.3	107.5
3694	Electrical equip. for internal combustion engines . . . . .	12/82 .	(NA)	105.2	107.1	109.4	109.7	111.3	114.3
3711	Motor vehicles and passenger car bodies . . . . .	06/82 .	86.0	104.6	107.2	111.0	113.0	114.1	117.4
3714	Motor vehicle parts and accessories . . . . .	12/82 .	(NA)	100.1	100.6	101.4	103.7	105.3	107.4
3721	Aircraft . . . . .	12/85 .	(NA)	(NA)	(NA)	99.9	99.3	101.5	102.6
3724	Aircraft engines and engine parts . . . . .	12/85 .	(NA)	(NA)	(NA)	100.1	100.8	103.8	106.6
3731	Ship building and repairing . . . . .	12/85 .	(NA)	(NA)	(NA)	100.8	103.3	105.5	110.2
3743	Railroad equipment . . . . .	06/84 .	(NA)	(NA)	101.8	102.1	101.9	103.7	110.0
3861	Photographic equipment and supplies . . . . .	12/83 .	(NA)	100.9	101.5	102.1	104.2	105.3	109.3
3911	Jewelry, precious metal . . . . .	12/85 .	122.1	102.7	100.4	103.0	110.6	114.1	115.4
4011	Railroads, line haul operations . . . . .	12/84 .	75.9	99.3	99.9	100.7	100.1	104.8	106.4
5093	Scrap and waste materials . . . . .	12/86 .	(NA)	(NA)	(NA)	(NA)	115.8	146.7	148.6

NA Not available. <sup>1</sup> Standard Industrial Classification code.

Source: U.S. Bureau of Labor Statistics, *Producer Price Indexes*, monthly.

**No. 779. Implicit Price Deflators and Fixed—Weighted Price Indexes: 1970 to 1989**

[1982 = 100. GNP = Gross national product]

ITEM	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
Implicit price deflators, GNP . . . . .	42.0	59.3	85.7	103.9	107.7	110.9	113.8	117.4	121.3	126.3
Personal consumption expenditures (PCE) . . . . .	42.9	59.2	86.6	104.1	108.1	111.6	114.3	119.6	124.2	129.9
Gross private domestic fixed investment . . . . .	39.0	56.9	86.3	99.8	100.2	100.6	102.9	103.9	105.7	107.2
Government purchases of goods and services . . . . .	38.1	57.7	85.5	104.0	108.6	112.3	114.5	118.3	123.3	126.5
Fixed-weighted price indexes, PCE . . . . .	44.7	60.1	86.8	104.2	108.4	112.2	115.3	120.6	125.6	131.6
Durable goods . . . . .	55.0	68.7	89.6	102.3	104.1	105.2	106.5	110.1	111.9	114.3
Motor vehicles and parts . . . . .	50.1	61.4	87.6	102.9	106.3	108.6	110.9	116.1	118.4	118.7
Furniture and household equipment . . . . .	62.2	73.8	91.1	101.1	101.2	100.7	100.9	102.1	103.8	104.9
Nondurable goods . . . . .	45.2	63.2	89.6	102.1	105.2	107.9	107.8	112.6	117.3	123.9
Food . . . . .	43.0	63.6	86.7	102.0	106.3	108.6	112.2	117.2	122.2	129.2
Clothing and shoes . . . . .	67.4	81.1	95.1	101.9	103.2	106.3	106.0	111.0	115.8	118.5
Fuel oil and coal . . . . .	16.6	34.9	83.3	93.9	96.1	94.3	76.3	76.7	76.8	80.4
Services . . . . .	41.9	58.2	84.0	106.3	111.8	117.2	123.1	129.2	135.2	141.7
Housing . . . . .	44.7	56.4	83.7	105.7	111.5	117.7	124.3	130.5	136.8	142.9
Household operation . . . . .	36.9	54.1	79.9	106.8	112.4	115.8	118.3	118.3	119.8	122.6
Transportation . . . . .	39.9	51.3	84.1	104.8	108.2	109.4	113.2	120.5	126.6	131.9
Medical care . . . . .	38.3	52.6	82.0	107.2	114.8	121.6	127.6	134.9	144.0	153.4

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-1982*, and *Survey of Current Business*, July issues.

**No. 780. Indexes of Spot Primary Market Prices: 1970 to 1990**

[1967 = 100. Index computed weekly through 1981; daily, beginning May 27, 1981. Represents unweighted geometric average of price quotations of 23 commodities. This index is much more sensitive to changes in market conditions than is a monthly producer price index]

ITEMS AND NUMBER OF COMMODITIES	1970 (6-16)	1975 (6-24)	1980 (6-24)	1982 (5-25)	1983 (5-23)	1984 (5-22)	1985 (5-21)	1986 (5-20)	1987 (5-26)	1988 (5-27)	1989 (5-26)	1990 (5-25)
All commodities (22) . . . . .	113.6	189.9	265.1	247.6	249.8	293.9	251.4	218.0	250.0	270.3	281.3	279.2
Foodstuffs (9) . . . . .	112.2	215.3	260.9	252.8	246.1	299.9	248.1	205.5	215.2	230.1	222.5	231.5
Raw industrials (13) . . . . .	114.4	174.1	268.0	243.9	252.3	289.7	253.6	226.9	277.3	302.0	329.0	317.0
Livestock and products (5) . . . . .	123.6	240.8	250.5	312.1	278.1	364.5	284.5	231.2	303.3	316.1	285.2	306.9
Metals (5) . . . . .	125.2	166.8	257.9	218.2	225.9	253.4	220.2	191.2	239.5	276.7	347.1	313.9
Textiles and fibers (4) . . . . .	99.9	158.8	234.7	206.6	208.0	248.1	220.8	216.9	247.1	247.3	253.5	259.4
Fats and oils (4) . . . . .	128.6	213.6	229.5	255.7	225.9	363.5	273.1	168.5	201.2	230.4	208.1	193.3

Source: 1970-1980, U.S. Bureau of Labor Statistics, *Tuesday Spot Market Price Indexes and Prices*, weekly and monthly, thereafter, Commodity Research Bureau, a Knight-Ridder Business Information Service, New York, NY, *CRB Commodity Index Report*, weekly (copyright).

## No. 781. Import Price Indexes—Selected Commodities: 1980 to 1990

[1985=100, except as noted. As of June quarter. Indexes are weighted by the 1980 Tariff Schedule of the United States Annotated, a scheme for describing and reporting product composition and value of U.S. imports. Import prices are based on U.S. dollar prices paid by importer. F.o.b.—Free on board; c.i.f.—Cost, insurance, and freight; n.e.s.—Not elsewhere specified]

COMMODITY	1980	1982	1983	1984	1985 <sup>1</sup>	1986	1987	1988	1989	1990
All commodities . . . . .	(NA)	(NA)	102.8	103.9	99.2	98.7	110.0	116.8	119.8	119.0
Food . . . . .	105.1	92.1	98.6	104.2	98.9	107.3	108.3	114.0	111.3	111.7
Meat . . . . .	112.5	114.2	111.2	107.9	94.0	96.0	108.0	107.0	109.7	136.8
Meat, edible meat offals, fresh, chilled or frozen . . . . .	114.5	115.0	115.0	109.4	93.2	91.1	102.0	104.6	108.0	133.9
Meat and edible meat offals, prepared or preserved, n.e.s.; fish extracts . . . . .	108.7	114.3	102.4	105.8	95.6	106.5	120.6	111.5	113.3	143.5
Dairy products and eggs . . . . .	(NA)	104.4	102.5	100.7	98.7	108.7	122.3	125.0	120.2	133.0
Fish . . . . .	94.5	103.1	101.7	101.9	98.6	110.5	126.0	129.3	122.7	125.9
Shellfish, fresh, chilled, frozen, salted, or dried, c.i.f. . . . .	84.0	101.6	105.4	106.7	99.4	113.3	123.2	123.1	115.1	113.6
Fish in airtight containers, c.i.f. . . . .	111.8	111.5	102.3	102.3	98.1	103.6	113.7	130.2	124.9	126.0
Bakery goods <sup>2</sup> . . . . .	95.7	100.3	95.6	98.4	97.1	112.5	126.2	139.8	140.2	147.4
Fruits and vegetables . . . . .	79.2	88.5	104.4	107.4	103.0	100.0	110.1	120.3	123.2	126.2
Sugar <sup>3</sup> . . . . .	(NA)	70.0	99.2	101.8	102.3	104.6	109.6	110.0	111.8	116.7
Coffee, tea, cocoa . . . . .	114.9	84.6	89.0	105.6	96.8	117.2	87.0	93.3	85.3	66.2
Beverages and tobacco . . . . .	85.7	96.2	96.7	98.2	99.2	105.2	112.8	116.2	117.2	127.7
Beverages . . . . .	87.2	97.9	98.2	98.3	98.9	106.1	114.2	120.0	120.7	129.6
Alcoholic . . . . .	87.2	97.9	98.3	98.2	98.9	105.8	113.7	119.3	120.5	129.3
Wine of fresh grapes, c.i.f. . . . .	92.7	100.5	100.1	96.2	98.7	109.7	121.0	127.3	125.3	135.7
Beer, c.i.f. . . . .	(NA)	97.4	97.5	98.5	100.1	103.2	111.4	114.2	114.8	117.0
Spirits, c.i.f. . . . .	80.5	96.7	97.6	99.4	98.5	104.1	109.1	115.6	119.2	130.1
Crude materials . . . . .	(NA)	(NA)	(NA)	108.4	100.5	106.4	116.2	137.8	144.3	132.0
Crude rubber <sup>4</sup> . . . . .	(NA)	(NA)	(NA)	120.9	101.0	99.5	103.7	151.1	103.4	104.0
Wood . . . . .	(NA)	92.5	119.8	99.8	105.0	104.3	110.2	111.4	112.4	114.9
Lumber . . . . .	94.8	90.6	122.5	99.6	105.4	104.6	110.0	111.1	110.8	112.5
Pulp and waste paper . . . . .	(NA)	121.2	101.4	121.3	101.4	100.3	132.0	160.5	190.0	183.7
Crude minerals . . . . .	(NA)	(NA)	(NA)	96.0	100.6	99.0	99.6	101.0	104.7	97.5
Metalliferous ores and metal scrap . . . . .	(NA)	(NA)	(NA)	114.5	95.6	121.6	124.5	167.6	212.3	160.7
Ores and concentrates of base metals, n.e.s. . . . .	(NA)	(NA)	(NA)	120.4	94.5	134.0	136.4	192.9	258.1	179.7
Crude vegetable and animal materials, n.e.s. . . . .	(NA)	(NA)	(NA)	91.6	94.8	111.3	109.0	148.2	110.3	117.6
Fuels and related products . . . . .	(NA)	123.5	108.4	108.7	99.7	51.5	74.1	63.4	73.3	65.0
Crude petroleum and petroleum products . . . . .	(NA)	121.7	106.6	107.2	99.5	49.0	74.4	63.6	74.4	65.3
Crude petroleum . . . . .	120.3	125.1	108.3	107.7	100.5	45.8	68.7	57.5	67.1	57.1
Natural gas and LNG . . . . .	(NA)	150.6	134.9	131.0	102.3	79.7	67.8	58.7	61.0	60.2
Fats and oils . . . . .	(NA)	(NA)	(NA)	174.3	110.0	66.7	87.9	111.2	117.4	95.8
Chemicals and related products . . . . .	(NA)	(NA)	103.9	104.5	100.4	99.7	104.8	116.4	120.4	117.8
Intermediate manufactured products . . . . .	105.9	102.9	101.7	104.2	99.1	103.6	112.5	132.2	136.1	134.9
Leather and furskins . . . . .	103.1	98.9	97.0	105.8	97.9	106.3	116.6	137.0	133.8	142.6
Rubber manufactures . . . . .	100.4	107.9	103.5	102.2	99.5	101.2	104.6	107.0	112.2	115.6
Cork and wood manufactures . . . . .	103.7	101.1	107.0	104.4	99.2	111.0	124.3	138.2	139.8	144.4
Paper and paperboard products . . . . .	84.3	95.3	90.7	95.7	99.9	100.8	104.9	118.3	120.8	120.9
Paper and paperboard . . . . .	83.8	95.1	90.1	95.1	100.0	98.9	102.5	115.5	117.9	118.0
Newsprint, c.i.f. . . . .	83.0	94.6	88.7	94.0	100.1	99.2	105.0	119.1	119.6	120.0
Textiles . . . . .	101.5	99.5	97.8	99.4	98.9	105.4	111.8	120.6	122.1	126.3
Non-metallic mineral manufactures . . . . .	100.9	100.1	105.8	106.0	96.2	110.5	126.7	142.5	149.5	159.7
Iron and steel . . . . .	99.2	106.3	95.4	102.9	100.2	98.9	106.6	127.2	133.6	125.7
Non-ferrous metals . . . . .	(NA)	107.2	119.2	118.1	100.2	98.9	112.4	159.7	158.6	143.5
Silver platinum, other metals of platinum group, c.i.f. . . . .	(NA)	100.3	148.6	132.9	94.6	106.8	141.7	136.4	119.0	124.5
Copper . . . . .	129.7	110.0	114.6	104.6	100.6	103.9	107.8	149.0	172.1	173.7
Nickel, c.i.f. . . . .	(NA)	117.3	96.9	98.1	105.7	88.1	83.5	262.4	258.0	161.8
Zinc . . . . .	91.2	87.0	91.7	126.9	109.4	83.2	101.3	147.1	210.3	219.0
Tin, c.i.f. . . . .	148.5	114.6	116.5	108.6	103.9	49.0	60.4	62.0	83.6	59.0
Metal manufactures, n.e.s. . . . .	103.3	104.3	99.5	100.5	99.2	107.9	112.7	129.9	132.6	134.4
Machinery and transport equipment . . . . .	(NA)	99.6	100.7	100.5	98.9	110.4	119.9	127.3	128.2	130.0
Machinery specialized for particular industries . . . . .	(NA)	102.9	104.3	100.1	96.4	116.9	136.1	149.8	145.7	159.1
Metalworking machinery . . . . .	109.6	109.7	106.1	102.1	98.3	113.0	128.1	142.4	139.5	149.9
General industrial machinery, parts n.e.s. . . . .	(NA)	105.9	103.3	101.8	98.0	116.2	130.8	143.7	143.0	153.1
Office machines <sup>5</sup> . . . . .	109.9	105.0	104.3	105.8	98.5	109.1	114.0	119.5	119.3	135.9
Telecommunications <sup>6</sup> . . . . .	115.0	113.0	110.1	107.4	100.2	106.4	110.3	113.8	115.7	111.2
Electric machinery and equipment . . . . .	(NA)	115.3	115.7	107.2	100.3	106.4	115.8	124.2	129.6	127.7
Road vehicles and parts . . . . .	(NA)	93.0	94.5	97.2	98.8	110.8	120.5	127.6	129.6	129.4
Misc. manufactured articles . . . . .	100.3	101.3	101.6	102.7	99.2	106.8	117.8	125.7	126.6	131.9
Plumbing, heating and lighting fixtures . . . . .	87.8	91.8	94.2	98.3	98.6	108.6	117.0	126.9	131.5	140.8
Furniture and parts . . . . .	106.8	107.9	104.8	102.5	98.6	109.0	116.5	124.0	125.3	131.7
Footwear, c.i.f. . . . .	101.1	100.7	97.5	102.0	98.1	108.0	119.8	129.6	127.9	137.6
Professional, scientific and controlling instruments, and apparatus . . . . .	109.4	109.6	104.0	102.3	96.1	117.9	135.9	142.5	136.5	144.7
Photographic apparatus <sup>7</sup> . . . . .	111.1	104.6	100.1	101.5	98.9	113.8	126.0	129.3	127.9	137.2
Misc. manufactured articles, n.e.s. . . . .	(NA)	108.4	104.4	103.0	99.6	108.1	121.1	132.1	131.4	137.2

NA Not available. <sup>1</sup> June 1985 may not equal 100 because indexes were reweighted to an "average" trade value in 1985.

<sup>2</sup> Includes pasta products, grain and grain preparations. <sup>3</sup> Includes sugar preparations and honey. <sup>4</sup> Includes synthetic and reclaimed rubber. <sup>5</sup> Includes automatic data processing equipment. <sup>6</sup> Includes sound recording and reproducing equipment.

<sup>7</sup> Includes photographic supplies, optical goods, watches and clocks.

Source: U.S. Bureau of Labor Statistics, *News*, quarterly.

## No. 782. Export Price Indexes—Selected Commodities: 1980 to 1990

[1985 = 100, except as noted, June quarter. Indexes are weighted by 1980 export values according to the Schedule B classification system of the U.S. Bureau of the Census. Prices used in these indexes were collected from a sample of U.S. manufacturers of exports and are factory transaction prices, except as noted. F.a.s. = free alongside ship. N.e.s. = not elsewhere specified. F.o.b. = free on board]

COMMODITY	1980	1983	1984	1985 <sup>1</sup>	1986	1987	1988	1989	1990
All commodities	(NA)	(NA)	104.1	100.4	99.1	102.2	109.5	113.2	113.3
Food	(NA)	111.5	116.3	100.5	97.1	89.9	103.4	115.5	108.8
Meat	(NA)	94.4	102.1	98.8	105.2	121.2	131.0	128.2	123.3
Fish	(NA)	94.2	96.3	101.2	108.6	125.8	145.0	158.9	127.4
Grain and grain preparations	106.5	117.4	121.8	102.5	89.0	71.0	87.2	106.4	101.8
Wheat	113.7	112.2	110.2	99.8	80.7	66.8	87.8	116.1	96.9
Rice	128.3	118.4	107.2	101.6	67.9	59.1	105.7	95.7	93.1
Corn, yellow, f.o.b.	99.7	120.4	131.3	104.0	95.2	72.7	83.7	101.5	104.8
Other grain	(NA)	(NA)	(NA)	106.3	96.5	77.7	87.6	104.9	106.0
Fruits and vegetables	(NA)	85.7	102.8	100.1	108.6	112.4	104.3	113.6	115.6
Feedstuff for animals	(NA)	132.3	129.9	90.9	114.8	123.8	158.1	144.0	118.4
Miscellaneous food products	(NA)	91.8	100.5	99.9	97.0	100.6	102.8	108.0	110.1
Beverages and tobacco	(NA)	100.4	102.4	100.1	97.4	100.5	110.6	117.6	124.5
Tobacco and tobacco products	(NA)	100.7	102.5	100.1	97.1	105.0	110.7	117.9	124.9
Crude materials	(NA)	104.5	123.6	101.6	102.2	114.5	139.9	143.0	137.2
Raw hides and skins	76.4	90.3	118.1	97.4	117.1	149.6	166.8	149.9	160.9
Oilseeds and oleaginous fruit	109.3	110.8	154.1	105.5	98.1	101.6	143.0	129.8	110.4
Crude rubber, f.a.s.	(NA)	(NA)	100.3	99.8	99.9	101.0	106.1	114.6	115.2
Wood	122.9	99.6	101.3	98.7	101.2	116.2	149.6	170.7	178.9
Pulp and waste paper	(NA)	104.4	127.5	100.3	116.4	149.9	179.5	193.5	174.0
Textile fibers	108.3	106.8	120.5	103.5	98.0	112.4	109.9	115.5	124.4
Cotton	120.5	113.2	133.0	103.4	95.5	114.4	108.8	110.9	122.6
Crude minerals and fertilizers	79.2	87.2	88.9	100.4	98.4	94.0	94.2	99.2	99.7
Metal ores and scrap	(NA)	(NA)	117.2	100.9	98.0	107.0	146.0	157.2	142.7
Scrap metal (iron or steel) f.a.s.	123.4	95.7	112.1	100.2	96.1	95.8	147.7	154.3	137.1
Nonferrous base metal waste and scrap, n.e.s., f.a.s.	(NA)	117.0	118.9	98.9	101.3	126.9	185.6	197.0	174.4
Fuels and related products	(NA)	(NA)	101.5	101.8	76.8	82.8	82.1	86.0	88.8
Coal and coke	(NA)	(NA)	(NA)	100.5	94.0	88.2	92.0	94.3	97.3
Crude petroleum and petroleum products <sup>2</sup>	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	97.2	105.4	106.9
Fats and oils	(NA)	79.6	130.9	113.4	67.7	78.8	97.3	87.3	94.6
Vegetable oils	(NA)	71.3	125.8	116.8	70.6	71.9	93.7	84.4	98.4
Chemicals and related products	(NA)	99.1	102.4	100.2	98.0	106.7	121.6	121.9	115.9
Organic chemicals	(NA)	(NA)	106.8	100.6	93.1	118.4	144.6	145.0	120.9
Hydrocarbons, n.e.s. and derivatives f.a.s.	136.3	111.7	113.9	101.4	86.4	142.8	169.0	157.6	128.0
Alcohols, phenols, phenol-alcohols, and deriv. f.a.s.	117.6	106.0	107.2	99.9	96.9	102.7	143.8	186.8	122.3
Carboxylic acids, f.a.s.	101.1	96.5	104.2	100.7	99.0	103.2	127.5	120.9	112.6
Fertilizers, manufactured	(NA)	98.2	107.1	97.2	93.0	91.6	109.8	108.0	102.8
Pesticides, starches, glue, gas and oil additives, chemical materials and products, n.e.s.	(NA)	(NA)	97.1	99.9	101.8	97.7	101.7	109.4	113.8
Intermediate manufactured products	(NA)	100.6	101.6	100.2	102.5	107.9	117.7	123.1	122.9
Leather and fur skins	103.4	86.5	104.5	99.1	103.8	126.9	125.1	120.7	125.6
Rubber manufactures	82.6	96.9	98.7	100.2	100.1	102.5	108.8	112.9	114.5
Paper and paperboard products	86.0	89.5	102.0	100.5	104.7	117.0	129.0	133.7	130.0
Textiles	(NA)	(NA)	(NA)	100.2	102.9	103.7	107.9	115.4	118.4
Non-metallic mineral manufactures <sup>3</sup>	(NA)	(NA)	(NA)	(NA)	102.4	108.7	114.1	122.4	127.5
Iron and steel	(NA)	100.2	100.4	99.5	100.2	102.9	110.8	117.2	117.4
Non-ferrous metals	(NA)	123.5	111.6	102.0	103.1	113.0	143.5	145.8	132.5
Metal manufactures, n.e.s.	(NA)	95.5	98.3	99.7	100.8	101.3	107.6	113.9	116.8
Machinery and transport equipment <sup>4</sup>	79.1	94.9	97.8	100.0	100.8	101.8	104.0	107.2	110.0
Power generating machinery <sup>5</sup>	70.5	90.6	93.2	100.1	102.4	103.7	108.4	112.8	117.3
Internal combustion piston engines, parts	73.5	96.2	99.8	99.8	101.4	102.9	107.1	108.9	112.5
Electric motors, generators, other rotating plant, f.o.b., factory	84.5	95.8	95.7	101.0	103.2	107.7	117.9	124.9	131.1
Machinery specialized for particular industries	76.9	95.6	98.1	100.0	100.3	100.1	103.6	108.8	113.2
Agricultural machinery and parts <sup>6</sup>	72.6	93.6	97.6	99.7	100.4	101.2	102.1	104.9	111.5
Civil engineering and contractors, plant and equip.	77.4	97.5	99.6	100.3	98.4	96.0	98.5	105.3	109.3
Metallworking machinery	77.5	95.2	97.0	99.7	102.0	106.7	110.8	117.3	120.6
General industrial machines, parts, n.e.s.	76.6	94.6	97.2	100.0	101.6	104.5	108.1	113.3	118.1
Office machines <sup>7</sup>	101.6	104.6	102.4	99.8	99.0	96.1	95.7	94.8	94.6
Telecommunications	88.8	98.9	99.8	99.6	98.9	101.4	104.6	107.5	110.2
Electrical machinery, equipment	87.6	94.8	98.4	100.9	99.2	102.1	103.4	106.5	107.4
Road vehicles and parts	76.8	93.4	97.5	100.1	101.7	103.5	104.9	107.8	107.8
Other transport equipment	64.4	88.5	94.5	99.2	103.1	105.5	109.6	114.7	121.2

NA Not available. <sup>1</sup> June 1985 may not equal 100 because indexes were reweighted to an "average" trade value in 1985. <sup>2</sup> December 1987 = 100. <sup>3</sup> September 1985 = 100. <sup>4</sup> Excludes military and commercial aircraft. <sup>5</sup> Includes equipment. <sup>6</sup> Excludes tractors. <sup>7</sup> Includes parts. <sup>8</sup> Includes data processing equipment. <sup>9</sup> Includes sound recording and reproducing equipment.

Source: U.S. Bureau of Labor Statistics, *News*, quarterly.

**No. 783. Selected Mineral Products—Average Prices: 1975 to 1989**

[Represents average price, except as noted. Excludes Alaska and Hawaii, except as noted. See also *Historical Statistics, Colonial Times to 1970*, series M96, 139, 148, 209, 248, and 262]

MINERAL	Unit	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989, prel.
Aluminum <sup>1</sup>	Cents/lb.	39.8	61.0	71.6	76.0	76.0	77.8	81.0	81.0	81.0	72.3	110.1	87.8
Bituminous coal <sup>2,3</sup>	Dol./sh. ton	19.2	23.7	24.5	26.3	27.1	25.9	25.5	25.1	23.7	23.0	22.0	21.0
Cobalt <sup>4</sup>	Dol./lb.	4.0	24.6	25.0	14.6	8.6	5.8	10.4	11.4	7.5	6.6	7.1	7.6
Copper, electrolytic	Cents/lb.	64.2	93.3	101.3	84.2	72.8	76.5	66.8	67.0	66.1	82.5	120.5	130.9
Gold	Dol./fine oz.	161.0	308.0	613.0	460.0	376.0	424.0	361.0	318.0	368.0	448.0	438.0	382.6
Lead (NY)	Cents/lb.	21.5	52.6	42.5	36.5	25.5	21.7	25.6	19.1	22.1	35.9	37.1	39.4
Natural gas <sup>5</sup>	Dol./1,000 cu. ft.	0.5	1.2	1.6	2.0	2.5	2.6	2.7	2.5	1.9	1.7	1.7	1.7
Nickel <sup>6</sup>	Dol./lb.	2.2	3.2	3.0	2.7	2.2	2.2	2.2	2.3	1.8	2.2	6.3	6.1
Petroleum, crude <sup>2</sup>	Dol./bbl.	7.7	12.6	21.6	31.8	28.5	26.2	25.9	24.1	12.5	15.4	12.6	15.9
Platinum	Dol./troy oz.	164.0	352.0	439.0	475.0	475.0	475.0	475.0	519.0	600.0	600.0	600.0	600.0
Silver	Dol./fine oz.	4.4	11.1	20.6	10.5	8.0	11.4	8.1	6.1	5.5	7.0	6.5	5.5
Tungsten concentrate <sup>8</sup>	Dol./lb.	5.3	8.4	8.4	8.0	6.4	4.7	5.2	4.2	3.2	2.9	(NA)	(NA)
Zinc	Cents/lb.	39.0	37.3	37.4	44.6	38.5	41.4	48.6	40.4	38.0	41.9	60.2	82.1

NA Not available. <sup>1</sup> 99.5 percent primary aluminum ingot. <sup>2</sup> Average value at point of production; includes Alaska. Source: U.S. Energy Information Administration, *Annual Energy Review* and *Monthly Energy Review*. <sup>3</sup> Includes subbituminous coal and lignite. <sup>4</sup> Weighted average based on the market price quoted by a major U.S. cobalt dealer, otherwise based on range of prices. <sup>5</sup> Average value of marketed production. <sup>6</sup> 1975 and 1979, peak price quoted U.S. buyers by International Nickel Co., Inc., for electrolytic nickel, includes U.S. duty f.o.b. Port Colborne, Ontario; thereafter, from New York dealer. <sup>7</sup> Producer prices. <sup>8</sup> Average value of shipments. <sup>9</sup> Delivered price.

Source: Except as noted, U.S. Bureau of Mines, *Minerals Yearbook*.

**No. 784. Commodity Research Bureau Futures Price Index: 1975 to 1989**

[1967 = 100. Index computed daily. Represents unweighted geometric average of commodity futures prices (through 9 months forward) of 21 major commodity futures markets. Represents end of year index]

ITEM	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
All commodities	191.0	227.6	281.5	308.5	254.9	234.0	277.6	244.2	229.2	209.1	232.5	251.8	229.9
Imported	259.4	345.0	425.3	426.0	357.0	269.0	326.0	291.7	398.2	321.2	356.1	365.2	271.7
Industrial	154.8	222.1	354.8	324.6	249.2	249.9	249.0	217.0	211.7	210.4	252.5	248.2	249.6
Grains	195.6	187.8	251.9	312.1	251.3	215.1	249.6	224.9	198.5	164.6	186.1	261.9	205.7
Oilseeds	181.6	240.6	258.1	314.6	271.0	236.9	316.6	273.5	245.4	189.8	223.6	309.6	254.2
Livestock and meats	180.8	196.4	195.0	217.4	195.3	219.9	229.7	240.8	206.9	200.2	189.9	199.1	206.5
Metals (precious) <sup>1</sup>	141.0	230.4	658.0	531.4	319.7	366.0	328.5	243.3	256.6	296.6	346.4	318.7	296.9

<sup>1</sup> Prior to 1979, index for metals only.

Source: Commodity Research Bureau (CRB), New York City, NY, *CRB Commodity Index Report*, weekly. (Copyright.)

**No. 785. Food Prices—Farm Value and Retail Price for Selected Items: 1980 to 1989**

[In dollars per retail unit indicated. The farm value is the payment to farmers for the quantity of farm products equivalent to the unit sold at retail minus imputed value of byproducts. Because of losses from processing, waste, and spoilage, the farm value represents larger quantities than the retail unit]

FOOD ITEM	Unit	FARM VALUE					RETAIL PRICE				
		1980	1985	1987	1988	1989	1980	1985	1987	1988	1989
Beef, choice	Lb.	1.45	1.27	1.38	1.47	1.55	2.38	2.33	2.42	2.55	2.70
Pork	Lb.	0.63	0.71	0.83	0.69	0.70	1.40	1.62	1.88	1.83	1.83
Broilers	Lb.	0.39	0.42	0.40	0.48	0.51	0.71	0.76	0.78	0.85	0.93
Eggs, grade A	Doz.	0.51	0.51	0.46	0.46	0.65	0.84	0.80	0.78	0.79	1.00
Milk, sold in stores	1/2 gal.	0.56	0.56	0.56	0.54	0.59	1.05	1.13	1.14	1.16	1.27
Bread, white	Lb.	0.05	0.05	0.04	0.05	0.06	0.51	0.55	0.55	0.61	0.67
Potatoes, Northeast white round	10 lb.	0.62	0.37	0.62	0.50	0.77	1.80	1.60	2.40	2.28	3.06
Oranges, California	Lb.	0.05	0.12	0.10	0.12	0.11	0.36	0.53	0.55	0.56	0.56
Lettuce, California <sup>2</sup>	Lb.	0.05	0.08	0.11	0.10	0.10	0.46	0.53	0.60	0.60	0.61
Orange juice, frozen	12 oz.	0.36	0.62	0.42	0.52	0.56	0.88	1.32	1.11	1.37	1.39
Tomatoes, California <sup>3</sup>	Lb.	0.05	0.05	0.05	0.04	0.05	0.42	0.52	0.51	0.46	0.52
Sugar	Lb.	0.13	0.13	0.14	0.14	0.15	0.35	0.35	0.34	0.34	0.37
Flour, wheat	5 lb.	(NA)	(NA)	0.27	0.33	0.39	(NA)	(NA)	1.02	1.07	1.22
Cheese, natural cheddar	Lb.	(NA)	(NA)	1.10	1.08	1.20	(NA)	(NA)	3.06	3.16	3.20
Potatoes, frozen, french fried	Lb.	(NA)	(NA)	0.08	0.08	0.10	(NA)	(NA)	0.69	0.70	0.75
Peanut butter	Lb.	(NA)	(NA)	0.46	0.46	0.46	(NA)	(NA)	1.80	1.79	1.81
Shortening	3 lb.	(NA)	(NA)	0.44	0.66	0.61	(NA)	(NA)	2.33	2.56	2.79
Margarine	Lb.	(NA)	(NA)	0.12	0.19	0.17	(NA)	(NA)	0.69	0.73	0.82
Rice, long grain	Lb.	(NA)	(NA)	0.06	0.11	0.10	(NA)	(NA)	0.40	0.48	0.50

NA Not available. <sup>1</sup> Farm value includes value for wheat, lard, soybean oil, high fructose corn syrup, and soy-whey blend.

<sup>2</sup> Farm value represents value in the field. Harvesting and packing, a contract operation, appears as processing or packing cost.

<sup>3</sup> Whole canned tomatoes.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Food Cost Review*, 1988.

**No. 786. Weekly Food Cost for Families, by Type of Family: 1975 to 1990**

[In dollars. As of December, except as indicated. Based on moderate-cost food plan; assumes all meals are eaten at home or taken from home]

FAMILY TYPE	1975	1980	1983	1984	1985	1986	1987	1988	1989	1990	
										Jan.	May
Couple, 20-50 years old <sup>1</sup>	37.10	52.00	54.70	56.50	58.30	60.40	63.50	66.70	70.40	73.80	72.80
Couple, 51 years and over <sup>1</sup>	32.40	45.90	52.00	53.90	55.70	57.80	60.70	64.00	67.50	71.00	70.00
Couple <sup>2</sup> with children:											
1 child, 1-5 years old	44.90	62.90	66.90	69.20	71.30	73.90	77.50	81.60	86.40	90.50	89.50
1 child, 15-19 years old	53.50	74.80	77.80	80.50	83.00	85.80	90.10	94.80	100.60	104.90	104.00
2 children, 1-5 years old	51.80	72.60	77.80	80.50	82.90	85.80	90.00	94.90	100.60	105.20	104.20
2 children, 6-11 years old	63.00	88.10	93.50	97.10	99.80	103.30	108.30	114.10	121.00	126.20	125.40
2 children, 12-19 years old	67.20	93.80	98.00	101.60	104.60	108.20	113.50	119.40	126.60	132.30	131.20

<sup>1</sup> Prior to 1983, costs based on 1974 food plans with age groups 20-54 years old and 55 years old and over. <sup>2</sup> Couple 20-50 years old.

Source: U.S. Dept. of Agriculture, *Human Nutrition Information Service*, Adm. 329, monthly.

**No. 787. Food—Retail Prices of Selected Items: December 1985 to December 1989**

[In dollars per pound, except as indicated. As of December]

FOOD	1985	1988	1989	FOOD	1985	1988	1989
Bread, whole wheat	0.86	(NA)	(NA)	Ice cream (1/2 gal.)	2.29	2.54	2.67
Ground beef	1.28	1.40	1.50	Cheese, Cheddar	3.07	3.21	(NA)
Chuck, ground	1.68	1.79	1.88	Apples, red Delicious	0.68	0.71	0.57
Rib roast	3.37	4.03	4.21	Bananas	0.32	0.41	0.42
Round steak	2.83	3.01	3.17	Pears, Anjou	0.69	0.64	0.76
Sirloin steak, bone-in	2.98	3.23	3.46	Potatoes, white	0.17	0.30	0.31
T-bone steak	4.05	4.97	5.04	Lettuce, iceberg	0.71	0.77	0.52
Bacon, sliced	1.92	1.79	1.96	Tomatoes, field grown	0.95	0.81	0.90
Chops, center cut	2.39	2.65	2.85	Beans, green	0.95	1.00	(NA)
Ham, rump	1.36	(NA)	(NA)	Onions, yellow	0.27	0.37	0.32
Sausage	1.78	1.92	2.12	Peppers, sweet	0.96	0.80	0.92
Ham, canned	2.49	2.60	2.62	Tomatoes, canned	0.52	(NA)	(NA)
Chicken, fresh, whole	0.78	0.89	0.88	Margarine, stick	0.80	0.80	0.83
Chicken breast	1.74	2.06	2.01	Shortening	0.89	0.93	0.90
Turkey, frozen	1.03	0.97	0.95	Peanut butter	1.57	1.82	1.82
Tuna, canned	2.04	2.18	2.04	Sugar, white	0.35	0.38	0.41
Eggs, Grade A, large, (dozen)	0.91	0.83	1.14	Coffee, roasted	2.51	2.93	2.94
Milk, fresh, whole (1/2 gal.)	1.11	1.21	1.37				

NA Not available.

Source: U.S. Bureau of Labor Statistics, *CPI Detailed Report*, January issues.

**No. 788. Average Price of Energy in Selected Metropolitan Areas: 1990**

[In dollars per unit shown. As of January. One therm contains approximately 100 cubic feet of natural gas. See Appen

CITY/MSA	Utility (pipel) gas (100 therms)	Elec- tricity (500 kWh)	Fuel oil No. 2 (gallon)	GASOLINE			
				All types <sup>1</sup>	Leaded regular	Unleaded regular	Unleaded premium
U.S. city average	57.48	41.66	1.26	1.09	1.01	1.04	1.23
Baltimore, MD MSA	58.07	41.18	1.28	1.15	(NA)	1.08	1.25
Boston-Lawrence-Salem, MA-NH CMSA	76.34	45.47	1.30	1.12	(NA)	1.04	1.25
Chicago-Gary-Lake County, IL-IN-WI CMSA	49.98	50.03	1.14	1.24	(NA)	1.19	1.15
Cleveland-Akron-Lorain, OH CMSA	49.78	50.88	(NA)	1.15	(NA)	1.10	1.31
Dallas-Fort Worth, TX CMSA	55.33	39.49	(NA)	0.99	(NA)	0.95	1.11
Detroit-Ann Arbor, MI CMSA	46.79	48.29	1.15	1.06	(NA)	1.05	1.19
Houston-Galveston-Brazoria, TX CMSA	47.23	40.93	(NA)	1.03	(NA)	0.97	1.17
Los Angeles-Anaheim-Riverside, CA CMSA	56.02	52.53	(NA)	0.96	0.91	0.93	1.15
Miami-Fort Lauderdale, FL CMSA	68.84	44.34	(NA)	1.07	(NA)	1.00	1.17
New York-No. N. J.-Long Island, NY-NJ-CT CMSA	70.93	61.24	1.34	1.12	(NA)	1.04	1.25
Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA	70.18	57.47	1.31	1.11	(NA)	1.00	1.24
Pittsburgh-Beaver Valley, PA CMSA	63.16	46.72	1.03	1.02	(NA)	0.99	1.18
St. Louis-East St. Louis, MO-IL CMSA	52.30	39.49	1.14	1.03	1.00	0.98	1.25
San Francisco-Oakland-San Jose, CA CMSA	56.06	54.75	(NA)	1.05	0.94	1.05	1.17
Washington, DC-MD-VA MSA	74.20	35.99	1.18	1.23	(NA)	1.15	1.42

NA Not available. <sup>1</sup> Includes types of gasoline not shown separately.

Source: U.S. Bureau of Labor Statistics, *CPI Detailed Report*, January issues.

### No. 789. Average Monthly Residential, Commercial, and Industrial Bills for Electricity: 1980 to 1988

[In dollars. As of January 1. Represents composite averages, derived using census data; for 1980 data, the 1970 census was used; thereafter, 1980 Census was used. Residential, for cities of 2,500 or more population; commercial and industrial, for 455 large cities in United States and Puerto Rico. kW=Kilowatts; kWh=Kilowatt-hours. Beginning in 1988, commercial and industrial national average data are no longer available by demand level. See source for coverage detail]

ITEM	1980	1985	1987	1988, prel.	ITEM	1980	1985	1987	1988, prel.
<b>RESIDENTIAL</b>					<b>INDUSTRIAL</b>				
Average bill, dollars:					Average bill, cents per kWh:				
500 kWh.....	27.80	41.86	40.88	41.21	6 kW, 750 kWh.....	7.5	10.7	10.1	(NA)
750 kWh.....	36.94	57.86	56.78	57.39	12 kW, 1,500 kWh.....	7.6	10.9	10.4	(NA)
1,000 kWh.....	48.79	76.37	74.57	74.15	30 kW, 6,000 kWh.....	6.4	9.6	8.8	(NA)
Average bill, cents per kWh:					40 kW, 10,000 kWh.....	5.9	8.9	8.2	(NA)
500 kWh.....	5.6	8.4	8.2	8.2	<b>INDUSTRIAL</b>				
750 kWh.....	4.9	7.7	7.6	7.7	Average bill, dollars:				
1,000 kWh.....	4.9	7.6	7.5	7.4	150 kW, 30,000 kWh.....	1,757	2,732	2,572	(NA)
<b>COMMERCIAL</b>					300 kW, 60,000 kWh.....	3,431	5,353	5,046	(NA)
Average bill, dollars:					1,000 kW, 200,000 kWh.....	10,910	17,012	16,226	(NA)
6 kW, 750 kWh.....	57	80	76	(NA)	Average bill, cents per kWh:				
12 kW, 1,500 kWh.....	114	163	155	(NA)	150 kW, 30,000 kWh.....	5.9	9.1	8.6	(NA)
30 kW, 6,000 kWh.....	385	576	530	(NA)	300 kW, 60,000 kWh.....	5.7	8.9	8.4	(NA)
40 kW, 10,000 kWh.....	590	893	820	(NA)	1,000 kW, 200,000 kWh.....	5.5	8.5	8.1	(NA)

NA Not available.

### No. 790. Net Monthly Residential Electric Bills (Lowest and Highest) for 500 Kilowatt-Hours Use, 1970 to 1988, and by State, 1988

[In dollars. Based on rates as of January 1 for communities of 2,500 inhabitants or more. Consumption for lighting, appliances, refrigeration and cooking. Does not include domestic water heating usage which in 1983 represented 19 percent of total U.S. households. For composition of regions, see fig. 1, inside front cover]

YEAR, REGION, DIVISION, AND STATE	Lowest bill	Highest bill	YEAR, REGION, DIVISION, AND STATE	Lowest bill	Highest bill	YEAR, REGION, DIVISION, AND STATE	Lowest bill	Highest bill
1970.....	5.00	25.00	OH.....	22.81	52.63	KY.....	21.78	40.86
1975.....	5.10	41.14	IN.....	26.93	53.42	TN.....	25.97	32.56
1980.....	5.84	64.47	IL.....	26.56	46.35	AL.....	26.62	36.89
1985.....	9.49	77.88	MI.....	20.50	56.39	MS.....	26.27	49.32
1986.....	8.90	79.37	WI.....	21.10	35.85	W. So. Cent.:		
1987.....	8.90	64.60	W. No. Cent.:			AR.....	22.33	51.25
1988, U.S.....	8.90	62.87	IA.....	14.95	44.53	LA.....	22.72	56.39
Region:			MO.....	21.50	46.32	OK.....	25.69	46.40
Northeast.....	10.68	62.35	ND.....	18.23	50.49	TX.....	19.44	51.54
Midwest.....	14.95	57.60	SD.....	22.50	40.18	Mt.:		
South.....	18.00	56.39	NE.....	16.75	51.81	MT.....	20.50	37.86
West.....	8.90	62.87	KS.....	23.30	41.89	ID.....	20.35	29.57
N. Eng.:			WV.....	24.86	57.60	WY.....	21.50	47.69
ME.....	34.15	47.93	So. Atl.:			CO.....	17.00	44.25
NH.....	36.97	55.96	DE.....	40.99	48.35	NM.....	25.58	54.15
VT.....	27.45	56.50	MD.....	31.93	48.21	AZ.....	30.94	58.96
MA.....	25.45	61.39	DC.....	25.97	25.97	UT.....	23.80	44.79
RI.....	42.73	50.68	VA.....	27.62	40.25	NV.....	22.00	50.28
CT.....	36.22	54.76	WV.....	28.06	42.06	Pac.:		
Mid. Atl.:			NC.....	33.80	51.05	WA.....	8.90	29.80
NY.....	10.68	62.35	SC.....	29.79	47.05	OR.....	15.83	29.00
NJ.....	43.49	55.23	GA.....	16.00	46.44	CA.....	23.70	58.45
PA.....	18.00	57.54	FL.....	27.30	54.01	AK.....	36.00	56.53
E. No. Cent.:			E. So. Cent.:			HI.....	45.11	62.87

Source of tables 789 and 790: Through 1975, U.S. Federal Power Commission, *Typical Electric Bills*, annual; thereafter, U.S. Energy Information Administration, *Typical Electric Bills*, annual.

### No. 791. Average Prices of Selected Fuels and Electricity: 1973 to 1988

[In dollars per unit, except electricity, in cents per kWh. Represents price to end-users, except as noted]

ITEM	Unit <sup>1</sup>	1973	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Crude oil, composite <sup>2</sup> .....	Barrel.....	4.15	10.38	17.72	28.07	35.24	31.87	28.99	28.63	26.75	14.55	17.90	14.71
Motor gasoline:													
Leaded regular.....	Gallon.....	0.39	0.57	0.86	1.19	1.31	1.22	1.16	1.13	1.12	0.86	0.90	0.90
Unleaded regular.....	Gallon.....	(NA)	(NA)	0.90	1.25	1.38	1.30	1.24	1.21	1.20	0.93	0.95	0.95
Unleaded premium.....	Gallon.....	(NA)	(NA)	(NA)	(NA)	1.47	1.42	1.38	1.37	1.34	1.09	1.09	1.11
No. 2 heating oil.....	Gallon.....	(NA)	(NA)	0.52	0.79	0.91	0.91	0.92	0.92	0.85	0.56	0.58	0.54
No. 2 diesel fuel.....	Gallon.....	(NA)	(NA)	0.59	0.82	1.00	0.94	0.83	0.82	0.79	0.48	0.55	0.50
Residual fuel oil.....	Gallon.....	(NA)	(NA)	0.44	0.61	0.76	0.68	0.65	0.69	0.61	0.34	0.42	0.33
Natural gas, residential.....	1,000 cu. ft.....	1.29	1.71	2.98	3.68	4.29	5.17	6.06	6.12	6.12	5.83	5.54	5.49
Electricity, residential.....	kWh.....	2.54	3.51	4.64	5.36	6.20	6.86	7.18	7.54	7.79	7.41	7.41	7.49

NA Not available. <sup>1</sup> See headnote. <sup>2</sup> Refiner acquisition cost. <sup>3</sup> Average, all service.

Source: U.S. Energy Information Administration, *Monthly Energy Review*, April 1989.

# No. 792. Refiner/Reseller Sales Price of Motor Gasoline, by Grade and State: 1988 to 1990

[In cents per gallon. As of March. Represents all refinery and gas plant operators' sales through company-operated retail outlets. Gasoline prices exclude excise taxes]

STATE	Gasoline excise taxes, 1988 <sup>1</sup>	AVERAGE, ALL GRADES			LEADED REGULAR			UNLEADED REGULAR			PREMIUM		
		1988	1989	1990	1988	1989	1990	1988	1989	1990	1988	1989	1990
United States . . . . .	(NA)	64.0	70.5	76.8	59.6	66.7	74.5	61.7	66.9	72.5	74.7	81.7	88.8
Alabama . . . . .	11	62.9	69.6	83.3	58.9	66.4	79.2	62.0	66.8	77.9	71.4	78.8	95.9
Alaska . . . . .	8	(NA)	94.3	101.0	(NA)	98.1	107.3	(NA)	92.5	98.1	96.0	(D)	106.5
Arizona . . . . .	17	63.2	70.4	80.4	59.9	65.6	76.8	61.5	68.8	79.2	76.8	85.5	91.2
Arkansas . . . . .	14	62.2	65.4	75.8	57.9	63.0	75.9	60.9	63.3	72.2	72.0	74.1	88.4
California . . . . .	9	65.5	73.2	77.9	60.4	67.8	72.5	63.6	71.0	75.2	77.5	84.6	90.2
Colorado . . . . .	20	60.2	69.5	69.7	57.6	65.7	68.3	59.8	68.9	67.4	69.4	78.1	79.6
Connecticut . . . . .	22	72.0	82.8	82.8	64.6	74.8	(D)	69.3	78.3	75.1	81.2	92.3	96.4
Delaware . . . . .	16	62.3	73.0	81.0	59.5	68.9	(NA)	58.6	67.1	74.4	72.0	85.1	94.9
District of Columbia . . . . .	18	(D)	(D)	(D)	(D)	(D)	(NA)	(D)	(D)	(D)	(D)	(D)	(D)
Florida . . . . .	4	65.9	73.4	81.2	61.5	67.1	79	62.5	68.2	75.8	74.9	81.8	91.1
Georgia . . . . .	8	61.2	68.5	74.6	54.3	61.7	80.2	57.7	63.4	68.9	73.5	79.4	86.2
Hawaii . . . . .	22	87.4	87.8	96.9	79.5	82.5	(NA)	84.6	83.4	90.3	99.3	100.9	109.9
Idaho . . . . .	19	64.9	68.5	72.2	64.0	67.9	71.5	64.2	67.7	71.3	77.5	77.7	81.4
Illinois . . . . .	19	64.1	69.2	73.2	61.2	68.6	77.6	61.0	65.5	69.5	75.5	79.8	83.9
Indiana . . . . .	15	61.2	66.8	75.4	60.8	69.0	84.6	59.1	63.8	71.6	66.6	77.7	85.7
Iowa . . . . .	20	62.3	67.9	75.9	61.2	68.4	77.0	61.9	66.9	74.6	69.7	77.5	84.6
Kansas . . . . .	16	63.6	66.2	73.0	62.3	66.8	73.4	63.2	64.5	71.4	71.3	74.1	82.6
Kentucky . . . . .	15	62.9	70.6	76.6	59.5	67.6	77.1	60.7	67.0	72.2	71.8	82.7	89.6
Louisiana . . . . .	20	60.6	70.0	76.2	54.8	66.0	76.4	57.4	66.7	71.34	70.9	78.8	86.0
Maine . . . . .	17	71.2	80.0	85.8	67.8	76.9	(D)	69.3	76.1	81.6	81.2	91.4	99.0
Maryland . . . . .	19	68.5	74.7	84.5	64.1	69.2	(D)	65.9	70.2	78.8	75.7	85.3	95.1
Massachusetts . . . . .	17	74.5	79.8	82.8	65.0	73.1	(D)	70.4	74.0	75.9	83.7	90.1	96.5
Michigan . . . . .	15	60.2	66.9	72.7	59.8	70.8	75.5	58.2	63.7	69.6	68.5	77.9	83.6
Minnesota . . . . .	20	64.8	69.5	77.9	63.6	69.5	79.1	64.4	67.7	76.0	70.4	78.2	87.2
Mississippi . . . . .	18	65.2	74.7	78.0	59.6	69.6	77.5	64.3	69.5	73.0	73.8	86.1	91.9
Missouri . . . . .	11	61.7	66.0	71.8	58.3	65.5	73.2	60.2	63.2	67.8	71.9	76.6	83.6
Montana . . . . .	20	64.8	69.2	79.5	64.4	68.7	78.6	64.9	68.4	78.2	66.1	73.4	85.7
Nebraska . . . . .	22	62.1	70.3	73.7	61.3	70.1	73.3	62.1	70.2	72.9	65.6	73.0	81.1
Nevada . . . . .	16	59.4	67.5	74.3	55.9	63.8	69.4	58.7	65.7	72.8	69.9	80.1	87.6
New Hampshire . . . . .	16	74.5	78.4	84.9	68.2	76.1	(D)	71.0	73.9	79.1	86.4	88.0	97.0
New Jersey . . . . .	11	71.7	79.1	80.3	63.7	69.9	(D)	66.1	71.3	72.3	82.9	90.6	90.4
New Mexico . . . . .	16	66.7	73.4	78.6	64.8	71.4	78.1	66.4	73.2	77.3	76.5	82.0	88.6
New York . . . . .	8	69.7	75.5	78.8	65.5	70.5	77.7	66.1	70.4	73.0	80.0	87.7	92.1
North Carolina . . . . .	22	63.2	69.4	76.3	56.3	63.2	70.8	60.9	65.1	70.5	73.7	80.8	88.9
North Dakota . . . . .	17	66.8	72.5	85.3	66.6	72.1	86.9	66.8	72.2	84.4	70.0	79.0	93.1
Ohio . . . . .	20	62.6	71.7	75.0	58.2	71.0	79.2	59.6	67.2	70.5	76.1	86.3	90.1
Oklahoma . . . . .	16	60.2	66.2	72.8	57.6	66.0	74.4	59.5	64.7	70.8	67.7	72.7	80.0
Oregon . . . . .	18	64.3	71.5	78.7	61.5	68.5	75.7	63.8	70.9	77.6	77.0	84.6	91.8
Pennsylvania . . . . .	12	63.5	70.7	77.3	59.4	67.7	79.8	58.3	64.3	70.7	75.7	83.6	90.2
Rhode Island . . . . .	20	69.5	77.3	81.8	62.5	74.2	(NA)	65.4	71.7	75.3	79.8	86.4	94.1
South Carolina . . . . .	16	63.6	69.1	78.7	57.3	64.4	77.7	61.7	65.5	73.0	75.4	82.4	93.9
South Dakota . . . . .	18	62.8	70.5	83.1	63.0	70.2	82.4	62.6	70.4	82.3	69.3	79.8	90.6
Tennessee . . . . .	20	60.3	68.3	73.8	54.7	63.0	70.7	58.0	63.8	67.6	72.4	80.8	87.8
Texas . . . . .	15	63.0	67.9	76.5	57.7	64.3	76.7	61.2	64.2	72.3	73.3	77.6	86.7
Utah . . . . .	19	63.9	66.7	71.1	61.9	64.2	69.5	63.5	66.0	69.4	71.7	73.2	79.1
Vermont . . . . .	15	76.4	80.6	88.8	70.9	75.1	96.3	73.5	76.5	84.2	87.4	91.1	100.4
Virginia . . . . .	18	68.1	74.5	80.4	61.3	65.6	75.0	66.0	69.3	74.3	77.3	84.7	91.6
Washington . . . . .	22	65.0	66.7	73.6	61.4	62.6	69.5	63.5	64.9	71.6	75.9	79.1	86.3
West Virginia . . . . .	16	69.9	75.1	81.0	65.6	71.4	(D)	67.3	69.9	74.5	79.8	88.1	97.0
Wisconsin . . . . .	22	60.3	67.5	73.0	59.8	68.2	79.2	58.7	65.2	69.9	68.0	75.2	84.2
Wyoming . . . . .	9	64.7	70.6	78.9	63.2	69.7	77.8	65.2	69.7	77.7	71.4	77.7	86.6

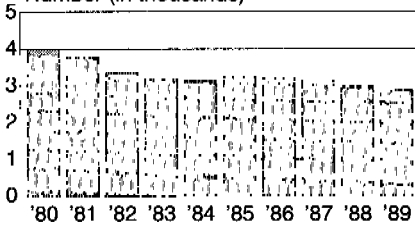
D Withheld to avoid disclosure of individual company data. NA Not available. <sup>1</sup> Source: U.S. Advisory Commission on Intergovernmental Relations, *Significant Features of Fiscal Federalism*, 1991 Edition, Vol. I, based on CCH, *State Tax Reporter*.

Source: Except as noted, U.S. Energy Information Administration, *Petroleum Marketing Monthly*, March 1990.

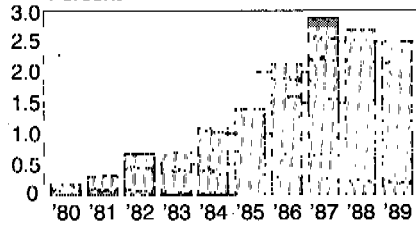
Figure 16.1

**SAIF<sup>1</sup>—Insured Savings Institutions: 1980 to 1989****Institutions**

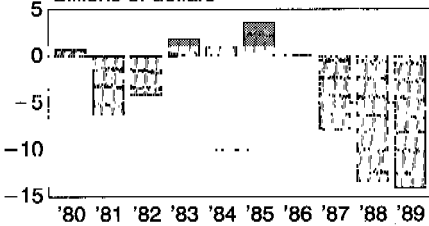
Number (in thousands)

**Mortgage Loans Foreclosed<sup>2</sup>**

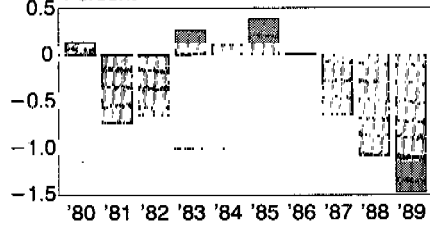
Percent

**Net Income After Taxes**

Billions of dollars

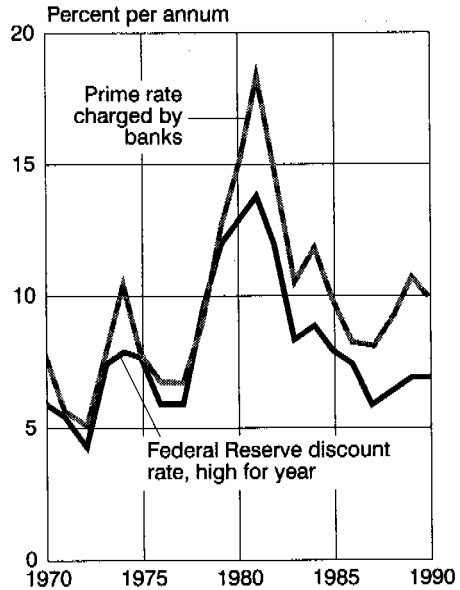
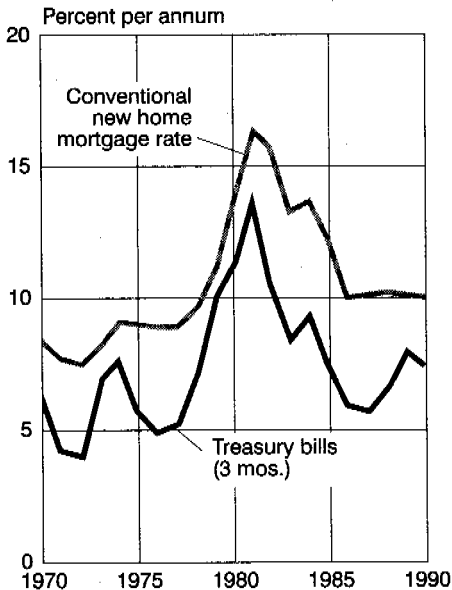
**Return on Assets<sup>3</sup>**

Percent

<sup>1</sup>Savings Association Insurance Fund. <sup>2</sup>Based on amount of mortgages foreclosed.<sup>3</sup>Net after-taxes income to average assets.

Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 816, 819, and 820.

Figure 16.2

**Interest Rates: 1970 to 1990**

Source: Chart prepared by U.S. Bureau of the Census. For data, see table 837.





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## Section 16

# Banking, Finance, and Insurance

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This section presents data on the Nation's finances, various types of financial institutions, money and credit, securities, and insurance. The primary sources of these data are publications of several departments of the Federal Government, especially the Treasury Department, and independent agencies such as the Federal Deposit Insurance Corporation, the Federal Reserve System, and the Securities and Exchange Commission. National data on insurance are available primarily from private organizations, such as the American Council of Life Insurance.

**Flow of funds.**—The flow of funds accounts of the Federal Reserve System (see tables 796 to 800) bring together statistics on all of the major forms of financial transactions and financial claims to present an economy-wide view of asset and liability relationships. In flow form, the accounts relate borrowing and lending to one another and to the nonfinancial activities that generate income and production. Each claim outstanding is included simultaneously as an asset of the lender and as a liability of the debtor. The accounts also indicate the balance between asset totals and liability totals over the economy as a whole. Several publications of the Board of Governors of the Federal Reserve System contain information on the flow of funds accounts: Summary data on flows and outstandings, in the *Federal Reserve Bulletin*, *Flow of Funds Accounts* (quarterly), and *Annual Statistical Digest*; and concepts and organization of the accounts, in *Introduction to Flow of Funds* (June 1980).

**Banking system.**—Banks in this country are organized under the laws of both the States and the Federal Government and are regulated by several bank supervisory agencies. State-chartered banks are supervised by officials of the respective States. National banks are supervised by the Comptroller of the Currency. *Reports of Condition* have been collected from national banks since 1863. Summaries of these reports are published in the Comptroller's *Annual Report*, which also presents data on the structure of the national banking system.

The Federal Reserve System was established in 1913 to exercise central banking functions, some of which are shared with the U.S. Treasury. It includes national banks and such State banks as voluntarily join the System. Statements of State bank members are consolidated by the Board of Governors of the Federal Reserve System with data for national banks collected by the Comptroller of the Currency into totals for all member banks of the System. Balance sheet data for member banks and other commercial banks are published quarterly in the *Federal Reserve Bulletin*.

The Federal Deposit Insurance Corporation (FDIC), established in 1933, insures each depositor up to \$100,000 currently in banks that are members of the Federal Reserve System and in such nonmember banks as join the Bank Insurance Fund. Major item balance sheets for all commercial banks are published monthly in the *Federal Reserve Bulletin*.

**Savings institutions.**—Savings institutions are primarily involved in credit extension in the form of mortgage loans. Statistics on savings institutions are collected by the U.S. Office of Thrift Supervision. The Financial Institutions Reform, Recovery, and Enforcement Act of 1989 (FIRREA) authorized the establishment of the Resolution Trust Corporation (RTC). The RTC is responsible for the disposal of assets from failed savings institutions. Under FIRREA, the FDIC Board of Directors acts as the RTC Board. FIRREA also gave the FDIC the job of managing the federal deposit insurance fund for savings institutions (SAIF=Savings Association Insurance Fund).

**Other credit agencies.**—Insurance companies, finance companies dealing primarily in installment sales financing, credit unions, and personal loan companies represent important sources of funds for the credit market. Statistics on loans, investments, cash, etc., of life insurance companies are published principally by the American Council of Life Insurance in its *Life Insurance Fact Book*. Consumer credit data are published currently in the *Federal Reserve Bulletin*.

Federally chartered credit unions are under the supervision of the National Credit Union Administration, established in 1970. State-chartered credit unions are supervised by the respective State supervisory authorities. The Administration publishes comprehensive program

and statistical information on all Federal and federally insured State credit unions in the *Annual Report of the National Credit Union Administration*. Deposit insurance (up to \$100,000 per account) is provided to members of all Federal and those State credit unions that are federally-insured by the National Credit Union Share Insurance Fund which was established in 1970. Deposit insurance for State chartered credit unions is also available in some States under private or State-administered insurance programs.

Government corporations and credit agencies make available credit of specified types or to specified groups of private borrowers, either by lending directly or by insuring or guaranteeing loans made by private lending institutions. Data on operations of Government credit agencies, along with other Government corporations, are available in reports of individual agencies; data on their debt outstanding are published in the *Federal Reserve Bulletin*.

**Currency.**—Currency, including coin and paper money, represents more than one-fourth of all media of exchange in the United States, with most payments made by check. All currency is now issued by the Federal Reserve Banks.

**Securities.**—The Securities and Exchange Commission (SEC) was established in 1934 to protect the interests of the public and investors against malpractices in the securities and financial markets and to provide the fullest possible disclosure of information regarding securities to the investing public. Statistical data are published in the *SEC Annual Report*.

**Insurance.**—Insuring companies, which are regulated by the various States or the District of Columbia, are classified as either life or property. Companies that underwrite accident and health insurance only and those that underwrite accident and health insurance in addition to one or more property lines are included with property insurance. Insuring companies, other than those classified as life, are permitted to underwrite one or more property lines provided they are so licensed and have the necessary capital or surplus.

There are a number of published sources for statistics on the various classes of insurance—life, health, fire, marine, and casualty. Individual States collect data on all insurers operating within their respective jurisdictions, and many of the States publish an annual insurance report giving individual company data and aggregates of certain items for the companies operating within the State. Organizations representing certain classes of insurers publish reports for these classes. Among them are the annual commercial publishers, such as The National Underwriter Company whose *Argus Health Chart* (annual) contains financial and operating data for individual health and accident insurance companies, including Blue Cross and Blue Shield Plans. The American Council of Life Insurance publishes statistics on life insurance purchases, ownership, benefit payments, and assets in its biennial *Life Insurance Fact Book*.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

### No. 793. Gross National Product in Finance, Insurance, and Real Estate in Current and Constant (1982) Dollars: 1980 to 1988

(In billions of dollars, except percent. For definition of gross national product, see text, section 14. Based on 1972 Standard Industrial Classification)

INDUSTRY	1980	1981	1982	1983	1984	1985	1986	1987	1988
<b>CURRENT DOLLARS</b>									
Finance, insurance, real estate, total . . .	400.6	449.3	475.1	536.4	572.8	639.5	696.3	764.9	830.3
Percent of gross national product . . .	14.7	14.7	15.0	15.7	15.2	15.9	16.5	16.9	17.0
Banking . . .	51.1	54.4	59.8	68.1	70.6	79.4	80.3	86.4	99.2
Credit agencies other than banks . . .	5.5	6.5	5.4	10.6	9.8	11.6	15.7	20.1	21.3
Security and commodity brokers, and services . . .	9.7	11.4	13.1	20.7	19.7	24.1	30.1	35.7	40.3
Insurance carriers . . .	37.0	34.7	29.8	36.5	34.9	40.7	49.5	61.3	68.0
Insurance agents and brokers, and services . . .	14.4	15.5	17.0	17.6	20.1	22.4	25.6	29.0	32.2
Real estate . . .	281.5	318.7	342.7	374.2	409.1	449.0	478.6	518.3	554.6
Holding and other investment companies . . .	1.3	8.1	7.2	8.7	8.5	12.3	16.4	14.1	14.7
<b>CONSTANT (1982) DOLLARS</b>									
Finance, insurance, real estate, total . . .	468.9	476.1	475.1	492.9	509.8	528.3	535.8	564.7	583.7
Percent of gross national product . . .	14.7	14.7	15.0	15.0	14.6	14.6	14.4	14.7	14.5
Banking . . .	56.7	58.8	59.8	60.1	60.6	61.5	62.5	62.8	62.4
Credit agencies other than banks . . .	5.2	5.4	5.4	6.0	6.6	7.0	7.8	8.3	8.4
Security and commodity brokers, and services . . .	11.2	12.7	13.1	18.6	17.0	18.8	23.1	29.9	33.6
Insurance carriers . . .	38.7	35.4	29.8	33.2	35.9	39.5	36.0	38.8	41.1
Insurance agents and brokers, and services . . .	15.9	16.3	17.0	18.3	17.5	18.0	17.8	18.7	18.8
Real estate . . .	335.0	340.9	342.7	351.4	364.1	374.5	378.6	395.3	408.0
Holding and other investment companies . . .	6.3	6.5	7.2	7.4	8.2	9.0	9.8	10.9	11.5

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, January 1991.

### No. 794. Persons Working in Finance, Insurance, and Real Estate Industries: 1970 to 1989

[In thousands. Data represent worker-years of full-time equivalent employment by persons working for wages or salaries and number of active partners and proprietors of unincorporated businesses who devote a majority of their working hours to their unincorporated businesses. Based on 1972 Standard Industrial Classification]

INDUSTRY	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>Finance, insurance, real estate, total</b>	<b>3,749</b>	<b>5,481</b>	<b>5,725</b>	<b>5,909</b>	<b>6,143</b>	<b>6,363</b>	<b>6,666</b>	<b>6,960</b>	<b>7,082</b>	<b>7,123</b>
Average annual percent change <sup>1</sup>	3.1	3.9	2.2	3.2	3.9	3.7	4.8	4.4	1.8	0.6
Banking	1,010	1,497	1,580	1,586	1,601	1,625	1,651	1,658	1,649	1,665
Credit agencies other than banks	350	546	564	620	686	734	809	866	870	866
Security and commodity brokers, and services	219	259	317	360	390	409	451	516	507	492
Insurance carriers	986	1,225	1,236	1,236	1,255	1,276	1,347	1,391	1,416	1,432
Insurance agents and brokers, and services	355	553	623	628	655	685	719	744	780	791
Real estate	777	1,286	1,273	1,344	1,408	1,469	1,509	1,586	1,651	1,667
Holding and other investment companies	52	115	132	135	148	165	180	199	209	210

<sup>1</sup> For explanation of average annual percent change, see Guide to Tabular Presentation. For 1970, change from 1960.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

### No. 795. Finance, Insurance, and Real Estate—Establishments, Employees, and Payroll: 1987 and 1988

[Covers establishments with payroll. Excludes government employees, railroad employees, self-employed persons, etc. For statement on methodology, see Appendix III]

1987 SIC code <sup>1</sup>	KIND OF BUSINESS	ESTABLISHMENTS (1,000)						Em- ploy- ees, 1988 (1,000)	Payroll, 1988 (bil. dol.)
		1987	1988						
			Total	1-4 employ- ees	5-19 employ- ees	20-99 employ- ees	100 or more employ- ees		
(H)	<b>Finance, insurance, real estate</b>	<b>535.7</b>	<b>518.2</b>	<b>313.3</b>	<b>149.5</b>	<b>46.4</b>	<b>8.9</b>	<b>6,659.6</b>	<b>177.2</b>
60	Depository institutions <sup>2</sup>	77.8	76.3	13.3	44.5	15.8	2.7	1,959.8	42.9
601	Central reserve depository	(NA)	0.1	(Z)	(Z)	(Z)	(Z)	25.6	0.7
602	Commercial banks	(NA)	49.6	5.5	29.8	12.4	1.9	1,454.6	32.1
603	Savings institutions	(NA)	20.2	4.0	12.8	2.7	0.6	383.7	7.7
606	Credit unions	(NA)	3.6	2.3	0.9	0.3	0.1	44.9	0.8
609	Functions closely related to banking	(NA)	2.6	1.4	0.9	0.2	0.1	37.9	1.0
61	Nondepository institutions <sup>2</sup>	42.6	43.6	23.6	14.9	4.4	0.7	542.2	13.8
611	Federal and Federally-sponsored credit	(NA)	2.8	0.5	1.0	1.1	0.2	88.7	2.1
614	Personal credit institutions	(NA)	25.6	15.0	8.7	1.7	0.2	212.8	4.6
615	Business credit institutions	(NA)	3.6	1.9	1.2	0.4	0.1	86.2	2.7
616	Mortgage bankers and brokers	(NA)	11.3	5.9	4.0	1.1	0.3	153.3	4.4
62	Security and commodity brokers <sup>2</sup>	22.4	21.6	12.4	5.6	3.0	0.6	426.6	27.5
621	Security brokers and dealers	(NA)	13.3	6.5	3.9	2.5	0.5	332.7	22.6
622	Commodity contracts brokers, dealers	(NA)	1.2	0.8	0.3	0.1	(Z)	15.3	0.7
623	Security and commodity exchanges	(NA)	0.1	0.1	(Z)	(Z)	(Z)	7.5	0.3
628	Security and commodity services	(NA)	6.3	4.6	1.3	0.4	0.1	69.6	3.8
63	Insurance carriers <sup>2</sup>	41.1	39.9	19.1	11.8	7.0	2.1	1,326.5	35.4
631	Life insurance	(NA)	14.4	4.2	5.7	3.9	0.6	538.3	13.7
632	Medical service and health insurance <sup>2</sup>	(NA)	2.1	0.8	0.7	0.4	0.2	173.8	4.3
6321	Accident and health insurance	(NA)	1.2	0.6	0.4	0.1	0.1	44.0	1.0
6324	Hospital and medical service plans	(NA)	0.9	0.3	0.3	0.2	0.2	128.6	3.2
633	Fire, marine, and casualty insurance	(NA)	16.2	10.5	2.9	1.7	1.1	518.1	14.9
635	Surety insurance	(NA)	0.5	0.2	0.2	0.1	(Z)	10.4	0.3
636	Title insurance	(NA)	3.0	1.0	1.3	0.6	0.1	54.2	1.4
637	Pension, health and welfare funds	(NA)	2.6	1.7	0.7	0.2	(Z)	17.3	0.4
64	Insurance agents, brokers, and service	109.3	105.1	75.5	24.4	4.6	0.6	686.0	18.0
65	Real estate <sup>2</sup>	216.6	208.0	154.3	43.0	9.3	1.4	1,286.6	25.4
651	Real estate operators and lessors	(NA)	93.7	71.0	19.0	3.4	0.4	483.8	7.8
653	Real estate agents and managers	(NA)	82.9	60.8	16.8	4.4	0.8	616.4	13.5
654	Title abstract offices	(NA)	3.1	1.7	1.2	0.2	(Z)	25.0	0.5
655	Subdividers and developers <sup>2</sup>	(NA)	18.6	13.0	4.4	1.1	0.1	124.4	2.9
6552	Subdividers and developers, n.e.c. <sup>3</sup>	(NA)	10.6	7.4	2.5	0.6	0.1	78.1	1.9
6553	Cemetery subdividers and developers	(NA)	4.6	2.7	1.4	0.4	(Z)	35.3	0.6
67	Holding and other investment offices <sup>2</sup>	23.7	21.5	14.5	4.8	1.8	0.4	239.6	8.6
671	Holding offices	(NA)	5.6	2.9	1.5	0.9	0.2	116.6	4.9
673	Trusts	(NA)	7.8	5.6	1.6	0.5	0.1	58.4	1.2
6732	Educational, religious, etc. trusts	(NA)	3.3	2.2	0.8	0.3	(Z)	30.7	0.6
679	Miscellaneous investing	(NA)	6.7	5.0	1.3	0.3	0.1	52.5	1.7
6794	Patent owners and lessors	(NA)	0.8	0.5	0.3	0.1	(Z)	15.3	0.4
	Administrative and auxiliary	2.2	2.2	0.6	0.7	0.6	0.4	192.4	5.6

NA Not available. <sup>2</sup> Less than 50. <sup>1</sup> Standard Industrial Classification; see text, section 13. <sup>2</sup> Includes industries not shown separately. <sup>3</sup> N.e.c.: Not elsewhere classified.

Source: U.S. Bureau of the Census, *County Business Patterns, 1988*.

# No. 796. Flow of Funds Accounts—Financial Assets and Liabilities of Financial and Nonfinancial Institutions, by Sector and Type of Instrument: 1989

[In billions of dollars. As of Dec. 31. Preliminary. A=Assets; L=Liabilities; SDR=Special drawing rights. IMF=International Monetary Fund. RPs=Repurchase Agreements. "N.a.c."=Not elsewhere classified]

TYPE OF INSTRUMENT	ALL SECTORS, TOTAL		PRIVATE DOMESTIC NONFINANCIAL INSTITUTIONS						U.S. GOVERNMENT		FINANCIAL INSTITUTIONS											
	A	L	Total		Households <sup>2</sup>		Business		State and local govts.		A	L	Total		Monetary authority		Commercial banking		Nonbank finance		Federally sponsored credit agencies and mortgage pools	
			A	L	A	L	A	L	A	L			A	L	A	L	A	L	A	L	A	L
Total	30,797	24,089	16,689	8,842	13,770	3,561	2,377	4,652	541	630	324	2,555	12,243	11,927	316	316	3,215	3,100	7,381	7,188	1,332	1,324
Gold stock and SDR's	21	9	-	-	-	-	-	-	-	-	10	-	11	-	-	-	-	-	-	-	-	-
IMF position	9	45	-	-	-	-	-	-	-	-	13	-	32	-	-	-	-	-	-	-	-	-
Official foreign exchange	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Treasury currency, SDR certificates	28	24	-	-	-	-	-	-	-	-	24	-	28	889	239	-	3	556	71	93	3	-
Checkable deposits, currency	856	889	731	-	498	-	212	-	20	-	26	-	77	2,881	-	-	1,616	-	163	1,264	-	-
Time and savings accounts	2,881	2,881	2,673	-	2,413	-	205	-	55	-	1	-	163	2,881	-	-	274	-	121	141	64	-
Fed. funds and security RPs	372	415	168	-	372	-	73	-	95	-	-	-	186	415	2	-	-	-	28	428	-	-
Money market fund shares	428	428	400	-	372	-	28	-	-	-	-	-	28	428	-	-	-	-	26	-	-	-
Foreign deposits	45	45	19	-	-	-	19	-	-	-	-	-	26	-	-	-	-	-	342	-	-	-
Life insurance reserves	354	354	354	-	354	-	-	-	-	-	11	-	342	-	-	-	-	-	2,713	-	-	-
Pension fund reserves	2,842	2,842	2,842	-	2,842	-	-	-	-	-	229	-	66	2,713	1	64	58	-36	7	552	-	-
Interbank claims	52	28	-	-	-	-	-	-	-	-	-	-	71	-	-	-	-	-	1,434	-	-	-
Mutual fund shares <sup>3</sup>	552	552	481	-	483	-	18	-	-	-	-	-	1,434	-	-	-	-	-	508	853	1,243	1,254
Other corporate equities <sup>4</sup>	3,831	3,831	2,140	-	2,140	-	-	-	-	-	206	2,268	9,180	2,327	233	-	2,648	220	5,058	853	10	-
Credit market instruments <sup>5</sup>	12,393	12,393	2,304	-	3,442	-	249	-	327	598	-	-	8,180	969	227	-	175	-	558	-	-	-
U.S. Treasury securities <sup>6</sup>	2,245	2,245	607	-	607	-	85	-	205	-	22	2,245	969	891	6	-	227	-	851	-	6	-
Federal agency securities <sup>7</sup>	1,271	1,271	330	-	326	-	1	-	2	-	-	-	466	1,249	6	-	134	-	332	-	-	-
Tax-exempt securities	785	785	319	-	296	-	81	-	9	598	-	-	-	-	-	-	-	-	-	-	-	-
Corporate and foreign bonds	1,570	1,570	148	-	148	-	-	-	993	-	-	-	1,226	483	-	-	87	-	1,139	-	-	-
Mortgages	3,520	3,520	356	-	356	-	58	-	1,106	107	48	-	3,115	3	-	-	757	-	1,319	-	3	1,039
Consumer credit	791	791	42	-	191	-	791	-	42	-	-	-	748	-	-	-	383	-	365	-	-	-
Bank loans, n.e.c.	816	816	791	-	791	-	42	-	698	-	-	-	816	36	-	-	816	-	36	-	-	-
Open-market paper	579	579	211	-	157	-	80	-	53	-	-	-	359	409	-	-	11	-	344	-	3	-
Security credit	134	134	53	-	54	-	54	-	107	-	-	-	81	80	-	-	38	-	43	-	-	-
Proprietors' equity	2,565	-	2,565	-	2,565	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trade credit	967	772	852	-	49	-	853	-	616	-	31	30	45	14	-	-	-	-	45	-	14	-
Taxes payable	49	45	43	-	241	-	16	-	43	-	4	-	3	-	-	-	-	-	1	-	2	-
Miscellaneous claims	2,265	2,134	960	-	510	-	-	-	484	-	23	-6	815	1,255	8	12	471	-	314	-	23	68

<sup>1</sup> Represents zero. <sup>2</sup> Includes "rest of world", not shown separately. <sup>3</sup> Includes personal trusts and nonprofit organizations. <sup>4</sup> Includes "rest of world", not shown separately. <sup>5</sup> Includes "rest of world", not shown separately. <sup>6</sup> Includes "rest of world", not shown separately. <sup>7</sup> Includes "rest of world", not shown separately. <sup>8</sup> Includes "rest of world", not shown separately. <sup>9</sup> Includes "rest of world", not shown separately. <sup>10</sup> Includes "rest of world", not shown separately.

Source: Board of Governors of the Federal Reserve System, *Annual Statistical Digest*.

### No. 797. Flow of Funds Accounts—Financial Assets of Financial and Nonfinancial Institutions, by Holder Sector: 1970 to 1989

[In billions of dollars. As of Dec. 31. See also *Historical Statistics, Colonial Times to 1970*, series X 192, X 229, X 821, and X 835]

SECTOR	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>All sectors</b>	<b>4,639</b>	<b>13,110</b>	<b>15,452</b>	<b>17,134</b>	<b>18,798</b>	<b>21,307</b>	<b>23,966</b>	<b>25,692</b>	<b>27,873</b>	<b>30,797</b>
Households	2,488	6,541	7,563	8,318	8,848	9,905	10,830	11,390	12,324	13,770
Nonfinancial business	414	1,187	1,367	1,517	1,662	1,794	1,971	2,120	2,247	2,377
Farm	11	24	28	29	29	32	35	38	41	44
Nonfarm noncorporate	33	148	198	231	279	317	360	394	423	452
Nonfinancial corporations	370	1,015	1,142	1,257	1,355	1,444	1,576	1,688	1,784	1,882
State and local government	72	233	266	294	330	437	482	510	525	541
U.S. Government	90	230	279	293	329	366	376	351	332	324
U.S. Government-sponsored credit agencies and mortgage pools	52	309	434	502	588	695	914	1,095	1,169	1,332
Monetary authorities	86	174	194	204	219	243	275	286	305	316
Commercial banking	518	1,482	1,730	1,884	2,121	2,367	2,610	2,760	2,938	3,215
Domestic commercial banks	490	1,266	1,472	1,602	1,799	1,990	2,166	2,256	2,384	2,543
Foreign banking offices in U.S.	9	101	111	113	126	147	187	231	263	357
Nonbank finance	822	2,550	3,186	3,619	4,111	4,775	5,576	6,079	6,723	7,381
Savings and loan associations <sup>1</sup>	171	614	698	819	977	1,058	1,141	1,247	1,360	1,233
Mutual savings banks <sup>2</sup>	79	172	174	194	205	219	239	263	287	287
Credit unions	18	69	83	98	113	137	166	182	196	206
Life insurance	201	464	568	633	693	791	901	998	1,126	1,264
Other insurance	50	174	203	225	241	289	342	387	436	493
Private pension funds	112	470	576	683	714	848	942	1,004	1,117	1,250
State and local govt. retirement funds	60	198	263	311	357	405	469	517	606	726
Finance companies	64	202	237	264	302	352	410	450	489	519
Real estate investment trusts	4	3	4	4	6	8	9	11	14	14
Investment companies	47	62	77	112	137	240	414	460	478	552
Money market funds	-	76	220	179	234	244	292	316	338	428
Security brokers, dealers	16	46	85	92	121	159	188	142	141	224
SCO <sup>3</sup> issuers	-	-	1	4	14	25	64	103	136	184
Rest of the world	99	405	433	503	590	727	932	1,100	1,311	1,542

- Represents zero. <sup>1</sup> Includes personal trusts and nonprofit organizations. <sup>2</sup> Includes other sectors not shown separately. <sup>3</sup> See footnote 2, table 799. <sup>4</sup> Includes Federal savings banks insured by Bank Insurance Fund and a few insured by Savings Association Insurance Fund. <sup>5</sup> Securitized credit obligations.

Source: Board of Governors of the Federal Reserve System, *Annual Statistical Digest*.

### No. 798. Flow of Funds Accounts—Assets and Liabilities of Households: 1970 to 1989

[As of December 31. Includes personal trusts and nonprofit organizations. See also *Historical Statistics, Colonial Times to 1970*, series X 114-147]

TYPE OF INSTRUMENT	TOTAL (bil. dol.)							PERCENT DISTRIBUTION		
	1970	1980	1985	1986	1987	1988	1989	1970	1980	1989
<b>Total financial assets</b>	<b>2,488</b>	<b>6,541</b>	<b>9,905</b>	<b>10,830</b>	<b>11,390</b>	<b>12,324</b>	<b>13,770</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Deposit and market instrument	791	2,124	3,594	3,851	4,153	4,561	5,012	31.8	32.5	36.4
Checkable deposits and currency	118	260	379	467	487	491	499	4.7	4.0	3.6
Small time and savings deposits	411	1,141	1,830	1,946	2,005	2,138	2,228	16.5	17.4	16.2
Money market fund shares	-	65	215	248	269	287	372	-	1.0	2.7
Large time deposits	15	112	120	95	114	151	185	0.6	1.7	1.3
Credit market instruments	247	546	1,052	1,096	1,277	1,495	1,728	9.9	8.3	12.5
U.S. Government securities	101	266	581	626	716	799	933	4.1	4.1	6.8
Treasury issues	85	221	483	499	522	580	607	3.4	3.4	4.4
Savings bonds	52	73	80	93	101	110	118	2.1	1.1	0.9
Other Treasury	33	148	404	406	421	471	490	1.3	2.3	3.6
Agency issues	16	45	98	126	194	218	326	0.6	0.7	2.4
Tax-exempt obligations	47	78	219	196	238	282	299	1.9	1.2	2.2
Corporate and foreign bonds	34	53	38	78	102	94	148	1.4	0.8	1.1
Mortgages	52	107	128	114	115	177	191	2.1	1.6	1.4
Open-market paper	14	41	86	84	106	144	157	0.5	0.6	1.1
Mutual fund shares	45	52	203	357	406	416	463	1.8	0.8	3.4
Other corporate equities	683	1,111	1,685	1,849	1,719	1,809	2,140	27.4	17.0	15.5
Life insurance reserves	131	216	257	274	300	326	354	5.3	3.3	2.6
Pension fund reserves <sup>2</sup>	241	916	1,802	2,058	2,248	2,559	2,942	9.7	14.0	21.4
Equity in noncorporate business	567	2,033	2,197	2,231	2,339	2,396	2,565	22.8	31.1	18.6
Security credit	4	16	35	44	38	45	53	0.2	0.2	0.4
Miscellaneous assets	26	72	133	165	187	213	241	1.1	1.1	1.8
<b>Total liabilities</b>	<b>493</b>	<b>1,489</b>	<b>2,401</b>	<b>2,707</b>	<b>2,970</b>	<b>3,265</b>	<b>3,581</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Credit market instruments	472	1,430	2,296	2,592	2,865	3,152	3,442	95.8	96.1	96.7
Mortgages	309	974	1,484	1,713	1,956	2,189	2,411	62.7	65.4	67.7
Installment consumer credit	106	302	527	582	618	671	728	21.4	20.3	20.4
Other consumer credit	29	53	75	78	75	72	63	5.8	3.6	1.8
Tax-exempt debt	-	17	81	79	78	79	81	-	1.1	2.3
Bank loans, not elsewhere classified	8	30	44	50	45	42	60	1.6	2.0	1.7
Other loans	21	55	84	89	92	98	100	4.2	3.7	2.8
Security credit	10	29	57	66	50	54	54	2.1	1.9	1.5
Trade credit	5	17	34	36	40	44	49	1.1	1.2	1.4
Unpaid life insurance premiums <sup>3</sup>	5	13	15	14	15	16	16	1.0	0.9	0.4

- Represents zero. <sup>1</sup> Excludes corporate equities. <sup>2</sup> See also table 597. <sup>3</sup> Includes deferred premiums.

Source: Board of Governors of the Federal Reserve System, *Annual Statistical Digest*.

### No. 799. Flow of Funds Accounts—Assets and Liabilities of Private Nonbank Financial Institutions, by Type of Instrument: 1989

[In billions of dollars. As of Dec. 31. Preliminary. A=Assets; L=Liabilities; "N.e.c."=Not elsewhere classified; RP's=Repurchase agreements]

TYPE OF INSTRUMENT	TOTAL <sup>1</sup>		SAVINGS AND LOAN ASSOCIATIONS <sup>2</sup>		LIFE INSURANCE COMPANIES		PRIVATE PENSION FUNDS		STATE AND LOCAL GOVERNMENT RETIREMENT FUNDS		FINANCE COMPANIES	
	A	L	A	L	A	L	A	L	A	L	A	L
<b>Total</b>	<b>7,361</b>	<b>7,188</b>	<b>1,233</b>	<b>1,205</b>	<b>1,264</b>	<b>1,202</b>	<b>1,250</b>	<b>1,250</b>	<b>726</b>	<b>726</b>	<b>519</b>	<b>620</b>
Checkable deposits	71	93	9	33	5	-	8	-	3	-	10	-
Time and savings accounts	163	1,264	5	913	-	-	71	-	24	-	-	-
Federal funds, security RP's	121	141	19	56	-	-	-	-	-	-	-	-
Money market fund shares	28	428	-	-	15	-	13	-	-	-	-	-
Foreign deposits	26	-	-	-	-	-	-	-	-	-	-	-
Reserves:	-	-	-	-	-	-	-	-	-	-	-	-
Life insurance	-	342	-	-	-	342	-	-	-	-	-	-
Pension fund	-	2,713	-	-	-	736	-	1,250	-	726	-	-
Interbank claims	7	-	7	-	-	-	-	-	-	-	-	-
Mutual fund shares	71	552	-	-	19	-	52	-	-	-	-	-
Other corporate equities	1,434	-	-	-	122	-	667	-	285	-	-	-
Credit market instruments	5,058	853	1,080	145	1,010	-	398	-	414	-	509	497
Securities:	-	-	-	-	-	-	-	-	-	-	-	-
U.S. Treasury	558	-	19	-	152	-	94	-	132	-	-	-
Federal agency	651	-	179	-	-	-	53	-	69	-	-	-
Tax-exempt	332	-	-	-	9	-	-	-	-	-	-	-
Corporate and foreign bonds	1,139	369	49	18	522	-	173	-	197	-	-	164
Mortgages	1,319	3	747	-	241	-	7	-	15	-	82	-
Consumer credit	365	-	50	-	-	-	-	-	-	-	166	-
Bank loans, n.e.c.	-	36	-	2	-	-	-	-	-	-	-	31
Open market paper	344	303	4	-	30	-	72	-	-	-	261	-
Other loans	350	142	32	125	57	-	-	-	-	-	-	-
Security credit	43	80	-	-	-	-	-	-	-	-	-	-
Trade credit	45	14	-	-	-	-	-	-	-	-	-	-
Taxes payable	-	2	-	-	-	1	-	-	-	-	-	-
Miscellaneous	314	706	113	58	94	123	41	-	-	-	-	123

- Represents or rounds to zero. <sup>1</sup> Includes other institutions, not shown separately. <sup>2</sup> Includes most Federal savings banks insured by Savings Association Insurance Fund. A few of them are included with mutual savings banks, not shown separately.

### No. 800. Flow of Funds Accounts—Credit Market Debt Outstanding: 1970 to 1989

[In billions of dollars; except percent. As of Dec. 31. "N.e.c."=Not elsewhere classified]

ITEM	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>Credit market debt</b>	<b>1,597</b>	<b>4,656</b>	<b>5,631</b>	<b>6,288</b>	<b>7,196</b>	<b>8,243</b>	<b>9,431</b>	<b>10,463</b>	<b>11,415</b>	<b>12,393</b>
Government:	451	1,029	1,323	1,533	1,760	2,074	2,326	2,504	2,691	2,866
Federal	301	743	991	1,178	1,377	1,600	1,815	1,960	2,118	2,268
State and local	150	287	331	355	383	474	510	544	574	598
Non-government:	1,146	3,627	4,308	4,755	5,436	6,169	7,106	7,959	8,724	9,528
Financial:	120	563	759	860	1,010	1,213	1,564	1,886	2,084	2,327
Sponsored credit agencies <sup>2</sup>	39	163	210	212	242	264	279	308	353	378
Mortgage pools	5	114	179	245	289	369	565	718	745	876
Commercial banks <sup>3</sup>	13	91	132	150	174	185	192	199	159	145
Savings and loan associations	11	53	70	84	82	99	120	139	146	145
Finance companies	51	136	162	179	203	261	328	379	446	497
SCO trusts <sup>4</sup>	-	-	1	4	14	25	64	103	136	184
Foreign	52	196	209	226	234	235	236	243	250	259
Private domestic nonfinancial:	973	2,868	3,340	3,670	4,192	4,721	5,306	5,831	6,390	6,941
Corporations	353	828	966	1,044	1,217	1,354	1,558	1,712	1,899	2,096
Bonds	167	412	482	507	574	670	781	880	995	1,108
Mortgages	59	85	35	50	53	34	81	82	83	87
Bank loans, n.e.c.	104	230	315	335	384	415	465	469	502	534
Open-market paper	7	28	38	37	59	72	63	74	85	107
Nonbank finance loans	11	44	51	58	75	87	99	116	135	147
Individuals	621	2,039	2,374	2,626	2,975	3,367	3,750	4,119	4,490	4,844
By sector:	-	-	-	-	-	-	-	-	-	-
Households <sup>5</sup>	472	1,430	1,626	1,792	2,016	2,296	2,592	2,865	3,152	3,442
Farm	48	162	185	188	188	173	157	146	138	137
Nonfarm noncorporate	102	448	564	646	769	898	1,002	1,109	1,201	1,265
By type of instrument:	-	-	-	-	-	-	-	-	-	-
Mortgages	410	1,360	1,581	1,745	1,964	2,214	2,513	2,829	3,121	3,389
Consumer credit	134	355	389	438	519	602	660	693	744	791
Policy loan	17	43	54	55	56	56	55	55	56	60
Bank loans, n.e.c.	31	138	150	156	169	178	192	195	201	224
Other loans	30	124	151	163	184	197	211	230	249	260
Tax-exempt debt	-	17	30	41	51	81	79	78	79	81

- Represents zero. <sup>1</sup> Includes other types, not shown separately. <sup>2</sup> U.S. Government. <sup>3</sup> Includes bank affiliates. <sup>4</sup> Securitized credit obligations. <sup>5</sup> See footnote 2, table 798.

Source of tables 799 and 800: Board of Governors of the Federal Reserve System, *Annual Statistical Digest*.

**No. 801. Ownership of Public Debt Securities by Private Investors: 1970 to 1989**

[As of December. Par values. Estimated]

INVESTOR	AMOUNT (bil. dol.)							PERCENT DISTRIBUTION			
	1970	1980	1985	1986	1987	1988	1989	1970	1980	1985	1989
<b>Total privately held . . . . .</b>	<b>229.1</b>	<b>616.4</b>	<b>1,417.2</b>	<b>1,602.0</b>	<b>1,731.4</b>	<b>1,858.5</b>	<b>2,015.8</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Commercial banks <sup>1</sup>	62.7	112.1	198.2	203.5	201.5	193.8	180.6	27.4	18.2	14.0	9.0
Nonbank investors	166.4	504.3	1,219.0	1,398.5	1,529.9	1,664.7	1,835.2	72.6	81.8	86.0	91.0
Individuals <sup>2</sup>	81.2	117.1	154.8	162.7	172.4	188.8	214.2	35.4	19.0	10.9	10.6
Insurance companies	7.4	24.0	78.5	105.6	104.9	107.3	107.9	3.2	3.9	5.5	5.4
Money market funds	(NA)	3.5	25.1	28.6	14.6	11.8	14.4	(NA)	0.6	1.8	0.7
Corporations <sup>3</sup>	7.3	19.3	59.0	68.8	84.6	87.1	93.8	3.2	3.1	4.2	4.7
State and local governments <sup>4</sup>	27.8	87.9	226.7	262.8	284.6	313.6	337.1	12.1	14.3	16.0	16.7
Foreign and international <sup>5</sup>	19.8	129.7	224.8	263.4	299.7	362.2	393.4	8.6	21.0	15.9	19.5
Other investors <sup>6</sup>	23.0	122.8	450.1	506.6	569.1	593.9	674.3	10.0	19.9	31.8	33.5

NA Not available. <sup>1</sup> Consists of domestically chartered banks, U.S. branches and agencies of foreign banks, NY investment companies majority owned by foreign banks, and Edge Act corporations owned by domestically chartered and foreign banks. <sup>2</sup> Includes partnerships and personal trust accounts. <sup>3</sup> Exclusive of banks and insurance companies. <sup>4</sup> Includes State and local pension funds. <sup>5</sup> Consists of the investment of foreign balances and international accounts in the United States. <sup>6</sup> Consists of savings and loan associations, credit unions, mutual savings banks, nonprofit institutions, money market funds (for 1970), corporate pension trust funds, and dealers and brokers. Also included are certain government deposit accounts and government-sponsored agencies.

Source: U.S. Dept. of the Treasury, *Treasury Bulletin*, quarterly.

**No. 802. Selected Financial Institutions—Number and Assets, by Asset Size: 1989**

[As of December. FDIC—Federal Deposit Insurance Corporation]

ASSET SIZE	NUMBER OF INSTITUTIONS				ASSETS (bil. dol.)			
	B.I.F.-insured commercial banks <sup>1</sup>	S.A.I.F.-insured savings institutions <sup>1,2</sup>	B.I.F.-insured savings banks	Credit unions <sup>3</sup>	B.I.F.-insured commercial banks <sup>1,4</sup>	S.A.I.F.-insured savings institutions <sup>1,2</sup>	B.I.F.-insured savings banks	Credit unions <sup>3</sup>
<b>Total . . . . .</b>	<b>12,706</b>	<b>2,878</b>	<b>489</b>	<b>13,371</b>	<b>3,299.2</b>	<b>1,251.7</b>	<b>278.9</b>	<b>183.7</b>
Less than \$5.0 million . . . . .	153		1	8,683	0.5	(Z)	(Z)	13.0
\$5.0 million-\$9.9 million . . . . .	619	305	5	1,657	4.8	4.8	(Z)	11.7
\$10.0 million-\$24.9 million . . . . .	2,968		18	1,536	51.7		0.3	24.5
\$25.0 million-\$49.9 million . . . . .	3,238	476	47	759	117.2	17.6	1.7	26.4
\$50.0 million-\$99.9 million . . . . .	2,744	655	72	389	191.3	46.6	5.3	27.3
\$100.0 million-\$499.9 million . . . . .	2,370	1,026	228	324	463.3	219.7	53.1	60.0
\$500.0 million or more . . . . .	614	416	118	23	2,470.4	963.1	219.5	20.8
<b>PERCENT DISTRIBUTION</b>								
<b>Total . . . . .</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Less than \$5.0 million . . . . .	1.2		0.2	64.9	(Z)	(Z)	(Z)	7.1
\$5.0 million-\$9.9 million . . . . .	4.9	10.6	1.0	12.4	0.1	0.4	(Z)	6.4
\$10.0 million-\$24.9 million . . . . .	23.4		3.7	11.5	1.6		0.1	13.3
\$25.0 million-\$49.9 million . . . . .	25.5	16.5	9.6	5.7	3.6	1.4	0.6	14.3
\$50.0 million-\$99.9 million . . . . .	21.6	22.8	14.7	2.9	5.8	3.7	1.9	14.9
\$100.0 million-\$499.9 million . . . . .	18.6	35.6	46.7	2.4	14.0	17.6	19.0	32.7
\$500.0 million or more . . . . .	4.8	14.5	24.1	0.2	74.9	76.9	78.4	11.3

Z Less than \$50 million or .05 percent. <sup>1</sup> All commercial banks and some savings banks are insured by the FDIC Bank Insurance Fund (B.I.F.). Savings institutions previously insured by the Federal Savings and Loan Insurance Corporation are insured by the FDIC Savings Association Insurance Fund (S.A.I.F.), effective August 9, 1989. Represents reporting banks. <sup>2</sup> Source: U.S. League of Savings Institutions, Washington, DC, *Savings Institutions Sourcebook*, annual. <sup>3</sup> Source: National Credit Union Administration, *National Credit Union Administration Yearend Statistics 1989*. Excludes nonfederally insured State chartered credit unions and federally insured corporate credit unions. <sup>4</sup> Includes foreign branches of U.S. banks.

**No. 803. FDIC-Insured Banks—Number, Banking Offices, and Deposits, by Bank Class: 1989**

[As of June 30. Includes Puerto Rico and outlying areas. Covers all commercial banks and savings banks insured by the Federal Deposit Insurance Corporation Bank Insurance Fund. Savings institutions insured by the Savings Association Insurance Fund are excluded]

CLASS OF BANK	Banks (number)	Banking offices (number)	DEPOSITS (mil. dol.)			
			Total <sup>1</sup>	Individuals, partnerships and corporations		Government
				Total	Transaction accounts <sup>2</sup>	Non-transaction accounts
<b>Total . . . . .</b>	<b>13,442</b>	<b>64,071</b>	<b>2,364,574</b>	<b>2,173,381</b>	(NA)	(NA)
Commercial banks	12,950	60,258	2,136,760	1,948,766	541,166	1,407,600
National banks	4,288	29,291	1,244,814	1,135,600	322,878	812,722
State (Federal Reserve, member bank)	1,037	6,478	287,939	258,601	77,783	180,818
State (non-Federal Reserve member)	7,625	24,489	604,007	554,566	140,506	414,060
Savings banks	492	3,759	223,476	220,814	(NA)	(NA)
U.S. branches of foreign banks	-	54	4,338	3,800	(NA)	(NA)

- Represents zero. NA Not available. <sup>1</sup> Includes other types of deposits, not shown separately. <sup>2</sup> A transaction account is a deposit or account from which the depositor or account holder is permitted to make transfers or withdrawals by negotiable or transferable instruments, payment orders of withdrawal, telephone transfers, or other similar devices for the purpose of making payments or transfers to others.

Source of tables 802 and 803: Except as noted, U.S. Federal Deposit Insurance Corporation, *Statistics on Banking*, annual, and *Data Book, Operating Banks and Branches*, June 30, 1989.

**No. 804. Banking Offices, by Deposit Insurance Status: 1970 to 1989**

[As of December 31. Includes Puerto Rico and outlying areas. Beginning 1982, excludes automatic teller machines that were previously being reported by many banks as branches. See also *Historical Statistics, Colonial Times to 1970*, series X 716-724.]

ITEM	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>All banking offices . . . . .</b>	<b>37,166</b>	<b>57,232</b>	<b>57,913</b>	<b>59,050</b>	<b>60,067</b>	<b>60,890</b>	<b>61,897</b>	<b>62,914</b>	<b>63,960</b>	<b>64,936</b>
Commercial banks, total . . . . .	35,585	53,649	54,829	55,960	57,010	57,764	58,565	59,423	60,200	61,162
Member, Federal Reserve System . . . . .	21,989	29,985	30,921	31,946	32,809	33,854	34,542	35,196	35,763	36,755
National banks . . . . .	17,191	24,217	24,867	26,080	27,037	27,844	28,218	28,744	29,270	30,019
State banks . . . . .	4,798	5,768	6,054	5,866	5,772	6,010	6,324	6,452	6,493	6,736
Nonmember banks . . . . .	13,596	23,664	23,908	24,014	24,201	23,910	24,023	24,227	24,437	24,407
Insured . . . . .	13,332	23,186	23,314	23,380	23,535	23,810	24,023	24,227	24,437	24,407
Noninsured . . . . .	264	478	594	634	666	(NA)	(NA)	(NA)	(NA)	(NA)
Savings banks, total . . . . .	1,581	3,583	3,084	3,090	3,057	3,126	3,332	3,491	3,760	3,774
Insured . . . . .	1,223	3,066	2,733	2,760	2,728	3,126	3,332	3,491	3,760	3,774
Noninsured . . . . .	358	517	351	330	329	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

Source: U.S. Federal Deposit Insurance Corporation, *Statistics on Banking*, annual.

**No. 805. Changes in Number of Operating Banking Offices: 1970 to 1989**

[As of December 31. Includes Puerto Rico and outlying areas. Beginning 1985, excludes noninsured institutions. Minus sign (-) indicates decrease]

TYPE OF CHANGE	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>Banking offices <sup>1</sup> . . . . .</b>	<b>37,166</b>	<b>57,232</b>	<b>57,913</b>	<b>59,050</b>	<b>60,067</b>	<b>60,890</b>	<b>61,897</b>	<b>62,914</b>	<b>63,960</b>	<b>64,936</b>
Number of banks . . . . .	14,199	15,330	15,412	15,440	15,489	14,809	14,681	14,207	13,629	13,201
Number of branches . . . . .	22,967	41,902	42,501	43,610	44,578	46,081	47,216	48,707	50,331	51,735
<b>Net change during year . . . . .</b>	<b>1,584</b>	<b>2,306</b>	<b>-1,435</b>	<b>1,137</b>	<b>1,017</b>	<b>1,759</b>	<b>1,007</b>	<b>1,017</b>	<b>1,046</b>	<b>976</b>
Offices opened . . . . .	1,864	2,800	2,387	2,119	2,338	2,874	2,756	3,144	3,537	3,342
Banks . . . . .	186	271	379	432	466	482	396	271	248	202
Branches . . . . .	1,678	2,529	2,008	1,687	1,852	2,392	2,360	2,873	3,289	3,140
Offices closed . . . . .	280	494	3,822	982	1,321	1,115	1,749	2,127	2,491	2,366
Banks . . . . .	165	142	322	404	427	460	524	745	826	630
Branches . . . . .	115	352	2,500	578	894	655	1,225	1,382	1,665	1,736

<sup>1</sup> See headnote, table 804. <sup>2</sup> Includes 3,000 automatic teller machines that were previously reported as branches.

Source: U.S. Federal Deposit Insurance Corporation, *Statistics on Banking*, annual.

**No. 806. 500 Largest Banks in the World—Number and Deposits, by Location of Bank: 1970 to 1989**

[Deposits in billions of dollars, except percent. Data cover U.S. commercial banks and foreign banks that conduct a commercial banking business; beginning 1983, includes U.S. and foreign savings banks. Beginning 1982, covers top 500 banks in assets available. Number of banks includes banks more than 50 percent owned by other banks. To avoid double-counting of deposits, banks more than 50 percent owned by other banks are excluded from deposit totals if their parent bank consolidates their deposits.]

LOCATION OF BANK	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989	PERCENT		
											1970	1980	1989
NUMBER													
U.S. banks	185	93	97	102	115	110	102	90	107	108	37.0	18.6	21.6
Foreign banks	315	407	403	398	385	390	398	410	393	392	63.0	81.4	78.4
Japan	71	78	95	95	95	96	108	111	111	108	14.2	15.6	21.6
United Kingdom	27	34	30	26	22	22	20	18	18	20	5.4	6.8	4.0
West Germany	37	38	35	40	39	39	38	42	38	37	7.4	7.6	7.4
France	19	28	23	21	19	20	23	23	20	20	4.0	5.6	4.0
Italy	25	27	23	29	26	29	31	32	29	28	5.0	5.4	5.6
DEPOSITS													
Total	890	4,994	5,230	5,683	5,854	7,022	9,220	12,090	12,837	13,565	100.0	100.0	100.0
U.S. banks	296	754	794	882	961	1,014	1,084	1,108	1,347	1,352	33.3	15.1	10.0
Foreign banks	594	4,240	4,436	4,801	4,893	6,008	8,136	10,982	11,489	12,214	66.7	84.9	90.0
Japan	151	1,131	1,282	1,587	1,750	2,179	3,350	4,936	5,333	5,236	17.0	23.8	38.6
United Kingdom	60	349	380	375	343	403	458	588	646	673	6.7	7.0	5.0
West Germany	80	603	557	550	500	684	912	1,208	1,151	1,309	9.0	12.1	9.7
France	40	483	447	436	440	502	650	836	822	970	4.5	9.7	7.2
Italy	62	290	257	309	296	395	527	647	606	708	7.0	5.8	5.2

Source: *American Banker*, New York, NY, selected July issues.



**No. 807. Insured Commercial Banks—Assets and Liabilities: 1980 to 1990**

[In billions of dollars, except as indicated. As of Dec. 31. Includes outlying areas. Except as noted, includes foreign branches of U.S. banks. See *Historical Statistics, Colonial Times to 1970*, series X 588-609, for related data]

ITEM	1980	1983	1984	1985	1986	1987	1988	1989	1990 <sup>1</sup>
Number of banks	14,434	14,465	14,481	14,404	14,200	13,701	13,139	12,713	12,338
<b>Assets, total</b>	<b>1,855.7</b>	<b>2,342.1</b>	<b>2,508.6</b>	<b>2,731.0</b>	<b>2,941.1</b>	<b>2,999.8</b>	<b>3,130.9</b>	<b>3,299.0</b>	<b>3,388.9</b>
Net loans and leases	1,006.4	1,301.3	1,489.7	1,607.8	1,727.8	1,779.2	1,885.7	2,003.6	2,054.0
Real estate loans	269.1	336.8	385.6	438.4	515.3	600.1	676.6	761.5	829.0
Commercial and industrial loans	391.0	524.9	565.2	577.7	600.9	589.3	598.8	618.6	615.5
Loans to individuals	187.4	224.6	266.8	308.9	335.7	351.2	377.8	400.6	402.9
Farm loans	32.3	39.8	40.4	36.1	31.7	29.4	30.2	31.1	33.3
Other loans and leases	136.8	190.6	250.4	269.9	273.1	259.1	248.9	245.5	228.7
Less: Reserve for losses	10.1	15.4	18.7	23.2	28.9	49.9	46.7	53.7	55.3
Temporary investments			410.3	451.9	463.5	451.2	465.8	481.8	451.5
Securities over 1 year in length			252.0	297.8	357.6	396.5	382.8	402.2	450.4
Other			356.6	373.5	392.1	372.8	396.5	411.4	433.0
Domestic office assets	1,533.0	2,027.6	2,108.5	2,325.5	2,532.9	2,574.7	2,726.1	2,896.9	3,081.3
Foreign office assets	322.7	314.5	400.1	405.5	408.2	425.1	404.6	402.1	307.6
<b>Liabilities and capital, total</b>	<b>1,855.7</b>	<b>2,342.1</b>	<b>2,508.6</b>	<b>2,731.0</b>	<b>2,941.1</b>	<b>2,999.8</b>	<b>3,130.9</b>	<b>3,299.0</b>	<b>3,388.9</b>
Noninterest-bearing deposits	432.3	389.7	431.6	471.3	532.3	477.6	479.4	483.4	489.0
Interest-bearing deposits	1,048.9	1,452.6	1,531.2	1,646.4	1,751.1	1,857.6	1,952.1	2,065.1	2,161.0
Subordinated debt	6.5	7.1	10.2	14.7	17.0	17.6	17.3	19.5	23.8
Other liabilities	260.4	352.2	381.3	429.4	458.4	466.4	485.1	526.2	496.0
Equity capital	107.6	140.5	154.3	169.2	182.2	180.5	196.7	204.8	219.1
Domestic office deposits	1,187.2	1,533.9	1,645.2	1,795.9	1,969.7	1,993.6	2,116.5	2,236.8	2,356.6
Foreign office deposits	294.0	308.4	317.6	321.8	313.8	341.6	315.1	311.8	293.4

<sup>1</sup> Preliminary. <sup>2</sup> Prior to 1984, demand deposits. <sup>3</sup> Prior to 1984, time and savings deposits.

Source: U.S. Federal Deposit Insurance Corporation, *The FDIC Quarterly Banking Profile, Annual Report, and Statistics on Banking*, annual.

**No. 808. Insured Commercial Banks—Number, Assets, and Deposits, States and Other Areas: 1989**

[Excludes foreign branches of U.S. banks]

STATE	ALL BANKS <sup>1</sup>			BANKS CLOSED OR ASSISTED		STATE	ALL BANKS <sup>1</sup>			BANKS CLOSED OR ASSISTED	
	Num-ber	Assets (bil. dol.)	Deposits (bil. dol.)	Num-ber	Deposits (mil. dol.)		Num-ber	Assets (bil. dol.)	Deposits (bil. dol.)	Num-ber	Deposits (mil. dol.)
<b>Total U.S.</b>	<b>12,713</b>	<b>2,897.8</b>	<b>2,236.7</b>	<b>207</b>	<b>24,097</b>	WV	186	16.7	14.2	1	4
<b>Northeast</b>	<b>893</b>	<b>828.0</b>	<b>600.4</b>	<b>5</b>	<b>1,179</b>	NC	78	73.3	50.9	-	-
<b>N.E.</b>	<b>276</b>	<b>182.6</b>	<b>134.0</b>	<b>2</b>	<b>727</b>	SC	82	23.7	17.5	-	-
ME	20	8.2	7.0	-	-	GA	392	64.3	49.3	-	-
NH	48	10.4	8.6	-	-	FL	429	131.4	110.0	5	1,070
VT	27	5.8	5.2	-	-	<b>E.S.C.</b>	<b>947</b>	<b>140.3</b>	<b>115.5</b>	-	-
MA	99	101.4	71.2	1	679	KY	335	39.3	31.4	-	-
RI	13	16.3	10.8	-	-	TN	268	44.8	37.8	-	-
CT	69	40.4	31.4	1	48	AL	221	36.2	29.1	-	-
<b>M.A.</b>	<b>617</b>	<b>645.4</b>	<b>466.4</b>	<b>3</b>	<b>452</b>	MS	123	20.1	17.2	-	-
NY	193	392.1	269.6	3	452	<b>W.S.C.</b>	<b>2,237</b>	<b>252.8</b>	<b>212.7</b>	<b>167</b>	<b>20,459</b>
NJ	126	93.1	74.6	-	-	AR	257	19.5	17.2	-	-
PA	298	160.2	122.1	-	-	LA	232	36.3	31.7	21	1,116
<b>Midwest</b>	<b>5,518</b>	<b>680.4</b>	<b>539.3</b>	<b>10</b>	<b>106</b>	OK	430	26.3	23.0	12	449
<b>E.N.C.</b>	<b>2,502</b>	<b>466.9</b>	<b>368.0</b>	-	-	TX	1,318	170.8	140.7	134	18,894
OH	293	107.2	84.3	-	-	<b>West</b>	<b>1,570</b>	<b>468.3</b>	<b>382.6</b>	<b>18</b>	<b>1,265</b>
IN	312	56.1	45.9	-	-	<b>Mt.</b>	<b>922</b>	<b>111.9</b>	<b>87.3</b>	<b>15</b>	<b>345</b>
IL	1,119	171.3	128.0	-	-	MT	167	7.0	6.1	2	45
MI	268	87.4	72.3	-	-	ID	23	8.3	6.5	-	-
WI	510	44.8	37.5	-	-	WY	71	4.4	3.8	-	-
<b>W.N.C.</b>	<b>3,016</b>	<b>213.6</b>	<b>171.3</b>	<b>10</b>	<b>106</b>	CO	451	26.0	21.5	7	90
MN	637	50.9	40.4	1	13	NM	93	10.7	9.0	-	-
IA	576	32.2	27.4	-	-	AZ	43	26.4	23.1	6	210
MO	551	58.1	48.3	1	5	UT	57	12.0	9.3	-	-
ND	158	7.0	6.2	2	41	NV	17	17.0	7.8	-	-
SD	129	20.1	9.5	-	-	<b>Pac.</b>	<b>648</b>	<b>356.4</b>	<b>295.3</b>	<b>3</b>	<b>920</b>
NE	392	18.6	16.1	1	5	WA	92	38.1	31.0	-	-
KS	573	26.7	23.4	5	42	OR	49	22.0	16.8	-	-
<b>South</b>	<b>4,714</b>	<b>905.6</b>	<b>701.4</b>	<b>174</b>	<b>21,547</b>	CA	479	277.7	231.3	1	27
<b>S.A.</b>	<b>1,530</b>	<b>512.4</b>	<b>373.2</b>	<b>7</b>	<b>1,088</b>	AK	7	4.3	3.4	2	893
DE	48	66.4	28.1	-	-	HI	21	14.3	12.8	-	-
MD	106	52.0	39.0	-	-	AM	1	(Z)	(Z)	-	-
DC	25	17.5	13.2	-	-	PR	15	15.1	12.7	-	-
VA	182	67.1	51.0	1	14	GU	1	0.4	0.4	-	-
						Pac. Is-lands	1	(Z)	(Z)	-	-

- Represents zero. Z Less than \$50 million. <sup>1</sup> As of December 31.

Source: U.S. Federal Deposit Insurance Corporation, unpublished data.

### No. 809. Insured Commercial Banks—Income and Selected Measures of Financial Condition: 1980 to 1990

[In billions of dollars, except as indicated. Includes outlying areas. Includes foreign branches of U.S. banks. See *Historical Statistics, Colonial Times to 1970*, series X 588-609, for related data]

ITEM	1980	1983	1984	1985	1986	1987	1988	1989	1990 <sup>1</sup>
Interest income	177.4	217.3	264.2	248.2	237.8	244.8	272.3	317.3	320.4
Interest expense	120.1	143.9	181.2	157.3	142.8	144.9	165.0	205.1	204.9
Net interest income	57.3	73.4	83.0	90.9	95.0	99.9	107.3	112.2	115.5
Provisions for loan losses	4.5	10.7	13.7	17.7	22.1	37.5	17.0	31.0	31.7
Noninterest income	13.3	23.3	27.7	31.0	35.9	41.5	44.9	51.1	55.1
Noninterest expense	46.7	66.9	76.4	82.3	90.2	97.3	101.3	108.1	115.5
Income taxes	5.0	4.1	4.9	5.6	5.3	5.4	10.0	9.7	7.9
Net operating income	14.5	15.0	15.7	16.3	13.3	1.1	23.9	14.5	15.5
Securities gain/loss, net	-0.5	-	-0.1	1.6	4.0	1.4	0.3	0.8	0.5
Extraordinary gains, net	-	0.1	0.2	0.2	0.3	0.2	0.8	0.3	0.7
Net income	14.0	15.1	15.8	18.1	17.5	2.8	25.1	15.6	16.6
RATIOS OF CONDITION									
Return on assets <sup>2</sup> (percent)	0.80	0.66	0.65	0.70	0.63	0.12	0.82	0.49	0.50
Return on equity <sup>3</sup> (percent)	13.66	10.70	10.73	11.31	9.94	2.00	13.30	7.78	7.84
Equity capital to assets (percent)	5.80	6.00	6.15	6.20	6.20	6.04	6.28	6.21	6.47
Nonperforming assets	(NA)	46.0	49.5	51.0	57.7	73.8	67.1	75.4	(NA)
Nonperforming assets to assets (percent)	(NA)	1.97	1.97	1.87	1.94	2.46	2.14	2.28	2.92
Net charge-offs <sup>4</sup>	3.6	8.5	10.8	13.6	16.5	18.4	18.5	22.9	29.0
Net charge-offs to loans and leases (percent)	0.36	0.67	0.76	0.84	0.98	0.92	1.00	1.16	1.40
Net interest margin <sup>5</sup> (percent)	3.66	3.81	3.95	4.09	3.98	3.89	4.06	4.05	3.99
Percentage of banks losing money	3.7	10.6	13.1	17.1	19.8	17.7	14.7	12.5	12.6

<sup>1</sup> Represents or rounds to zero. NA Not available. <sup>2</sup> Preliminary. <sup>3</sup> Net income (including securities transactions and nonrecurring items) as a percentage of average total assets. <sup>4</sup> Net income as a percentage of average total equity capital.

<sup>5</sup> Total loans and leases charged off (removed from balance sheet because of uncollectibility), less amounts recovered on loans and leases previously charged off. <sup>6</sup> Interest income less interest expense as a percentage of average earning assets (i.e. the profit margin a bank earns on its loans and investments).

### No. 810. Insured Commercial Banks—Selected Measures of Financial Condition, by Asset Size and Region: 1990

[In percent. Preliminary. See headnote, table 809]

ASSET SIZE AND REGION	Return on assets	Return on equity	Equity capital to assets	Nonperforming assets to total assets	Net charge-offs to loans and leases	Percentage of banks losing money
Total	0.50	7.84	6.47	2.92	1.40	12.6
Less than \$100 million	0.74	8.11	9.02	1.69	0.68	13.3
\$100 million to \$1 billion	0.80	10.26	7.71	1.92	0.82	8.9
\$1 billion to \$10 billion	0.38	5.91	6.34	2.81	1.37	20.6
\$10 billion or more	0.40	7.83	5.26	3.82	1.86	24.5
Northeast <sup>1</sup>	0.04	0.77	5.67	4.35	1.99	27.1
Southeast <sup>2</sup>	0.64	8.93	7.04	2.03	0.90	16.2
Central <sup>3</sup>	0.84	11.94	7.05	1.57	0.90	5.4
Midwest <sup>4</sup>	1.03	13.21	7.70	1.43	0.99	5.4
Southwest <sup>5</sup>	0.49	7.50	6.52	2.69	1.38	17.3
West <sup>6</sup>	0.95	14.70	6.68	2.43	1.15	17.8

<sup>1</sup> CT, DE, DC, ME, MD, MA, NH, NJ, NY, PA, PR, RI, and VT. <sup>2</sup> AL, FL, GA, MS, NC, SC, TN, VA, and WV. <sup>3</sup> IL, IN, KY, MI, OH, and WI. <sup>4</sup> IA, KS, MN, MO, NE, ND, and SD. <sup>5</sup> AR, LA, NM, OK, and TX. <sup>6</sup> AK, AZ, CA, CO, HI, ID, MT, NV, OR, Pacific Islands, UT, WA, and WY.

### No. 811. FDIC-Insured Banks Closed or Assisted Due to Financial Difficulties and Problem Banks: 1971 to 1990

[Banks are closed either permanently or temporarily by order of supervisory authorities or by directors of banks. F.D.I.C. = Federal Deposit Insurance Corporation. See *Historical Statistics, Colonial Times to 1970*, series X 741, 748, 756, and 761]

ITEM	Unit	1971-1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total banks closed or assisted	Number	84	10	42	48	80	120	145	203	221	207	169
Agricultural banks <sup>1</sup>	Number	(NA)	1	7	7	31	62	59	57	29	13	(NA)
Deposits, closed and assisted banks	Mil. dol	10,851	3,826	9,908	5,442	29,883	8,059	6,597	8,568	37,215	24,097	(NA)
Agricultural banks <sup>1</sup>	Mil. dol	(NA)	7	112	114	421	866	1,408	906	492	173	(NA)
Problem banks <sup>2</sup>	Number	(X)	223	369	642	848	1,140	1,484	1,575	1,406	1,109	1,046

NA Not available. X Not applicable. <sup>1</sup> Banks with at least 25 percent of their portfolios devoted to farm loans.

<sup>2</sup> FDIC-insured commercial and savings banks considered to be problem banks by the supervisory authorities, end-of-period.

Source of tables 809-811: U.S. Federal Deposit Insurance Corporation, *Annual Report, The FDIC Quarterly Banking Profile: Statistics on Banking*, annual; and unpublished data.

**No. 812. U.S. Banking Offices of Foreign Banks—Summary: 1975 to 1989**

[In billions of dollars, except as indicated. As of December, except as indicated. Covers agencies, branches, subsidiary commercial banks, New York State investment companies, and, for data by country only, finance companies]

YEAR	Assets	LOANS		Deposits	COUNTRY	NUMBER OF—		Assets	Loans, commercial and industrial	Deposits
		Total	Business			Banks with U.S. offices	U.S. offices			
1975	52.4	29.9	19.9	22.6	1989, total <sup>2</sup>	281	697	695.6	178.9	370.4
1980	200.6	121.4	59.6	80.4	Japan	39	120	372.5	100.3	195.6
1985	440.8	247.4	108.8	236.7	Italy	13	27	45.1	10.5	13.0
1986	524.3	276.9	126.8	278.2	Canada	6	50	42.4	11.2	19.3
1987	592.6	310.9	147.9	316.1	United Kingdom	12	45	40.2	13.4	26.7
1988	650.6	338.8	167.3	335.1	France	15	39	30.3	5.1	16.5
1989	735.7	369.6	184.3	376.1	Hong Kong	10	30	26.4	6.6	19.3
Share: <sup>1</sup> 1975	5.3	5.7	10.4	2.9	Switzerland	7	18	20.5	4.9	10.6
1980	11.9	13.4	18.2	6.6	Israel	4	27	12.2	3.2	10.7
1985	16.1	15.4	22.5	12.1	Netherlands	4	22	11.6	3.3	6.0
1989	20.6	17.2	29.4	14.9	Spain	9	28	11.2	2.8	7.9

<sup>1</sup> Percent of "domestically owned" commercial banks plus U.S. offices of foreign banks. <sup>2</sup> As of June 30. Includes other countries not shown separately. Source: *American Banker*, New York, NY, selected issues.  
Source: Except as noted, Board of Governors of the Federal Reserve System, unpublished data.

**No. 813. Foreign Branches of U.S. Federal Reserve Member Banks—Number and Assets: 1970 to 1989**

[As of year end. The foreign branch activities of nonmember banks are not significant]

ITEM	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
Member banks operating foreign branches	Number	79	159	162	166	163	162	151	146	132	126
Foreign branches	Number	532	787	900	892	905	916	899	868	849	819
Assets of foreign branches <sup>1,2</sup>	Bil. dol.	50	311	341	333	291	290	285	342	275	264
Percent of total assets of all insured commercial banks <sup>3</sup>	Percent	7.3	16.3	14.2	11.9	10.3	8.9	8.0	8.3	7.5	6.7
Assets of branches in United Kingdom <sup>1</sup>	Bil. dol.	24	107	111	132	87	94	82	110	84	72
Assets of branches in The Bahamas and Cayman Islands <sup>1</sup>	Bil. dol.	4	93	101	117	86	77	82	95	87	81

<sup>1</sup> Data exclude claims on other foreign branches of the same bank. <sup>2</sup> Includes assets of foreign branches in countries in addition to those shown separately. <sup>3</sup> Percentages reflect adjustments to exclude foreign branch claims on the affiliates and other branches of the parent banks.

Source: Board of Governors of the Federal Reserve System, unpublished data.

**No. 814. Foreign Lending by Large U.S. Banks, by Maturity, Type of Borrower, and Country: 1989**

[In millions of dollars, except percent. As of December. Covers 173 U.S. banking organizations which do nearly all of the foreign lending in the country. Data represent claims on foreign residents and institutions held at all domestic and foreign offices of covered banks. Data cover only cross-border and non-local currency lending. These result from a U.S. bank's office in one country lending to residents of another country or lending in a currency other than that of the borrower's country. Excludes local currency loans and other claims and local currency liabilities held by banks' foreign offices on residents of the country in which the office was located (e.g. Deutsche mark loans to German residents booked at the German branch of the reporting U.S. bank). Criteria for country selection is \$1.9 billion or more]

COUNTRY	CLAIMS		Bank borrowers	Public borrowers	COUNTRY	CLAIMS		Bank borrowers	Public borrowers
	Total <sup>1</sup>	Percent short-term <sup>2</sup>				Total <sup>1</sup>	Percent short-term <sup>2</sup>		
<b>Total <sup>3</sup></b>	<b>216,269</b>	<b>66</b>	<b>100,676</b>	<b>60,172</b>	Italy	4,747	75	3,014	1,257
Argentina	4,500	25	497	3,067	Japan	21,799	87	17,208	231
Australia	2,504	67	441	334	Mexico	16,060	24	1,932	12,572
Bahamas, The	3,276	92	3,078	13	Netherlands	3,063	74	1,495	324
Belgium-Luxembourg	6,524	83	4,190	1,048	Philippines	3,233	43	317	2,140
Brazil	16,284	40	2,382	12,200	Singapore	4,778	95	3,990	121
British West Indies	9,701	95	9,028	9	South Africa	2,297	42	1,435	550
Canada	7,802	60	2,418	869	South Korea	3,972	84	1,890	303
Chile	3,945	51	467	2,456	Spain	2,388	55	933	789
China:					Sweden	1,960	92	1,297	196
Taiwan	2,991	95	1,102	288	Switzerland	3,749	93	1,869	45
Colombia	1,921	37	272	1,323	United Kingdom	31,525	82	17,762	463
France	8,711	85	6,812	1,221	Venezuela	7,149	21	983	5,052
Hong Kong	6,531	91	4,545	35	West Germany	4,650	49	1,729	1,684

<sup>1</sup> Includes private nonbank borrowers, not shown separately. <sup>2</sup> Maturity, one year or less. <sup>3</sup> Includes countries not shown separately.

Source: Board of Governors of the Federal Reserve System, Federal Financial Institutions Examination Council, statistical release.

**No. 815. Federal and State-Chartered Credit Unions—Summary: 1970 to 1989**

[As of **December 31**. Federal data include District of Columbia, Puerto Rico, Canal Zone, Guam, and Virgin Islands. Beginning 1984, excludes State-insured and non-insured State-chartered credit unions and corporate central credit unions which have mainly other credit unions as members. See also *Historical Statistics, Colonial Times to 1970*, series X 864-878]

YEAR	OPERATING CREDIT UNIONS		MEMBERS (1,000)		ASSETS (mil. dol.)		LOANS OUTSTANDING (mil. dol.)		SAVINGS (mil. dol.)	
	Federal	State	Federal	State	Federal	State	Federal	State	Federal	State
1970	12,977	10,679	11,966	10,853	8,861	9,089	6,969	7,137	7,629	7,857
1980	12,440	9,025	24,519	19,235	40,092	33,143	26,350	22,633	36,263	29,480
1984	10,548	4,845	28,170	15,205	63,657	29,188	42,132	19,951	57,927	26,327
1985	10,125	4,920	29,576	15,689	78,205	41,525	48,241	26,168	71,616	37,917
1986	9,758	4,935	31,045	17,363	95,484	52,244	55,305	30,834	87,954	49,097
1987	9,401	4,934	32,067	17,999	105,190	56,972	63,638	35,211	96,346	52,083
1988	9,118	4,760	34,438	18,519	114,565	60,740	73,224	39,712	104,431	55,217
1989	8,821	4,550	35,612	18,858	120,666	63,022	79,629	42,038	109,653	57,518

Source: National Credit Union Administration, *Annual Report of the National Credit Union Administration*, and unpublished data.

**No. 816. Savings Institutions—Financial Summary, by Type: 1970 to 1989**

[In **billions of dollars**, except number of institutions. As of **December 31**. Includes Puerto Rico, Guam, and Virgin Islands. SAIF = Savings Association Insurance Fund. BIF = Bank Insurance Fund. See also *Historical Statistics, Colonial Times to 1970*, series X 834-844]

TYPE OF INSTITUTION	1970	1980	1983	1984	1985	1986	1987	1988	1989
<b>NUMBER OF INSTITUTIONS</b>									
<b>Savings institutions, total</b>	<b>6,162</b>	<b>5,076</b>	<b>4,036</b>	<b>3,978</b>	<b>3,939</b>	<b>3,959</b>	<b>3,869</b>	<b>3,667</b>	<b>3,500</b>
Savings and loan associations	5,669	4,613	3,502	3,362	3,233	3,084	2,886	2,554	2,241
SAIF-insured	4,365	4,002	3,040	2,907	2,944	2,817	2,648	2,328	2,108
State insured and non-insured	1,304	611	462	455	289	267	238	226	133
Savings banks	493	463	534	616	706	875	983	1,113	1,259
SAIF-insured	(X)	3	143	229	302	403	499	621	770
BIF-insured	328	323	294	291	392	472	484	492	489
Federally chartered	(X)	(X)	18	24	28	26	22	21	(NA)
State chartered	328	323	276	267	364	446	462	471	(NA)
State insured and non-insured	165	137	97	96	12	-	-	-	-
SAIF-insured institutions	4,365	4,005	3,183	3,136	3,246	3,220	3,147	2,949	2,878
BIF-insured institutions	328	323	294	291	392	472	484	492	489
State insured and non-insured	1,469	748	559	551	301	267	238	226	133
<b>ASSETS</b>									
<b>Savings institutions, total</b>	<b>255.3</b>	<b>796.6</b>	<b>1,034.0</b>	<b>1,206.6</b>	<b>1,315.1</b>	<b>1,422.2</b>	<b>1,520.5</b>	<b>1,643.6</b>	<b>1,533.5</b>
Savings and loan associations	176.1	629.8	773.4	902.0	948.2	961.8	974.3	933.4	755.7
SAIF-insured	170.6	618.5	754.2	879.0	938.1	953.6	966.6	924.5	751.1
State insured and non-insured	5.5	11.2	19.2	23.0	10.1	8.2	7.7	8.9	4.6
Savings banks	79.2	166.8	260.6	304.6	366.9	460.4	546.2	710.2	777.8
SAIF-insured	(X)	2.2	65.0	98.4	131.9	210.3	284.3	426.0	497.9
BIF-insured	68.7	152.6	170.7	179.1	205.4	250.1	261.9	284.2	279.9
Federally chartered	(X)	(X)	36.7	43.5	48.0	52.4	44.8	46.1	(NA)
State chartered	68.7	152.6	134.0	135.6	157.4	197.7	217.1	238.1	(NA)
State insured and non-insured	10.5	12.0	24.9	27.1	29.6	-	-	-	-
SAIF-insured institutions	170.6	620.6	819.2	977.5	1,070.0	1,163.9	1,250.9	1,350.5	1,249.0
BIF-insured institutions	68.7	152.6	170.7	179.1	205.4	250.1	261.9	284.2	279.9
State insured and non-insured	16.0	23.2	44.1	50.1	39.7	8.2	7.7	8.9	4.6
<b>DEPOSITS</b>									
<b>Savings institutions, total</b>	<b>218.8</b>	<b>673.5</b>	<b>863.7</b>	<b>988.3</b>	<b>1,057.4</b>	<b>1,096.5</b>	<b>1,143.7</b>	<b>1,192.8</b>	<b>(NA)</b>
Savings and loan associations	146.7	511.0	634.5	725.0	749.2	740.0	736.0	673.7	(NA)
SAIF-insured	141.7	501.2	617.8	704.9	740.5	732.9	729.4	673.5	597.0
State insured and non-insured	5.0	9.8	16.6	19.9	8.7	7.1	6.6	0.2	(NA)
Savings banks	72.1	162.5	229.3	263.5	308.2	356.5	407.7	519.1	572.4
SAIF-insured	(X)	1.9	53.2	79.6	103.5	157.7	203.2	298.2	348.6
BIF-insured	62.7	149.9	153.8	159.8	178.6	198.8	204.5	220.9	223.8
Federally chartered	(X)	(X)	33.0	38.3	39.8	39.3	30.7	31.7	(NA)
State chartered	62.7	149.9	120.8	121.5	138.9	159.5	173.8	189.2	(NA)
State insured and non-insured	9.4	10.7	22.3	24.1	26.1	-	-	-	-
SAIF-insured institutions	141.7	503.2	671.1	784.5	843.9	890.7	932.6	971.7	945.7
BIF-insured institutions	62.7	149.9	153.8	159.8	178.6	198.8	204.5	220.9	223.8
State insured and non-insured	14.4	21.1	38.9	44.0	34.8	7.1	6.6	0.2	(NA)

- Represents zero. NA Not available. X Not applicable. <sup>1</sup> Source: U.S. Federal Deposit Insurance Corporation, *Annual Report* (for 1970 and 1980), *Statistics on Banking*, annual, and *The FDIC Quarterly Banking Profile*, (for 1989).

Source: Except as noted, U.S. Office of Thrift Supervision, *Savings and Home Financing Source Book*, annual.

### No. 817. Savings Institutions (SAIF-Insured) Approved for Merger, by Type of Merger: 1980 to 1989

[Covers all institutions approved for merger by the U.S. Office of Thrift Supervision except for holding company acquisitions. See headnote, table 819]

YEAR	NUMBER					ASSETS (bil. dol.)				
	Total	Voluntary	Supervisory	SAIF-assisted	Transfers to RTC <sup>1</sup>	Total	Voluntary	Supervisory	SAIF-assisted	Transfers to RTC <sup>1</sup>
1980	120	88	21	11	(NA)	10.1	7.2	1.4	1.5	(NA)
1981	315	234	54	27	(NA)	33.9	18.9	3.4	11.6	(NA)
1982	483	229	189	65	(NA)	61.7	24.2	21.4	16.1	(NA)
1983	157	90	35	32	(NA)	28.9	21.9	2.6	4.4	(NA)
1984	60	33	14	13	(NA)	9.9	5.4	1.0	3.5	(NA)
1985	77	49	6	22	(NA)	23.7	17.4	2.8	3.5	(NA)
1986	75	45	5	25	(NA)	33.7	16.8	7.0	6.2	(NA)
1987	107	74	4	29	(NA)	34.1	27.2	0.4	6.5	(NA)
1988	222	34	9	179	(NA)	109.2	10.5	1.0	97.7	(NA)
1989	354	36	(NA)	(NA)	318	143.4	8.2	(NA)	(NA)	135.1

NA Not available. <sup>1</sup> RTC—Resolution Trust Corporation. This government agency is charged with disposal of failed thrifts. More often than not, the RTC sold the deposit base of the failed institution to a commercial bank.

### No. 818. Savings Institutions (SAIF-Insured)—Sources and Uses of Funds: 1980 to 1989

[In billions of dollars. See headnote, table 819]

ITEM	1980	1983	1984	1985	1986	1987	1988	1989
<b>Uses of funds, total</b>	<b>52.0</b>	<b>119.3</b>	<b>155.9</b>	<b>84.7</b>	<b>97.7</b>	<b>91.7</b>	<b>104.8</b>	<b>-91.9</b>
Net increase in mortgage loans and mortgage pool securities	35.7	72.3	93.1	49.9	57.5	72.9	62.6	-57.1
Loans closed	85.2	151.1	181.3	196.8	265.5	253.4	240.3	189.5
Net loans purchased	-2.9	-9.6	0.3	-35.3	-100.7	-58.9	-51.1	-64.7
Minus: Cash repayments of principal	43.3	71.3	81.5	108.5	162.2	148.3	127.1	117.8
Net increase in mortgage pool securities	7.2	28.0	16.7	2.1	43.5	44.4	12.1	-43.8
Miscellaneous	-10.4	-25.9	-23.8	-5.1	11.4	-17.7	11.5	-20.2
Net increase in nonmortgage loans	3.3	7.9	17.2	15.3	11.4	5.7	15.6	-5.0
Consumer loans	3.1	5.9	9.0	10.8	6.5	6.5	4.4	2.9
Commercial loans	(Z)	2.7	8.3	5.3	6.2	0.2	10.9	-1.5
Miscellaneous	0.1	-0.6	-0.1	0.8	-1.3	-0.5	0.3	-0.7
Net increase in cash and investment securities	10.8	25.2	25.1	5.7	20.9	4.4	18.5	-20.1
Net increase in other assets	2.2	13.8	20.3	13.8	7.9	8.7	8.1	-9.6
<b>Sources of funds, total</b>	<b>52.0</b>	<b>119.3</b>	<b>155.9</b>	<b>84.7</b>	<b>97.7</b>	<b>91.7</b>	<b>104.8</b>	<b>-91.9</b>
Net new deposit receipts	10.7	63.2	57.2	-4.6	3.3	-1.8	-8.4	-73.6
Net increase in borrowings	9.6	0.6	39.2	20.2	40.1	54.3	51.5	-44.8
Net increase in other liabilities <sup>1</sup>	31.0	48.3	55.7	60.4	55.7	46.2	54.8	61.0
Net increase in equity capital	0.7	7.2	3.8	8.7	5.3	-7.0	6.8	-34.5

Z Less than \$50 million. <sup>1</sup> Primarily interest credited.

### No. 819. Savings Institutions (SAIF-Insured)—Selected Financial Items and Ratios of Condition: 1970 to 1989

[As of Dec. 31 for assets, liabilities and net worth; calendar year for other items. Includes Puerto Rico, Guam, and Virgin Islands. SAIF=Savings Association Insurance Fund. Beginning 1983, includes SAIF-insured savings and loan associations which changed to SAIF-insured savings banks. Minus sign (-) indicates either loss or outflow]

ITEM	Unit	1970	1980	1983	1984	1985	1986	1987	1988	1989
<b>Assets<sup>1</sup></b>	<b>Bil. dol.</b>	<b>170.6</b>	<b>620.6</b>	<b>819.2</b>	<b>977.5</b>	<b>1,070.0</b>	<b>1,163.9</b>	<b>1,250.9</b>	<b>1,350.5</b>	<b>1,249.0</b>
Mortgage assets <sup>2</sup>	Bil. dol.	146.0	494.9	521.3	593.0	645.5	655.7	679.2	726.6	708.9
Mortgage-backed securities	Bil. dol.	(NA)	27.3	90.9	112.7	115.5	158.2	201.8	214.6	170.5
Cash and securities	Bil. dol.	15.8	57.0	109.9	136.7	143.5	164.8	169.7	187.0	166.0
<b>Liabilities<sup>1</sup></b>	<b>Bil. dol.</b>	<b>158.8</b>	<b>588.0</b>	<b>786.2</b>	<b>940.3</b>	<b>1,023.4</b>	<b>1,111.6</b>	<b>1,204.5</b>	<b>1,295.3</b>	<b>1,225.4</b>
Deposit accounts	Bil. dol.	141.7	503.2	671.1	784.5	843.9	890.7	932.6	971.7	945.7
FHLB advances	Bil. dol.	10.5	47.0	57.3	71.7	84.4	100.0	116.4	134.2	124.6
Other borrowed money	Bil. dol.	0.3	17.2	41.3	66.2	73.3	95.9	133.5	165.2	131.4
<b>Net worth</b>	<b>Bil. dol.</b>	<b>11.8</b>	<b>32.6</b>	<b>33.0</b>	<b>37.2</b>	<b>46.7</b>	<b>52.3</b>	<b>46.4</b>	<b>55.2</b>	<b>23.6</b>
<b>Net worth to total assets ratio</b>	<b>Ratio</b>	<b>6.9</b>	<b>5.2</b>	<b>4.0</b>	<b>3.8</b>	<b>4.4</b>	<b>4.5</b>	<b>3.7</b>	<b>4.1</b>	<b>1.9</b>
Operating income	Bil. dol.	10.7	56.1	81.7	101.2	110.6	110.8	107.5	113.6	(NA)
Operating expenses	Bil. dol.	1.9	7.8	12.4	15.3	19.2	22.6	24.1	23.8	(NA)
Interest expense	Bil. dol.	7.7	47.5	69.3	85.0	87.7	83.5	80.5	89.3	97.5
Net income before taxes	Bil. dol.	1.2	1.2	2.5	1.8	5.8	3.3	-5.1	-11.6	-13.4
Net income after taxes	Bil. dol.	0.9	0.8	1.9	1.0	3.7	0.1	-7.8	-13.4	-14.1
Average cost of funds	Percent.	5.30	8.94	9.83	10.03	9.19	8.06	7.20	7.49	8.26
Average effective dividend rate paid	Percent.	5.14	8.78	9.71	9.92	9.02	7.84	6.92	7.20	7.91
Average interest return on mortgages	Percent.	6.56	9.34	11.17	11.65	11.52	10.65	9.70	9.62	10.32
<b>Return on assets<sup>3</sup></b>	<b>Percent</b>	<b>0.57</b>	<b>0.14</b>	<b>0.27</b>	<b>0.12</b>	<b>0.39</b>	<b>0.02</b>	<b>-0.64</b>	<b>-1.08</b>	<b>-1.47</b>

NA Not available. <sup>1</sup> Includes other items, not shown separately. <sup>2</sup> Beginning 1983, reflects deductions from asset accounts. <sup>3</sup> Net income after taxes as a percent of average assets.

Source of tables 817-819: U.S. Office of Thrift Supervision, *Savings and Home Financing Source Book*, annual.

### No. 820. Savings Institutions (SAIF-Insured)—Deposit Accounts and Mortgage Activity: 1970 to 1989

[See headnote, table 819]

ITEM	Unit	1970	1980	1983	1984	1985	1986	1987	1988	1989
<b>DEPOSIT ACCOUNTS</b>										
Number of accounts	Millions	46.5	92.2	103.2	111.9	111.5	110.1	110.6	110.1	108.3
Average balance	Dollars	3,045	5,410	6,466	7,008	7,572	8,087	8,433	8,825	8,733
Net deposit gain <sup>1</sup>	Bil. dol.	10.8	41.0	110.2	113.9	53.0	55.1	46.4	44.0	-16.2
Net new deposits received <sup>2</sup>	Bil. dol.	5.3	10.7	63.2	57.2	-4.6	-3.3	-1.8	-8.4	-73.6
<b>MORTGAGE LOANS</b>										
Number of borrowers	Millions	10.6	15.7	15.3	15.8	15.0	14.1	13.8	13.7	12.5
Average balance	Dollars	13,728	31,311	33,764	37,510	43,168	46,359	49,967	52,999	56,556
Mortgage loans closed	Bil. dol.	20.8	85.5	151.1	161.3	196.8	265.5	253.4	240.3	189.5
Purchase of 1- to 4-family homes	Bil. dol.	12.3	60.2	83.8	95.7	107.8	175.7	173.1	159.1	133.3
Refinancing loans	Bil. dol.	1.7	10.6	31.8	31.7	(NA)	(NA)	71.6	42.4	31.0
Delinquent mortgage loans:										
Amount	Bil. dol.	(NA)	7.3	11.0	12.6	21.7	32.6	37.7	33.3	36.1
Percent of mortgage holdings	Percent	(NA)	1.48	2.11	2.12	3.36	4.97	5.56	4.58	4.92
Mortgage loans foreclosed:										
Number	1,000	(NA)	20.3	62.5	57.0	75.2	90.9	100.0	100.8	74.9
Percent of mortgages held	Percent	(NA)	0.13	0.41	0.37	0.33	0.63	0.73	0.76	0.59
Amount	Bil. dol.	0.3	0.9	4.2	6.2	8.7	13.9	19.1	18.9	18.2
Percent of mortgages held	Percent	0.22	0.19	0.71	1.11	1.41	2.15	2.90	2.70	2.50

NA Not available. <sup>1</sup> Net new deposits received plus interest credited. <sup>2</sup> New deposits received less deposits withdrawn.  
<sup>3</sup> Reported on a gross basis including refinancing and combination construction-purchase loan. <sup>4</sup> Prior to 1987, covers all mortgage loans 60 or more days delinquent. Beginning 1987, covers construction and land loans past due, permanent loans secured by 1-4 dwelling unit properties 60 or more days delinquent, and all other permanent loans past due. <sup>5</sup> Foreclosures are reported as of judgment date, even if subject to a redemption period.

### No. 821. Savings Institutions (SAIF-Insured)—Selected Financial Items, States and Other Areas: 1989

[See headnote, table 819]

DIVISION AND STATE	Mortgage loans foreclosed, percent of avg. mortgage balances <sup>1</sup>	Net income after taxes (mil. dol.)	Return on assets <sup>2</sup> (percent)	DIVISION AND STATE	Mortgage loans foreclosed, percent of avg. mortgage balances <sup>1</sup>	Net income after taxes (mil. dol.)	Return on assets <sup>2</sup> (percent)
<b>Total</b>	<b>2.50</b>	<b>-14,080</b>	<b>-1.47</b>				
<b>U.S.</b>	<b>(NA)</b>	<b>-14,083</b>	<b>(NA)</b>	<b>WV</b>	<b>1.39</b>	<b>10</b>	<b>0.48</b>
<b>N.E.</b>	<b>(NA)</b>	<b>-203</b>	<b>(NA)</b>	<b>NC</b>	<b>1.09</b>	<b>-28</b>	<b>-0.20</b>
ME	0.50	4	0.51	SC	1.09	7	0.01
NH	0.70	7	0.37	GA	1.73	-26	-0.70
VT	0.18	1	0.13	FL	2.07	-823	-1.11
MA	1.78	181	-1.80	<b>E.S.C.</b>	<b>(NA)</b>	<b>-209</b>	<b>(NA)</b>
RI	2.14	-37	-1.00	KY	0.34	47	0.62
CT	0.17	3	0.01	TN	2.97	-17	-0.14
<b>M.A.</b>	<b>(NA)</b>	<b>-2,679</b>	<b>(NA)</b>	AL	2.46	-100	-1.04
NY	0.78	-1,068	-1.85	MS	3.39	-139	-4.09
NJ	1.45	-940	-0.57	<b>W.S.C.</b>	<b>(NA)</b>	<b>-4,805</b>	<b>(NA)</b>
PA	0.60	-670	-2.69	AR	28.71	-333	-7.37
<b>E.N.C.</b>	<b>(NA)</b>	<b>270</b>	<b>(NA)</b>	LA	3.44	-339	-3.07
OH	0.75	105	0.17	OK	6.85	-59	-2.63
IN	0.44	66	0.46	TX	14.99	-4,074	-6.27
IL	0.69	-23	-0.02	<b>Mt.</b>	<b>(NA)</b>	<b>-3,265</b>	<b>(NA)</b>
MI	0.51	60	0.10	MT	1.54	7	0.65
WI	0.86	62	0.36	ID	0.82	2	0.22
<b>W.N.C.</b>	<b>(NA)</b>	<b>-971</b>	<b>(NA)</b>	WY	2.87	-7	-0.55
MN	2.79	-131	-2.00	CO	12.47	-474	-4.10
IA	2.42	-14	-0.31	NM	8.11	-248	-6.97
MO	1.85	-429	1.80	AZ	19.61	-2,332	-11.11
ND	2.75	-7	-0.16	UT	3.60	-232	-3.67
SD	0.86	-11	-0.73	NV	1.91	19	0.37
NE	2.78	-77	1.24	<b>Pac.</b>	<b>(NA)</b>	<b>-1,448</b>	<b>(NA)</b>
KS	8.29	-302	-1.94	WA	0.74	85	0.42
<b>S.A.</b>	<b>(NA)</b>	<b>-773</b>	<b>(NA)</b>	OR	1.58	376	3.46
DE	-	-1	-0.26	CA	1.03	-1,168	-0.66
MD	0.99	37	0.16	AK	14.74	-19	-13.37
DC	0.47	25	0.76	HI	0.96	30	0.44
VA	1.17	26	0.03	PR	0.75	-	0.01
				GU	-	3	2.33

- Represents or rounds to zero. NA Not available. <sup>1</sup> See footnote 5, table 820. <sup>2</sup> Net income after taxes as a percent of average assets.

Source of tables 820 and 821: U.S. Office of Thrift Supervision, *Savings and Home Financing Source Book*, annual.

**No. 822. Mortgage Debt Outstanding, by Type of Property and Holder: 1970 to 1989**[In billions of dollars. As of Dec. 31. Includes Puerto Rico and Guam. See also *Historical Statistics, Colonial Times to 1970*, series N 273 and N 276]

TYPE OF PROPERTY AND HOLDER	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Mortgage debt, total</b>	<b>474</b>	<b>1,460</b>	<b>1,567</b>	<b>1,638</b>	<b>1,825</b>	<b>2,051</b>	<b>2,303</b>	<b>2,618</b>	<b>2,977</b>	<b>3,242</b>	<b>3,520</b>
Residential nonfarm	358	1,107	1,182	1,226	1,359	1,520	1,716	1,968	2,234	2,456	2,691
1- to 4-family homes	297	965	1,040	1,080	1,199	1,334	1,501	1,720	1,960	2,169	2,389
Savings institutions	167	487	501	458	482	529	554	559	602	658	658
Mortgage pools or trusts	3	125	147	201	271	322	407	553	702	789	921
Government National Mortgage Assoc	(Z)	92	103	116	156	176	207	257	310	331	363
Federal Home Loan Mortgage Corp		15	20	43	57	70	100	167	206	220	266
Commercial banks	42	160	170	174	183	196	213	236	276	314	359
Individuals and others	36	99	119	134	140	151	176	198	202	215	244
Federal and related agencies	22	61	68	78	87	98	110	127	124	134	144
Federal National Mortgage Assoc.	15	52	56	67	73	82	92	91	90	96	103
Finance companies	1	14	17	19	21	24	29	34	40	44	49
Life insurance companies	27	18	17	17	15	14	12	13	13	16	14
5 or more units	60	142	142	146	161	185	214	248	274	287	302
Commercial	86	255	278	301	352	419	482	555	655	700	742
Farm	30	97	107	111	114	112	106	96	89	87	86
<b>TYPE OF HOLDER</b>											
Savings institutions	208	603	619	578	627	710	760	778	860	904	894
Commercial banks	73	263	284	301	331	379	429	503	591	669	757
Life insurance companies	74	131	138	142	151	157	172	194	212	233	241
Finance companies	1	14	17	19	21	24	29	34	40	44	49
Individuals and others	79	189	215	235	251	272	307	341	362	382	419
Mortgage pools or trusts	5	146	168	224	297	351	439	585	718	811	949
Government National Mortgage Assoc	(Z)	94	106	119	160	180	212	263	318	341	375
Federal Home Loan Mortgage Corp		17	20	43	58	71	100	171	213	226	273
Federal National Mortgage Association											
Farmers Home Administration	4	32	37	40	42	36	55	97	140	178	228
Federal and related agencies	34	115	126	139	148	159	167	204	193	201	212
Federal National Mortgage Association	16	57	61	72	78	88	98	98	97	103	111
Farmers Home Administration	2	3	2	2	1	1	1	48	43	42	42
Federal Land Banks	7	38	47	51	52	52	47	40	34	32	31
Federal Home Loan Mortgage Corp	(Z)	5	5	5	5	10	14	12	13	17	22
Federal Housing and Veterans Admin	4	6	6	5	5	5	5	5	6	6	6
Government National Mortgage Assoc	5	5	5	4	3	2	1	1	(Z)	(Z)	(Z)

- Represents zero. Z Less than \$500 million. <sup>1</sup> Outstanding principal balances of mortgage pools backing securities insured or guaranteed by the agency indicated. Includes private pools not shown separately. <sup>2</sup> Includes mortgage companies, real estate investment trusts, state and local retirement funds, noninsured pension funds, credit unions, and other U.S. agencies. <sup>3</sup> FmHA-guaranteed securities sold to the Federal Financing Bank were reallocated from FmHA mortgage pools to FmHA mortgage holdings in 1986 because of accounting changes by the Farmers Home Administration.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.**No. 823. Holdings of Construction, Long-Term Mortgage, and Land Loans, by Type of Loan, 1970 to 1989, and by Lender, 1989**[In billions of dollars. As of end of year. See also *Historical Statistics, Colonial Times to 1970*, series N 266, X 836, and X 911]

TYPE OF LOAN	1970	1980	1984	1985	1986	1987	1988	1989					
								Total <sup>1</sup>	Lender				
									Savings and loan assn.	Commercial banks	Life insurance companies	Federal credit agencies	Mortgage pools
<b>Mortgage credits, total</b>	<b>422</b>	<b>1,318</b>	<b>1,887</b>	<b>2,059</b>	<b>2,373</b>	<b>2,693</b>	<b>2,933</b>	<b>3,170</b>	<b>741</b>	<b>739</b>	<b>238</b>	<b>176</b>	<b>889</b>
Construction loans	18	63	146	152	173	196	203	200	43	136	1	1	-
1-4 unit family homes	5	26	39	34	36	39	43	42	18	22	-	-	-
Multifamily residential	6	14	26	28	37	42	38	38	14	18	(Z)	1	-
Nonresidential	7	22	81	90	100	115	122	120	12	96	1	-	-
Farm properties	(Z)	-	-	-	-	-	-	-	-	-	-	-	-
Long-term mortgage loans	400	1,242	1,711	1,872	2,160	2,444	2,674	2,921	677	578	237	175	889
1-4 unit family homes	267	857	1,183	1,294	1,507	1,712	1,903	2,110	512	336	12	128	858
FHA insured	62	105	155	176	221	246	268	295	5	6	2	9	247
VA guaranteed	37	91	120	127	135	139	142	145	8	3	1	3	121
Conventional	168	661	908	991	1,151	1,327	1,493	1,670	496	327	10	116	490
Multifamily	46	114	146	161	190	207	223	231	76	19	22	31	23
Nonresidential	66	205	299	338	393	466	497	534	89	206	193	5	(Z)
Farm properties	20	66	84	79	70	58	51	46	17	10	11	-	8
Land loans	4	13	29	36	40	54	56	49	21	25	1	-	-

- Represents zero. Z Less than \$500 million. <sup>1</sup> Includes other lenders not shown separately.Source: U.S. Dept. of Housing and Urban Development, *The Supply of Mortgage Credit, 1970-1979*; and monthly and quarterly press releases based on Survey of Mortgage Lending Activity.

### No. 824. Volume of Long-Term Mortgage Loans Originated, by Type of Property, 1970 to 1989, and by Lender, 1989

[In billions of dollars. Covers credit extended in primary mortgage markets for financing real estate acquisitions]

TYPE OF PROPERTY	1970	1980	1983	1984	1985	1986	1987	1988	1989, BY LENDER				
									Total <sup>1</sup>	Savings and loan	Commercial banks	Mortgage companies	Mutual savings
<b>Loans, total . . . .</b>	<b>59.8</b>	<b>197.2</b>	<b>295.6</b>	<b>319.2</b>	<b>383.3</b>	<b>662.1</b>	<b>671.6</b>	<b>610.9</b>	<b>541.4</b>	<b>155.5</b>	<b>243.3</b>	<b>71.7</b>	<b>30.1</b>
1-4 unit family home . . . .	35.6	133.7	201.9	203.7	243.0	455.1	449.5	383.6	352.0	134.5	123.2	65.6	23.2
New units . . . . .	12.6	49.1	47.4	53.7	53.6	82.8	89.5	87.2	80.8	23.4	34.1	17.5	4.3
Existing units . . . . .	23.0	84.6	154.5	150.0	189.4	372.2	360.0	296.4	271.2	111.1	89.1	48.1	18.9
Multifamily residential . . . .	8.8	12.5	21.4	27.6	31.9	49.9	45.0	38.2	31.1	11.4	7.7	4.4	2.1
New units . . . . .	7.0	8.6	8.8	11.1	10.6	15.3	14.1	9.0	8.3	1.1	2.5	0.5	0.3
Existing units . . . . .	1.8	3.9	12.6	16.5	21.3	34.6	30.9	29.2	22.8	10.3	5.2	3.9	1.8
Non-residential . . . . .	12.5	35.9	62.4	77.3	99.4	147.4	168.7	181.6	150.0	9.6	106.4	1.7	4.9
Farm properties . . . . .	3.0	15.0	9.9	10.5	9.0	9.8	8.4	7.6	8.3	-	6.0	-	(Z)

- Represents zero. Z Less than \$500 million. <sup>1</sup> Includes life insurance companies and other lenders not shown separately.

Source: U.S. Dept. of Housing and Urban Development, *Survey of Mortgage Lending Activity, 1970-1979*, and monthly and quarterly press releases based on the Survey of Mortgage Lending Activity.

### No. 825. Characteristics of Conventional First Mortgage Loans for Purchase of Single-Family Homes: 1970 to 1990

[In percent, except as indicated. Annual averages, except as indicated. Refers to loans originated directly by Savings Association Insurance Fund (formerly the Federal Savings and Loan Insurance Corporation)-insured savings institutions, mortgage bankers, commercial banks, and Federal Deposit Insurance Corporation-insured savings banks. Excludes interim construction loans, refinancing loans, junior liens, and federally underwritten loans]

LOAN CHARACTERISTICS	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990, June
<b>NEW HOMES</b>												
Contract interest rate, <sup>1</sup> all loans	8.3	12.3	14.1	14.5	12.1	11.9	11.1	9.7	8.9	8.8	9.8	9.8
Fixed-rate loans . . . . .	(NA)	(NA)	(NA)	14.4	12.3	12.5	11.9	10.0	9.5	10.0	10.2	10.2
Adjustable-rate loans <sup>2</sup> . . . .	(NA)	(NA)	(NA)	14.7	11.8	11.5	10.4	9.0	8.2	8.1	9.0	9.2
Initial fees, charges . . . . .	1.03	2.09	2.66	2.96	2.39	2.66	2.52	2.48	2.26	2.19	2.08	1.96
Effective interest rate, <sup>4</sup> all loans	8.5	12.7	14.7	15.1	12.6	12.4	11.6	10.2	9.3	9.2	10.1	10.1
Fixed-rate loans . . . . .	(NA)	(NA)	(NA)	14.9	12.7	13.0	12.4	10.5	9.9	10.4	10.6	10.6
Adjustable-rate loans . . . . .	(NA)	(NA)	(NA)	15.4	12.3	12.0	10.8	9.4	8.5	8.5	9.3	9.5
Term to maturity (years) . . . . .	25.1	28.1	27.7	27.5	26.7	27.8	27.0	26.8	27.8	28.0	28.1	26.9
Purchase price (\$1,000) . . . . .	35.5	83.2	90.3	94.1	93.9	96.8	105.0	119.8	137.2	150.5	160.1	149.8
Loan to price ratio . . . . .	71.7	73.2	74.8	76.6	77.3	78.6	77.1	75.3	75.2	75.6	74.6	76.4
Percent of number of loans with adjustable rates . . . . .	(NA)	(NA)	(NA)	41	37	59	51	27	41	62	35	42
<b>EXISTING HOMES</b>												
Contract interest rate, <sup>1</sup> all loans	8.2	12.5	14.5	14.8	12.3	12.0	11.2	9.8	8.9	9.0	9.8	9.9
Fixed-rate loans . . . . .	(NA)	(NA)	(NA)	14.8	12.6	12.7	11.9	10.1	9.5	10.1	10.2	10.2
Adjustable-rate loans <sup>2</sup> . . . .	(NA)	(NA)	(NA)	14.7	11.9	11.6	10.5	9.1	8.2	8.2	9.2	9.0
Initial fees, charges . . . . .	0.92	1.91	2.27	2.55	2.40	2.54	2.50	2.13	2.02	1.88	1.79	1.82
Effective interest rate, <sup>4</sup> all loans	8.4	12.9	15.0	15.3	12.8	12.5	11.6	10.2	9.3	9.3	10.1	10.2
Fixed-rate loans . . . . .	(NA)	(NA)	(NA)	15.4	13.0	13.2	12.4	10.5	9.9	10.4	10.5	10.6
Adjustable-rate loans . . . . .	(NA)	(NA)	(NA)	15.3	12.3	12.1	10.9	9.4	8.5	8.5	9.4	9.3
Term to maturity (years) . . . . .	22.8	26.9	25.9	24.9	25.9	26.5	25.5	25.4	26.6	27.7	27.7	27.5
Purchase price (\$1,000) . . . . .	30.0	68.3	68.5	70.7	79.3	82.2	92.7	108.5	117.7	126.6	138.4	140.2
Loan to price ratio . . . . .	71.1	73.5	72.9	71.9	74.3	76.8	75.7	73.9	75.4	76.4	75.2	75.1
Percent of number of loans with adjustable rates . . . . .	(NA)	(NA)	(NA)	39	41	64	50	31	44	57	37	30

NA Not available. <sup>1</sup> Initial interest rate paid by the borrower as specified in the loan contract. <sup>2</sup> Loans with a contractual provision for periodic adjustments in the contract interest rate. <sup>3</sup> Includes all fees, commissions, discounts and "points" paid by the borrower, or seller, in order to obtain the loan. Excludes those charges for mortgage, credit, life or property insurance; for property transfer, and for title search and insurance. <sup>4</sup> Contract interest rate plus fees and charges amortized over a ten-year period.

Source: U.S. Office of Thrift Supervision and U.S. Federal Housing Finance Board (formerly U.S. Federal Home Loan Bank Board), *Savings and Home Financing Source Book*, annual and monthly news releases.

### No. 826. Purchases and Sales of Mortgage Loans, by Lender: 1970 to 1989

[In billions of dollars. Covers all types of property]

LENDER	PURCHASES						SALES					
	1970	1980	1985	1987	1988	1989	1970	1980	1985	1987	1988	1989
<b>Total . . . . .</b>	<b>16.4</b>	<b>78.1</b>	<b>257.7</b>	<b>428.3</b>	<b>338.5</b>	<b>391.0</b>	<b>18.9</b>	<b>77.1</b>	<b>224.3</b>	<b>366.2</b>	<b>294.8</b>	<b>299.5</b>
Savings associations <sup>1</sup> . . . . .	3.7	13.2	65.0	64.6	55.5	41.6	1.0	16.1	103.2	123.6	107.0	107.3
Savings banks . . . . .	1.8	1.2	2.9	3.5	4.4	2.4	0.3	0.8	6.0	12.9	11.2	18.8
Commercial banks . . . . .	0.8	4.9	12.0	23.2	26.8	36.8	2.0	8.4	19.2	52.8	41.6	51.6
Mortgage companies . . . . .	0.1	3.4	20.9	50.1	36.3	53.7	12.5	37.0	78.0	166.5	123.1	114.8
Federal credit agencies . . . . .	5.7	16.3	33.0	25.2	31.3	31.0	2.6	10.5	8.0	7.2	6.7	4.0
Mortgage pools . . . . .	2.7	29.4	114.3	230.7	148.3	196.5	0.3	4.1	5.5	0.3	0.5	0.3
Other . . . . .	1.6	9.7	9.6	31.2	35.9	29.0	0.3	0.3	4.4	3.4	4.7	2.6

<sup>1</sup> Includes Federal savings banks insured by the Federal Savings and Loan Insurance Corporation.

Source: United States League of Savings Institutions, Washington, DC, *Savings Institutions Sourcebook*, annual. Data from U.S. Department of Housing and Urban Development.



### No. 827. Mortgage Delinquency and Foreclosure Rates and Private and Government Mortgage Insurance: 1970 to 1989

[In percent, except as indicated. Covers one- to four-family residential nonfarm mortgage loans]

ITEM	1970	1980	1983	1984	1985	1986	1987	1988	1989
Number of mortgage loans outstanding (1,000)	22,319	30,033	30,435	32,366	34,318	36,439	37,228	40,099	43,157
<b>Delinquency rates:</b>									
Total	3.13	4.97	5.59	5.67	5.83	5.56	4.97	4.79	4.83
Conventional loans	1.75	3.09	3.88	3.86	4.05	3.79	3.15	2.94	3.04
VA loans	3.03	5.34	6.09	6.40	6.63	6.57	6.22	6.23	6.47
FHA loans	3.65	6.55	7.06	7.29	7.44	7.15	6.57	6.56	6.77
<b>Foreclosure rates:</b>									
Total	0.33	0.38	0.67	0.73	0.81	0.98	1.06	0.95	0.81
Conventional loans	0.08	0.17	0.46	0.47	0.61	0.69	0.67	0.56	0.50
VA loans	0.25	0.46	0.76	0.82	0.88	1.14	1.28	1.25	1.08
FHA loans	0.47	0.53	0.84	0.98	1.01	1.22	1.44	1.40	1.16
Claims paid by private mortgage insurers <sup>3</sup> (mil. dol.)	(NA)	59	357	472	971	1,262	1,574	992	(NA)
Mortgage insurance outstanding: <sup>4</sup>									
Private (bil. dol.)	7.3	105.3	148.0	192.0	223.7	230.3	224.2	220.4	228.6
Government (bil. dol.)	97.3	195.2	248.8	265.9	288.8	328.9	367.4	414.2	(NA)

NA Not available. <sup>1</sup> Number of loans delinquent 30 days or more as percentage of mortgage loans serviced in survey. Annual average of quarterly figures. <sup>2</sup> Percentage of loans in the foreclosure process at yearend, not seasonally adjusted. <sup>3</sup> Source: Mortgage Insurance Companies of America, Washington, DC, unpublished data. <sup>4</sup> Source: United States League of Savings Institutions, Washington, DC, *Savings Institutions Sourcebook*, annual.

Source: Except as noted, Mortgage Bankers Association of America, Washington, DC, *National Delinquency Survey*, quarterly.

### No. 828 Mortgage Delinquency Rates, by Division: 1980 to 1989

[In percent. Annual average of quarterly figures. Covers one- to four-family residential nonfarm mortgage loans. Represents number of loans delinquent 30 days or more as percentage of loans serviced in survey. Excludes loans in foreclosure. For composition of divisions, see inside front cover]

YEAR	U.S. total	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Moun- tain	Pacific
1980	4.97	3.52	6.23	6.29	4.60	4.55	5.32	4.12	4.40	4.29
1985	5.83	4.22	6.31	7.18	4.96	5.11	5.98	6.54	6.10	4.96
1986	5.56	3.19	5.82	6.81	4.62	5.07	5.79	7.31	6.01	4.52
1987	4.97	2.85	5.08	5.94	3.93	4.54	5.36	7.37	5.48	3.82
1988	4.79	2.74	4.67	5.42	4.04	4.55	5.55	6.83	5.58	3.67
1989	4.83	3.13	4.85	5.32	4.18	4.61	6.24	7.14	5.35	3.31

Source: Mortgage Bankers Association of America, Washington, DC, *National Delinquency Survey*, quarterly.

### No. 829. Home Equity Loans—Insured Domestic Commercial Banks Offering Loans and Home Equity Balances, by Asset-Size of Bank: 1988 and 1989

[As of December 31]

ITEM	1988						1989					
	Total	Asset-size					Total	Asset-size				
		Less than \$100 million	\$100- \$249 million	\$250- \$999 million	\$1 billion or more			Less than \$100 million	\$100- \$249 million	\$250- \$999 million	\$1 billion or more	
Banks offering home equity loans	4,707	2,720	1,116	555	316	4,861	2,706	1,207	620	328		
Percent of all commercial banks	36	26	64	78	88	38	28	66	81	88		
Home equity debt outstanding (bil. dol.)	39.9	2.1	3.1	5.7	29.0	50.8	2.5	3.9	7.2	37.2		
All commercial banks:												
Home equity debt as percent of consumer loans plus home equity debt	10	5	9	11	11	12	6	10	12	12		
Home equity debt as percent of consumer loans plus all loans secured by homes	6	2	4	6	7	7	3	5	7	8		
Banks offering home equity loans:												
Home equity debt as percent of consumer loans plus home equity debt	12	13	12	13	12	15	15	14	15	14		
Home equity debt as percent of consumer loans plus all loans secured by homes	8	6	6	8	8	9	7	7	8	9		

Source: Board of Governors of the Federal Reserve System, *Domestic Offices, Commercial Bank Assets and Liabilities, Consolidated Report of Condition*, quarterly.

### No. 830. Consumer Credit Outstanding and Installment Credit Finance Rates: 1970 to 1990

[In billions of dollars, except percent. Estimated amounts of seasonally adjusted credit outstanding as of end of year; finance rates, annual averages. See also *Historical Statistics, Colonial Times to 1970*, series X 551-560]

TYPE OF CREDIT	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
<b>Credit outstanding</b>	<b>131.6</b>	<b>204.9</b>	<b>350.3</b>	<b>366.9</b>	<b>383.1</b>	<b>431.2</b>	<b>511.3</b>	<b>592.1</b>	<b>649.1</b>	<b>681.9</b>	<b>731.5</b>	<b>778.0</b>	(NA)
Ratio to disposable personal income <sup>1</sup> (percent)	18.3	17.9	18.3	17.2	16.9	17.8	19.2	20.9	21.5	21.3	21.0	20.6	(NA)
<b>Installment</b>	<b>103.9</b>	<b>167.0</b>	<b>298.2</b>	<b>311.3</b>	<b>325.8</b>	<b>369.0</b>	<b>442.6</b>	<b>518.3</b>	<b>573.0</b>	<b>610.5</b>	<b>664.7</b>	<b>716.6</b>	<b>739.0</b>
Automobile paper	36.3	56.9	112.0	119.0	125.9	143.6	173.6	210.2	247.4	285.9	284.6	290.8	285.3
Revolving	4.9	14.5	55.1	61.1	66.5	79.1	100.3	121.8	135.9	153.1	174.1	197.1	218.2
Mobile home paper	2.4	15.3	18.7	20.1	22.6	23.6	25.9	26.8	27.1	25.9	25.2	22.3	21.8
All other loans	60.2	80.1	112.3	111.1	110.8	122.8	142.9	159.4	162.6	165.6	180.9	206.4	213.6
Noninstallment	27.7	37.9	52.1	55.6	57.3	62.2	68.7	73.8	76.1	71.4	66.8	61.4	(NA)
<b>FINANCE RATES (percent)</b>													
<b>Commercial banks:</b>													
New automobiles (48 months) <sup>2</sup>	(NA)	11.36	14.30	16.54	16.83	13.92	13.71	12.91	11.33	10.46	10.85	12.07	11.78
Mobile homes (120 months)	(NA)	11.82	14.99	17.45	18.05	15.91	15.58	14.96	13.99	13.38	13.54	14.11	14.02
Other consumer goods (24 months)	(NA)	13.08	15.47	18.09	18.65	16.68	16.47	15.94	14.82	14.23	14.68	15.44	15.46
Credit-card plans	(NA)	17.16	17.31	17.78	18.51	18.78	18.77	18.89	18.26	17.93	17.78	18.02	18.17
<b>Finance companies:</b>													
New automobiles	(NA)	13.12	14.82	16.17	16.15	12.58	14.62	11.98	9.44	10.73	12.60	12.62	12.54
Used automobiles	(NA)	17.63	19.10	20.00	20.75	18.74	17.85	17.59	15.95	14.61	15.11	16.18	15.99

NA Not available. <sup>1</sup> Based on fourth quarter seasonally adjusted disposable personal income at annual rates as published by the U.S. Bureau of Economic Analysis in sources listed in table 708. <sup>2</sup> For 1975-1982, maturities were 36 months for new car loans and 84 months for mobile home loans.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly; *Annual Statistical Digest*, and unpublished data.

### No. 831. Delinquency Rates on Bank Installment Loans, by Type of Loan: 1970 to 1989

[In percent, except as indicated. As of end of year; seasonally adjusted, except as noted. Number of loans having an installment past due for 30 days or more as a percentage of total installment loans outstanding]

TYPE OF CREDIT	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>DELINQUENCY RATES</b>											
Closed-end installment loans, total	2.14	2.82	2.61	2.39	1.94	2.09	2.32	2.26	2.47	2.49	2.64
Personal loans <sup>1</sup>	2.39	3.53	3.20	3.04	2.84	3.16	3.83	3.11	3.66	3.34	3.52
Automobile, direct loans <sup>2</sup>	1.43	1.81	1.80	1.68	1.53	1.47	1.64	1.80	1.59	1.92	2.03
Automobile, indirect loans <sup>3</sup>	1.94	2.29	2.03	1.73	1.50	1.77	2.02	2.09	2.20	2.46	2.61
Property improvement <sup>4</sup>	1.96	1.93	1.98	1.98	2.14	2.00	1.91	1.77	1.88	2.06	2.25
Home equity and second mortgage loans <sup>5</sup>	(NA)	(NA)	(NA)	(NA)	1.94	1.77	2.08	1.85	2.01	1.86	1.85
Mobile home loans	2.59	3.14	3.37	2.69	2.44	2.56	2.39	3.04	2.57	3.12	2.51
Recreational vehicle loans	(NA)	1.94	2.05	1.88	1.58	1.87	1.84	1.92	1.99	2.07	2.24
Bank card loans	(NA)	2.72	2.53	2.38	2.08	2.81	2.95	3.15	2.83	2.19	2.24
Revolving credit loans	(NA)	2.70	2.86	2.16	1.44	1.50	1.96	1.53	2.33	2.87	2.92
Home equity lines of credit loans (open-end) <sup>5</sup>	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	0.74	0.68	0.78
<b>REPOSSESSIONS PER 1,000 LOANS OUTSTANDING</b>											
Mobile home	3.59	1.57	1.47	1.14	1.23	1.29	1.21	2.50	1.58	1.77	1.63
Automobile, direct loans <sup>2</sup>	1.52	1.10	0.99	0.90	0.70	0.72	1.11	1.15	0.86	1.03	1.03
Automobile, indirect loans <sup>3</sup>	4.88	2.75	2.40	2.13	1.56	1.58	2.08	1.95	2.04	1.86	1.70

NA Not available. <sup>1</sup> Beginning 1983, includes home appliance loans. <sup>2</sup> Made directly by bank's lending function. <sup>3</sup> Made by automobile dealerships; loans in bank's portfolio. <sup>4</sup> Beginning 1983, own plan and FHA Title I loans. <sup>5</sup> Seasonally not adjusted.

Source: American Bankers Association, Washington, DC, *Consumer Credit Delinquency Bulletin*, quarterly.

### No. 832. Credit Cards—Holders, Numbers, Spending, and Debt, 1980 and 1989, and Projections, 2000

TYPE OF CREDIT CARD	CARDHOLDERS (mil.)			NUMBER OF CARDS (mil.)			CREDIT CARD SPENDING (bil. dol.)			CREDIT CARD DEBT (bil. dol.)		
	1980	1989	2000, proj.	1980	1989	2000, proj.	1980	1989	2000, proj.	1980	1989	2000, proj.
<b>Total<sup>1</sup></b>	<b>86.1</b>	<b>109.5</b>	<b>118.3</b>	<b>526.0</b>	<b>956.9</b>	<b>1,167.0</b>	<b>201.2</b>	<b>430.3</b>	<b>893.0</b>	<b>80.2</b>	<b>206.7</b>	<b>435.7</b>
Bank	63.3	75.2	87.5	110.6	200.0	272.0	52.9	217.6	495.9	25.0	133.4	307.1
Oil company	68.5	82.1	90.2	110.0	122.0	134.0	28.9	24.0	40.6	2.2	3.0	5.1
Phone	(NA)	103.6	111.0	(NA)	109.0	124.0	(NA)	8.7	16.9	(NA)	1.0	2.2
Retail store	83.0	95.4	112.2	276.5	454.9	535.0	74.4	73.3	107.0	47.3	48.0	71.7
Travel and entertainment	10.5	22.7	34.5	10.4	27.0	41.0	21.2	83.5	182.3	2.7	9.8	27.4
Other <sup>2</sup>	13.4	8.2	9.0	18.5	44.0	61.0	23.8	23.2	50.2	3.0	11.5	22.4

NA Not available. <sup>1</sup> Cardholders may hold more than one type of card. <sup>2</sup> Includes airline, automobile rental, Discover (except for cardholders), hotel, motel, and other miscellaneous credit cards.

Source: HSN Consultants Inc., Santa Monica, CA, *The Nilson Report*, bimonthly. (Copyright used by permission.)

**No. 833. Money Stock and Liquid Assets: 1970 to 1990**

[In billions of dollars. As of December. Seasonally adjusted averages of daily figures. See *Historical Statistics, Colonial Times to 1970*, series X 410-417 for similar data]

ITEM	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
<b>M1, total</b>	<b>215</b>	<b>409</b>	<b>437</b>	<b>475</b>	<b>521</b>	<b>552</b>	<b>620</b>	<b>725</b>	<b>750</b>	<b>786</b>	<b>794</b>	<b>825</b>
Currency	49	115	123	133	146	156	168	181	197	212	222	246
Travelers checks	1	4	4	4	5	5	6	6	7	8	7	8
Demand deposits	165	261	231	234	239	244	267	302	287	286	279	277
Other checkable deposits	(2)	28	78	104	132	147	180	235	259	281	285	294
<b>M2, total</b>	<b>628</b>	<b>1,630</b>	<b>1,794</b>	<b>1,953</b>	<b>2,187</b>	<b>2,372</b>	<b>2,571</b>	<b>2,814</b>	<b>2,910</b>	<b>3,070</b>	<b>3,223</b>	<b>3,331</b>
M1	215	409	437	475	521	552	620	725	750	786	794	825
Nontransaction components in M2	414	1,221	1,357	1,479	1,665	1,819	1,951	2,090	2,160	2,284	2,430	2,505
Overnight repurchase (RP) agreements and Eurodollars	1	29	37	40	56	61	73	82	83	83	77	74
Money market funds, general purpose and broker/dealer	(2)	62	151	185	139	168	177	209	222	241	314	348
Money market deposit accounts	(2)	(2)	(2)	43	379	417	513	571	525	501	486	506
Commercial banks	(2)	(2)	(2)	26	230	267	332	378	356	350	353	378
Thrift institutions	(2)	(2)	(2)	17	149	150	182	193	169	151	133	128
Savings deposits	261	400	344	357	305	285	301	370	412	424	404	411
Commercial banks	99	186	159	164	134	123	125	156	178	192	188	199
Thrift institutions	162	214	185	193	172	162	176	214	234	232	216	211
Small time deposits	151	729	823	851	784	887	884	856	918	1,032	1,146	1,165
Commercial banks	79	286	348	380	351	387	384	366	368	448	531	598
Thrift institutions	72	442	475	471	433	500	500	490	530	584	615	567
<b>M3, total</b>	<b>677</b>	<b>1,987</b>	<b>2,234</b>	<b>2,442</b>	<b>2,693</b>	<b>2,983</b>	<b>3,202</b>	<b>3,495</b>	<b>3,677</b>	<b>3,919</b>	<b>4,055</b>	<b>4,113</b>
M2	628	1,630	1,794	1,953	2,187	2,372	2,571	2,814	2,910	3,070	3,223	3,331
Nontransaction components in M3	49	358	441	489	507	611	632	680	767	849	832	783
Large time deposits	45	260	303	327	328	417	437	440	489	542	564	507
Commercial banks	45	216	249	264	231	271	286	290	327	368	402	386
Thrift institutions	1	45	54	63	96	147	151	150	163	174	162	121
Term RP's and term Eurodollars	4	84	103	115	141	141	139	164	197	228	180	160
Money market funds, institution only	(2)	15	38	51	43	63	65	84	89	87	102	126
<b>L, total</b>	<b>816</b>	<b>2,324</b>	<b>2,597</b>	<b>2,852</b>	<b>3,155</b>	<b>3,524</b>	<b>3,829</b>	<b>4,135</b>	<b>4,337</b>	<b>4,676</b>	<b>4,890</b>	<b>4,960</b>
M3	677	1,987	2,234	2,442	2,693	2,983	3,202	3,495	3,677	3,919	4,055	4,113
Savings bonds	52	72	68	68	71	74	79	92	101	109	118	126
Short-term Treasury securities	49	133	149	184	212	261	298	281	254	271	327	328
Bankers acceptances	3	32	40	44	45	45	42	37	45	40	41	35
Commercial paper	34	99	105	114	133	161	207	231	261	337	349	359

Z Less than \$500 million. <sup>1</sup> Currency outside U.S. Treasury, Federal Reserve Banks and the vaults of depository institutions. <sup>2</sup> Outstanding amount of nonbank issuers. <sup>3</sup> At commercial banks and foreign-related institutions. <sup>4</sup> Consists of negotiable order of withdrawal (NOW) and automatic transfer service (ATS) accounts at all depository institutions, credit union share draft balances and demand deposits at thrift institutions. <sup>5</sup> This sum is seasonally adjusted as a whole. <sup>6</sup> Not seasonally adjusted. <sup>7</sup> Issued in amounts of less than \$100,000. Includes retail repurchase agreements. Excludes individual retirement accounts (IRAs) and Keogh accounts. <sup>8</sup> Issued in amounts of \$100,000 or more. Excludes those booked at international banking facilities. <sup>9</sup> Excludes those held by money market mutual funds, depository institutions and foreign banks and official institutions. <sup>10</sup> Excludes those held by depository institutions and money market mutual funds. <sup>11</sup> U.S. Treasury bills and coupons with remaining maturities of less than 12 months held by other than depository institutions, Federal Reserve banks, money market mutual funds and foreign entities. <sup>12</sup> Excludes commercial paper held by money market mutual funds.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly, and *Money Stock, Liquid Assets, and Debt Measures*, *Federal Reserve Statistical Release H.6*, weekly.

**No. 834. Selected Time Deposits and Other Accounts at Insured Commercial Banks—Deposits and Interest Rates: 1985 to 1990**

[As of December. Estimates based on data collected from a sample of about 500 banks]

TYPE OF DEPOSIT	AMOUNT OUTSTANDING (bil. dol.)						AVERAGE RATE PAID (percent)					
	1985	1986	1987	1988	1989	1990	1985	1986	1987	1988	1989	1990
NOW accounts <sup>1</sup>	44.5	164.2	174.8	190.5	196.8	209.2	5.99	5.00	4.95	4.96	5.02	4.93
Money market deposit accounts <sup>2</sup>	330.1	380.0	353.8	346.4	350.3	376.3	6.71	5.19	5.43	5.87	6.40	(NA)
Interest-bearing time deposits: <sup>3</sup>												
7-31 day	5.3	6.1	7.1	6.4	45.4	50.2	6.85	5.45	6.02	6.77	7.64	6.94
32-91 day	21.0	21.6	23.3	24.8			7.16	5.62	6.26	7.20		
92-182 day	147.8	131.5	132.4	136.3	152.8	167.6	7.50	5.70	6.75	7.84	7.83	7.19
183 day-1 year	66.1	72.2	96.8	128.0	177.4	220.8	7.77	5.93	7.14	8.19	7.86	7.33
1-2 <sup>1</sup> / <sub>2</sub> year	81.2	83.8	89.6	107.2	125.0	150.0	8.24	6.22	7.46	8.30	7.88	7.43
2 <sup>1</sup> / <sub>2</sub> year or more	115.4	120.7	121.3	133.0	129.2	138.1	8.73	6.61	7.86	8.39	7.86	7.52
All IRA and Keogh Plan deposits	59.4	73.1	83.2	94.0	109.2	131.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Retail repurchase agreements <sup>4</sup>	1.3	1.1	0.8	1.6	(NA)	(NA)	6.77	5.37	5.46	6.77	(NA)	(NA)

NA Not available. <sup>1</sup> Negotiable order of withdrawal accounts containing an agreement between depositor and depository such that some or all funds deposited are eligible to earn more than 5.25 percent. As of January 1, 1986 interest rate ceilings were removed from all NOW accounts. Beginning with the December 1986 data the NOW accounts category includes all NOW accounts, including those accounts which were subject to a 5.25 percent regulatory interest rate restriction prior to January 1, 1986. Estimates for NOW accounts beginning in December 1986 are based on reports of deposits. <sup>2</sup> Deposits with no minimum balance requirement and no required minimum maturity but institutions must reserve the right to require at least seven days' notice prior to withdrawal, no restrictions on depositor eligibility, or limitations on the amount of interest that may be paid; such accounts may allow up to six transfers per month, no more than three of which may be draft and may permit unlimited withdrawals by mail, messenger, or in person. Estimates based on reports of deposits. <sup>3</sup> All interest-bearing time deposits and open account time deposits with balances of less than \$100,000, including those held in IRAs and Keogh Plan deposits. <sup>4</sup> Retail repurchase agreements are in denominations of less than \$100,000 with maturities of less than 90 days that arise from the transfer of direct obligations of, or obligations fully-guaranteed as to principal and interest by, the U.S. Government or an agency thereof.

Source: Board of Governors of the Federal Reserve System, *Money Stock, Liquid Assets, and Debt Measures*, *Federal Reserve Statistical Release H.6*, weekly.

**No. 835. Bank Debits and Deposit Turnover: 1975 to 1989**

[Debits in trillions of dollars; turnover as ratio of debits to deposits. Annual averages of monthly data]

ITEM	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Debits to—</b>												
Demand deposits, all banks <sup>1</sup>	25.1	49.8	63.1	81.2	96.4	112.2	131.5	156.1	188.5	217.1	227.0	272.0
Major New York City banks	9.7	18.5	25.2	34.0	39.8	47.6	57.3	70.6	91.5	104.5	107.6	122.2
Other banks	15.4	31.3	37.8	47.2	56.6	64.6	74.2	85.5	97.0	112.6	119.4	149.7
ATS/NOW accounts <sup>2</sup>	(NA)	0.1	0.2	0.7	1.0	1.4	1.6	1.8	2.2	2.4	2.8	3.5
Money market deposit accounts	(NA)	(NA)	(NA)	(NA)	(NA)	0.6	0.9	1.2	1.6	2.0	2.4	2.8
Savings deposits	(NA)	0.6	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.5	0.6	0.6
<b>Deposit turnover:</b>												
All banks <sup>1</sup>	105	163	203	286	342	386	441	500	557	612	642	779
Major New York City banks	357	644	815	1,114	1,352	1,521	1,839	2,196	2,499	2,675	2,901	3,415
Other banks	73	113	135	186	225	249	278	306	321	357	377	478

NA Not available. <sup>1</sup> Represents accounts of individuals, partnerships, and corporations, and of States and political subdivisions at insured commercial banks. <sup>2</sup> Accounts authorized for negotiable orders of withdrawal (NOW) and accounts authorized for automatic transfer to demand deposits (ATS). <sup>3</sup> Excludes ATS and NOW accounts, money market deposit accounts, and special club accounts, such as Christmas and vacation clubs.

**No. 836. Federal Reserve Bank of New York—Discount Rates: 1978 to 1991**

[Percent per year. Rates for short-term adjustment credit. For rates applicable to other types of discount window credit, see source. See also *Historical Statistics, Colonial Times to 1970*, series X 454-455]

EFFECTIVE DATE	Rate	EFFECTIVE DATE	Rate	EFFECTIVE DATE	Rate	EFFECTIVE DATE	Rate
1978: Jan. 9 . . . . .	6½	1980: Feb. 15 . . . . .	13	Aug. 2 . . . . .	11	April 21 . . . . .	6½
May 11 . . . . .	7	May 30 . . . . .	12	Aug. 16 . . . . .	10½	July 11 . . . . .	6
July 3 . . . . .	7½	June 13 . . . . .	11	Aug. 27 . . . . .	10	Aug. 21 . . . . .	5½
Aug. 21 . . . . .	7½	July 28 . . . . .	10	Oct. 12 . . . . .	9½	1987: Sept. 4 . . . . .	6
Sept. 22 . . . . .	8	Sept. 26 . . . . .	11	Nov. 22 . . . . .	9	1988: Aug. 9 . . . . .	6½
Oct. 16 . . . . .	8½	Nov. 17 . . . . .	12	Dec. 15 . . . . .	8½	1989: Feb. 24 . . . . .	7
Nov. 1 . . . . .	9½	Dec. 5 . . . . .	13	1984: April 9 . . . . .	9	1990: Dec. 19 . . . . .	6½
1979: July 20 . . . . .	10	Nov. 5 . . . . .	14	Nov. 21 . . . . .	8½	1991: Feb. 1 . . . . .	6
Aug. 17 . . . . .	10½	Nov. 2 . . . . .	13	Dec. 24 . . . . .	8		
Sept. 19 . . . . .	11	Dec. 4 . . . . .	12	1985: May 20 . . . . .	7½	In effect, March 25,	
Oct. 8 . . . . .	12	1982: July 20 . . . . .	11½	1986: March 7 . . . . .	7	1991 . . . . .	6

<sup>1</sup> See table 837, footnote 5.

**No. 837. Money Market Interest Rates and Mortgage Rates: 1970 to 1990**

[Percent per year. Annual averages of monthly data, except as indicated. See also *Historical Statistics, Colonial Times to 1970*, series X 444-453]

TYPE	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Federal funds, effective rate	7.18	13.36	16.38	12.26	9.09	10.23	8.10	6.80	6.66	7.57	9.21	8.10
Commercial paper, 3-month	(NA)	12.66	15.33	11.89	8.88	10.10	7.95	6.49	6.81	7.66	8.99	8.06
Prime rate charged by banks	7.91	15.27	18.87	14.86	10.79	12.04	9.93	8.33	8.21	9.32	10.87	10.01
Eurodollar deposits, 3-month	8.52	14.00	16.79	13.12	9.57	10.75	8.27	6.70	7.07	7.85	9.16	8.16
Finance paper, 3-month <sup>2,3</sup>	7.18	11.49	14.08	11.23	8.70	9.73	7.77	6.38	6.54	7.38	8.72	7.87
Bankers acceptances, 90-day	7.31	12.72	15.32	11.89	8.90	10.14	7.92	6.39	6.74	7.56	8.87	7.93
Large negotiable CDs, 3-month, secondary market	7.56	13.07	15.91	12.27	9.07	10.37	8.05	6.52	6.86	7.73	9.09	8.15
Federal Reserve discount rate <sup>5</sup>	5½ - 6	10-13	12-14	8½ - 12	8½	8-9	7½ - 8	5½ - 7½	5½ - 6	6-6½	6½ - 7	6½ - 7
Taxable money market funds <sup>6</sup>	(NA)	12.68	16.82	12.23	8.58	10.04	7.71	6.26	6.12	7.11	8.87	7.82
Certificates of deposit (CDs): <sup>7</sup>												
6-month . . . . .	(NA)	(NA)	(NA)	(NA)	(NA)	9.99	7.83	6.51	6.47	7.18	8.34	(NA)
1-year . . . . .	(NA)	(NA)	(NA)	(NA)	(NA)	10.37	8.29	6.75	6.77	7.47	8.41	(NA)
2 1/2-year . . . . .	(NA)	(NA)	(NA)	(NA)	(NA)	10.06	10.82	9.00	7.13	7.16	7.77	8.33
5-year . . . . .	(NA)	(NA)	(NA)	(NA)	(NA)	11.25	9.66	7.60	7.66	8.11	8.30	(NA)
U.S. Government securities: <sup>8</sup>												
3-month Treasury bill . . . . .	6.39	11.43	14.03	10.61	8.61	9.52	7.48	5.98	5.77	6.67	8.11	7.50
6-month Treasury bill . . . . .	6.51	11.37	13.80	11.07	8.73	9.76	7.65	6.03	6.03	6.91	8.03	7.48
1-year Treasury bill . . . . .	6.48	10.89	13.14	11.07	8.80	9.92	7.81	6.08	6.32	7.13	7.92	7.35
Prime 1-year municipals <sup>9</sup> . . . . .	4.35	6.25	7.92	7.68	5.29	6.05	5.12	4.33	4.44	5.15	6.11	(NA)
Home mortgages:												
HUD series:												
FHA insured, secondary market . . . . .	9.03	13.44	16.31	15.31	13.11	13.82	12.24	9.91	10.16	10.49	10.24	10.17
Conventional, new-home <sup>12,13</sup> . . . . .	8.52	13.95	16.52	15.79	13.43	13.80	12.28	10.07	10.17	10.30	10.21	10.08
Conventional, existing-home <sup>12</sup> . . . . .	8.56	13.95	16.55	15.82	13.45	13.81	12.29	10.09	10.17	10.31	10.22	(NA)
Conventional, 15 yr. fixed <sup>13</sup> . . . . .	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	10.05	10.04	10.14	10.05	(NA)

NA Not available. <sup>1</sup> Based on daily offering rates of dealers. <sup>2</sup> Yields are quoted on a bank-discount basis, rather than an investment yield basis (which would give a higher figure). <sup>3</sup> Placed directly; averages of daily offering rates quoted by finance companies. <sup>4</sup> Based on the most representative daily offering rates of dealers. Beginning Aug. 15, 1974, closing rates were used, and from Jan. 1, 1981, rates of top-rated banks only. <sup>5</sup> Federal Reserve Bank of New York, low and high. The discount rates for 1980 and 1981 do not include the surcharge applied to frequent borrowings by large institutions. The surcharge reached 3 percent in 1980 and 4 percent in 1981. Surcharge was eliminated in Nov. 1981. <sup>6</sup> 12 month yield for period ending December 31. Source: The Donoghue Organization, Inc., Holliston, MA, *IBC/Donoghue's Money Fund Report*, weekly (copyright). <sup>7</sup> Annual averages. Source: Advertising News Service, Inc., North Palm Beach, FL, *Bank Rate Monitor*, weekly (copyright). <sup>8</sup> Averages based on daily closing bid yields in secondary market, bank discount basis. <sup>9</sup> Averages based on quotations for one day each month. Source: Salomon Brothers, Inc., New York, NY, *An Analytical Record of Yields and Yield Spreads*. <sup>10</sup> HUD=Housing and Urban Development. <sup>11</sup> Averages based on quotations for 1 day each month as compiled by FHA. <sup>12</sup> Primary market. <sup>13</sup> Average contract rates on new commitments.

Source of tables 835-837: Except as noted, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly, and *Annual Statistical Digest*.

**No. 838. Commercial Paper Outstanding, by Type of Company: 1970 to 1989**

[In billions of dollars. As of December 31. Seasonally adjusted. Commercial paper is an unsecured promissory note having a fixed maturity of no more than 270 days]

TYPE OF COMPANY	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>All issuers</b> . . . . .	<b>33.4</b>	<b>124.4</b>	<b>165.8</b>	<b>166.4</b>	<b>187.7</b>	<b>237.6</b>	<b>298.8</b>	<b>330.0</b>	<b>357.1</b>	<b>455.0</b>	<b>525.3</b>
Financial companies . . . . .	25.9	87.7	112.0	118.7	141.0	167.0	213.8	252.9	275.9	352.4	395.9
Dealer-placed paper . . . . .	5.5	19.9	30.4	34.7	44.8	56.5	78.4	101.1	102.0	159.9	186.4
Directly-placed paper . . . . .	20.4	67.8	81.6	84.0	96.2	110.5	135.3	151.8	173.9	192.4	209.6
Nonfinancial companies . . . . .	7.5	36.7	53.8	47.7	46.7	70.6	85.0	77.1	81.2	102.6	129.4

<sup>1</sup> Institutions engaged primarily in activities such as, but not limited to, commercial, savings, and mortgage banking; sales, personal, and mortgage financing; factoring, finance leasing, and other business lending; insurance underwriting; and other investment activities. <sup>2</sup> Includes all financial company paper sold by dealers in the open market. <sup>3</sup> As reported by financial companies that place their paper directly with investors. <sup>4</sup> Includes public utilities and firms engaged primarily in such activities as communications, construction, manufacturing, mining, wholesale and retail trade, transportation, and services.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

**No. 839. Security Prices: 1970 to 1990**

[Annual averages of monthly figures, except as noted. See also *Historical Statistics, Colonial Times to 1970*, series X 492-498]

CLASS OR ITEM	1970	1980	1983	1984	1985	1986	1987	1988	1989	1990
<b>Bond prices (dollars per \$100 bond):</b>										
Standard & Poor's: Municipal <sup>1,2</sup>	72.3	57.4	51.4	47.9	53.0	65.1	62.7	62.0	66.1	66.0
Dow Jones and Co., Inc.: . . . . .										
Yearly high . . . . .	69.7	76.6	77.8	72.9	83.7	93.7	95.5	91.3	94.2	(NA)
Yearly low . . . . .	64.4	61.0	69.4	64.8	72.3	83.7	81.3	86.9	87.4	(NA)
<b>Stock prices:</b>										
Standard & Poor's common index (500 stocks)(1941-43 = 10) <sup>4</sup>	83.2	118.7	160.4	160.5	186.8	236.3	268.8	265.9	323.1	334.6
Industrial . . . . .	91.3	134.5	180.5	181.3	207.8	262.2	330.5	306.5	392.9	(NA)
N.Y. Stock Exchange common stock index (Dec. 31, 1965 = 50): . . . . .										
Composite . . . . .	45.7	68.1	92.6	92.5	108.1	136.0	161.7	150.0	180.1	183.5
Yearly high <sup>5</sup> . . . . .	52.4	81.0	99.6	98.1	121.9	145.8	188.0	159.4	199.3	(NA)
Yearly low <sup>5</sup> . . . . .	37.7	55.3	79.8	85.1	94.6	117.8	125.9	136.7	155.0	(NA)
Industrial . . . . .	48.0	78.6	107.5	108.0	123.8	155.9	195.3	180.8	228.0	225.8
Transportation . . . . .	32.1	60.5	89.4	85.6	104.1	119.9	140.4	134.0	174.9	158.6
Utility . . . . .	37.2	37.3	47.0	46.4	56.8	71.4	74.3	72.2	94.3	90.6
Finance . . . . .	54.6	64.3	95.3	89.3	114.2	147.2	146.5	127.4	162.0	133.2
American Stock Exchange Market Value Index (Aug. 31, 1973 = 50) . . . . .	48.3	150.6	216.5	208.0	229.1	264.4	316.4	295.1	356.7	338.4
NASDAQ OTC composite <sup>6</sup> . . . . .	(NA)	202.3	278.6	247.4	324.9	348.8	330.5	381.4	454.8	(NA)
Industrial . . . . .	(NA)	261.4	323.7	260.7	330.2	349.3	338.9	379.0	448.0	(NA)
Insurance . . . . .	(NA)	166.8	257.6	283.1	382.1	404.1	351.1	429.1	546.0	(NA)
Banks . . . . .	(NA)	118.4	203.8	229.8	349.4	412.5	390.7	435.3	391.0	(NA)
Dow Jones and Co., Inc.: . . . . .										
Composite (65 stocks) <sup>1,7</sup> . . . . .	243.9	328.2	472.2	463.1	541.6	702.5	849.5	772.2	966.9	965.2
Industrial (30 stocks) . . . . .	753.2	891.4	1,190.3	1,178.5	1,328.2	1,792.8	2,276.0	2,060.8	2,508.9	2,678.9
Transportation (20 stocks) . . . . .	152.4	307.2	544.6	513.8	645.1	785.4	929.2	863.8	1,194.3	1,040.2
Utility (15 stocks) . . . . .	108.8	110.4	130.0	131.8	157.6	195.2	201.7	179.7	205.7	211.5
Wilshire 5000 equity index (Dec. 31, 1980 = 1404.596) <sup>8</sup> . . . . .	<sup>9</sup> 830.3	1,220.7	1,691.5	1,644.6	1,923.8	2,418.8	2,843.7	2,636.9	3,172.6	(NA)
Standard & Poor's:										
Dividend-price ratio (percent) . . . . .	3.83	5.26	4.40	4.64	4.25	3.48	3.08	3.64	3.45	3.61
Earnings-price ratio (percent) . . . . .	6.45	12.66	8.02	10.02	8.12	6.09	5.48	8.00	7.41	(NA)

NA Not available. <sup>1</sup> Source: U.S. Bureau of Economic Analysis. <sup>2</sup> Derived from average yields on basis of assumed 4 percent, 20-year bond; Wednesday closing prices. <sup>3</sup> Source: Dow Jones and Co., Inc., New York, NY. Effective June 30, 1976, the Dow Jones averages of 20 income railroad bonds were discontinued. With the dropping of the rail averages, which had been part of the Dow-Jones 40-bond average, the 40-bond average became a 20-bond average consisting of 10 utility bonds and 10 industrial bonds. <sup>4</sup> Effective July 1976, the index includes 400 industrial stocks (formerly 425), 20 transportation (formerly 15 rail), 40 public utility (formerly 60), and 40 financial stocks, not previously covered. <sup>5</sup> Source: New York Stock Exchange, Inc., New York, NY, *Fact Book*, annual. <sup>6</sup> Source: National Association of Securities Dealers, Washington, DC, *Fact Book*, annual. OTC = over-the-counter. December monthly closing values. <sup>7</sup> Based on stocks listed on the New York Stock Exchange. <sup>8</sup> Represents return on the market value of all common equity securities for which daily pricing is available. Beginning 1980, annual average of daily figures. Source: Wilshire Associates, Santa Monica, CA, releases. <sup>9</sup> Represents Dec. 31, 1970.

Source: Except as noted, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly and unpublished data.

## No. 840. Bond and Stock Yields: 1970 to 1990

[Percent per year. Annual averages of monthly data, except as indicated. See also *Historical Statistics, Colonial Times to 1970*, series X 474-491]

TYPE	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990
U.S. Treasury, constant maturities: <sup>1 2</sup>											
3-year	7.29	11.55	12.92	10.45	11.89	9.64	7.06	7.68	8.26	8.55	8.26
5-year	7.38	11.48	13.01	10.80	12.24	10.13	7.31	7.94	8.48	8.50	8.37
10-year	7.35	11.46	13.00	11.11	12.44	10.62	7.68	8.39	8.85	8.49	8.55
U.S. Govt., long-term bonds <sup>2 3</sup>	6.58	10.81	12.23	10.84	11.99	10.75	8.14	8.64	8.98	8.58	8.74
State and local govt. bonds, Aaa	6.12	7.86	10.86	8.80	9.61	8.60	6.95	7.12	7.36	7.00	(NA)
State and local govt. bonds, Baa	6.75	9.02	12.46	10.17	10.38	9.58	7.75	8.17	7.84	7.40	(NA)
High-graded municipal bonds (Standard & Poor's) <sup>5</sup>	6.51	8.51	11.57	9.47	10.15	9.18	7.38	7.73	7.74	7.24	7.25
Municipal (Bond Buyer, 20 bonds)	6.35	8.59	11.66	9.51	10.10	9.11	7.32	7.63	7.68	7.23	7.27
Corporate Aaa seasoned <sup>4</sup>	8.04	11.94	13.79	12.04	12.71	11.37	9.02	9.38	9.71	9.26	9.32
Corporate Baa seasoned <sup>4</sup>	9.11	13.67	16.11	13.55	14.19	12.72	10.39	10.58	10.83	10.18	10.36
Corporate, by years to maturity: <sup>6</sup>											
AA Industrial, 10 years	(NA)	12.05	13.98	11.06	12.91	11.11	8.35	8.91	9.40	9.26	(NA)
AAA Utilities, 30 years	8.72	12.57	14.95	12.21	13.46	11.79	9.15	9.40	9.75	9.39	(NA)
A Utilities, 30 years	9.17	13.68	15.84	12.82	13.87	12.20	9.63	9.89	10.19	9.89	(NA)
Corporate (Moody's) <sup>4</sup>	8.51	12.75	14.94	12.78	13.49	12.05	9.71	9.91	10.18	9.66	9.77
Industrials (49 bonds) <sup>8</sup>	8.26	12.35	14.54	12.25	13.21	11.80	9.96	9.83	9.91	9.66	9.77
Railroads (13 bonds) <sup>9</sup>	8.77	11.48	13.68	12.08	13.07	11.94	9.85	9.63	10.03	(NA)	(NA)
Public utilities (51 bonds) <sup>10</sup>	8.68	13.15	15.33	13.31	14.03	12.29	9.46	9.98	10.45	9.66	9.76
Stocks (Standard & Poor's): <sup>5</sup>											
Preferred (10 stocks) <sup>11</sup>	7.22	10.60	12.53	11.02	11.59	10.49	8.76	8.37	9.23	9.04	8.96
Common: Composite (500 stocks)	3.83	5.26	5.81	4.40	4.64	4.25	3.48	3.08	3.64	3.45	3.61
Industrials (400 stocks)	3.62	4.95	5.48	4.04	4.05	3.76	3.09	2.62	3.14	3.01	3.16

NA Not available. <sup>1</sup> Yields on the more actively traded issues adjusted to constant maturities by the U.S. Treasury. <sup>2</sup> Yields are based on closing bid prices quoted by at least five dealers. <sup>3</sup> Averages (to maturity or call) for all outstanding bonds neither due nor callable in less than 10 years, including several very low yielding "flower" bonds. <sup>4</sup> Source: Moody's Investors Service, New York, NY. <sup>5</sup> Source: Standard & Poor's Corp., New York, NY. <sup>6</sup> *Standard & Poor's Outlook*, weekly. <sup>7</sup> Based on first trading day of each month, deferred call, new issue estimate. Source: Salomon Brothers, Inc., New York, NY. <sup>8</sup> *An Analytical Record of Yields and Yield Spreads*. <sup>9</sup> The Aaa public utility average was suspended on Jan. 17, 1984 because of a lack of appropriate issues. The average corporate does not include Aaa utilities from Jan. 17 to Oct. 12. The Aaa utility average was reinstated on Oct. 12. Thirty public utility bonds were used during the period Jan. 17-Oct. 12, 1984. <sup>10</sup> Covers 40 bonds for period 1970-1983, 38 bonds for 1984-1986, and 37 bonds for 1987 and 1988. <sup>11</sup> Covers 23 bonds for period 1970-1981, 15 bonds for 1982, and 17 bonds for 1983. Beginning 1989 there was not an acceptable number of issues to continue a yield average. <sup>12</sup> Covers 40 bonds for period 1970-1988. <sup>13</sup> Yields based on 10 stocks, 4 yields. Issues converted to a price equivalent to \$100 par and a 7 percent annual dividend before averaging.

Source: Except as noted, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

## No. 841. Sales of Stocks and Options on Registered Exchanges: 1970 to 1989

[Excludes over-the-counter trading. See also *Historical Statistics, Colonial Times to 1970*, series X 517-530]

EXCHANGE	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>Market value of all sales, all exchanges <sup>1 2</sup></b>	Bil. dol	136	522	657	1,023	1,004	1,260	1,868	2,492	1,702	2,004
New York	Bil. dol	108	398	515	816	815	1,024	1,453	1,987	1,380	1,581
American	Bil. dol	15	47	34	48	32	38	63	102	59	80
Midwest	Bil. dol	5	21	35	60	62	79	102	122	87	101
Chicago	Bil. dol		28	32	39	35	38	56	124	64	86
Pacific	Bil. dol	5	13	21	31	31	40	55	71	49	64
Philadelphia	Bil. dol	3	11	14	20	19	23	35	48	34	50
<b>STOCKS <sup>3</sup></b>											
Shares sold, all exchanges <sup>2</sup>	Million	4,539	15,488	22,414	30,146	30,456	37,046	48,338	63,771	52,533	54,239
New York	Million	3,213	12,390	18,211	24,253	25,150	30,222	39,258	53,038	44,018	44,140
American	Million	879	1,659	1,550	2,209	1,584	2,115	2,999	3,496	2,576	3,248
Midwest	Million	149	598	1,144	1,862	1,843	2,274	2,784	3,329	2,771	2,960
Pacific	Million	165	435	810	1,070	1,006	1,352	1,750	2,034	1,576	1,791
Market value, all exchanges <sup>2</sup>	Bil. dol	131	476	603	957	951	1,200	1,705	2,284	1,587	1,845
New York	Bil. dol	103	398	514	815	814	1,023	1,450	1,983	1,378	1,577
American	Bil. dol	14	35	20	31	21	26	43	53	31	43
Midwest	Bil. dol	5	21	35	60	62	79	102	122	87	101
Pacific	Bil. dol	5	11	18	27	28	37	51	57	41	52
<b>OPTIONS <sup>4</sup></b>											
Contracts traded, all exchanges <sup>2</sup>	Million	(NA)	97	137	149	197	233	289	305	196	227
Chicago	Million	(NA)	53	76	82	123	149	180	182	112	127
American	Million	(NA)	29	39	39	40	49	65	71	45	50
Market value of contracts traded, all exchanges <sup>2</sup>	Bil. dol	(NA)	45.8	53.7	64.2	53.0	59.1	87.9	118.9	62.6	76.8
Chicago	Bil. dol	(NA)	27.9	32.3	39.4	34.9	38.4	55.9	76.9	39.7	47.3
American	Bil. dol	(NA)	12.5	14.3	15.8	10.5	11.6	19.0	25.7	12.4	15.1
Options exercised:											
Number of contracts	Million	(NA)	4.9	9.2	13.6	11.9	10.5	14.5	17.0	11.4	14.6
Value	Bil. dol	(NA)	20.4	37.1	65.1	55.6	49.2	72.8	85.9	51.5	79.5

<sup>1</sup> Represents zero. NA Not available. <sup>2</sup> Includes market value of rights and warrants and, for 1970, bond sales. Excludes the value of options exercised. <sup>3</sup> Includes other registered exchanges, not shown separately. <sup>4</sup> Includes voting trust certificates, American Depositary Receipts, and certificate of deposit for stocks. <sup>5</sup> Includes non-equity options as of October 1982.

Source: U.S. Securities and Exchange Commission, *SEC Monthly Statistical Review* (discontinued Feb. 1989) and unpublished data.

### No. 842. Foreign Purchases and Sales of U.S. Securities, by Type of Security, 1980 to 1989, and by Selected Country, 1988 and 1989

[In billions of dollars. Covers transactions in all types of long-term domestic and foreign securities by foreigners as reported by banks, brokers, and other entities in the United States (except non-marketable U.S. Treasury U.S. Treasury bonds and notes, foreign currency series). Data cover new issues of securities and redemptions of securities. Includes transactions executed in the U.S. for the account abroad for the account of reporting institutions and their domestic customers. Data by country show the country of domicile of the foreign buyers and sellers of the securities; in the case of outstanding issues, this may differ from the country of the original issuer. The term "foreigner" covers all institutions and individuals domiciled outside the U.S., including U.S. citizens domiciled abroad, and the foreign branches, subsidiaries and other affiliates abroad of U.S. banks and businesses; the central governments, central banks, and other official institutions of foreign countries; and international and regional organizations. "Foreigner" also includes persons in the U.S. to the extent that they are known by reporting institutions to be acting on behalf of foreigners. Minus sign (-) indicates net sales by foreigners or a net outflow of capital from the U.S.]

YEAR AND COUNTRY	NET PURCHASES					TOTAL TRANSACTIONS <sup>4</sup>				
	Total	Treasury bonds and notes <sup>1</sup>	U.S. Govt. corporations bonds	Corporate bonds <sup>3</sup>	Corporate stocks	Total	Treasury bonds and notes <sup>1</sup>	U.S. Govt. corporations bonds <sup>2</sup>	Corporate bonds <sup>3</sup>	Corporate stocks
1980	15.8	4.9	2.6	2.9	5.4	198.0	97.4	16.9	8.5	75.2
1984	31.4	21.5	1.2	11.7	-3.0	639.5	451.2	32.5	33.2	122.6
1985	78.3	29.2	4.3	39.8	4.9	1,256.1	968.0	45.6	83.5	159.0
1986	88.8	19.4	7.0	43.7	18.7	2,622.5	2,149.3	67.2	128.5	277.5
1987	69.4	25.6	5.0	22.5	16.3	3,315.4	2,649.3	80.6	103.6	482.0
<b>1988, total <sup>5</sup></b>	<b>74.8</b>	<b>48.8</b>	<b>6.7</b>	<b>21.2</b>	<b>-2.0</b>	<b>3,581.1</b>	<b>3,071.9</b>	<b>58.1</b>	<b>88.7</b>	<b>364.4</b>
United Kingdom	21.8	9.6	1.2	11.9	-1.0	925.6	799.9	16.3	36.0	73.4
Japan	31.4	21.8	2.8	4.9	1.9	1,372.8	1,223.6	23.5	21.2	104.6
Canada	5.6	3.8	0.3	0.4	1.1	149.4	110.3	1.1	4.0	33.9
West Germany	-3.7	-5.3	0.4	1.0	0.2	96.7	80.2	1.5	4.1	11.0
Switzerland	-2.8	-1.1	0.2	0.3	-2.2	63.8	24.8	0.4	3.7	34.9
Singapore	-0.6	0.4	0.1	(Z)	-0.3	63.2	59.9	0.5	0.1	2.6
<b>1989, total <sup>5</sup></b>	<b>98.3</b>	<b>54.6</b>	<b>15.1</b>	<b>18.9</b>	<b>9.6</b>	<b>4,777.5</b>	<b>4,153.7</b>	<b>87.8</b>	<b>119.2</b>	<b>416.7</b>
United Kingdom	42.4	20.2	5.2	13.2	3.7	1,278.3	1,110.1	21.7	49.9	96.6
Japan	12.1	2.4	5.7	0.6	3.3	2,035.4	1,913.2	35.5	25.9	60.9
Canada	1.0	0.7	0.3	0.8	-0.8	167.5	117.0	1.2	3.9	45.5
West Germany	6.8	7.9	-0.2	(Z)	-0.8	77.7	57.3	1.0	3.7	15.8
Sweden	1.5	0.9	(Z)	0.1	0.5	118.5	116.8	(Z)	0.2	1.5
Singapore	3.8	3.2	0.4	0.1	(Z)	97.7	94.0	1.0	0.4	2.3

Z Less than \$50 million. <sup>1</sup> Marketable bonds and notes. <sup>2</sup> Includes federally-sponsored agencies. <sup>3</sup> Includes transactions in directly placed issues abroad by U.S. corporations and issues of States and municipalities. <sup>4</sup> Total purchases plus total sales. <sup>5</sup> Includes other countries, not shown separately.

### No. 843. United States Purchases and Sales of Foreign Stocks and Bonds, 1980 to 1989, and by Selected Country, 1988 and 1989

[In billions of dollars. See headnote, table 842. Minus sign (-) indicates net sales by U.S. investors or a net inflow of capital into the United States]

YEAR AND COUNTRY	NET PURCHASES			TOTAL TRANSACTIONS <sup>1</sup>			PURCHASES		SALES	
	Total	Bonds	Stocks	Total	Bonds	Stocks	Bonds	Stocks	Bonds	Stocks
1980	3.1	1.0	2.1	53.1	35.2	17.9	18.1	10.0	17.1	7.9
1984	5.0	3.9	1.1	146.7	116.0	30.7	59.9	15.9	56.0	14.8
1985	7.9	4.0	3.9	212.1	166.4	45.7	85.2	24.8	81.2	20.9
1986	5.5	3.7	1.9	437.8	337.7	100.2	170.7	51.0	167.0	49.1
1987	6.9	7.9	1.1	596.0	406.1	189.8	207.0	94.4	199.1	95.5
<b>1988, total <sup>2</sup></b>	<b>9.4</b>	<b>7.4</b>	<b>2.0</b>	<b>597.1</b>	<b>444.5</b>	<b>152.7</b>	<b>226.0</b>	<b>77.3</b>	<b>218.5</b>	<b>75.4</b>
United Kingdom	6.6	6.2	0.4	229.2	177.9	51.3	92.0	25.9	85.8	25.5
Japan	(Z)	-0.7	0.7	122.8	71.5	51.3	35.4	26.0	36.1	25.3
Canada	3.7	4.2	-0.5	46.9	37.2	9.7	20.7	4.6	16.5	5.1
West Germany	1.2	-1.5	0.3	34.8	30.2	4.6	14.4	2.4	15.8	2.2
Switzerland	-0.5	-1.1	0.5	16.2	10.9	5.3	4.9	2.9	6.0	2.4
France	0.8	0.4	0.5	25.9	21.8	4.1	11.1	2.3	10.7	1.8
<b>1989, total <sup>2</sup></b>	<b>18.9</b>	<b>6.0</b>	<b>12.8</b>	<b>708.9</b>	<b>474.5</b>	<b>232.4</b>	<b>240.3</b>	<b>122.6</b>	<b>234.2</b>	<b>109.8</b>
United Kingdom	13.8	8.7	5.0	258.4	178.0	80.4	93.4	42.7	84.6	37.7
Japan	1.8	-2.8	1.0	154.6	87.9	66.7	42.6	33.8	45.3	32.8
Canada	4.2	2.9	1.3	75.0	64.1	10.9	33.5	6.1	30.6	4.8
West Germany	-2.3	2.7	0.4	35.4	28.3	7.1	12.8	3.8	15.5	3.4
Switzerland	2.5	0.5	2.0	15.4	6.9	8.5	3.7	5.3	3.2	3.3
France	2.4	0.5	1.9	30.7	22.7	8.0	11.6	5.0	11.1	3.0

Z Less than \$50 million. <sup>1</sup> Total purchases plus total sales. <sup>2</sup> Includes other countries, not shown separately.

Source of tables 842 and 843: U.S. Dept. of Treasury, *Treasury Bulletin*, quarterly.

### No. 844. New Security Issues of Corporations, by Type of Offering and Industry Group: 1982 to 1989

[In billions of dollars. Represents gross proceeds of issues maturing in more than one year. Figures are the principal amount or the number of units multiplied by the offering price. Excludes secondary offerings, employee stock plans, investment companies other than closed-end, intracorporate transactions, equities sold abroad, and Yankee bonds. Stock data include ownership securities issued by limited partnerships]

TYPE OF OFFERING AND INDUSTRY GROUP	1982	1985	1986	1987	1988	1989	TYPE OF OFFERING AND INDUSTRY GROUP	1982	1985	1986	1987	1988	1989
<b>Total</b> . . . . .	<b>87.5</b>	<b>239.2</b>	<b>424.8</b>	<b>392.6</b>	<b>410.3</b>	<b>375.3</b>	<b>Stocks, total</b> . . . . .	<b>30.6</b>	<b>35.5</b>	<b>68.4</b>	<b>66.5</b>	<b>57.8</b>	<b>57.9</b>
Bonds, total . . . . .	56.9	203.7	356.3	326.1	352.5	317.4	Preferred . . . . .	5.1	6.5	11.5	10.1	6.5	6.2
Public, domestic . . . . .	47.1	119.7	232.8	209.7	201.6	180.0	Common . . . . .	25.4	29.0	50.3	43.2	35.9	26.0
Private placement, domestic . . . . .	9.8	46.2	80.8	92.1	127.7	114.6	Private placement . . . . .	(NA)	(NA)	6.6	13.2	15.3	25.6
Sold abroad . . . . .	(NA)	37.8	42.8	24.3	23.2	22.8							
Manufacturing . . . . .	15.5	63.6	90.8	60.9	70.5	76.3	Manufacturing . . . . .	5.6	5.7	15.0	13.9	7.6	9.3
Commercial and miscellaneous . . . . .	5.4	17.2	41.9	49.8	62.0	49.2	Commercial and miscellaneous . . . . .	7.8	9.1	10.6	12.9	8.4	7.6
Transportation . . . . .	1.5	6.0	10.2	12.0	10.1	10.1	Transportation . . . . .	0.7	1.5	2.4	2.4	1.5	1.9
Public utility . . . . .	12.3	13.6	31.1	23.0	19.3	16.8	Public utility . . . . .	7.5	2.0	4.0	4.3	1.9	3.1
Communication . . . . .	2.4	10.9	16.4	7.3	6.0	8.5	Communication . . . . .	2.2	1.0	1.8	1.5	0.5	1.9
Real estate and financial . . . . .	19.7	92.3	165.9	173.1	184.7	156.6	Real estate and financial . . . . .	6.7	16.2	34.5	31.5	37.8	34.0

NA Not available.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly, and *Annual Statistical Digest*.

### No. 845. Volume of Trading on New York Stock Exchange: 1970 to 1989

[Round lot: A unit of trading or a multiple thereof. On the NYSE the unit of trading is generally 100 shares in stocks. For some inactive stocks, the unit of trading is 10 shares. Odd lot: An amount of stock less than the established 100-share unit or 10-share unit of trading]

ITEM	Unit	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Shares traded</b> . . . . .	<b>Million</b>	<b>3,124</b>	<b>11,562</b>	<b>12,049</b>	<b>16,669</b>	<b>21,846</b>	<b>23,309</b>	<b>27,774</b>	<b>36,009</b>	<b>48,143</b>	<b>41,118</b>	<b>42,022</b>
Round lots . . . . .	Million	2,937	11,352	11,854	16,458	21,590	23,071	27,511	35,680	47,801	40,850	41,699
Average daily shares . . . . .	Million	11.6	44.9	46.9	65.1	85.3	91.2	109.2	141.0	189.0	161.5	165.5
High day . . . . .	Million	21.3	84.3	92.9	149.4	129.4	236.6	181.0	244.3	608.1	343.9	416.4
Low day . . . . .	Million	6.7	16.1	23.9	36.8	53.0	46.4	62.1	48.9	86.7	72.1	68.9
By size: <sup>1</sup>												
100-900 shares <sup>2</sup> . . . . .	Percent	(NA)	24.7	21.1	16.2	14.6	11.3	10.6	10.8	13.6	12.6	13.4
1,000-4,900 shares <sup>3</sup> . . . . .	Percent	(NA)	32.2	31.0	28.5	26.7	25.1	24.1	25.7	21.1	19.8	20.7
5,000-9,900 shares . . . . .	Percent	(NA)	11.4	12.1	12.8	12.7	13.8	13.8	13.9	65.3	67.6	65.9
10,000 or more shares <sup>4</sup> . . . . .	Percent	(NA)	31.7	35.8	42.5	46.0	49.8	51.5	49.6			
Odd lots . . . . .	Million	186	209	196	211	256	238	263	329	342	268	324
<b>Value of shares traded</b> . . . . .	<b>Bil. dol.</b>	<b>103</b>	<b>382</b>	<b>396</b>	<b>495</b>	<b>775</b>	<b>773</b>	<b>981</b>	<b>1,389</b>	<b>1,889</b>	<b>1,366</b>	<b>1,556</b>
Round lots . . . . .	Bil. dol.	95	375	389	488	765	765	971	1,374	1,874	1,356	1,543
Odd lots . . . . .	Bil. dol.	7	8	7	7	10	9	10	15	15	10	13
<b>Bond volume</b> <sup>5</sup> . . . . .	<b>Mil. dol.</b>	<b>4,495</b>	<b>5,390</b>	<b>5,733</b>	<b>7,155</b>	<b>7,572</b>	<b>6,982</b>	<b>9,046</b>	<b>10,464</b>	<b>9,727</b>	<b>7,702</b>	<b>8,836</b>
Daily average . . . . .	Mil. dol.	17.7	20.5	22.7	28.3	29.9	27.6	35.9	41.4	38.4	30.4	35.1

NA Not available. <sup>1</sup> Share volume of reported trades by size (percent of total) on New York Stock Exchange. <sup>2</sup> Beginning 1988, at 100-1,000 shares. <sup>3</sup> Beginning 1988, at 1,100-4,900 shares. <sup>4</sup> Includes bunched orders at the opening and re-opening of trading. <sup>5</sup> Par value.

Source: New York Stock Exchange, Inc., New York, NY, *Fact Book*, annual.

### No. 846. NASDAQ—Securities Listed and Volume of Trading: 1980 to 1989

ITEM	Unit	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Companies listed . . . . .	Number	2,894	3,353	3,264	3,901	4,097	4,136	4,417	4,706	4,451	4,293
Issues . . . . .	Number	3,050	3,687	3,664	4,467	4,728	4,784	5,189	5,537	5,144	4,963
Shares traded . . . . .	Million	6,692	7,823	8,432	15,909	15,159	20,699	28,737	37,890	31,070	33,530
Average daily volume . . . . .	Million	26.5	30.9	33.3	82.9	59.9	82.1	113.6	149.8	122.8	133.1
Value of shares traded . . . . .	Bil. dol.	68.7	71.1	84.2	186.3	153.5	233.5	378.2	499.9	347.1	431.4

Source: National Association of Securities Dealers, Washington, DC, *Fact Book*, annual.



**No. 847. Securities Listed on N.Y. Stock Exchange: 1970 to 1989**

[As of December 31, except cash dividends are for calendar year]

ITEM	Unit	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Bonds:</b>												
Number of issuers	Number	843	1,045	1,049	1,031	1,034	1,024	1,010	951	885	846	794
Number of issues	Number	1,729	3,057	3,110	3,233	3,600	3,751	3,856	3,611	3,346	3,106	2,961
Face value	Bil. dol.	135	602	681	793	965	1,084	1,327	1,380	1,651	1,610	1,435
Market value	Bil. dol.	113	508	574	768	898	1,022	1,339	1,458	1,621	1,561	1,412
Average price	Percent	83.60	84.41	84.24	96.67	93.04	94.29	100.90	105.66	98.20	96.94	98.42
<b>Stocks:</b>												
Companies	Number	1,351	1,570	1,565	1,526	1,550	1,543	1,541	1,575	1,647	1,681	1,720
Number of issues	Number	1,840	2,228	2,220	2,225	2,307	2,319	2,298	2,257	2,244	2,234	2,246
Shares listed	Billion	16.1	33.7	38.3	39.5	45.1	49.1	52.4	59.6	72.0	76.1	83.0
Market value	Bil. dol.	636	1,243	1,144	1,305	1,584	1,586	1,950	2,199	2,216	2,457	3,030
Average price	Dollars	39.61	36.87	29.87	33.03	35.11	32.31	37.20	36.89	30.87	32.30	36.50
Cash dividends on common stock	Bil. dol.	19.8	53.1	60.6	62.2	67.1	68.2	74.2	76.2	84.4	102.2	101.8

Source: New York Stock Exchange, Inc., New York, NY, *Fact Book*, annual.**No. 848. Commodity Futures Trading on U.S. Exchanges—Volume of Trading: 1970 to 1989**

[In millions. 1970 for year ending June 30; thereafter, for years ending Sept. 30]

COMMODITY	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Number of contracts traded</b>	<b>12.4</b>	<b>82.7</b>	<b>101.1</b>	<b>107.6</b>	<b>136.1</b>	<b>148.8</b>	<b>152.8</b>	<b>183.1</b>	<b>213.5</b>	<b>241.8</b>	<b>267.7</b>
Grain	2.2	18.3	19.8	14.9	17.8	15.9	10.7	10.3	10.9	15.9	15.9
Oilseeds/products	3.7	15.7	20.3	15.8	19.8	23.5	14.9	13.8	14.2	22.5	21.1
Livestock/products	3.4	11.8	9.8	11.0	11.1	8.4	7.9	8.6	8.8	9.6	8.2
Other agriculturals	2.0	7.8	4.6	4.9	6.3	6.0	5.1	6.7	5.7	9.8	10.7
Energy products	-	1.1	3.3	2.3	3.2	4.9	7.0	11.5	20.3	26.3	31.3
Metals	1.1	14.1	17.9	19.3	26.3	22.4	18.4	16.2	19.4	18.9	17.9
Financial instruments	-	10.2	20.1	31.3	40.2	51.0	72.1	96.9	114.3	117.6	136.7
Currencies	-	3.7	5.4	8.3	11.4	16.7	16.4	19.1	19.9	21.2	25.7

- Represents zero.

Source: U.S. Commodity Futures Trading Commission, *Annual Report*.**No. 849. Mutual Funds—Summary: 1970 to 1989**[See also *Historical Statistics, Colonial Times to 1970*, series X 536-539]

TYPE OF FUND	Unit	1970	1980	1983	1984	1985	1986	1987	1988	1989
<b>Number of funds, total</b>	<b>Number</b>	<b>361</b>	<b>564</b>	<b>1,026</b>	<b>1,246</b>	<b>1,531</b>	<b>1,843</b>	<b>2,323</b>	<b>2,718</b>	<b>2,918</b>
Money market funds	Number	(X)	96	307	329	348	360	389	432	463
Equity funds	Number	294	267	374	466	574	700	847	1,015	1,081
Income and bond funds	Number	67	149	201	240	323	409	565	681	735
Municipal bond funds	Number	(X)	42	78	114	174	247	368	415	438
Short-term municipal bond funds <sup>1</sup>	Number	(X)	10	66	97	112	127	154	175	201
<b>Shareholder accounts, total</b>	<b>Millions</b>	<b>(NA)</b>	<b>12.1</b>	<b>24.6</b>	<b>28.2</b>	<b>35.0</b>	<b>46.1</b>	<b>54.7</b>	<b>54.6</b>	<b>58.3</b>
Equity, bond, and income funds	Millions	(NA)	7.3	12.1	14.4	20.0	29.8	37.0	36.2	37.0
Money market funds and short-term municipal bond funds <sup>1</sup>	Millions	(NA)	4.8	12.5	13.8	15.0	16.3	17.7	18.6	21.3
<b>Assets, total</b>	<b>Bil. dol.</b>	<b>47.6</b>	<b>134.7</b>	<b>292.9</b>	<b>370.7</b>	<b>495.5</b>	<b>716.3</b>	<b>769.9</b>	<b>810.2</b>	<b>982.0</b>
Money market funds	Bil. dol.	(X)	74.4	162.5	209.7	207.5	228.3	254.7	272.3	358.7
Equity funds	Bil. dol.	45.1	44.4	77.0	83.1	116.9	161.5	180.6	194.8	249.1
Income and bond funds	Bil. dol.	2.5	11.1	22.0	33.3	95.4	187.0	196.2	190.8	199.2
Municipal bond funds	Bil. dol.	(X)	2.9	14.6	20.8	39.4	75.7	77.0	86.7	105.7
Short-term municipal bond funds <sup>1</sup>	Bil. dol.	(X)	1.9	16.8	23.8	36.3	63.8	61.4	65.6	69.3
<b>Sales, total</b>	<b>Bil. dol.</b>	<b>4.6</b>	<b>247.5</b>	<b>547.8</b>	<b>680.1</b>	<b>953.8</b>	<b>1,205.7</b>	<b>1,251.6</b>	<b>1,177.0</b>	<b>1,445.1</b>
Money market funds	Bil. dol.	(X)	232.2	463.0	572.0	730.1	792.3	869.1	903.4	1,134.6
Equity funds	Bil. dol.	4.2	5.6	22.4	20.3	30.1	57.7	72.1	31.0	54.5
Income and bond funds	Bil. dol.	0.4	2.6	8.8	15.7	64.8	118.3	89.7	43.5	44.5
Municipal bond funds	Bil. dol.	(X)	1.8	9.1	9.8	19.4	39.9	28.9	20.8	26.7
Short-term municipal bond funds <sup>1</sup>	Bil. dol.	(X)	5.3	44.5	62.3	109.4	197.5	191.8	178.3	184.8
<b>Redemptions, total</b>	<b>Bil. dol.</b>	<b>3.0</b>	<b>216.5</b>	<b>565.8</b>	<b>607.0</b>	<b>864.9</b>	<b>1,015.6</b>	<b>1,178.8</b>	<b>1,166.9</b>	<b>1,327.2</b>
Money market funds	Bil. dol.	(X)	204.5	508.7	531.0	732.3	778.3	865.7	899.4	1,055.1
Equity funds	Bil. dol.	2.8	5.7	9.3	10.9	18.2	27.2	40.2	34.8	38.3
Income and bond funds	Bil. dol.	0.2	1.5	3.1	5.1	11.1	30.7	58.6	45.0	41.0
Municipal bond funds	Bil. dol.	(X)	1.0	2.3	4.1	4.3	9.1	17.4	12.7	12.3
Short-term municipal bond funds <sup>1</sup>	Bil. dol.	(X)	3.8	42.4	55.9	98.8	172.3	196.9	175.0	180.5

NA Not available. X Not applicable. <sup>1</sup> The average maturity of the portfolio is generally less than 2 years.Source: Investment Company Institute, Washington, DC, *Mutual Fund Fact Book*, annual. (Copyright.)

**No. 850. Securities Industry—Revenues and Expenses: 1980 to 1989**

[In millions of dollars. Data provided by U.S. Securities and Exchange Commission cover all securities firms]

TYPE	ALL SECURITIES FIRMS								MEMBERS OF NY STOCK EXCHANGE <sup>1</sup>	
	1980	1982	1983	1984	1985	1986	1987	1988	1988	1989
<b>Revenues, total</b>	<b>19,984</b>	<b>28,801</b>	<b>36,904</b>	<b>39,607</b>	<b>49,844</b>	<b>64,424</b>	<b>66,104</b>	<b>66,701</b>	<b>51,825</b>	<b>59,537</b>
Commissions	6,800	7,370	10,392	9,270	10,955	13,977	16,574	11,992	8,784	10,151
Trading/investment gains	5,116	8,535	9,842	10,761	14,549	18,145	14,423	16,838	12,685	12,831
Underwriting profits	1,594	2,688	4,090	3,249	4,987	6,743	5,719	5,608	5,158	4,120
Margin interest	2,157	2,070	2,233	2,971	2,746	3,022	3,493	3,180	3,029	3,723
Mutual fund sales	278	629	1,493	1,452	2,754	4,540	4,069	2,644	1,414	1,580
Other	4,039	7,509	8,853	11,905	13,854	17,998	21,825	26,438	20,756	27,132
<b>Expenses, total</b>	<b>16,931</b>	<b>24,728</b>	<b>31,697</b>	<b>36,751</b>	<b>43,342</b>	<b>56,123</b>	<b>62,894</b>	<b>63,155</b>	<b>49,335</b>	<b>57,695</b>
Interest expense	3,893	6,452	6,847	10,693	11,470	14,233	16,473	19,731	16,311	24,070
Compensation	7,809	10,535	14,555	14,431	18,112	23,936	25,583	23,569	18,730	18,826
Commissions/clearance paid	1,079	1,299	1,787	1,907	2,314	2,995	3,563	2,858	1,754	1,855
Other	4,150	6,442	8,508	9,720	11,446	14,959	17,276	16,997	12,539	12,944
<b>Net income, pre-tax</b>	<b>3,053</b>	<b>4,073</b>	<b>5,207</b>	<b>2,857</b>	<b>6,502</b>	<b>8,301</b>	<b>3,210</b>	<b>3,546</b>	<b>2,490</b>	<b>1,842</b>

<sup>1</sup> Covers all members of New York Stock Exchange doing public business. These firms represent 77% of the total revenues of all securities firms. Source: Securities Industry Association, New York, NY, *Securities Industry Trends*, periodic.

Source: Except as noted, U.S. Securities and Exchange Commission, *Annual Report*.

**No. 851. U.S. Life Insurance Companies—Summary: 1970 to 1989**

[As of December 31 or calendar year, as applicable. Covers domestic and foreign business of U.S. companies. See also *Historical Statistics, Colonial Times to 1970*, series X 879 and X 890-917]

ITEM	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>U.S. companies</b>	<b>Number</b>	<b>1,780</b>	<b>1,958</b>	<b>2,060</b>	<b>2,117</b>	<b>2,193</b>	<b>2,261</b>	<b>2,254</b>	<b>2,337</b>	<b>2,343</b>	<b>2,350</b>
<b>Sales</b>	<b>Bil. dol.</b>	<b>207</b>	<b>655</b>	<b>920</b>	<b>1,279</b>	<b>1,390</b>	<b>1,530</b>	<b>1,578</b>	<b>1,656</b>	<b>1,716</b>	<b>1,788</b>
Ordinary	Bil. dol.	135	462	661	972	1,074	1,187	1,178	1,267	1,287	1,343
Group	Bil. dol.	65	190	257	306	315	342	400	388	428	444
Industrial	Bil. dol.	7	4	2	2	1	1	(Z)	(Z)	(Z)	(Z)
<b>Income</b>	<b>Bil. dol.</b>	<b>49.1</b>	<b>130.9</b>	<b>170.0</b>	<b>176.0</b>	<b>206.1</b>	<b>234.0</b>	<b>282.3</b>	<b>314.3</b>	<b>338.1</b>	<b>367.3</b>
Life insurance premiums	Bil. dol.	21.7	40.8	50.8	50.3	51.3	60.1	66.2	76.7	73.5	73.3
Percent of total	Percent	44.2	31.2	29.9	28.6	24.9	25.7	23.5	24.4	21.7	20.0
Annuity considerations	Bil. dol.	3.7	22.4	34.6	30.5	42.8	53.9	83.7	88.7	103.3	115.0
Health insurance premiums	Bil. dol.	11.4	29.4	35.0	38.2	40.7	41.8	44.2	47.6	52.3	56.1
Investment and other	Bil. dol.	12.3	38.3	49.6	57.0	71.3	78.2	88.2	101.3	109.0	122.9
<b>Disbursements</b>	<b>Bil. dol.</b>	<b>39.0</b>	<b>88.2</b>	<b>113.3</b>	<b>123.5</b>	<b>138.5</b>	<b>151.8</b>	<b>186.5</b>	<b>202.3</b>	<b>221.4</b>	<b>246.8</b>
Payments to policyholders <sup>2,3</sup>	Bil. dol.	25.6	59.0	71.2	80.9	89.8	95.7	131.4	144.4	156.8	178.3
Percent of total	Percent	65.6	66.9	62.8	65.5	64.8	63.0	70.5	71.4	70.8	72.2
Death payments	Bil. dol.	7.2	12.9	14.5	16.8	17.6	18.5	19.6	20.7	22.4	23.5
Matured endowments	Bil. dol.	1.0	0.8	0.6	0.6	0.7	0.8	0.8	0.8	0.8	0.8
Annuity payments	Bil. dol.	1.7	7.4	10.3	12.7	18.0	19.7	17.8	20.3	21.9	26.0
Policy dividends	Bil. dol.	3.8	8.1	9.6	10.8	11.4	12.4	12.4	13.0	13.8	14.9
Surrender values <sup>3</sup>	Bil. dol.	2.9	6.4	9.8	12.5	14.5	15.9	49.6	53.7	58.1	73.4
Disability benefits	Bil. dol.	0.2	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.5
Commissions, expenses, etc. <sup>3</sup>	Bil. dol.	12.9	27.8	40.3	40.7	46.0	53.1	51.4	54.7	61.3	63.5
Dividends to stockholders	Bil. dol.	0.5	1.4	1.8	1.9	2.7	3.0	3.7	3.3	3.4	5.0
<b>BALANCE SHEET</b>											
<b>Assets</b>	<b>Bil. dol.</b>	<b>207</b>	<b>479</b>	<b>588</b>	<b>655</b>	<b>723</b>	<b>826</b>	<b>938</b>	<b>1,045</b>	<b>1,167</b>	<b>1,300</b>
Government securities	Bil. dol.	11	33	56	77	100	125	145	151	160	178
Corporate securities	Bil. dol.	89	227	269	297	323	374	433	502	585	664
Percent of total assets	Percent	42.7	47.4	45.7	45.3	44.6	45.3	46.2	48.1	50.1	51.1
Bonds	Bil. dol.	73	180	213	232	259	297	342	406	480	538
Stocks	Bil. dol.	15	47	56	65	63	78	91	97	104	126
Mortgages	Bil. dol.	74	131	142	151	157	172	194	214	233	254
Real estate	Bil. dol.	6	15	21	22	26	29	32	34	37	40
Policy loans	Bil. dol.	16	41	53	54	55	54	54	54	54	57
Other	Bil. dol.	11	32	49	54	64	72	81	90	98	106
Interest earned on assets <sup>4</sup>	Percent	5.30	8.02	8.91	8.96	9.45	9.63	9.35	9.10	9.03	9.10
<b>Liabilities</b> <sup>2,5</sup>	<b>Bil. dol.</b>	<b>190</b>	<b>445</b>	<b>547</b>	<b>609</b>	<b>673</b>	<b>769</b>	<b>873</b>	<b>977</b>	<b>1,092</b>	<b>1,216</b>
<b>Policy reserves</b> <sup>2</sup>	<b>Bil. dol.</b>	<b>168</b>	<b>390</b>	<b>479</b>	<b>532</b>	<b>584</b>	<b>665</b>	<b>762</b>	<b>862</b>	<b>969</b>	<b>1,084</b>
Annuities	Bil. dol.	49	182	252	297	342	411	489	562	642	730
Group	Bil. dol.	34	140	192	222	255	303	356	393	434	474
Individual <sup>8</sup>	Bil. dol.	15	41	61	75	87	108	133	169	208	256
Life insurance	Bil. dol.	115	198	214	221	226	236	252	276	300	324
Health insurance	Bil. dol.	4	11	13	15	17	19	21	24	27	30
Capital and surplus <sup>2</sup>	Bil. dol.	17	34	42	46	50	57	64	67	75	84

Z Less than \$500 million. <sup>1</sup> Includes Servicemen's Group Life Insurance: \$16.8 billion in 1970 and \$50.8 billion in 1986; as well as Federal Employees' Group Life Insurance: \$10.8 billion in 1986. <sup>2</sup> Includes operations of accident and health departments of life insurance companies. <sup>3</sup> Beginning in 1986, data not comparable to prior years due to change in accounting method. <sup>4</sup> Net rate. <sup>5</sup> Includes other obligations not shown separately. <sup>6</sup> Includes reserves for supplementary contracts with and without life contingencies.

Source: American Council of Life Insurance, Washington, DC, *Life Insurance Fact Book*, biennial, and unpublished data.

**No. 852. U.S. Life Insurance Companies—New Long-Term Investments: 1970 to 1989**

[In billions of dollars, except percent. Long-term investments are investments of over 1 year in length. Minus sign (-) indicates decrease]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Total</b> .....	<b>23.9</b>	<b>42.5</b>	<b>72.6</b>	<b>77.9</b>	<b>83.7</b>	<b>110.5</b>	<b>169.9</b>	<b>202.5</b>	<b>295.3</b>	<b>421.9</b>	<b>456.7</b>	<b>434.7</b>	<b>472.0</b>
Annual percent change .....	-0.3	19.7	5.6	7.3	7.4	32.1	53.7	19.2	45.8	42.9	8.3	4.8	8.6
Government securities .....	0.8	3.7	6.9	7.0	10.6	24.3	49.1	62.9	99.9	154.3	155.7	134.8	161.0
Corporate securities .....	10.9	22.5	33.5	36.4	42.5	58.8	86.9	104.0	144.6	205.4	239.5	235.1	246.2
Bonds .....	6.8	16.6	23.1	22.3	23.0	33.0	50.8	68.7	98.3	137.5	165.1	180.6	182.2
Stocks .....	4.1	5.9	10.4	14.1	19.5	25.8	36.1	35.3	46.3	67.9	74.4	54.5	64.0
Mortgages .....	7.2	9.6	20.7	19.7	13.5	11.5	20.1	20.1	35.1	45.4	44.2	45.7	43.7
Real estate .....	0.9	2.1	2.8	3.3	4.5	4.5	4.3	6.0	6.0	7.1	7.1	8.4	8.7
Policy loans .....	4.1	4.6	8.7	11.5	12.6	11.4	9.5	9.5	9.7	9.7	10.2	10.7	12.4

<sup>1</sup> Change from immediate prior year.

**No. 853. Life Insurance in Force in the United States—Summary: 1970 to 1989**

[As of **December 31** or **calendar year**, as applicable. Covers life insurance with life insurance companies only. Represents all life insurance in force on lives of U.S. residents whether issued by U.S. or foreign companies. For definition of household, see text, section 1. See also *Historical Statistics, Colonial Times to 1970*, series X 879-889]

YEAR	LIFE INSURANCE IN FORCE						AVERAGE SIZE POLICY IN FORCE (dollars)				AVERAGE AMOUNT (\$1,000)		Dispos-able personal income per household (\$1,000)
	Number of policies, total (mil.)	Value (bil. dol.)					Ordinary	Group	Indus-trial	Cred- <sup>1</sup>	Per house-hold	Per in-sured house-hold	
		Total	Ordinary	Group	Indus-trial	Cred- <sup>1</sup>							
1970	355	1,402	731	545	39	88	6,110	6,910	500	1,000	22.1	26.6	11.3
1980	402	3,541	1,761	1,579	36	165	11,920	13,410	620	2,110	43.8	53.5	23.7
1981	400	4,064	1,978	1,889	35	162	13,310	15,400	630	2,220	49.3	60.2	25.8
1982	390	4,477	2,217	2,066	33	161	15,140	16,630	630	2,410	53.6	66.2	27.1
1983	387	4,966	2,544	2,220	31	171	17,380	17,530	630	2,650	59.2	73.1	28.9
1984	385	5,500	2,888	2,392	30	190	19,970	18,780	630	2,880	64.5	79.6	31.3
1985	386	6,053	3,247	2,562	28	216	22,780	19,720	640	3,100	69.7	86.1	32.7
1986	391	6,720	3,658	2,801	27	234	25,540	20,720	650	3,310	76.0	93.8	34.1
1987	395	7,452	4,139	3,043	27	243	28,510	22,380	650	3,330	82.8	102.2	35.6
1988	391	8,020	4,512	3,232	26	251	31,390	23,410	660	3,570	87.6	108.2	38.0
1989	394	8,694	4,940	3,469	24	260	34,410	24,510	670	3,600	93.6	115.5	40.7

<sup>1</sup> Insures borrower to cover consumer loan in case of death.

Source of tables 852 and 853: American Council of Life Insurance, Washington, DC, *Life Insurance Fact Book*, biennial.

**No. 854. Life Insurance Purchases in the United States—Number and Amount: 1970 to 1989**

[Excludes revivals, increases, dividend additions, and reinsurance acquired. Except for 1970, includes long-term credit insurance (life insurance on loans of more than 10 years' duration). See also headnote, table 853]

YEAR	NUMBER OF POLICIES PURCHASED (1,000)						AMOUNT PURCHASED (bil. dol.)					
	Total	Ordinary			Group	Indus- trial	Total <sup>3</sup>	Ordinary			Group <sup>3</sup>	Indus- trial
		Total	Percent—					Total	Percent—			
			Whole life <sup>1</sup>	Term <sup>2</sup>					Whole life <sup>1</sup>	Term <sup>2</sup>		
1970 .....	23,769	10,968	90	10	5,219	7,582	193.1	122.8	59	41	63.7	6.6
1980 .....	29,007	14,750	78	22	11,379	2,878	572.6	385.6	43	57	183.4	3.6
1981 .....	29,552	15,838	77	23	11,923	1,791	831.1	481.9	41	59	346.7	2.5
1982 .....	28,894	15,614	76	24	11,930	1,350	837.9	585.4	40	60	250.5	1.9
1983 .....	32,021	17,737	77	23	13,450	834	1,026.4	753.4	47	53	271.6	1.4
1984 .....	33,012	17,695	77	23	14,605	712	1,114.8	820.3	55	45	293.5	0.9
1985 .....	33,880	17,104	78	22	16,243	533	1,231.2	910.9	62	38	319.5	0.7
1986 .....	34,623	16,811	77	23	17,507	305	1,308.8	933.6	61	39	374.7	0.4
1987 .....	33,153	16,225	75	25	16,698	230	1,352.5	986.7	57	43	365.5	0.3
1988 .....	31,589	15,579	81	19	15,793	217	1,406.9	995.7	61	39	410.8	0.3
1989 .....	29,960	14,694	80	20	15,110	156	1,441.7	1,020.7	59	41	420.7	0.3

<sup>1</sup> Life insurance payable to a beneficiary at the death of the insured whenever that occurs. Premiums may be payable for a specified number of years or for life. Includes a small number of endowment and retirement income policies. <sup>2</sup> Life insurance payable to a beneficiary only when an insured dies within a specified period. <sup>3</sup> Includes Servicemen's Group Life Insurance: \$17.1 billion in 1970, \$45.6 billion in 1981, and \$51.0 billion in 1986; as well as Federal Employees' Group Life Insurance: \$84.4 billion in 1981 and \$10.8 billion in 1986.

Source: American Council of Life Insurance, Washington, DC, *Life Insurance Fact Book*, biennial.

**No. 855. Life Insurance—Insurance in Force and Benefit Payments, by State: 1989**

[Applies to policyholders and payments in the U.S.]

REGION, DIVISION, AND STATE	INSURANCE IN FORCE			Benefit pay- ments <sup>1</sup> (mil. dol.)	REGION, DIVISION, AND STATE	INSURANCE IN FORCE			Benefit pay- ments <sup>1</sup> (mil. dol.)
	Policies (1,000)	Value (bil. dol.)	Avg. per house- hold (dol.)			Policies (1,000)	Value (bil. dol.)	Avg. per house- hold (dol.)	
<b>U.S.</b>	<b>393,951</b>	<b>8,694</b>	<b>93,600</b>	<b>80,200</b>	DC.	2,047	54	226,000	333
<b>Northeast</b>	<b>80,922</b>	<b>2,014</b>	<b>105,100</b>	<b>21,759</b>	VA.	13,083	239	105,200	1,829
<b>N.E.</b>	<b>20,706</b>	<b>537</b>	<b>109,300</b>	<b>5,326</b>	WV.	3,105	46	65,300	500
ME	1,648	35	74,400	317	NC	12,535	222	89,100	1,764
NH	1,742	40	96,700	340	SC	8,139	112	90,300	809
VT.	879	18	85,500	204	GA	12,881	246	104,300	1,722
MA	8,466	234	104,700	2,471	FL	17,885	380	74,900	4,098
RI	1,866	36	94,900	334	<b>E.S.C.</b>	<b>32,915</b>	<b>481</b>	<b>84,000</b>	<b>3,728</b>
CT.	6,105	174	144,100	1,660	KY.	6,237	102	72,900	847
<b>M.A.</b>	<b>60,216</b>	<b>1,477</b>	<b>103,700</b>	<b>16,433</b>	TN.	9,999	166	88,500	1,456
NY.	26,501	693	101,300	8,113	AL.	12,285	142	93,600	986
NJ.	11,802	346	121,100	3,705	MS.	4,394	70	75,700	439
PA.	21,913	438	96,500	4,615	<b>W.S.C.</b>	<b>41,098</b>	<b>890</b>	<b>90,200</b>	<b>6,605</b>
<b>Midwest</b>	<b>99,004</b>	<b>2,123</b>	<b>93,400</b>	<b>20,878</b>	AR.	2,866	55	60,300	431
<b>E.N.C.</b>	<b>71,062</b>	<b>1,486</b>	<b>93,600</b>	<b>14,858</b>	LA.	8,078	136	87,000	1,110
OH.	18,384	375	90,400	3,681	OK.	4,127	93	74,500	884
IN.	10,199	187	89,000	1,916	TX.	26,027	606	98,700	4,180
IL.	20,011	448	102,600	4,510	<b>West</b>	<b>60,110</b>	<b>1,663</b>	<b>87,200</b>	<b>14,286</b>
MI.	14,647	321	93,700	3,161	<b>MT</b>	<b>18,582</b>	<b>425</b>	<b>85,600</b>	<b>3,636</b>
WI.	7,821	155	84,300	1,590	MT	1,165	23	74,800	209
<b>W.N.C.</b>	<b>27,942</b>	<b>637</b>	<b>93,200</b>	<b>6,020</b>	ID.	1,377	29	79,300	235
MN.	6,341	155	94,400	1,451	WY.	642	16	89,300	124
IA.	4,652	99	90,400	1,109	CO.	5,159	128	100,100	1,050
MO.	8,653	186	93,600	1,704	NM.	1,786	41	75,600	375
ND.	927	23	91,800	169	AZ.	4,681	103	79,400	987
SD.	947	23	83,600	191	UT.	2,414	51	96,300	388
NE.	2,458	60	96,200	578	NV.	1,358	32	72,400	268
KS.	3,964	91	94,500	818	<b>Pac.</b>	<b>41,528</b>	<b>1,239</b>	<b>87,700</b>	<b>10,650</b>
<b>South</b>	<b>153,915</b>	<b>2,894</b>	<b>90,500</b>	<b>23,277</b>	WA.	5,318	149	79,700	1,376
<b>S.A.</b>	<b>79,902</b>	<b>1,523</b>	<b>93,000</b>	<b>12,944</b>	OR.	3,269	77	68,800	866
DE.	1,814	37	146,600	262	CA.	30,558	949	89,700	7,915
MD.	8,413	186	107,500	1,627	AK.	478	17	95,700	134
					HI.	1,905	46	126,400	359

<sup>1</sup> Comprises death payments, matured endowments, disability and annuity payments, surrender values, and policy dividends.Source: American Council of Life Insurance, Washington, DC, *Life Insurance Fact Book*, biennial.**No. 856. Private Health Insurance Organizations—Income and Expenses: 1970 to 1987**[In millions of dollars, except percent. Minus sign (-) indicates loss. Expenses are on incurred basis. See also *Historical Statistics, Colonial Times to 1970*, series X 957-962]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
<b>All organizations:</b>										
Total premium income	16,871	33,178	72,595	84,419	98,679	109,684	121,882	129,133	142,435	157,794
Claims expense	15,320	31,223	67,504	78,400	89,929	97,990	105,280	111,994	124,622	139,090
Percent of premium income	90.8	94.1	93.0	92.9	91.1	89.3	86.4	86.7	87.5	88.1
Operating expense	2,269	3,969	7,938	9,378	11,242	12,808	14,323	15,974	18,185	20,521
Net underwriting gain	-718	-2,014	-2,848	-3,359	-2,492	-1,114	2,279	1,166	-372	-1,817
<b>Blue Cross-Blue Shield:</b>										
Premium income	7,371	14,446	26,334	30,447	34,338	37,611	39,954	41,508	44,349	46,345
Claims expense	7,060	14,192	25,467	29,209	32,144	34,398	35,522	37,290	41,258	44,525
Operating expense	534	1,063	1,951	2,250	2,476	2,710	3,159	3,728	4,376	4,536
Net underwriting gain	-224	-809	-1,083	-1,012	-282	503	1,273	491	-1,285	-2,716
<b>Insurance companies:<sup>1</sup></b>										
Premium income	8,304	14,075	28,913	33,966	41,434	46,872	51,139	52,487	56,568	63,710
Claims expense	7,104	12,826	25,774	30,271	36,424	40,109	41,547	42,680	45,810	54,549
Net underwriting gain	-447	-1,374	-1,848	-2,256	2,397	-1,689	417	-109	-281	-551
<b>Other plans:</b>										
Premium income	1,196	4,657	17,347	20,006	22,907	25,201	30,789	35,138	41,518	47,739

<sup>1</sup> Excludes administrative service agreements and hospital indemnity. Hospital indemnity is a form of health insurance which provides a stipulated daily, weekly, or monthly indemnity during hospital confinement. Indemnity is payable on an unallocated basis without regard to actual expense of hospital confinement.Source: U.S. Health Care Financing Administration, *Health Care Financing Review*, Winter 1988, and unpublished data.

### No. 857. Health Insurance—Premium Income and Benefit Payments of Insurance Companies: 1970 to 1988

(In billions of dollars. Beginning 1975, includes Puerto Rico and other U.S. outlying areas. Represents premium income of and benefits paid by insurance companies only. Excludes Blue Cross-Blue Shield plans, medical-society sponsored plans, and all other independent plans)

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
<b>Premiums</b> <sup>1</sup> . . . . .	11.5	20.8	37.9	43.7	49.0	58.3	63.2	70.4	75.2	75.5	84.1	98.2
Group policies <sup>2</sup> . . . . .	8.1	15.9	31.7	36.8	42.5	50.0	54.9	60.8	64.4	65.9	74.0	87.6
Individual and family policies . . . . .	3.4	4.9	6.2	6.9	6.5	8.3	8.3	9.6	10.8	9.6	10.1	10.6
<b>Benefit payments</b> . . . . .	9.1	16.5	31.7	37.0	41.6	49.2	51.7	56.0	60.0	64.3	<sup>3</sup> 72.5	<sup>3</sup> 83.0
Group policies <sup>2</sup> . . . . .	7.5	14.2	27.9	33.0	37.7	44.2	46.9	50.3	53.7	58.9	<sup>3</sup> 66.5	<sup>3</sup> 76.4
Individual and family policies . . . . .	1.6	2.3	3.8	4.0	3.9	4.9	4.8	5.7	6.3	5.4	5.9	6.6
Type of coverage:												
Loss of income . . . . .	1.8	2.7	4.7	5.3	5.2	5.5	4.9	5.2	5.6	5.6	6.4	6.4
Medical expense . . . . .	7.1	13.2	24.8	28.9	33.0	39.6	42.4	45.9	49.0	53.4	58.7	68.0
Dental . . . . .	0.1	0.6	2.2	2.8	3.5	4.0	4.4	4.9	5.3	5.3	5.9	6.3

<sup>1</sup> 1970 refers to written premiums; thereafter, refers to earned premiums. <sup>2</sup> Beginning 1975, insurance company group premiums and benefit payments include administrative service agreements and minimum premium plans. Amounts for 1970 contain only a portion of these data. <sup>3</sup> Includes Medicare supplement policies which are not available by type of coverage.

Source: Health Insurance Association of America, Washington, DC, *Source Book of Health Insurance Data*, annual.

### No. 858. Property and Casualty Insurance—Summary: 1970 to 1988

(In billions of dollars. Minus sign (-) indicates loss. Premiums earned and losses incurred differ from table 859 because of reporting differences)

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
Premiums earned . . . . .	30.2	47.2	92.8	95.4	100.4	104.9	113.2	130.3	161.9	182.5	193.3
Losses and loss expenses incurred . . . . .	21.5	37.5	68.9	73.3	79.8	85.3	98.8	115.1	131.5	141.7	151.0
Percent of premiums earned . . . . .	71.0	79.2	74.4	76.9	79.4	81.3	87.4	88.3	81.3	77.6	78.1
Underwriting expenses incurred . . . . .	8.8	13.5	25.2	26.9	28.9	30.6	32.6	36.6	43.2	46.8	49.9
Net underwriting gain/loss . . . . .	0.1	-3.6	-1.5	-4.9	-8.1	-10.8	-18.2	-21.4	-12.8	-5.9	-7.6
Net investment income earned . . . . .	2.1	4.5	12.6	14.6	15.6	16.5	18.1	19.8	21.9	24.0	28.1
Dividends to policyholders . . . . .	0.5	0.7	1.8	2.0	2.2	2.4	2.3	2.4	2.3	2.9	2.9
Net income after taxes . . . . .	1.6	0.6	8.4	7.6	6.3	6.3	2.2	3.0	13.5	14.9	11.7
Assets . . . . .	62.4	100.0	222.5	238.9	246.0	282.0	298.5	346.8	407.9	459.3	513.6
Surplus to policyholders . . . . .	19.4	24.8	64.7	67.0	74.2	80.3	78.7	92.7	112.8	124.2	141.1

Source: The National Underwriter Co., Cincinnati, OH, *Argus F. C. & S. Chart*, annual (copyright).

### No. 859. Property and Casualty Insurance—Premiums and Losses, by Line of Insurance: 1980 to 1988

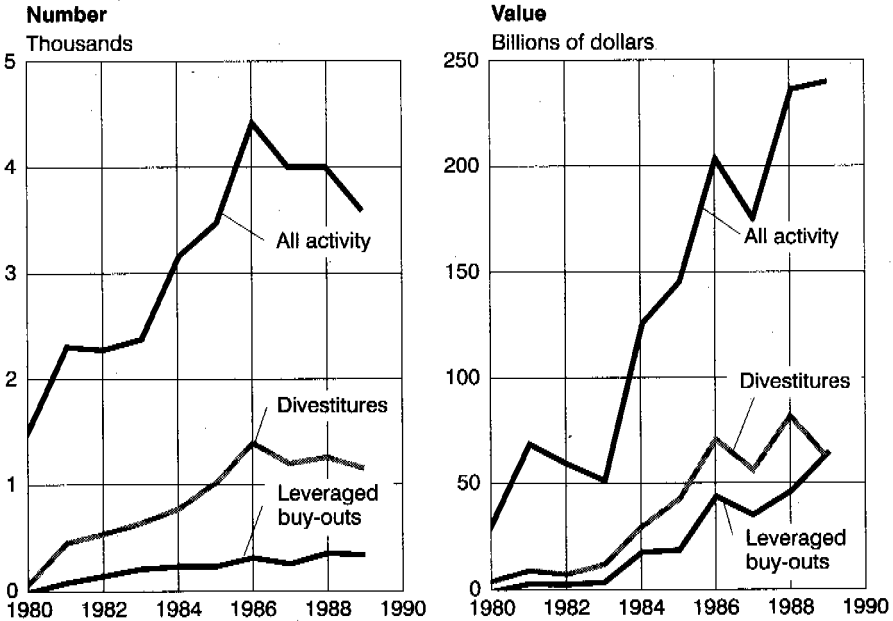
(In millions of dollars)

LINE OF INSURANCE	PREMIUMS EARNED					LOSSES INCURRED				
	1980	1985	1986	1987	1988	1980	1985	1986	1987	1988
<b>Total</b> . . . . .	86,612	131,115	166,637	182,982	194,188	61,813	114,376	133,041	141,512	146,487
Auto liability . . . . .	19,324	33,546	42,116	46,431	50,000	14,647	31,870	37,929	41,525	43,313
Auto, physical damage . . . . .	12,765	23,515	28,182	29,849	31,913	8,904	17,286	19,019	18,962	20,383
Workers' compensation . . . . .	14,067	17,168	19,870	23,674	25,863	10,097	15,448	18,893	21,758	23,845
Liability, other than auto . . . . .	6,532	9,115	16,163	19,272	19,103	4,516	10,455	14,910	16,703	15,670
Commercial multiple peril . . . . .	6,658	10,148	14,336	16,159	17,018	3,822	8,738	8,840	8,919	9,669
Homeowners multiple peril . . . . .	9,175	13,413	15,164	15,721	16,526	6,634	10,637	10,702	10,132	10,857
Fire and allied lines . . . . .	4,981	5,109	6,852	7,195	6,553	3,193	3,304	3,764	3,562	3,422
Reinsurance . . . . .	3,089	4,788	6,828	6,530	7,026	2,461	4,318	5,649	5,531	5,345
Inland marine . . . . .	2,180	3,315	3,758	3,966	4,069	1,439	2,058	1,791	1,859	2,009
Health . . . . .	2,845	3,082	2,713	3,732	4,253	2,538	2,824	2,640	4,609	3,629
Surety and fidelity . . . . .	1,170	1,771	2,038	2,238	2,390	614	1,414	1,224	1,377	950
Marine . . . . .	1,009	1,913	2,512	2,876	3,000	1,022	3,020	2,963	2,909	2,634
Farmowners . . . . .	1,035	1,115	1,123	1,235	1,237	857	830	763	831	868
Aircraft . . . . .	162	472	659	768	710	126	381	456	595	514
Boiler and machinery . . . . .	372	497	587	648	637	145	204	245	237	324
Product liability . . . . .	-	362	1,002	424	890	-	320	910	276	646
Financial guaranty . . . . .	-	-	272	268	409	-	-	284	211	442
Earthquake . . . . .	46	131	190	228	286	3	13	22	73	35
Burglary and theft . . . . .	135	117	123	121	114	60	40	36	34	28
Glass . . . . .	34	29	30	26	29	20	8	10	8	11
Other . . . . .	515	782	1,001	764	1,368	306	632	1,131	869	1,382

- Represents zero.

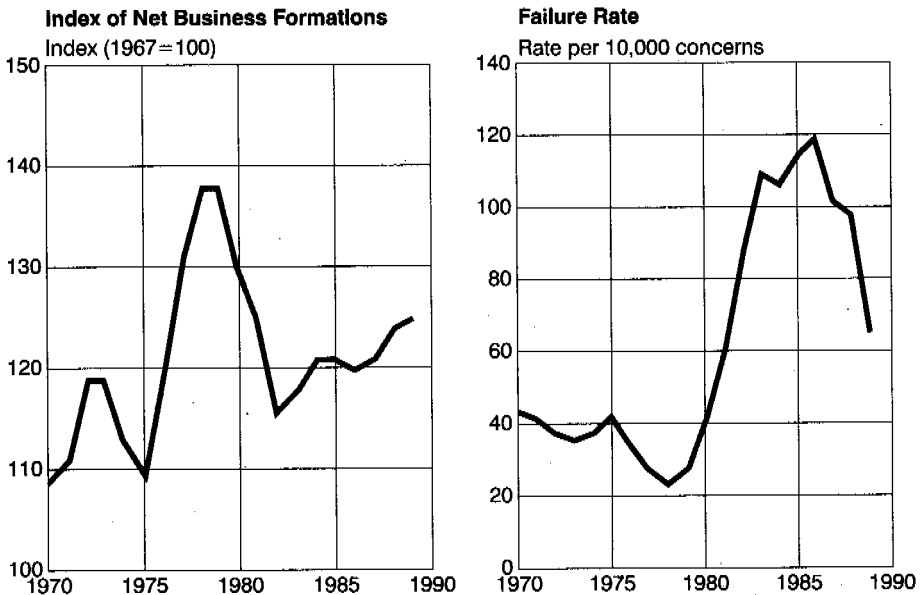
Source: The National Underwriter Co., Cincinnati, OH, *Argus F. C. & S. Chart*, annual (copyright).

**Figure 17.1**  
**Mergers and Acquisitions: 1980 to 1989**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 888.

**Figure 17.2**  
**Index of Net Business Formations and**  
**Business Failure Rates: 1970 to 1989**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 881.



## Section 17

# Business Enterprise

This section relates to the place and behavior of the business firm, and to business initiative in the American economy. It includes data on the number, type, and size of businesses; financial data of domestic and multinational U.S. corporations and their foreign affiliates; business investment, expenditures, and profits; business sales and inventories; consumer cooperatives; and business failures. Additional business data may be found in other sections, particularly 27 and 28.

The principal sources of these data are the *Survey of Current Business*, published by the Bureau of Economic Analysis (BEA); the *Federal Reserve Bulletin*, issued by the Board of Governors of the Federal Reserve System; the annual *Statistics of Income* reports of the Internal Revenue Service (IRS); *The Business Failure Record Through 1989*, issued by The Dun & Bradstreet Corporation, New York; and *Fortune* and *The Fortune Directory*, issued by Time, Inc., New York. Other sources are publications of the Securities and Exchange Commission (SEC), the Bureau of the Census, and the Administrative Office of the United States Courts.

**Business firms.**—A firm is generally defined as a business organization under a single management and may include one or more establishments (i.e., a single physical location at which business is conducted). The terms firm, business, company, and enterprise are used interchangeably throughout this section. Examples of series where the industrial distribution is based on data collected from establishments are those on capital stock (table 898), those on gross national product by industry (table 699), and those on employment and earnings (section 13). Examples of company-based series are those on business expenditures for new plant and equipment (table 897), those from IRS *Statistics of Income* (tables 869 and 870), and those on corporation profits by industry (tables 907 and 908). A firm doing business in more than one industry is classified by industry according to the major activity of the firm as a whole. The industrial classification is based on the *Standard Industrial Classification (SIC) Manual* (see text, section 13).

The IRS concept of a business firm relates primarily to the legal entity used for tax reporting purposes. The IRS *Statistics of Income* reports present data, based on a sample of tax returns before audit, separately for sole proprietorships, partnerships, and corporations. Data presented are for active enterprises only. A *sole proprietorship* is an unincorporated business owned by one person including large enterprises with many employees and hired managers to the part-time operations in which the owner is the only person involved. A *partnership* is an unincorporated business owned by two or more persons, each of whom has a financial interest in the business. The "persons" could be individuals, estates, trusts, other partnerships or corporations. A *corporation* is a business that is legally incorporated under State laws. The IRS recognizes many types of businesses as corporations, including joint-stock companies; insurance companies; and unincorporated associations such as business trusts, etc. While many corporations file consolidated tax returns, most corporate tax returns represent individual corporations, some of which are affiliated through common ownership or control with other corporations filing separate returns.

**Assets and liabilities.**—In its annual report, *Statistics of Income, Corporation Income Tax Returns*, the IRS presents balance sheet and income estimates for all active U.S. corporations. The Bureau of the Census issues the *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations* (QFR), which presents quarterly income account and balance sheet data for manufacturing, mining, and trade industries. This report was prepared by the Federal Trade Commission until responsibilities for QFR were transferred to Census beginning with the 4th quarter 1982 report.

One of the most comprehensive measures of the investment position of the business sector (and the only measure adjusted to current replacement cost) is the BEA capital stock series. See *Survey of Current Business*, August 1990.

**Income, profits, dividends, and taxes.**—Several agencies, among them IRS and BEA, compile corporate income account data. These data, however, are not comparable because of differing definitions and methods of compilation. A reconciliation of the two can be found in table 8.13 of *National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business* (normally the July issue), published by BEA. The IRS publishes financial data for all business enterprises. These data appear in *Statistics of Income, Corporation Income Tax Returns* and the *Statistics of Income Bulletin* (partnerships and sole proprietorships). Data on international income and taxes reported by U.S. corporations are also included in the *Statistics of Income Bulletin* and in the periodic *Compendium of Studies of International Income and Taxes*.

Corporate data issued by BEA are a part of its national income and product accounts (see text, section 14). The primary sources for BEA estimates of profits, taxes, dividends, and undistributed profits are the original corporate tax returns submitted to IRS. Various adjustments of IRS data are required by the national income treatment—particularly with respect to profits which would be disclosed if all tax returns were audited; depletion; capital gain or loss; treatment of bad debts; measurement of income received from abroad; and intercorporate dividends—to make the figures comparable with other entries in the national income accounts. For a discussion of two types of adjustments (inventory valuation and capital consumption), see text, section 14. The BEA's corporate profits data also include net earnings of Federal Reserve banks, credit unions, private noninsured pension funds, and several quasi-government credit agencies not included in IRS data.

**Sources and uses of corporate funds.**—These data (table 866, Federal Reserve Board) show capital requirements of corporations and the manner in which they are financed. Sources of funds should be equal to their uses. Certain discrepancies, however, interfere with this equality due to omission of (1) money accruing to corporations from an excess of sales over purchases of used plant and equipment, (2) transactions in securities held as permanent investments except public offerings, and (3) net purchases of land. Also, the balance sheet data upon which many of the financial flow estimates are based are not fully comparable with the tax-return based estimates of internal sources, or the establishment series underlying the figures on inventory change.

**Plant and equipment expenditures.**—Estimates of actual and planned expenditures for new plant and equipment in the United States by most private nonagricultural business firms are based on quarterly sample surveys conducted by the Bureau of the Census. For a discussion of coverage, concepts, and methodology, see the February 1985 issue of the *Survey of Current Business*, Bureau of Economic Analysis.

**Sales and inventories.**—Sales are estimated aggregate values, and inventories are book values at the end of the period. Sales signifies sales or shipments for retail and wholesale trade and billings or shipments for manufacturing. Trade inventories are valued at cost of merchandise on hand, while manufacturers' inventories are valued at approximate current costs or at book values, as reported by the manufacturer. Inventories (see table 901) are based on data from censuses (conducted every 5 years, for years ending in "2" and "7") and annual surveys. Monthly data for manufacturing appear in the Bureau of the Census Current Industrial Reports, *Manufacturers' Shipments, Inventories, and Orders*, series M3-1; for data on retail and wholesale trade, see section 28.

**Sales, assets, net income, stockholder's equity, and total returns to investors.**—Sales include service and rental revenues but exclude dividends, interest, and other non-operating revenues. All companies must have derived more than 50 percent of their sales from manufacturing and/or mining. Sales of subsidiaries are included when they are consolidated. **Assets** are those shown at the company's year-end. **Net income** is shown after taxes and after extraordinary credits or charges when any are shown on the income statement. **Stockholder's equity** is the sum of capital stock, surplus and retained earnings at the company's year-end. Redeemable preferred stock is excluded when its redemption is either mandatory or outside the control of the company, except in the case of cooperatives. **Total returns to investors** include both price appreciation and dividend yield. Returns are adjusted for stock splits, stock dividends, recapitalizations, and corporate reorganizations as they occur. For further discussion, see Time, Inc., New York, NY, *The Fortune Directory*, May and June issues.

**Economic censuses.**—The economic censuses constitute comprehensive and periodic canvasses of the Nation's industrial and business activities. The first economic census of the United States was conducted as part of the 1810 decennial census, when inquiries on manufacturing were included with the census of population. Minerals data were collected in 1840. The first censuses of construction and business were taken for 1929. An integrated economic census program was begun for 1954. In that year, the censuses covered the retail and wholesale trades, selected service industries, manufactures, and mineral industries. The economic censuses are taken at 5-year intervals covering years ending in "2" and "7". Special surveys are conducted every five years as part of the economic censuses to determine the extent of business ownership by specific minority groups and women.

**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.



### No. 860. Number of Returns and Business Receipts, by Size of Receipts and Type of Business: 1970 to 1987

[Covers active enterprises only. Figures are estimates based on sample of unaudited tax returns; see Appendix III. The industrial distribution is based on data collected from companies; see text, section 17. See also *Historical Statistics, Colonial Times to 1970*, series V 1-12]

SIZE-CLASS OF RECEIPTS	RETURNS (1,000)					BUSINESS RECEIPTS <sup>1</sup> (bil. dol.)				
	1970	1980	1985	1986	1987	1970	1980	1985	1986	1987
<b>Corporate returns</b> . . . . .	<b>1,665</b>	<b>2,711</b>	<b>3,277</b>	<b>3,429</b>	<b>3,612</b>	<b>1,706</b>	<b>6,172</b>	<b>8,050</b>	<b>8,282</b>	<b>9,185</b>
Under \$25,000 <sup>2</sup> . . . . .	452	557	711	765	788	3	4	5	5	5
\$25,000-\$49,999 . . . . .	171	208	237	244	267	6	8	9	10	10
\$50,000-\$99,999 . . . . .	220	323	330	345	369	16	22	24	25	27
\$100,000-\$499,999 . . . . .	517	926	1,110	1,141	1,191	123	224	278	289	300
\$500,000-\$999,999 . . . . .	141	280	352	370	391	99	197	249	262	276
\$1,000,000 or more . . . . .	165	418	538	562	605	1,459	5,717	7,484	7,692	8,568
<b>Partnership returns</b> . . . . .	<b>936</b>	<b>1,380</b>	<b>1,714</b>	<b>1,703</b>	<b>1,648</b>	<b>92</b>	<b>286</b>	<b>349</b>	<b>379</b>	<b>411</b>
Under \$25,000 <sup>2</sup> . . . . .	502	638	1,036	1,057	1,052	4	5	4	4	2
\$25,000-\$49,999 . . . . .	125	182	154	145	123	5	7	6	5	3
\$50,000-\$99,999 . . . . .	120	184	152	154	142	9	13	11	11	7
\$100,000-\$499,999 . . . . .	162	290	281	261	240	33	64	61	58	46
\$500,000-\$999,999 . . . . .	17	48	48	46	45	12	33	34	34	28
\$1,000,000 or more . . . . .	10	37	42	44	44	30	164	234	267	326
<b>Non-farm proprietorship returns</b> <sup>3</sup> . . . . .	<b>6,494</b>	<b>9,730</b>	<b>11,929</b>	<b>12,394</b>	<b>13,091</b>	<b>199</b>	<b>411</b>	<b>540</b>	<b>559</b>	<b>611</b>
Under \$25,000 <sup>2</sup> . . . . .	4,738	6,916	8,250	8,515	8,984	30	44	54	(NA)	60
\$25,000-\$49,999 . . . . .	746	1,079	1,394	1,467	1,559	27	39	50	(NA)	55
\$50,000-\$99,999 . . . . .	562	836	1,094	1,138	1,172	40	59	77	(NA)	83
\$100,000-\$499,999 . . . . .	420	796	1,060	1,141	1,232	76	159	213	(NA)	251
\$500,000-\$999,999 . . . . .	21	74	89	95	102	14	50	61	(NA)	69
\$1,000,000 or more . . . . .	7	29	41	38	43	12	60	85	(NA)	93

NA Not available. <sup>1</sup> Excludes investment income except for partnerships (through 1986) and corporations in finance, insurance, and real estate. In 1987, partnerships and S corporations exclude gross income from rental real estate and other rental activities and portfolio income distributed directly to partners or shareholders. S corporations have no more than 35 shareholders (10 prior to 1983) most of which are individuals, electing to be taxed at the shareholder level. <sup>2</sup> Includes firms with no receipts. <sup>3</sup> Number of businesses for 1970 and 1980. Number of non-farm sole proprietorship returns is not available prior to 1981. However, the number of returns and the number of businesses are very closely related. Since 1970, the ratio of number of returns to the number of businesses has remained approximately 1 to 1.1.

Source: U.S. Internal Revenue Service, *Statistics of Income, Statistics of Income Bulletin*, and unpublished data.

### No. 861. Number of Returns, Receipts, and Net Income, by Type of Business, 1970 to 1987, and by Industry, 1987

[Covers active enterprises only. Figures are based on sample of unaudited tax returns; see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series V 1-12 and V 42-53. Minus sign (-) indicates net loss]

YEAR AND INDUSTRY	NUMBER OF RETURNS (1,000)			BUSINESS RECEIPTS <sup>2</sup> (bil. dol.)			NET INCOME (less loss) <sup>3</sup> (bil. dol.)		
	Non-farm propi- etor- ships <sup>1</sup>	Part- ner- ships	Corpo- ra-tions	Non-farm propi- etor- ships <sup>1</sup>	Part- ner- ships	Corpo- ra-tions	Non-farm propi- etor- ships <sup>1</sup>	Part- ner- ships	Corpo- ra-tions
1970	5,770	936	1,665	198.6	91.8	1,706.1	30.5	9.8	65.9
1975	7,221	1,073	2,024	274.0	146.0	3,120.4	39.6	7.7	142.6
1980	8,932	1,380	2,711	411.2	286.0	6,172.2	54.9	8.2	239.0
1985	11,929	1,714	3,277	540.0	349.2	8,049.6	78.8	-8.9	240.1
1986	12,394	1,703	3,429	559.4	378.7	8,281.9	90.4	-17.4	269.6
1987 <sup>4</sup>	13,091	1,648	3,612	610.8	411.4	9,185.5	105.5	-5.4	328.2
Agriculture, forestry, and fishing <sup>5</sup>	361	149	117	14.5	6.8	71.8	2.0	2.0	1.6
Mining	159	60	42	6.6	15.3	85.8	-0.3	-1.3	0.3
Construction	1,636	62	371	89.3	26.3	442.5	14.5	2.7	8.7
Manufacturing	360	35	294	18.9	32.4	2,946.7	2.1	0.8	145.5
Transportation, public utilities	648	30	148	29.7	19.8	736.6	3.7	-3.7	37.5
Wholesale and retail trade <sup>6</sup>	2,368	185	972	216.3	70.6	2,691.3	11.2	2.6	38.0
Wholesale	339	20	317	35.4	22.9	1,304.7	3.5	0.8	17.8
Retail	1,974	165	650	177.3	47.7	1,380.1	7.3	1.8	20.2
Finance, insurance, real estate	1,225	828	521	42.0	123.2	1,589.2	14.4	-26.8	87.4
Services	5,977	291	1,120	183.5	116.4	616.5	56.0	18.0	9.3

<sup>1</sup> Through 1980, includes both individually owned business and farm returns; thereafter, includes only nonfarm business returns. <sup>2</sup> Excludes investment income except for partnerships (through 1986) and corporations in finance, insurance, and real estate. In 1987, partnerships and S corporations exclude gross income from rental real estate and other rental activities and portfolio income distributed directly to partners or shareholders. For definition of S corporation, see table 860, footnote 1. <sup>3</sup> Net income (less loss) is defined differently by form of organization, basically as follows: (a) Proprietorships: Total taxable receipts less total deductions, including cost of sales and operations (except charitable contributions and owners salary), investment and other income are excluded; (b) Partnerships: Total taxable receipts less total deductions, including cost of sales and operations (except foreign taxes and oil depletion), investment and other income (except capital gains); (c) Corporations: Total taxable receipts less total deductions, including cost of sales and operations; investment and other income, such as capital gains and income from foreign corporations considered received for tax purposes only; net income is before income tax. <sup>4</sup> Includes business not specifically allocated to industries below. <sup>5</sup> Represents agricultural services only. <sup>6</sup> Includes trade business not identified as wholesale or retail.

Source: U.S. Internal Revenue Service, *Statistics of Income*, various publications.

### No. 862. Number of Returns, Business Receipts, and Net Income, by Industry, Type of Business, and Size of Business Receipts: 1987

[Number in thousands; receipts in billions of dollars, and net income in millions of dollars. Covers active enterprises only. Figures are estimates based on a sample of unaudited tax returns; see Appendix III. The industrial distribution is based on data collected from establishments; see text, section 17. See also *Historical Statistics, Colonial Times to 1970*, series V 42-53, for number of active corporations. Minus sign (-) indicates net loss]

INDUSTRY	Non-farm proprietorships, total	PARTNERSHIPS <sup>1</sup>			CORPORATIONS				
		Under \$100 mil.	\$100 mil.-\$499 mil.	\$500 mil. or more	Under \$1 bil. <sup>2</sup>	\$1 bil.-\$4.9 bil.	\$5 bil.-\$9.9 bil.	\$10 bil.-\$49.9 bil.	\$50 bil. or more
<b>All industrial divisions:<sup>3</sup></b>									
Number	13,091	1,317	240	89	3,007	461	71	60	13
Business receipts <sup>4</sup>	611	11.7	45.7	354.0	617.4	969.6	492.6	1,203.4	5,902.4
Net income (less loss)	105	-44,413	6,911	32,084	-3,342	13,652	9,681	35,108	273,125
<b>Agriculture, forestry, fishing:<sup>5</sup></b>									
Number	361	140	6	1	106	9	1	1	(Z)
Business receipts <sup>4</sup>	15	0.6	1.3	4.9	16.0	19.0	5.9	17.9	13.1
<b>Mining:</b>									
Number	159	50	5	2	38	3	1	(Z)	(Z)
Business receipts <sup>4</sup>	7	0.4	1.1	13.9	4.3	7.4	3.6	9.1	61.5
<b>Construction:</b>									
Number	1,636	33	21	6	293	64	9	5	(Z)
Business receipts <sup>4</sup>	89	1.2	5.1	20.0	75.2	131.9	58.4	96.8	80.2
<b>Manufacturing:</b>									
Number	360	21	8	2	195	69	14	13	4
Business receipts <sup>4</sup>	19	0.4	2.1	29.8	52.0	152.3	98.7	273.2	2,370.4
<b>Transportation, public utilities:</b>									
Number	648	20	6	2	119	23	3	2	1
Business receipts <sup>4</sup>	30	0.5	1.3	18.0	23.6	47.6	22.3	39.9	603.2
<b>Wholesale and retail trade:</b>									
Number	2,368	101	61	19	724	185	31	28	4
Business receipts <sup>4</sup>	216	3.2	14.2	53.2	197.1	395.1	215.9	550.0	1,333.2
<b>Finance, insurance, real estate:</b>									
Number	1,225	751	53	20	474	32	6	7	3
Business receipts <sup>4</sup>	42	0.8	3.5	119.0	57.4	69.2	43.9	137.2	1,281.4
<b>Services:</b>									
Number	5,977	182	74	31	1,032	77	6	4	1
Business receipts <sup>4</sup>	184	4.4	17.1	94.9	190.0	145.8	43.3	78.6	158.6

Z Less than 500 returns. <sup>1</sup> Size of receipts excludes investment income. <sup>2</sup> Includes businesses without receipts. <sup>3</sup> Includes businesses not allocable to individual industries. <sup>4</sup> Excludes investment income except for corporations (other than S corporations; see table 860, footnote 1) in finance, insurance and real estate. For partnerships, excludes gross income from rental real estate and other rental activities and portfolio income distributed directly to partners. <sup>5</sup> Represents agricultural services only.

Source: U.S. Internal Revenue Service, *Statistics of Income*, various publications and unpublished data.

### No. 863. Nonfarm Sole Proprietorship Returns—Selected Income and Deduction Items: 1970 to 1988

[In millions of dollars, except as indicated. All figures are estimates based on sample. Tax law changes have affected the comparability of the data over time. See *Statistics of Income* reports for a description of appropriate years tax law changes; see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series V 4-6]

ITEM	1970	1975	1980	1983	1984	1985	1986	1987	1988
<b>Number of returns, total (1,000)<sup>1</sup></b>	<b>5,770</b>	<b>7,221</b>	<b>8,932</b>	<b>10,704</b>	<b>11,262</b>	<b>11,929</b>	<b>12,394</b>	<b>13,091</b>	<b>13,679</b>
Businesses with net income (1,000)	(NA)	(NA)	(NA)	7,390	8,003	8,641	9,248	9,884	10,492
Inventory, end of year	11,061	15,578	21,996	(NA)	23,233	24,970	24,477	26,333	27,313
<b>Business receipts, total<sup>2</sup></b>	<b>198,582</b>	<b>273,955</b>	<b>411,206</b>	<b>465,169</b>	<b>516,037</b>	<b>540,045</b>	<b>559,384</b>	<b>610,823</b>	<b>671,970</b>
Income from sales and operations	(NA)	272,343	407,169	455,382	507,234	528,675	548,273	598,315	658,687
<b>Business deductions, total<sup>2</sup></b>	<b>168,045</b>	<b>234,318</b>	<b>356,258</b>	<b>404,809</b>	<b>445,270</b>	<b>461,273</b>	<b>468,960</b>	<b>505,362</b>	<b>545,735</b>
Cost of goods sold/operations	109,149	146,261	209,890	212,631	229,906	232,294	232,135	255,045	277,880
Purchases	88,586	117,722	168,302	(NA)	(NA)	(NA)	(NA)	173,400	197,220
Labor costs	7,704	8,791	10,922	9,871	13,009	14,504	17,318	19,631	21,143
Materials and supplies	6,216	9,091	12,909	(NA)	(NA)	(NA)	(NA)	23,842	27,800
Commissions	1,274	2,226	3,333	(NA)	(NA)	(NA)	5,461	6,262	6,540
Salaries and wages (net)	15,107	20,228	26,561	31,666	34,886	38,266	38,691	42,330	43,007
Car and truck expenses	(NA)	(NA)	13,378	14,758	17,524	17,044	16,381	17,470	19,640
Rent paid	4,637	6,676	9,636	11,831	14,278	15,259	15,654	16,358	19,470
Repairs	2,445	3,044	5,032	(NA)	(NA)	(NA)	(NA)	7,438	8,104
Taxes paid	3,776	5,424	7,672	(NA)	(NA)	(NA)	(NA)	8,449	9,495
Utilities	(NA)	(NA)	4,790	(NA)	(NA)	(NA)	(NA)	13,362	14,618
Insurance	2,310	3,504	6,003	(NA)	(NA)	(NA)	10,783	11,719	12,528
Interest paid	1,784	3,391	7,190	9,926	11,025	11,914	11,504	11,616	12,071
Depreciation	5,452	7,958	13,953	22,070	23,900	26,291	26,418	25,657	26,078
Pension and profit sharing plans	73	125	141	123	258	311	638	548	450
<b>Net income (less loss)</b>	<b>30,537</b>	<b>39,637</b>	<b>54,947</b>	<b>60,359</b>	<b>70,767</b>	<b>78,773</b>	<b>90,423</b>	<b>105,461</b>	<b>126,323</b>
Businesses with net income	33,736	45,625	68,010	78,618	89,849	98,776	110,497	123,783	145,518

NA Not available. <sup>1</sup> Through 1980, includes both individually owned business and farm returns; thereafter, includes only nonfarm business returns. <sup>2</sup> Includes other amounts not shown separately.

Source: U.S. Internal Revenue Service, *Statistics of Income Bulletin*.

## No. 864. Partnerships—Selected Items, by Industry: 1980 to 1988

[In millions of dollars, except partners and partnerships in thousands. Covers active partnerships only. Includes partnerships not allocable by nature of business. Figures are estimates based on samples. See Appendix III]

INDUSTRY AND YEAR	NUMBER OF PARTNERSHIPS			Number of partners	Total assets	Business receipts <sup>1 2</sup>	Total deductions <sup>2</sup>	Net income less loss <sup>2</sup>	Net income	Net loss
	Total	With net income	With net loss							
<b>All industries:</b>										
1980	1,380	774	605	8,420	597,504	285,967	283,749	8,249	45,062	36,813
1984	1,644	845	799	12,427	1,030,849	357,803	378,693	3,500	69,697	73,197
1985	1,714	876	838	13,245	1,269,434	349,169	376,001	-8,884	77,045	85,928
1986	1,703	851	851	15,229	1,403,750	378,703	414,673	-17,371	80,215	97,586
1987	1,648	865	783	16,963	1,381,297	411,457	423,499	-5,419	87,654	93,073
1988	1,654	901	753	17,291	1,580,194	463,956	464,991	14,493	111,384	96,892
<b>Agriculture, forestry, and fishing:</b>										
1980	126	72	54	381	24,595	21,611	22,859	472	2,539	2,067
1984	139	73	66	494	26,739	5,886	9,242	749	2,478	3,227
1985	136	76	60	585	27,027	6,529	10,495	-1,049	2,797	3,846
1986	148	78	69	642	24,749	6,085	9,825	-938	2,746	3,684
1987	149	97	52	592	26,402	6,756	9,146	2,015	4,488	2,472
1988	122	80	42	555	24,106	8,988	11,602	1,079	3,827	2,748
<b>Mining:</b>										
1980	35	15	20	722	24,742	13,201	18,248	-4,208	3,920	8,128
1984	57	31	26	2,007	52,415	16,638	21,965	69	7,857	7,788
1985	62	33	30	2,207	66,930	19,922	21,920	1,482	7,884	6,402
1986	53	23	30	2,351	66,969	14,749	21,290	-3,458	5,214	8,672
1987	60	24	36	2,742	71,492	15,332	19,424	-1,360	5,698	7,058
1988	48	31	17	2,467	65,652	15,977	18,759	934	6,641	5,707
<b>Oil and gas extraction:</b>										
1980	31	14	17	686	18,881	9,252	13,659	-3,694	3,577	7,271
1984	51	27	24	1,833	41,266	14,177	16,674	787	7,349	6,561
1985	56	31	25	2,130	55,760	15,577	16,479	2,272	7,280	5,008
1986	49	22	27	2,270	55,987	10,995	16,382	-2,657	4,660	7,317
1987	54	22	32	2,681	62,805	11,247	15,061	-1,295	5,109	6,403
1988	45	30	15	2,429	57,244	11,763	14,688	468	5,711	5,243
<b>Construction:</b>										
1980	67	51	16	160	9,811	18,407	17,202	1,560	2,119	559
1984	65	47	18	173	13,783	23,198	21,655	2,193	2,966	773
1985	57	41	16	134	15,008	21,476	20,080	2,207	2,743	536
1986	61	41	20	137	16,556	26,823	25,123	2,498	3,206	708
1987	62	48	14	153	17,077	26,295	24,293	2,766	3,350	584
1988	74	60	14	179	20,070	30,978	28,712	3,284	3,929	645
<b>Transportation and public utilities:</b>										
1980	20	11	10	73	9,291	5,868	5,821	248	1,092	844
1984	21	14	7	142	21,109	10,733	13,332	-2,007	1,280	3,268
1985	25	15	10	186	26,468	11,253	14,814	-3,066	1,360	4,426
1986	21	7	14	223	33,567	12,599	16,276	-3,029	1,682	4,712
1987	30	13	17	429	42,015	19,795	24,228	-3,781	2,028	5,809
1988	20	12	8	433	45,003	21,639	25,389	-2,292	2,951	5,244
<b>Manufacturing:</b>										
1980	30	20	10	92	11,252	15,327	16,142	-472	1,199	1,671
1984	30	15	15	94	19,574	18,326	20,046	-1,101	1,165	2,266
1985	30	12	18	105	24,838	22,588	24,225	-1,085	1,228	2,314
1986	28	17	11	108	25,299	22,227	23,187	-458	1,512	1,970
1987	35	18	17	178	30,965	32,356	32,576	806	2,504	1,698
1988	26	12	14	173	41,714	43,724	43,345	1,540	3,598	2,058
<b>Wholesale and retail trade:</b>										
1980	200	123	77	487	17,727	65,793	63,988	2,475	3,374	900
1984	185	98	87	444	21,222	72,335	71,707	1,666	3,238	1,572
1985	201	113	88	493	20,568	69,079	68,119	1,977	3,467	1,490
1986	174	105	69	409	23,007	68,495	67,216	2,272	3,717	1,445
1987	185	100	85	476	26,105	70,560	69,277	2,697	4,215	1,518
1988	180	104	76	490	26,512	83,640	56,375	3,351	4,742	1,391
<b>Finance, insurance, and real estate:</b>										
1980	637	313	325	5,566	454,531	87,133	91,382	-4,249	15,169	19,418
1984	791	350	441	7,408	770,457	94,362	113,606	-19,244	25,646	44,890
1985	844	369	475	7,755	979,787	92,309	118,237	-25,929	30,383	56,311
1986	853	350	503	9,459	1,068,220	112,594	145,574	-32,980	32,477	65,457
1987	828	365	463	10,327	1,040,671	123,239	139,480	-26,777	36,061	62,837
1988	869	398	471	10,880	1,200,673	115,415	127,356	-19,258	47,842	67,100
<b>Services:</b>										
1980	263	169	94	938	45,510	58,627	48,106	12,424	15,649	3,224
1984	331	204	127	1,578	87,984	90,244	82,239	15,583	24,800	9,217
1985	341	207	134	1,713	106,597	104,197	96,202	16,541	26,942	10,400
1986	325	208	117	1,744	123,461	111,701	102,362	18,563	29,021	10,458
1987	291	194	97	2,042	125,134	116,379	104,296	18,092	29,118	11,025
1988	296	197	99	2,060	154,548	141,909	126,505	25,639	37,527	11,888

<sup>1</sup> Business plus investment receipts for partnerships in finance, insurance, and real estate, and business receipts for all other industries through 1986. Beginning 1987, excludes gross income from rental real estate and other rental activities and portfolio income distributed directly to partners. <sup>2</sup> Beginning 1984, the agriculture, forestry, and fishing industries are based on revised collection procedures. See source for detail.

Source: U.S. Internal Revenue Service, *Statistics of Income, Partnership Returns—1978-1982*, and *Statistics of Income Bulletin*.

### No. 865. Partnership Returns—Selected Income Statement and Balance Sheet Items: 1970 to 1988

[In billions of dollars, except as indicated. Covers active partnerships only. All figures are estimates based on samples. See headnote, table 863. See also Appendix III and *Historical Statistics, Colonial Times to 1970*, series V 7-9]

ITEM	1970	1975	1980	1983	1984	1985	1986	1987	1988
<b>Partnerships, number (1,000)</b> . . . . .	<b>936</b>	<b>1,073</b>	<b>1,380</b>	<b>1,542</b>	<b>1,644</b>	<b>1,714</b>	<b>1,703</b>	<b>1,648</b>	<b>1,654</b>
Number with net income (1,000) . . . . .	640	661	774	784	845	876	851	865	901
Number with balance sheets (1,000) . . . . .	556	783	1,194	1,191	1,215	1,227	1,203	1,129	1,155
<b>Number of partners (1,000)</b> . . . . .	<b>3,698</b>	<b>4,951</b>	<b>8,420</b>	<b>10,589</b>	<b>12,427</b>	<b>13,245</b>	<b>15,229</b>	<b>16,963</b>	<b>17,291</b>
<b>Assets, total</b> <sup>1 2</sup> . . . . .	<b>116.8</b>	<b>235.5</b>	<b>597.5</b>	<b>887.0</b>	<b>1,030.8</b>	<b>1,269.4</b>	<b>1,403.8</b>	<b>1,381.3</b>	<b>1,580.2</b>
Depreciable assets (net) . . . . .	(NA)	113.1	239.1	345.9	581.6	695.9	779.9	567.5	621.2
Inventories, end of year . . . . .	(NA)	12.0	33.2	77.1	61.8	27.3	47.4	45.1	51.2
Land . . . . .	(NA)	36.7	70.2	98.4	122.0	152.2	179.1	177.9	200.3
<b>Liabilities, total</b> <sup>1</sup> . . . . .	<b>(NA)</b>	<b>193.9</b>	<b>488.7</b>	<b>745.2</b>	<b>855.4</b>	<b>1,269.4</b>	<b>1,175.7</b>	<b>1,385.7</b>	<b>1,580.2</b>
Accounts payable . . . . .	(NA)	12.3	33.9	34.7	32.8	46.9	43.6	41.3	48.9
Short-term debt <sup>3</sup> . . . . .	(NA)	22.7	48.0	67.3	68.6	102.8	92.5	81.7	86.6
Long-term debt <sup>4</sup> . . . . .	(NA)	536.3	178.0	268.3	322.3	382.0	429.2	429.9	473.6
Nonrecourse loans . . . . .	(NA)	( <sup>5</sup> )	118.9	194.8	260.2	327.6	365.0	388.4	436.9
Partner's capital accounts . . . . .	(NA)	41.6	108.8	141.8	175.5	200.2	228.0	247.4	267.1
<b>Total receipts</b> <sup>1 6 7</sup> . . . . .	<b>93.3</b>	<b>148.4</b>	<b>292.0</b>	<b>291.3</b>	<b>375.2</b>	<b>367.1</b>	<b>397.3</b>	<b>473.8</b>	<b>540.2</b>
Business receipts . . . . .	90.2	142.5	271.1	243.2	318.3	302.7	327.4	411.5	464.0
Interest received <sup>8</sup> . . . . .	0.9	2.4	10.9	15.0	16.7	20.6	21.7	17.9	19.0
<b>Deductions, total</b> <sup>1 7</sup> . . . . .	<b>83.6</b>	<b>140.7</b>	<b>283.7</b>	<b>293.9</b>	<b>378.7</b>	<b>376.0</b>	<b>414.7</b>	<b>423.5</b>	<b>465.0</b>
Cost of goods sold/operations . . . . .	46.0	64.7	113.9	125.3	180.9	146.3	164.2	237.2	252.6
Salaries and wages . . . . .	8.1	12.5	22.3	24.7	28.5	33.9	36.3	40.7	47.1
Taxes paid . . . . .	3.2	5.8	9.6	5.9	6.7	7.7	7.9	6.9	8.0
Interest paid . . . . .	4.5	12.1	28.4	22.4	25.4	28.7	29.5	20.0	23.2
Depreciation . . . . .	4.6	10.1	21.6	37.3	19.8	22.6	23.4	19.3	19.8
<b>Net income (less loss)</b> . . . . .	<b>9.8</b>	<b>7.7</b>	<b>8.2</b>	<b>-2.6</b>	<b>-3.5</b>	<b>-8.9</b>	<b>-17.4</b>	<b>-5.4</b>	<b>14.5</b>
Businesses with net income . . . . .	14.4	22.4	45.1	60.3	69.7	77.0	80.2	87.7	111.4

NA Not available. <sup>1</sup> Includes other amounts not shown separately. <sup>2</sup> Total assets, total liabilities, and partner's capital accounts are somewhat understated because not all partnership returns filed contained a complete balance sheet. <sup>3</sup> Represents mortgages, notes, and bonds payable in less than 1 year. <sup>4</sup> Represents mortgages, notes, and bonds payable in 1 year or more. <sup>5</sup> Tax year 1975 long-term debt included nonrecourse loans. <sup>6</sup> Beginning 1987, excludes gross income from rental real estate and other rental activities and portfolio income distributed directly to partners. <sup>7</sup> Beginning 1987, receipts, deductions, and net income from trade or business only. Except for total receipts, excludes income and expenses related to certain investment activities. See source for detail. <sup>8</sup> Beginning 1983, includes both interest and dividends.

Source: U.S. Internal Revenue Service, *Statistics of Income Bulletin*, various publications.

### No. 866. Corporate Funds—Sources and Uses: 1970 to 1989

[In billions of dollars, except percent. Covers nonfarm nonfinancial corporate business. See text, section 17]

SOURCE AND USE	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
<b>Sources, total.</b> . . . . .	<b>101.8</b>	<b>155.5</b>	<b>323.3</b>	<b>419.2</b>	<b>495.0</b>	<b>457.3</b>	<b>510.7</b>	<b>486.3</b>	<b>498.4</b>	<b>516.2</b>
Internal . . . . .	62.8	124.8	200.1	285.7	336.3	352.3	344.9	352.8	372.5	369.7
Domestic undistributed profits . . . . .	7.6	36.4	53.7	22.2	41.8	16.7	-10.4	7.5	19.4	3.1
IVA and CCA <sup>1</sup> . . . . .	-1.6	-17.9	59.2	5.1	25.1	53.5	56.3	25.8	13.9	3.0
Capital consumption allowances . . . . .	49.9	91.9	171.3	228.2	238.4	251.0	265.9	280.2	295.6	315.8
Foreign earnings <sup>2</sup> . . . . .	6.9	14.4	34.4	30.2	30.9	31.1	33.1	39.1	43.6	47.8
External <sup>3</sup> . . . . .	39.0	30.8	123.1	133.5	158.7	105.0	165.8	133.6	125.9	146.5
Percent of total . . . . .	38.3	19.8	38.1	31.8	32.1	23.0	32.5	27.5	25.3	28.4
Credit market funds . . . . .	34.2	23.1	70.7	78.3	95.1	50.9	123.0	69.0	67.0	65.3
Securities and mortgages . . . . .	26.3	39.4	30.5	44.6	-9.1	-3.0	58.9	38.1	-2.2	-13.0
Equity issues . . . . .	5.7	9.9	12.9	23.5	-74.5	-81.5	-80.8	-76.5	-130.5	-130.8
Bonds and mortgages <sup>4</sup> . . . . .	20.6	29.5	17.6	21.1	65.4	78.5	139.7	114.6	128.3	117.7
Loans and short-term paper . . . . .	7.8	-16.3	40.2	33.7	104.2	53.9	64.0	30.9	69.3	78.3
Other . . . . .	4.9	7.7	52.5	55.2	63.6	54.1	42.9	64.6	58.8	81.2
Profit taxes payable . . . . .	-3.7	-1.1	-0.8	6.7	4.4	-0.4	3.6	-0.7	-1.9	1.9
Trade debt . . . . .	7.1	6.2	38.0	37.0	33.7	34.0	3.1	18.0	3.2	19.8
Foreign direct investments in U.S. . . . .	1.5	2.6	15.3	11.5	25.6	20.5	36.1	47.3	57.6	59.5
<b>Uses, total.</b> . . . . .	<b>99.5</b>	<b>152.8</b>	<b>341.6</b>	<b>392.0</b>	<b>473.0</b>	<b>422.9</b>	<b>448.2</b>	<b>453.9</b>	<b>473.4</b>	<b>479.0</b>
Capital expenditures . . . . .	80.8	111.7	243.2	269.9	367.9	339.9	328.8	348.3	380.4	384.7
Increase in financial assets . . . . .	18.7	41.1	98.4	122.1	105.1	83.0	119.3	105.6	92.9	94.4
<b>Discrepancy (sources less uses)</b> . . . . .	<b>2.3</b>	<b>2.7</b>	<b>-18.3</b>	<b>27.2</b>	<b>22.0</b>	<b>34.4</b>	<b>62.6</b>	<b>32.4</b>	<b>25.0</b>	<b>37.2</b>

<sup>1</sup> Inventory valuation and capital consumption adjustment. <sup>2</sup> Foreign branch profits, dividends, and subsidiaries' earnings retained abroad. <sup>3</sup> Net increases in liability. <sup>4</sup> Includes industrial pollution control revenue bonds, issued by State and local governments.

Source: Board of Governors of the Federal Reserve System. Data derived from *Flow of Funds Accounts*, annual.

**No. 867. Nonfinancial Corporate Business-Sector Balance Sheet: 1970 to 1989**

[In billions of dollars. Represents year-end outstandings]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Total assets</b>	<b>1,305</b>	<b>2,210</b>	<b>4,004</b>	<b>4,479</b>	<b>4,650</b>	<b>4,868</b>	<b>5,204</b>	<b>5,444</b>	<b>5,735</b>	<b>6,073</b>	<b>6,425</b>	<b>6,799</b>
Tangible assets (current cost)	935	1,652	2,988	3,363	3,508	3,811	3,850	4,000	4,159	4,385	4,642	4,876
Reproducible	823	1,487	2,671	2,993	3,107	3,186	3,386	3,505	3,632	3,831	4,084	4,272
Land	112	164	318	370	401	425	464	495	527	554	577	604
Financial assets	370	559	1,015	1,116	1,142	1,257	1,355	1,444	1,576	1,688	1,784	1,863
Liquid assets <sup>1</sup>	69	125	197	220	267	302	326	354	429	437	472	484
Checkable deposits and currency	44	54	57	47	53	62	74	94	114	104	120	113
Time deposits	5	22	38	48	59	71	74	80	88	92	100	96
Consumer credit	15	20	25	25	25	29	31	32	32	35	37	39
Mutual fund shares	1	1	2	2	3	5	7	13	16	13	12	21
Trade credit	191	252	482	507	492	544	592	634	650	717	733	741
Miscellaneous assets	94	160	310	361	354	377	398	412	448	486	528	578
<b>Total liabilities</b>	<b>537</b>	<b>752</b>	<b>1,289</b>	<b>1,435</b>	<b>1,486</b>	<b>1,618</b>	<b>1,856</b>	<b>2,043</b>	<b>2,286</b>	<b>2,509</b>	<b>2,753</b>	<b>3,004</b>
Credit market instruments	352	533	828	925	966	1,044	1,217	1,354	1,556	1,712	1,899	2,096
Profit taxes payable	11	15	30	24	14	19	22	18	20	18	15	15
Trade debt	160	177	348	376	381	418	452	486	489	507	510	505
Foreign direct investment in U.S.	13	28	83	109	125	137	165	185	220	272	329	389
<b>Net worth</b>	<b>768</b>	<b>1,458</b>	<b>2,714</b>	<b>3,044</b>	<b>3,163</b>	<b>3,250</b>	<b>3,348</b>	<b>3,401</b>	<b>3,449</b>	<b>3,564</b>	<b>3,672</b>	<b>3,795</b>

<sup>1</sup> Includes other assets not shown separately.Source: Board of Governors of the Federal Reserve System, *Balance Sheets for the U.S. Economy*.**No. 868. Corporation Income Tax Returns—Selected Financial Items: 1970 to 1987**[In billions of dollars, except number of returns. Covers active corporations only. All corporations are required to file returns except those specifically exempt. See source for changes in law affecting compatibility of historical data. Based on samples; see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series Y 381-392]

ITEM	1970	1975	1980	1982	1983	1984	1985	1986	1987
<b>Number of returns, total (1,000)</b>	<b>1,665</b>	<b>2,024</b>	<b>2,711</b>	<b>2,926</b>	<b>2,999</b>	<b>3,171</b>	<b>3,277</b>	<b>3,429</b>	<b>3,612</b>
Number with net income (1,000)	1,008	1,226	1,597	1,808	1,676	1,778	1,820	1,908	1,995
S Corporation returns <sup>1</sup> (1,000)	257	358	545	564	648	701	725	826	1,128
<b>BALANCE SHEET</b>									
<b>Assets, total<sup>2</sup></b>	<b>2,635</b>	<b>4,287</b>	<b>7,617</b>	<b>9,358</b>	<b>10,201</b>	<b>11,107</b>	<b>12,773</b>	<b>14,163</b>	<b>15,311</b>
Cash	177	290	529	541	590	596	683	763	754
Notes and accounts receivable	615	1,052	1,985	2,420	2,677	2,897	3,318	3,594	3,763
Inventories	190	318	535	581	599	664	715	733	829
Investments in Government obligations	197	316	472	606	685	726	917	1,059	1,092
Mortgage and real estate	328	548	894	942	982	1,127	1,259	1,377	1,455
Other investments	401	626	1,214	1,605	1,798	1,973	2,414	2,846	3,227
Depreciable assets	869	1,277	2,107	2,583	2,730	2,913	3,174	3,383	3,603
Depletable assets	19	39	72	95	108	115	112	116	123
Land	47	67	93	110	119	128	141	150	159
<b>Liabilities<sup>2</sup></b>	<b>2,635</b>	<b>4,287</b>	<b>7,617</b>	<b>9,358</b>	<b>10,201</b>	<b>11,107</b>	<b>12,773</b>	<b>14,163</b>	<b>15,311</b>
Accounts payable	149	263	542	679	671	741	892	909	998
Mortgages, notes, and bonds, short-term <sup>3</sup>	171	272	505	667	760	867	1,001	1,084	1,247
Mortgages, notes, and bonds, long-term <sup>4</sup>	363	587	987	1,224	1,323	1,494	1,699	1,958	2,141
Capital stock	201	252	417	658	787	839	920	1,191	1,292
Paid-in or capital surplus	197	299	532	782	874	1,068	1,421	1,726	1,988
Retained earnings	368	568	1,070	1,228	1,274	1,308	1,366	1,394	1,341
<b>Net worth</b>	<b>752</b>	<b>1,097</b>	<b>1,944</b>	<b>2,470</b>	<b>2,645</b>	<b>2,864</b>	<b>3,304</b>	<b>3,698</b>	<b>3,947</b>
<b>INCOME STATEMENT</b>									
<b>Receipts, total<sup>5</sup></b>	<b>1,751</b>	<b>3,199</b>	<b>6,361</b>	<b>7,024</b>	<b>7,135</b>	<b>7,861</b>	<b>8,398</b>	<b>8,669</b>	<b>9,185</b>
Business receipts <sup>6</sup>	1,621	2,962	5,732	6,157	6,395	6,948	7,370	7,535	8,415
Interest <sup>7</sup>	72	143	367	530	511	580	635	662	706
Rents and royalties	17	27	54	83	83	90	105	110	113
<b>Deductions, total<sup>8</sup></b>	<b>1,683</b>	<b>3,053</b>	<b>6,125</b>	<b>6,869</b>	<b>6,945</b>	<b>7,629</b>	<b>8,158</b>	<b>8,395</b>	<b>9,244</b>
Cost of sales and operations	1,146	2,130	4,205	4,271	4,308	4,693	4,894	4,923	5,596
Compensation of officers	33	58	109	129	141	157	171	185	200
Rent paid on business property	24	41	72	95	105	119	135	145	154
Taxes paid	50	82	163	166	173	192	201	203	211
Interest paid	62	129	345	515	475	536	569	573	590
Depreciation	53	86	157	213	241	265	304	313	317
Advertising	18	27	52	65	72	82	92	99	107
<b>Net income (less loss), total<sup>9</sup></b>	<b>66</b>	<b>143</b>	<b>239</b>	<b>154</b>	<b>188</b>	<b>233</b>	<b>240</b>	<b>270</b>	<b>328</b>
Net income	84	169	297	274	297	349	364	409	465
Deficit	18	26	58	120	109	116	124	139	137
<b>TAX ITEMS</b>									
Income subject to tax	72	147	247	205	219	257	266	276	312
Income tax before credits <sup>9</sup>	33	66	104	85	90	106	109	109	115
<b>Tax credits, total<sup>2</sup></b>	<b>5</b>	<b>26</b>	<b>42</b>	<b>40</b>	<b>40</b>	<b>44</b>	<b>48</b>	<b>37</b>	<b>21</b>
Foreign tax credit	5	20	25	19	20	21	24	21	21
<b>Income tax after credits<sup>9</sup></b>	<b>28</b>	<b>39</b>	<b>62</b>	<b>45</b>	<b>51</b>	<b>62</b>	<b>61</b>	<b>72</b>	<b>84</b>

<sup>1</sup> Represents corporations with no more than 35 shareholders (10 prior to 1983), most of which are individuals, electing to be taxed at the shareholder level. <sup>2</sup> Includes items not shown separately. <sup>3</sup> Payable in less than 1 year. <sup>4</sup> Payable in one year or more. <sup>5</sup> Appropriated and unappropriated. <sup>6</sup> For 1987, receipts, deductions and net income of S corporations (footnote 1) limited to those from trade or business. Except for total receipts, excludes income and expenses related to certain investment activities. <sup>7</sup> For 1987, includes sales and cost of sales of securities, commodities and real estate by exchanges, brokers or dealers selling on their own account. <sup>8</sup> Includes tax-exempt interest on Government obligations issued by U.S., State, and local governments. <sup>9</sup> Consists of regular (and alternative tax); excludes minimum tax and adjustments for certain prior year credits.

Tax year 1970 includes surcharge of \$784 million.

Source: U.S. Internal Revenue Service, *Statistics of Income, Corporation Income Tax Returns*, annual.

# **No. 869. Corporation Income Tax Returns—Financial Summary, by Industry: 1970 to 1987**

[In billions of dollars, except as indicated. Covers active corporations only. Industrial distribution based on data collected from companies; see text, section 17. Excludes corporations not allocable by nature of business]

ITEM	1970	1980	1982	1983	1984	1985	1986	1987
<b>Agriculture, forestry, and fishing:</b>								
Returns (1,000)	37	81	91	92	98	103	107	117
Assets	11.9	40.7	50.4	50.3	50.7	52.7	53.5	55.4
Liabilities	7.9	29.3	36.3	36.7	38.4	37.2	38.4	37.2
Receipts <sup>2</sup>	14.3	52.1	65.4	59.2	66.6	70.5	77.5	77.1
Deductions <sup>2</sup>	14.2	51.4	65.4	59.4	66.4	70.6	76.3	75.4
Net income (less loss) <sup>2</sup>	0.1	0.7	(-2)	-0.2	0.2	-0.1	1.1	1.6
<b>Mining:</b>								
Returns (1,000)	14	26	37	37	41	41	40	42
Assets	24.0	126.9	192.4	194.4	209.0	240.8	206.1	220.1
Liabilities	10.6	72.9	112.5	108.8	114.7	136.0	107.5	110.6
Receipts <sup>2</sup>	17.7	176.7	203.1	132.4	123.5	142.0	98.6	96.8
Deductions <sup>2</sup>	15.1	169.1	203.0	134.3	124.6	145.4	102.1	96.7
Net income (less loss) <sup>2</sup>	1.8	7.8	0.5	-1.6	-0.4	-2.5	-3.1	0.3
<b>Construction:</b>								
Returns (1,000)	139	272	282	284	307	318	342	371
Assets	42.7	132.9	153.1	161.4	195.3	215.3	218.9	222.1
Liabilities	30.9	100.1	114.2	119.8	144.9	160.6	166.1	168.1
Receipts <sup>2</sup>	90.6	267.2	281.7	290.8	338.6	387.2	412.5	454.8
Deductions <sup>2</sup>	89.1	262.1	279.6	288.6	335.7	382.8	406.7	446.1
Net income (less loss) <sup>2</sup>	1.5	5.3	2.3	2.3	2.9	4.4	5.8	8.7
<b>Manufacturing:</b>								
Returns (1,000)	198	243	259	262	272	277	285	294
Assets	612.9	1,709.5	2,060.7	2,233.0	2,417.6	2,644.4	2,931.6	3,111.7
Liabilities	304.0	960.3	1,163.8	1,279.9	1,392.6	1,544.7	1,807.2	1,920.0
Receipts <sup>2</sup>	723.0	2,404.3	2,488.3	2,552.8	2,768.2	2,831.1	2,810.7	3,141.4
Deductions <sup>2</sup>	692.5	2,290.6	2,423.3	2,469.3	2,661.2	2,733.1	2,723.7	3,012.1
Net income (less loss) <sup>2</sup>	31.8	125.7	75.8	95.3	121.2	113.8	101.8	145.5
<b>Transportation and public utilities:</b>								
Returns (1,000)	87	111	115	123	128	138	138	148
Assets	287.7	758.4	919.9	998.9	1,084.9	1,246.4	1,310.2	1,352.5
Liabilities	168.5	487.7	567.0	604.6	660.9	755.9	807.7	842.4
Receipts <sup>2</sup>	135.5	523.8	632.3	657.4	725.6	772.4	762.2	786.2
Deductions <sup>2</sup>	127.9	504.0	614.4	638.2	697.2	747.8	740.7	749.0
Net income (less loss) <sup>2</sup>	7.5	20.0	18.3	19.5	28.9	25.1	21.0	37.5
<b>Wholesale and retail trade:</b>								
Returns (1,000)	518	800	840	852	897	917	939	972
Assets	192.2	646.9	753.4	804.2	899.0	1,010.0	1,073.5	1,177.7
Liabilities	115.2	424.6	501.9	539.0	609.7	723.7	773.4	861.2
Receipts <sup>2</sup>	522.5	1,955.5	2,017.7	2,119.4	2,307.6	2,473.9	2,547.4	2,766.7
Deductions <sup>2</sup>	512.9	1,919.5	1,989.7	2,084.5	2,265.8	2,440.4	2,512.1	2,728.5
Net income (less loss) <sup>2</sup>	9.7	35.8	28.4	35.3	42.0	33.1	34.0	38.0
<b>Finance, insurance, and real estate:</b>								
Returns (1,000)	406	493	462	480	497	518	537	521
Assets	1,401.2	4,022.2	4,987.5	5,487.2	5,939.0	7,029.5	7,985.6	8,732.3
Liabilities	1,204.7	3,491.7	4,220.5	4,670.4	5,037.3	5,867.5	6,483.4	7,097.4
Receipts <sup>2</sup>	177.3	697.5	949.9	902.8	1,033.1	1,182.0	1,365.1	1,589.2
Deductions <sup>2</sup>	161.6	652.6	915.2	856.7	985.7	1,104.6	1,245.5	1,476.7
Net income (less loss) <sup>2</sup>	12.2	33.1	21.8	31.7	32.7	60.7	98.6	87.4
<b>Services:</b>								
Returns (1,000)	281	671	820	848	899	939	1,012	1,120
Assets	61.9	178.2	237.9	269.8	307.9	331.0	381.6	435.6
Liabilities	42.3	125.3	170.1	198.1	223.1	241.1	281.4	323.1
Receipts <sup>2</sup>	69.6	279.9	380.8	416.5	490.3	534.6	591.9	663.1
Deductions <sup>2</sup>	68.4	271.8	373.7	410.5	485.0	528.7	584.3	654.0
Net income (less loss) <sup>2</sup>	1.2	8.2	7.2	6.0	5.5	5.9	7.0	9.3
<b>ANNUAL PERCENT CHANGE<sup>3</sup></b>								
<b>Receipts:</b>								
Agriculture, forestry, and fishing	17.7	-2.4	0.5	-9.4	12.6	5.9	9.9	-0.5
Mining	9.3	33.3	1.5	-34.8	-6.7	15	-30.6	-1.8
Construction	8.0	5.7	0.6	3.2	16.4	14.4	6.5	10.2
Manufacturing	1.8	11.7	-4.8	2.6	8.4	2.3	-0.7	11.7
Transportation and public utilities	8.2	17.5	5.6	4.0	10.3	6.4	-1.3	3.1
Wholesale and retail trade	2.8	11.6	-1.1	5.0	8.9	7.2	3.0	8.6
Finance, insurance, and real estate	7.9	24.3	8.2	-5.0	14.4	14.4	15.5	16.4
Services	15.9	14.2	9.8	9.4	17.7	9.0	10.7	12.0

Z Less than half the measure. <sup>1</sup> Liabilities does not include net worth. <sup>2</sup> For 1987, receipts, deductions and net income of S corporations limited to those from trade or business; those from investments are generally excluded. For definition of S corporation, see table 868, footnote 1. <sup>3</sup> Change from preceding year.

Source: U.S. Internal Revenue Service, *Statistics of Income, Corporation Income Tax Returns*, annual.

## No. 870. Corporation Income Tax Returns, by Asset Size-Class and Industry: 1987

[In millions of dollars, except returns. Covers active corporations only. Excludes corporations not allocable by nature of business. The industrial distribution is based on data collected from companies; see text, section 17. Detail may not add to total because of rounding. See table 868. See also *Historical Statistics, Colonial Times to 1970*, series V 167-183 and V 193-196]

INDUSTRY AND ITEM	Total	ASSET SIZE-CLASS					
		Under 10 mil. dol. <sup>1</sup>	10 to 24.9 mil. dol.	25 to 49.9 mil. dol.	50 to 99.9 mil. dol.	100 to 249.9 mil. dol.	250 mil. dol. and over
<b>Agriculture, forestry, and fishing:</b>							
Returns	116,544	116,142	259	78	41	19	6
Assets	55,375	40,070	4,077	2,667	2,898	3,023	2,640
Receipts	77,057	57,770	5,482	3,134	4,034	3,970	2,657
Deductions	75,423	56,747	5,366	3,054	3,856	3,863	2,537
Net income (less loss)	1,627	1,016	127	81	177	107	119
<b>Mining:</b>							
Returns	42,050	41,164	433	192	111	80	71
Assets	220,137	15,377	6,424	6,876	10,139	21,524	159,798
Receipts	96,806	18,901	4,405	4,360	6,281	12,179	50,681
Deductions	96,661	18,959	4,496	4,340	5,991	12,083	50,792
Net income (less loss)	275	-64	-95	13	294	96	32
<b>Construction:</b>							
Returns	371,169	368,900	1,634	379	152	66	38
Assets	222,065	124,821	24,145	12,787	10,626	10,728	38,957
Receipts	454,831	333,330	40,401	19,110	13,921	17,135	30,934
Deductions	446,097	327,071	39,145	18,578	13,559	17,350	30,393
Net income (less loss)	8,701	6,237	1,245	525	356	-225	564
<b>Manufacturing:</b>							
Returns	294,211	284,213	5,401	1,883	1,006	787	922
Assets	3,111,709	189,753	83,716	65,883	70,838	123,571	2,577,948
Receipts	3,141,406	455,168	148,589	100,830	98,258	157,374	2,181,187
Deductions	3,012,111	447,941	143,731	96,892	93,207	150,205	2,080,135
Net income (less loss)	145,494	7,244	4,850	3,937	5,086	7,343	117,034
<b>Transportation and public utilities:</b>							
Returns	147,893	145,853	996	370	174	177	324
Assets	1,352,513	50,318	14,796	13,287	12,175	35,792	1,226,146
Receipts	786,179	122,368	18,101	10,814	10,884	28,009	598,004
Deductions	749,025	121,673	18,073	10,641	10,840	25,299	562,500
Net income (less loss)	37,467	695	27	177	51	693	35,826
<b>Wholesale and retail trade:</b>							
Returns	971,758	963,973	5,093	1,310	635	405	342
Assets	1,177,669	382,349	76,521	45,686	44,072	64,305	564,737
Receipts	2,766,717	1,332,905	217,856	117,668	108,773	154,476	835,038
Deductions	2,728,491	1,321,461	214,330	115,984	106,706	152,123	817,888
Net income (less loss)	38,040	11,409	3,518	1,715	2,055	2,390	16,952
<b>Finance, insurance, and real estate:</b>							
Returns	521,136	497,685	7,862	5,417	4,061	3,161	2,951
Assets	8,732,320	193,595	128,372	195,487	285,235	493,141	7,436,490
Receipts	1,589,218	196,015	36,398	42,095	54,098	89,638	1,170,975
Deductions	1,476,737	191,849	35,910	40,234	51,169	82,443	1,075,132
Net income (less loss)	67,403	3,941	174	1,258	1,903	5,539	74,588
<b>Services:</b>							
Returns	1,119,604	1,116,497	1,824	595	319	231	140
Assets	435,562	165,125	29,758	20,857	22,329	36,649	160,843
Receipts	663,133	445,714	31,432	23,139	24,045	31,865	106,939
Deductions	653,954	440,347	31,380	22,651	23,289	31,719	104,568
Net income (less loss)	9,252	5,334	57	498	764	139	2,460
<b>PERCENT DISTRIBUTION RECEIPTS</b>							
Agriculture, forestry, and fishing	100.0	75.0	7.1	4.1	5.2	5.2	3.4
Mining	100.0	19.5	4.6	4.5	6.5	12.6	52.4
Construction	100.0	73.3	8.9	4.2	3.1	3.8	6.8
Manufacturing	100.0	14.5	4.7	3.2	3.1	5.0	69.4
Transportation and public utilities	100.0	15.6	2.3	1.4	1.4	3.3	76.1
Wholesale and retail trade	100.0	48.2	7.9	4.3	3.9	5.6	30.2
Finance, insurance, and real estate	100.0	12.3	2.3	2.6	3.4	5.6	73.7
Services	100.0	67.2	4.7	3.5	3.6	4.8	16.1

<sup>1</sup> Includes returns with zero assets.

Source: U.S. Internal Revenue Service, *Statistics of Income, Corporation Income Tax Returns*, annual.

**No. 871. Employees and Payroll, by Employment-Size Class: 1975 to 1987**

[Excludes government employees, railroad employees, self-employed persons, etc. See "General Explanation" in source for definitions and statement on reliability of data. An establishment is a single physical location where business is conducted or where services or industrial operations are performed.]

EMPLOYMENT-SIZE CLASS	Unit	1975	1980	1981	1982	1983	1984	1985	1986	1987
<b>Employees, total</b> <sup>1</sup>	<b>1,000</b>	<b>60,519</b>	<b>74,844</b>	<b>74,848</b>	<b>74,287</b>	<b>72,974</b>	<b>75,021</b>	<b>81,111</b>	<b>83,379</b>	<b>85,484</b>
Under 20 employees	1,000	16,393	19,423	19,515	19,898	20,136	21,171	21,810	22,296	23,069
20 to 99 employees	1,000	16,272	21,168	21,231	21,143	20,806	22,449	23,539	24,311	25,221
100 to 499 employees	1,000	13,713	17,840	17,977	17,444	16,794	18,348	19,410	20,260	20,615
500 to 999 employees	1,000	4,872	5,689	5,497	5,436	5,186	5,614	5,716	5,780	5,922
1,000 or more employees	1,000	9,315	10,716	10,630	10,376	10,050	10,413	10,645	10,734	10,657
<b>Annual payroll</b> <sup>1</sup>	<b>Bil. dol.</b>	<b>596</b>	<b>1,035</b>	<b>1,076</b>	<b>1,198</b>	<b>1,269</b>	<b>1,339</b>	<b>1,514</b>	<b>1,608</b>	<b>1,724</b>
Under 20 employees	Bil. dol.	138	231	254	272	298	326	352	375	414
20 to 99 employees	Bil. dol.	147	261	288	303	319	358	388	414	449
100 to 499 employees	Bil. dol.	135	249	279	286	297	334	362	391	417
500 to 999 employees	Bil. dol.	53	91	99	104	107	120	126	132	140
1,000 or more employees	Bil. dol.	123	208	229	234	248	269	286	298	305

<sup>1</sup> Prior to 1987, totals for employees and annual payroll have been revised. Detail may not add to totals because revisions for size class are not available.

Source: U.S. Bureau of the Census, *County Business Patterns*, annual.

**No. 872. Establishments, Employees, and Payroll, by Industry: 1975 to 1987**

[See headnote, table 871]

INDUSTRY	ESTABLISHMENTS (1,000)				EMPLOYEES (1,000)				PAYROLL (bil. dol.)			
	1975	1980	1985	1987	1975	1980	1985	1987	1975	1980	1985	1987
<b>All industries</b> <sup>1</sup>	<b>4,114</b>	<b>4,543</b>	<b>5,701</b>	<b>5,937</b>	<b>60,519</b>	<b>74,844</b>	<b>81,111</b>	<b>85,484</b>	<b>596</b>	<b>1,035</b>	<b>1,514</b>	<b>1,724</b>
Agricultural services <sup>2</sup>	40	46	64	76	195	290	380	438	2	3	5	6
Mining	24	30	37	33	720	994	943	725	10	22	28	23
Contract construction	364	418	476	558	3,322	4,473	4,480	4,884	44	75	98	113
Manufacturing <sup>3</sup>	306	319	358	371	18,372	21,165	19,429	19,003	213	355	458	484
Transportation <sup>3</sup>	147	168	203	228	3,908	4,623	4,809	5,107	51	88	123	138
Wholesale trade	350	365	438	466	4,332	5,211	5,624	5,820	52	89	130	146
Retail trade	1,190	1,223	1,407	1,516	12,271	15,047	16,852	18,417	76	124	179	205
Finance and insurance <sup>4</sup>	372	421	488	536	4,247	5,295	6,004	6,727	42	77	132	170
Services	1,118	1,278	1,712	1,980	12,655	17,186	21,549	24,140	102	197	346	433

<sup>1</sup> Includes nonclassifiable establishments, not shown separately. <sup>2</sup> Includes forestry and fisheries. <sup>3</sup> Includes other public utilities. <sup>4</sup> Includes real estate.

Source: U.S. Bureau of the Census, *County Business Patterns*, annual.

**No. 873. Establishments, Employees, and Payroll, by Employment-Size Class and Industry: 1987**

[See headnote, table 871]

EMPLOYMENT SIZE-CLASS	Unit	All industries <sup>1</sup>	Agricultural services <sup>2</sup>	Mining	Contract construction	Manufacturing	Transportation <sup>3</sup>	Wholesale trade	Retail trade	Finance and insurance <sup>4</sup>	Services
<b>Establishments, total</b>	<b>1,000</b>	<b>5,937</b>	<b>76</b>	<b>33</b>	<b>558</b>	<b>371</b>	<b>228</b>	<b>466</b>	<b>1,516</b>	<b>536</b>	<b>1,980</b>
Under 20 employees	1,000	5,186	72	27	510	244	187	401	1,299	479	1,797
20 to 99 employees	1,000	628	3	5	44	90	33	59	196	47	148
100 to 499 employees	1,000	109	(Z)	1	5	32	7	6	20	8	30
500 to 999 employees	1,000	9	(Z)	(Z)	(Z)	4	1	(Z)	1	1	3
1,000 or more employees	1,000	5	(Z)	(Z)	(Z)	2	(Z)	(Z)	(Z)	(Z)	2
<b>Employees, total</b>	<b>1,000</b>	<b>85,484</b>	<b>438</b>	<b>725</b>	<b>4,884</b>	<b>19,003</b>	<b>5,107</b>	<b>5,820</b>	<b>18,417</b>	<b>6,727</b>	<b>24,140</b>
Under 20 employees	1,000	23,069	252	129	2,071	1,475	881	2,129	6,719	1,931	7,308
20 to 99 employees	1,000	25,221	114	206	1,667	3,949	1,377	2,238	7,783	1,887	5,951
100 to 499 employees	1,000	20,615	52	239	818	6,493	1,362	1,095	3,319	1,501	5,716
500 to 999 employees	1,000	5,922	12	81	128	2,405	430	201	358	496	1,811
1,000 or more employees	1,000	10,657	8	70	200	4,681	1,037	157	238	912	3,355
<b>Annual payroll</b>	<b>Bil. dol.</b>	<b>1,724</b>	<b>6.5</b>	<b>23.5</b>	<b>113.1</b>	<b>484.1</b>	<b>137.5</b>	<b>146.2</b>	<b>205.1</b>	<b>170.4</b>	<b>432.6</b>
Under 20 employees	Bil. dol.	414	3.8	3.4	42.1	30.6	18.3	49.9	72.3	44.6	144.8
20 to 99 employees	Bil. dol.	449	1.6	6.0	40.4	85.2	33.2	55.0	81.0	46.7	99.0
100 to 499 employees	Bil. dol.	417	0.7	8.3	22.0	149.1	38.3	30.1	40.8	38.4	88.8
500 to 999 employees	Bil. dol.	140	(Z)	3.0	3.4	62.4	13.6	6.2	6.0	13.0	32.0
1,000 or more employees	Bil. dol.	305	(Z)	2.9	5.2	156.8	34.2	5.0	5.0	27.7	68.0

<sup>2</sup> Less than 500 establishments or \$500 million. <sup>1</sup> Includes nonclassifiable establishments not shown separately. <sup>2</sup> Includes forestry and fisheries. <sup>3</sup> Includes other public utilities. <sup>4</sup> Includes real estate.

Source: U.S. Bureau of the Census, *County Business Patterns*, annual.



## No. 874. Women-Owned Firms—Major Industry Statistics: 1982 and 1987

SIC <sup>1</sup> code	INDUSTRY	1982		1987					
		Women-owned firms		All firms		Women-owned firms			
		Number of firms (1,000)	Sales and receipts (mil. dol.)	Number of firms (1,000)	Sales and receipts (mil. dol.)	Number of firms (1,000)	Sales and receipts (mil. dol.)	Employees <sup>2,3</sup> (1,000)	Annual payroll <sup>2</sup> (mil. dol.)
(X)	<b>All industries<sup>4</sup></b>	<b>2,612.6</b>	<b>98,292</b>	<b>13,695.5</b>	<b>1,664,808</b>	<b>4,114.8</b>	<b>278,138</b>	<b>3,102.7</b>	<b>40,885</b>
(A)	Agriculture <sup>5</sup>	19.5	686	357.0	20,585	48.0	1,933	24.7	298
(B)	Mining	19.8	2,221	121.1	15,084	26.4	1,934	12.0	272
(C)	Construction	59.0	4,565	1,651.1	232,372	94.3	20,302	180.3	3,985
15	General building contractors	11.1	1,483	354.4	86,562	21.3	7,625	46.7	982
17	Special trade contractors	44.9	2,497	1,233.2	105,185	67.1	9,152	113.4	2,441
(D)	Manufacturing <sup>4</sup>	44.9	5,303	433.0	226,824	94.0	30,914	363.9	6,950
23	Apparel and other textile products	4.7	526	32.9	16,235	17.9	2,641	54.5	647
27	Printing and publishing	13.0	847	74.9	24,440	19.7	3,999	53.4	1,065
(E)	Transportation, public utilities <sup>4</sup>	38.9	3,229	592.8	76,355	79.8	10,936	106.4	1,798
42	Trucking and warehousing	16.2	1,342	358.3	40,866	27.4	4,654	48.9	953
47	Transportation services	13.7	1,282	87.3	14,043	30.4	3,968	24.9	358
(F)	Wholesale trade	32.1	9,190	439.2	298,264	82.5	42,805	187.8	4,089
(G)	Retail trade <sup>4</sup>	631.3	35,861	2,241.5	544,768	798.7	85,418	1,090.7	9,764
54	Food stores	36.8	6,047	198.2	79,112	48.5	14,428	140.5	1,232
55	Auto dealers, service stations	14.0	4,754	217.2	211,843	20.9	20,224	86.8	1,615
56	Apparel accessory stores	27.7	2,446	93.4	18,327	40.6	5,216	71.8	600
58	Eating and drinking places	66.2	6,884	325.8	73,114	90.8	14,167	507.5	3,214
(H)	Finance, insurance, real estate <sup>4</sup>	246.4	6,370	1,227.2	123,710	437.4	17,833	109.3	1,861
64	Insurance agents, brokers	29.2	882	309.1	22,106	53.2	2,306	20.7	397
65	Real estate <sup>6</sup>	212.0	4,733	734.0	68,541	335.4	12,641	69.2	1,010
(I)	Services <sup>4</sup>	1,284.8	26,278	5,937.7	417,105	2,269.0	61,123	1,016.0	11,625
70	Hotels and other lodging places	17.5	1,671	75.1	26,380	22.2	3,201	76.5	715
72	Personal services	394.6	5,500	1,081.8	30,196	561.7	10,289	203.1	1,756
73	Business services	(NA)	(NA)	1,834.8	98,137	690.5	18,936	302.5	3,787
75	Auto repair, services, and garages	11.0	929	348.7	29,990	23.5	2,644	38.5	563
76	Miscellaneous repair services	13.3	430	235.4	11,839	24.0	1,167	15.4	241
79	Amusement and recreation services	45.0	1,132	387.6	19,409	99.5	3,100	41.8	518
80	Health services	123.1	3,989	636.7	81,091	235.3	9,618	161.1	1,917
81	Legal services	23.3	853	249.1	55,293	41.9	2,220	19.6	356
83	Social services	2.3	229	323.0	5,469	269.2	3,047	70.5	566

NA Not available. <sup>1</sup> Standard Industrial Classification. <sup>2</sup> Firms with paid employees. <sup>3</sup> Employees for pay period including March 12. <sup>4</sup> Includes industries not shown separately. <sup>5</sup> Includes agricultural services, forestry, and fishing. <sup>6</sup> Excludes industry 6552 which is included in construction industries.

Source: U.S. Bureau of the Census, 1987 Survey of Women-Owned Businesses, series WB87-1.

## No. 875. Black-Owned Firms—Major Industry Statistics: 1982 and 1987

[Represents black-owned firms with at least 2 percent of black-owned sales and receipts]

SIC <sup>1</sup> code	INDUSTRY	1982		1987					
		Black-owned firms		All firms		Black-owned firms			
		Number of firms (1,000)	Sales and receipts (mil. dol.)	Number of firms (1,000)	Sales and receipts (mil. dol.)	Number of firms (1,000)	Sales and receipts (mil. dol.)	Employees <sup>2,3</sup> (1,000)	Annual payroll <sup>2</sup> (mil. dol.)
(X)	<b>Total<sup>4</sup></b>	<b>308.3</b>	<b>9,673</b>	<b>13,695.5</b>	<b>1,994,808</b>	<b>424.2</b>	<b>19,763</b>	<b>220.5</b>	<b>2,761</b>
(A)	Agriculture <sup>5</sup>	4.6	127	357.0	20,585	7.3	217	3.1	38
(C)	Construction	22.5	829	1,651.1	232,372	36.8	2,174	27.4	425
(D)	Manufacturing	3.7	345	433.0	226,824	8.0	1,023	13.7	244
(E)	Transportation and public utilities <sup>4</sup>	23.9	733	592.8	76,355	37.0	1,573	9.9	154
41	Passenger transit <sup>6</sup>	7.0	87	67.8	3,369	11.6	218	1.7	15
42	Trucking and warehousing	12.9	512	358.3	40,866	19.7	1,010	5.5	98
(F)	Wholesale trade	3.1	432	439.2	298,264	5.5	1,327	6.2	116
(G)	Retail trade <sup>4</sup>	70.8	3,481	2,241.5	544,768	66.2	5,890	62.5	571
54	Food stores	(NA)	820	198.2	79,112	9.0	1,001	7.9	65
58	Eating and drinking establishments	11.4	619	325.8	73,114	11.8	1,084	32.3	205
(H)	Finance, insurance, and real estate <sup>4</sup>	13.0	280	1,227.2	123,710	27.0	804	5.9	95
64	Insurance agents, brokers, and service	4.6	66	309.1	22,106	8.0	189	1.5	25
65	Real estate <sup>7</sup>	7.9	195	734.0	68,541	15.6	506	3.7	54
(I)	Services <sup>4</sup>	136.7	2,835	5,937.7	417,105	209.5	6,120	89.7	1,077
72	Personal services	38.7	551	1,081.8	30,196	56.8	960	12.1	110
73	Business services	(NA)	(NA)	1,834.8	98,137	59.2	1,570	32.6	373
75	Auto repair, services, and garages	7.3	224	348.7	29,990	11.8	427	4.5	57
76	Miscellaneous repair services	4.1	82	235.4	11,839	5.2	154	1.8	26
79	Amusement and recreation services	6.9	121	387.6	19,409	13.3	503	2.0	62
80	Health services	16.8	568	636.7	81,091	30.0	1,351	18.1	216
83	Social services	(NA)	(NA)	323.0	5,469	13.2	224	6.0	47

D Withheld to avoid disclosing data for individual companies; data are included in higher-level totals. NA Not available. <sup>1</sup> Standard Industrial Classification code; see text, section 13. <sup>2</sup> Firms with paid employees. <sup>3</sup> Employees for pay period including March 12. <sup>4</sup> Includes industries not shown separately. <sup>5</sup> Includes agricultural services, forestry, and fishing. <sup>6</sup> Local and interurban. <sup>7</sup> Excludes 6552 which is included in construction industries.

Source: U.S. Bureau of the Census, 1987 Survey of Minority-Owned Business Enterprises, series MB87-1.

### No. 876. Women-Owned and Black-Owned Firms—Number, Receipts, and Employees for 10 Largest Metropolitan Areas: 1987

[Metropolitan areas as defined June 30, 1987. PMSA=Primary Metropolitan Statistical Area, see text, section 1 and Appendix II]

OWNERSHIP OF FIRM AND METROPOLITAN AREA	ALL FIRMS		FIRMS WITH PAID EMPLOYEES	
	Number	Sales and receipts (\$1,000)	Employees (number)	Annual payroll (\$1,000)
<b>WOMEN-OWNED FIRMS</b>				
Los Angeles-Long Beach, CA PMSA	162,417	10,775,455	102,904	1,508,084
New York, NY PMSA	136,209	17,314,335	137,968	2,704,914
Chicago, IL PMSA	89,424	9,195,448	88,824	1,475,619
Washington, DC-MD-VA PMSA	78,744	4,940,185	49,111	821,029
Philadelphia, PA-NJ PMSA	68,032	6,748,908	66,917	1,002,185
Houston, TX PMSA	58,866	2,652,715	24,848	341,183
Boston, MA PMSA	58,975	7,544,694	67,682	1,070,181
Detroit, MI PMSA	58,791	4,182,807	46,222	651,754
Dallas, TX PMSA	55,452	2,721,988	23,795	364,727
Anaheim-Santa Ana, CA PMSA	54,367	3,266,368	30,460	409,188
<b>BLACK-OWNED FIRMS</b>				
New York, NY PMSA	28,063	1,234,910	10,918	165,558
Los Angeles-Long Beach, CA PMSA	23,932	1,300,336	11,412	197,977
Washington, DC-MD-VA PMSA	23,046	951,945	9,804	155,925
Chicago, IL PMSA	15,374	908,500	8,769	116,565
Houston, TX PMSA	12,989	372,256	3,294	42,117
Atlanta, GA PMSA	11,804	747,367	6,828	103,361
Philadelphia, PA-NJ PMSA	10,249	612,995	5,478	71,643
Detroit, MI PMSA	9,852	514,324	5,912	65,722
Baltimore, MD PMSA	8,593	331,493	3,534	37,995
Dallas, TX PMSA	7,857	234,823	2,750	32,190

Source: U.S. Bureau of the Census, 1987 Survey of Minority-Owned Business Enterprises, series MB87-1 and 1987 Survey of Women-Owned Businesses, series WB87-1.

### No. 877. Women-Owned Firms—Number and Receipts, by State: 1982 and 1987

STATE	1982		1987				STATE	1982		1987			
	Firms (1,000)	Sales and receipts (mil. dol.)	Number of firms		Sales and receipts			Firms (1,000)	Sales and receipts (mil. dol.)	Number of firms		Sales and receipts	
			Total (1,000)	Per- cent of U.S. total (per- cent)	Total (mil. dol.)	Per- cent of U.S. total (per- cent)				Total (1,000)	Per- cent of U.S. total (per- cent)	Total (mil. dol.)	Per- cent of U.S. total (per- cent)
U.S.	2,612.6	98,292	4,114.8	30.0	278,138	13.9	MO	54.1	1,989	87.7	29.9	5,349	14.1
AL	30.9	1,268	48.0	27.0	3,624	13.7	MT	12.8	499	17.7	27.9	930	16.6
AK	9.5	379	14.0	28.6	829	16.6	NE	22.7	717	32.3	31.4	1,649	13.7
AZ	35.1	1,027	60.6	31.6	2,911	12.8	NV	11.7	450	18.8	31.5	1,414	14.2
AR	24.5	1,069	35.5	26.3	2,008	14.6	NH	11.9	392	22.7	28.5	1,858	14.2
CA	354.7	12,023	559.8	30.9	31,027	12.6	NJ	63.2	3,573	117.4	28.9	13,554	14.4
CO	57.4	1,829	89.4	34.0	4,261	15.8	NM	16.3	576	25.4	30.9	1,166	16.0
CT	35.5	1,401	60.9	31.0	5,320	15.2	NY	176.5	8,352	284.9	30.6	29,970	14.4
DE	5.7	196	9.7	31.4	753	16.2	NC	57.4	1,860	93.5	28.4	6,813	15.0
DC	8.9	334	11.0	37.6	774	11.9	ND	8.8	340	12.7	29.7	572	13.8
FL	125.4	4,789	221.4	30.1	16,828	16.9	OH	102.5	3,615	154.1	29.6	8,872	12.3
GA	53.3	1,848	88.1	28.8	5,874	12.0	OK	49.2	2,123	63.7	28.5	2,948	15.0
HI	14.4	356	21.7	35.6	857	13.1	OR	40.5	1,357	58.9	31.8	4,279	19.4
ID	13.4	427	19.0	27.9	813	12.5	PA	106.2	4,186	167.4	28.1	13,339	11.5
IL	110.3	4,567	177.1	30.8	13,884	14.0	RI	8.0	270	14.5	27.5	1,340	13.3
IN	62.0	3,192	89.9	30.5	8,913	17.6	SC	27.1	983	42.6	26.6	2,950	15.9
IA	36.1	1,137	53.6	30.8	2,905	16.0	SD	9.4	368	13.4	28.0	726	14.1
KS	36.8	1,235	53.5	31.5	2,661	15.6	TN	44.6	1,707	67.4	26.8	4,226	12.5
KY	36.6	1,583	53.5	27.6	3,265	14.4	TX	199.8	8,074	298.1	29.1	13,385	11.6
LA	38.3	2,201	55.9	27.3	2,962	13.8	UT	19.1	665	29.8	29.8	1,392	14.1
ME	14.5	420	23.9	27.1	1,635	15.7	VT	8.0	267	13.8	30.5	766	14.8
MD	48.4	1,530	81.9	33.6	5,509	13.3	VA	56.9	1,753	94.4	31.7	5,952	14.4
MA	63.2	1,778	111.4	31.2	11,140	16.8	WA	59.3	1,599	90.3	31.5	4,689	12.7
MI	87.1	2,790	134.0	31.4	7,889	12.3	WV	15.7	616	22.5	28.9	1,114	15.8
MN	56.2	1,751	88.1	31.4	4,991	14.3	WI	44.4	1,562	69.2	28.9	4,667	14.6
MS	20.4	955	29.0	25.8	2,062	15.7	WY	8.4	312	10.8	31.2	524	15.3

Source: U.S. Bureau of the Census, 1987 Survey of Women-Owned Business Enterprises, series WB87-1.

## No. 878. Black-Owned Firms—Number and Receipts, by State: 1982 and 1987

STATE	1982		1987				STATE	1982		1987			
	Firms (num- ber)	Sales and re- ceipts (mil. dol.)	Number of firms		Sales and receipts			Firms (num- ber)	Sales and re- ceipts (mil. dol.)	Number of firms		Sales and receipts	
			Total	Per- cent of U.S. total	Total (mil. dol.)	Per- cent of U.S. total				Total	Per- cent of U.S. total	Total (mil. dol.)	Per- cent of U.S. total
U.S. . .	308,260	9,619	424,165	3.1	19,763	1.0	MO . . . . .	5,782	194	7,832	2.7	336	0.9
AL . . . . .	6,806	206	10,085	5.7	440	1.7	MT . . . . .	55	3	77	0.1	7	0.1
AK . . . . .	433	(D)	507	1.0	14	0.3	NE . . . . .	682	(D)	863	0.8	31	0.3
AZ . . . . .	1,274	(D)	1,811	0.9	91	0.4	NV . . . . .	636	31	1,002	1.7	39	0.4
AR . . . . .	3,323	96	4,392	3.3	215	1.6	NH . . . . .	123	(D)	229	0.3	31	0.2
CA . . . . .	38,876	1,145	47,728	2.6	2,364	1.0	NJ . . . . .	9,121	430	14,556	3.6	996	1.1
CO . . . . .	2,163	69	2,871	1.1	106	0.4	NM . . . . .	486	14	587	0.7	27	0.4
CT . . . . .	2,455	77	4,061	2.1	226	0.6	NY . . . . .	24,044	658	36,289	3.9	1,886	0.9
DE . . . . .	982	34	1,399	4.5	78	1.7	NC . . . . .	13,333	355	19,487	5.9	746	1.6
DC . . . . .	8,179	201	8,275	28.3	412	6.3	ND . . . . .	54	9	57	0.1	1	-
FL . . . . .	15,596	571	25,527	3.5	1,212	1.2	OH . . . . .	12,390	326	15,983	3.1	626	0.9
GA . . . . .	13,490	457	21,283	7.0	1,180	2.4	OK . . . . .	2,837	(D)	3,461	1.5	94	0.5
HI . . . . .	271	6	399	0.7	12	0.2	OR . . . . .	644	(D)	848	0.5	34	0.2
ID . . . . .	84	3	94	0.1	5	0.1	PA . . . . .	9,501	324	11,728	2.0	747	0.6
IL . . . . .	14,785	632	19,011	3.3	1,100	1.1	RI . . . . .	283	(D)	489	0.9	18	0.2
IN . . . . .	5,011	(D)	5,867	2.0	350	0.7	SC . . . . .	9,129	(D)	12,915	8.6	444	2.4
IA . . . . .	603	(D)	703	0.4	45	0.2	SD . . . . .	51	3	63	0.1	5	0.1
KS . . . . .	1,903	61	2,323	1.4	154	0.9	TN . . . . .	7,200	230	10,423	4.1	386	1.1
KY . . . . .	2,814	75	3,738	1.9	120	0.5	TX . . . . .	27,361	790	35,725	3.5	1,084	0.9
LA . . . . .	12,359	435	15,331	7.5	532	2.5	UT . . . . .	164	10	202	0.2	9	0.1
ME . . . . .	109	3	131	0.1	5	-	VT . . . . .	83	(D)	98	0.2	7	0.1
MD . . . . .	13,776	328	21,678	8.9	720	1.7	VA . . . . .	13,192	325	18,781	6.3	811	2.0
MA . . . . .	2,782	83	4,761	1.3	252	0.4	WA . . . . .	2,046	61	2,583	0.9	176	0.5
MI . . . . .	10,947	322	13,708	3.2	701	1.1	WV . . . . .	622	(D)	727	0.9	39	0.6
MN . . . . .	1,042	39	1,448	0.5	125	0.4	WI . . . . .	1,844	83	2,381	1.0	191	0.8
MS . . . . .	6,464	204	9,667	8.6	532	4.1	WY . . . . .	90	3	81	0.2	4	0.1

- Represents or rounds to zero. D Withheld to avoid disclosing data for individual companies; data are included in higher-level totals.

Source: U.S. Bureau of the Census, 1987 Survey of Minority-Owned Business Enterprises, MB87-1.

## No. 879. Drug Testing and Employee Assistance Programs, by Size of Establishment and Industry: 1988

[As of summer. Based on a sample of 7,502 private nonagricultural establishments with one or more employees. Subject to sampling variability; see source for details]

SIZE OF ESTABLISHMENT AND INDUSTRY	ESTABLISHMENTS					EMPLOYEES				
	Total (1,000)	With a drug testing program <sup>1</sup>		With an employee assistance program <sup>2</sup>		Total (1,000)	In establishments—			
		Number (1,000)	Percent	Number (1,000)	Percent		With a drug testing program <sup>1</sup>	With an employee assistance program <sup>2</sup>	Number (1,000)	Percent
Total . . . . .	4,542.8	145.3	3.2	296.5	6.5	84,965.7	16,636.2	19.6	26,323.0	31.0
Size of establishment:										
Under 50 employees . . . . .	4,224.6	94.4	2.2	221.2	5.2	31,284.3	1,622.7	5.2	2,754.5	8.8
50 to 99 employees . . . . .	195.6	24.2	12.4	30.8	15.7	12,254.5	1,502.6	12.3	2,037.1	16.6
100 to 499 employees . . . . .	107.5	21.4	19.9	35.3	32.8	21,529.5	4,767.1	22.1	7,796.9	36.2
500 to 999 employees . . . . .	9.5	2.9	30.6	5.1	53.7	6,469.2	1,966.3	30.4	3,507.7	54.2
1,000 or more employees . . . . .	5.6	2.5	44.6	4.1	73.2	13,428.0	6,777.5	50.5	10,226.8	76.2
Industry:										
Mining . . . . .	31.6	6.8	21.6	5.9	18.8	712.0	342.7	48.1	340.8	47.9
Construction . . . . .	458.1	10.5	2.3	12.8	2.8	5,011.9	449.1	9.0	533.2	10.6
Manufacturing . . . . .	335.1	31.9	9.5	38.3	11.4	18,926.1	7,969.9	42.1	9,745.2	51.5
Durable goods . . . . .	193.9	19.1	9.9	20.2	10.4	11,159.0	5,076.0	45.5	6,225.4	55.8
Nondurable goods . . . . .	141.2	12.8	9.1	18.1	12.8	7,767.1	2,893.9	37.3	3,519.8	45.3
Transportation . . . . .	153.5	22.9	14.9	16.7	10.9	3,149.1	1,531.5	48.6	1,134.6	36.0
Communication and public utilities . . . . .	37.5	6.6	17.6	11.6	30.9	2,209.0	1,221.1	55.3	1,680.2	76.1
Wholesale trade . . . . .	467.9	24.7	5.3	36.5	7.8	5,835.0	1,280.6	21.9	1,027.5	17.6
Retail trade . . . . .	1,101.8	7.4	0.7	51.6	4.7	18,413.0	927.0	5.0	3,133.6	17.0
Finance, insurance, and real estate . . . . .	403.9	12.9	3.2	37.2	9.2	6,539.0	821.2	12.6	6,647.9	40.5
Services . . . . .	1,553.4	21.5	1.4	85.8	5.5	24,170.6	2,093.1	8.7	2,080.0	25.2

<sup>1</sup> A drug test is a test designed to detect the presence of metabolites of drugs in urine or blood specimens. Drugs include those classified as Schedule I or II under Controlled Substances Act—opiates, cocaine, marijuana, hallucinogens, and their derivatives. Excluded are prescription drugs, steroids, and alcohol.

<sup>2</sup> Employee assistance programs include programs run internally by organization personnel or through an outside contractor. Programs are not necessarily restricted to drug problems.

Source: U.S. Bureau of Labor Statistics, Report 760, Survey of Employer Anti-drug Programs, January 1989.

**No. 880. Consumer and Farmer Cooperatives, by Type of Association: 1985 to 1988**

[Members in thousands; business in millions of dollars. Business refers to loans outstanding]

TYPE OF ASSOCIATION	1985			1987			1988		
	Associations	Members	Business	Associations	Members	Business	Associations	Members	Business
Credit unions <sup>1</sup>	15,045	45,265	74,409	14,335	50,065	99,541	13,878	52,957	113,744
Electric power cooperatives	868	10,032	11,032	846	10,113	11,401	839	10,242	11,976
Rural telephone cooperatives	250	1,047	607	249	1,079	676	247	1,115	740
Farmer cooperatives selling producer and consumer goods <sup>4</sup>	4,288	(NA)	16,641	3,960	(NA)	14,271	3,778	(NA)	15,424

NA Not available. <sup>1</sup> Covers federally insured credit unions. Source: National Credit Union Administration, *Annual Report of the National Credit Union Administration, 1989*. <sup>2</sup> Source: U.S. Rural Electrification Administration, *Statistical Report—Rural Electric Borrowers*. <sup>3</sup> Source: U.S. Rural Electrification Administration, *Statistical Report—Rural Telephone Borrowers*. <sup>4</sup> Data for fiscal years ending June or earlier in years shown.

Source: Except as noted, U.S. Dept. of Agriculture, Agricultural Cooperative Service, unpublished data.

**No. 881. New Business Incorporations and Business Failures—Number and Liabilities: 1970 to 1989**

[1970 excludes Hawaii; 1970 and 1975 exclude Alaska. Total concerns and failure data prior to 1984 exclude agriculture, forestry and fishing, finance, insurance, and real estate, and services; therefore are not directly comparable with data for 1984 and later. See also *Historical Statistics, Colonial Times to 1970*, series V 20-30]

YEAR	Total concerns in business <sup>1</sup> (1,000)	Index of net business formations <sup>2</sup> (1967=100)	New incorporations (1,000)	FAILURES <sup>3</sup>			YEAR	Total concerns in business <sup>1</sup> (1,000)	Index of net business formations <sup>2</sup> (1967=100)	New incorporations (1,000)	FAILURES <sup>3</sup>		
				Number	Rate per 10,000 concerns	Current liabilities <sup>4</sup> (mil. dol.)					Number	Rate per 10,000 concerns	Current liabilities <sup>4</sup> (mil. dol.)
1970	2,442	108.8	264	10,748	44	1,888	1984	4,885	121.3	635	52,078	107	29,269
1975	2,679	109.9	326	11,432	43	4,380	1985	4,990	120.9	663	57,078	115	36,937
1980	2,780	129.9	532	11,742	42	4,635	1986	5,119	120.4	702	61,616	120	44,724
1981	2,745	124.8	581	16,794	61	6,955	1987	6,004	121.2	685	61,111	102	34,724
1982	2,806	116.4	566	24,908	88	15,611	1988	5,804	124.1	685	57,098	98	39,126
1983	2,851	117.5	602	31,334	110	16,073	1989, prel.	7,694	124.7	677	50,389	65	44,261

<sup>1</sup> Data through 1983 represent number of names listed in July issue of *Dun & Bradstreet Reference Book*. Data for 1984-89 represent the number of establishments listed in the Dun's Census of American Business. The base has been changed due to expanded business failure coverage. <sup>2</sup> Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, May issues.

<sup>3</sup> Includes concerns discontinued following assignment, voluntary or involuntary petition in bankruptcy, attachment, execution, foreclosure, etc.; voluntary withdrawals from business with known loss to creditors; also enterprises involved in court action, such as receivership and reorganization or arrangement which may or may not lead to discontinuance; and businesses making voluntary compromise with creditors out of court. <sup>4</sup> Liabilities exclude long-term publicly held obligations; offsetting assets are not taken into account.

Source: Except as noted, Dun & Bradstreet Corporation, New York, NY, *The Failure Record Through 1989* and *Monthly Failure Report*.

**No. 882. New Business Incorporations and Number of Failures, by State: 1988 and 1989**

[1989 preliminary. Business incorporations in thousands. See headnote, table 881]

DIVISION AND STATE	NEW BUSINESS INCORPORATIONS		NUMBER OF FAILURES		DIVISION AND STATE	NEW BUSINESS INCORPORATIONS		NUMBER OF FAILURES		DIVISION AND STATE	NEW BUSINESS INCORPORATIONS		NUMBER OF FAILURES	
	1988	1989	1988	1989		1988	1989	1988	1989		1988	1989	1988	1989
U.S.	685.1	677.4	57,096	50,389	IA	3.8	4.6	660	564	W.S.C.	53.0	56.7	10,542	8,416
N.E.	40.3	35.3	1,051	1,277	MO	10.3	10.0	1,381	1,156	AR	4.3	6.5	363	306
ME	3.1	2.8	84	132	ND	0.9	0.8	159	106	LA	9.1	9.0	1,438	1,402
NH	3.4	2.9	165	122	SD	1.0	1.0	148	142	OK	7.2	7.2	868	1,268
VT	2.0	1.8	53	51	NE	2.7	2.7	269	216	TX	32.5	34.0	7,873	5,440
MA	16.4	14.1	556	768	KS	4.4	4.4	846	668	Mt.	49.7	46.9	5,756	4,218
RI	3.4	3.3	42	56	S.A.	183.6	190.1	7,255	7,538	MD	1.3	1.3	241	191
CT	11.9	10.4	151	148	DE	31.5	31.0	64	32	IT	1.9	1.9	363	233
M.A.	132.2	126	4,619	4,167	DC	16.9	17.3	424	232	WY	0.8	0.9	205	119
NJ	77.7	73.4	2,360	1,962	VA	2.3	2.3	53	45	CO	16.2	13.4	2,233	1,520
NY	32.7	30.4	860	601	WV	17.7	18	928	1,179	NM	2.5	2.6	344	392
PA	21.8	22.2	1,399	1,604	NC	2.7	2.6	215	162	AZ	12.4	11.6	1,442	1,251
E.N.C.	89.6	91.2	9,067	8,827	SC	12.8	13.2	672	760	UT	3.8	3.9	599	283
OH	19.0	18.8	1,936	1,717	GA	6.2	6.9	385	183	NV	10.7	11.4	329	229
IN	13.0	14.0	923	925	FL	18.7	18.8	1,379	1,787	Pac	78.2	71.9	11,811	9,898
IL	28.7	28.9	3,301	3,387	E.S.C.	75.0	80.0	3,135	3,158	WA	10.1	10.7	1,658	1,317
MI	22.6	22.5	1,799	2,080	KY	25.9	26.3	2,998	2,874	OR	7.2	7.7	509	441
WI	6.3	7.0	1,108	718	TN	7.0	6.9	701	678	CA	56.4	48.2	9,178	7,826
W.N.C.	32.6	33.0	3,999	3,174	AL	8.5	8.5	1,169	1,169	AK	1.4	1.4	287	144
MN	9.5	9.6	536	322	MS	6.6	7.2	635	491	HI	3.2	3.8	179	170

Source: Dun & Bradstreet Corporation, New York, NY, *New Business Incorporations*, monthly and *Business Failure Record*, annual. (Copyright).

## No. 883. Business Starts and Failures—Number and Rate, by Industry: 1985 to 1989

[1988 and 1989 business starts not available. Minus sign (-) indicates decrease]

SIC <sup>1</sup> code	INDUSTRY	BUSINESS STARTS				BUSINESS FAILURES				
		Number			Per- cent change, 1985- 87	Number			Per- cent change, 1988- 89	Rate per 10,000 firms, 1989
		1985	1986	1987		1985	1988	1989		
(X)	Total <sup>2</sup> . . . . .	249,770	253,092	233,710	-7.7	57,253	57,098	50,389	-11.7	65
A	Agriculture, forestry, fishing . . .	3,558	3,818	3,736	-2.1	2,699	1,819	1,438	-20.9	46
B	Mining . . . . .	2,289	1,739	1,540	-11.4	796	493	346	-29.8	77
10	Metal mining . . . . .	65	54	72	33.3	36	14	14	-	92
11	Anthracite mining . . . . .	7	11	13	18.2	5	4	3	-25.0	84
121	Bituminous coal and lignite . . .	258	271	201	-25.8	161	85	68	20.0	141
138	Oil and gas extraction . . . . .	1,862	1,295	1,169	-9.7	565	371	245	-34.0	73
14	Nonmetallic minerals . . . . .	97	108	85	-21.3	29	19	18	15.8	38
C	Construction . . . . .	34,417	33,079	31,246	-5.5	7,005	6,828	6,959	1.9	84
15	General building contractors . . .	13,324	13,039	12,557	-3.7	2,759	2,566	2,687	4.7	90
16	Construction, other than bldg . .	1,822	1,555	1,330	-14.5	419	347	326	-6.1	78
17	Special trade contractors . . . . .	19,271	18,485	17,359	-6.1	3,827	3,915	3,946	0.8	80
D	Manufacturing <sup>2</sup> . . . . .	21,054	20,309	19,236	-5.3	4,869	4,226	3,915	-7.4	78
20	Food and kindred products . . . .	904	962	969	0.7	261	230	213	-7.4	86
22	Textile mill products . . . . .	572	583	558	-4.3	110	92	72	-21.7	70
23	Apparel, other textile products . .	1,674	1,470	1,413	-3.9	338	301	206	-31.6	74
24	Lumber and wood products . . . .	1,366	1,365	1,192	-12.7	415	345	357	3.5	88
25	Furniture and fixtures . . . . .	883	880	760	-13.6	236	229	250	9.2	152
26	Paper and allied products . . . . .	269	283	294	3.9	55	63	52	-17.5	82
27	Printing and publishing . . . . .	3,625	3,245	3,292	1.4	659	626	669	6.9	70
28	Chemicals and allied products . . .	697	717	674	-6.0	172	124	103	-16.9	64
29	Petroleum refining . . . . .	136	111	104	-6.3	26	21	19	-9.5	75
30	Rubber and misc. products . . . .	770	751	700	-6.8	157	123	107	-13.0	69
31	Leather and leather products . . .	155	145	138	-4.8	47	22	29	31.8	82
32	Stone, clay, and glass products . .	615	612	617	0.8	159	148	122	-17.6	63
33	Primary metal products . . . . .	355	401	378	-5.7	122	100	73	-27.0	81
34	Fabricated metal products . . . .	1,711	1,554	1,449	-6.8	484	450	369	-18.0	85
35	Machinery, exc. electric . . . . .	2,865	2,839	2,540	-10.5	721	560	506	-9.6	67
36	Electric and electronic equipment . . . . .	1,528	1,415	1,280	-9.5	329	244	264	8.2	107
37	Transportation equipment . . . . .	803	709	676	-4.7	197	180	189	5.0	117
38	Instruments and related products . . . . .	781	821	750	-8.6	110	120	102	-15.0	62
39	Miscellaneous . . . . .	1,343	1,445	1,447	0.1	271	247	213	-13.8	60
E	Transportation, public utilities . .	8,672	8,496	8,060	-5.1	2,536	2,100	2,052	-2.3	79
40	Railroad transportation . . . . .	13	32	34	6.3	9	2	2	-	12
41	Local passenger transit <sup>3</sup> . . . . .	654	546	577	5.7	148	133	172	29.3	78
42	Trucking and warehousing . . . .	3,954	3,598	3,358	-6.7	1,617	1,294	1,282	-0.9	105
44	Water transportation . . . . .	378	440	374	-15.0	105	53	45	-15.1	44
45	Air transportation . . . . .	458	418	394	-5.7	104	71	65	8.5	56
46	Pipelines, except natural gas . . .	10	7	13	85.7	-	1	-	-100.0	67
47	Transportation services . . . . .	1,950	2,123	1,952	8.1	322	369	279	-24.4	77
48	Communications . . . . .	929	967	896	-7.3	173	127	122	-3.9	47
49	Electric, gas, sanitary services . .	326	363	459	26.4	58	50	85	70.0	37
F	Wholesale trade . . . . .	28,707	26,749	24,136	-9.8	4,836	4,459	3,636	-18.5	65
G	Retail trade . . . . .	72,578	72,509	65,381	-9.8	13,494	11,487	10,982	-4.4	55
H	Finance, insurance, real estate <sup>2</sup> .	15,710	17,146	16,160	-5.8	2,676	2,539	2,839	11.8	46
60	Banking . . . . .	524	474	407	-14.1	139	214	234	9.3	50
61	Credit agencies, except banks . .	1,411	1,560	1,405	9.9	193	194	182	-6.2	71
62	Security, commodity brokers . . .	1,103	1,176	1,149	-2.3	177	158	188	19.0	70
63	Insurance agents, brokers, and services . . . . .	1,304	1,327	1,535	15.7	259	51	56	9.8	18
65	Real estate . . . . .	10,050	11,185	10,459	-6.5	1,638	1,501	1,621	8.0	48
I	Services <sup>2</sup> . . . . .	57,702	59,424	54,788	-7.8	16,649	22,782	17,495	-23.2	68
70	Hotels and other lodgings . . . . .	1,535	1,731	1,786	3.2	304	310	248	-20.0	35
72	Personal services . . . . .	6,607	7,165	6,146	-14.2	1,030	948	1,089	14.9	34
73	Business services <sup>2</sup> . . . . .	22,733	24,582	23,701	-3.6	6,132	11,320	6,301	-44.3	165
731	Advertising . . . . .	1,500	1,539	1,417	7.9	230	272	244	-10.3	81
736	Personnel supply services . . . .	760	801	756	-5.6	99	101	112	10.9	56
737	Computer and data processing services . . . . .	3,225	3,020	2,773	-8.2	373	324	335	3.4	70
75	Auto repair, services, and garages . . . . .	5,997	5,550	5,193	-6.4	1,335	1,224	1,395	14.0	57
78,79	Motion pictures, amusement and recreation . . . . .	4,554	4,364	3,434	-21.3	654	648	491	-24.2	55
80	Health services . . . . .	4,026	4,656	4,298	-7.7	577	682	711	4.3	18
81	Legal services . . . . .	1,296	1,337	1,292	-3.4	191	196	292	49.0	22
82	Educational services . . . . .	674	636	567	-10.8	100	96	116	20.8	7
83	Social services . . . . .	951	928	783	-15.6	200	145	214	47.6	20
84	Museums, art galleries, gardens . .	42	49	54	10.2	5	6	3	-50.0	6
86	Membership organizations . . . . .	989	1,281	1,193	-6.9	69	67	57	-14.9	3

- Represents or rounds to zero. <sup>1</sup> Standard Industrial Classification; see text, section 13. <sup>2</sup> Includes industries not shown separately. <sup>3</sup> Includes interurban.

Source: The Dun and Bradstreet Corporation, New York, NY, *Business Starts Record*, annual, and *Business Failure Record*, annual, (copyright).

**No. 884. Bankruptcy Petitions Filed and Pending, by Type and Chapter: 1981 to 1989**

[For years ending June 30. Covers only bankruptcy cases filed under the Bankruptcy Reform Act of 1978. **Bankruptcy:** legal recognition that a company or individual is insolvent and must restructure or liquidate. Petitions "filed" means the commencement of a proceeding through the presentation of a petition to the clerk of the court; "pending" is a proceeding in which the administration has not been completed]

ITEM	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Total, filed</b> . . . . .	<b>360,329</b>	<b>367,886</b>	<b>374,734</b>	<b>344,275</b>	<b>364,536</b>	<b>477,856</b>	<b>561,278</b>	<b>594,567</b>	<b>642,993</b>
Business <sup>1</sup> . . . . .	47,415	56,423	69,818	62,170	66,651	76,281	88,278	68,501	62,534
Non-business <sup>2</sup> . . . . .	312,914	311,443	304,916	282,105	297,885	401,575	473,000	526,066	580,459
Voluntary . . . . .	358,997	366,331	373,064	342,828	362,939	476,214	559,658	593,158	641,528
Involuntary . . . . .	1,332	1,535	1,670	1,447	1,597	1,642	1,620	1,409	1,465
Chapter 7 <sup>3</sup> . . . . .	265,721	255,098	251,322	232,994	244,650	332,679	397,551	423,796	457,240
Chapter 9 <sup>4</sup> . . . . .	1	4	3	4	3	7	10	3	7
Chapter 11 <sup>5</sup> . . . . .	7,828	14,059	21,207	19,913	21,425	24,443	22,566	18,891	17,465
Chapter 12 <sup>6</sup> . . . . .	(X)	(X)	(X)	(X)	(X)	(X)	4,824	3,099	1,717
Chapter 13 <sup>7</sup> . . . . .	86,778	98,705	102,201	91,358	98,452	120,726	136,300	148,771	166,539
Section 304 <sup>8</sup> . . . . .	1	-	1	6	6	1	27	17	25
<b>Total, pending</b> . . . . .	<b>361,664</b>	<b>461,287</b>	<b>537,306</b>	<b>577,567</b>	<b>608,945</b>	<b>726,577</b>	<b>808,504</b>	<b>814,195</b>	<b>879,340</b>

- Represents zero. X Not applicable. <sup>1</sup> Business bankruptcies include those filed under chapters 7, 9, 11, or 12. <sup>2</sup> Bankruptcies include those filed under chapters 7, 11, or 13. <sup>3</sup> Chapter 7, liquidation of non-exempt assets of businesses or individuals. <sup>4</sup> Chapter 9, adjustment of debts of a municipality. <sup>5</sup> Chapter 11, individual or business reorganization. <sup>6</sup> Chapter 12, adjustment of debts of a family farmer with regular annual income, effective November 26, 1986. <sup>7</sup> Chapter 13, adjustment of debts of an individual with regular income. <sup>8</sup> 11 U.S.C., Section 304, cases ancillary to foreign proceedings.

Source: Administrative Office of the U.S. Courts, *Annual Report of the Director*.

**No. 885. Small Business Administration Loans to All Small Businesses: 1980 to 1990**

[For fiscal year ending in year shown; see text, section 9. A small business must be independently owned and operated, must not be dominant in its particular industry, and must meet standards set by the Small Business Administration as to its annual receipts or number of employees. Loans include both direct and guaranteed loans to small business establishments. Does not include Disaster Assistance Loans]

LOANS APPROVED	Unit	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Loans, all businesses . . . . .	1,000 . .	31.7	28.7	15.4	19.2	21.3	19.3	16.8	17.1	17.1	17.0	18.8
Loans, minority-owned businesses . . . . .	1,000 . .	6.0	5.2	2.5	2.7	3.1	2.8	2.0	2.1	2.2	2.4	2.6
Percent of all business loans . . . . .	Percent . .	19	18	16	14	15	15	12	12	13	14	14
Value of total loans <sup>1</sup> . . . . .	Mil. dol. .	3,858	3,668	2,038	3,007	3,450	3,217	3,013	3,232	3,434	3,490	4,258
Value of loans to minority-operated businesses <sup>2</sup> . . . . .	Mil. dol. .	470	454	238	295	383	324	265	299	343	385	474

<sup>1</sup> Includes both SBA and bank portions of loans. <sup>2</sup> SBA direct loans and guaranteed portion of bank loans only.

Source: U.S. Small Business Administration, unpublished data.

**No. 886. Small Business Birth, Death, and Net Growth Rates: 1980 to 1988**

[Represents any concern which is independently owned and operated and has fewer than 500 employees. Minus sign (-) indicates decrease]

ITEM	Birth rate <sup>1</sup>	Death rate <sup>2</sup>	Net growth <sup>3</sup>	ITEM	Birth rate	Death rate <sup>2</sup>	Net growth <sup>3</sup>
<b>All industries: 1980-82</b> . . . . .	9.5	9.1	0.4	<b>Wholesale trade: 1980-82</b> . . . . .	9.1	7.5	1.6
1982-84 . . . . .	10.2	8.9	1.3	1982-84 . . . . .	9.9	7.5	2.4
1984-86 . . . . .	10.6	9.6	1.0	1984-86 . . . . .	9.8	8.8	1.0
1986-88 . . . . .	11.0	9.8	1.2	1986-88 . . . . .	9.4	9.3	0.0
<b>Construction: 1980-82</b> . . . . .	8.9	9.6	-0.7	<b>Retail trade: 1980-82</b> . . . . .	8.5	9.6	-1.1
1982-84 . . . . .	10.8	10.5	0.3	1982-84 . . . . .	8.9	9.5	-0.6
1984-86 . . . . .	10.9	10.0	0.9	1984-86 . . . . .	9.8	10.3	-0.6
1986-88 . . . . .	11.4	9.8	1.5	1986-88 . . . . .	10.4	10.5	-0.1
<b>Manufacturing: 1980-82</b> . . . . .	8.1	7.3	0.8	<b>Services: 1980-82</b> . . . . .	11.4	9.3	2.1
1982-84 . . . . .	8.8	7.1	1.7	1982-84 . . . . .	11.8	8.7	3.1
1984-86 . . . . .	8.7	8.2	0.5	1984-86 . . . . .	11.7	9.4	2.4
1986-88 . . . . .	9.3	8.7	0.6	1986-88 . . . . .	13.0	9.8	3.2

<sup>1</sup> Business births represent the number of establishments formed during a specified period relative to the number in the initial year. <sup>2</sup> Business deaths represent the disappearance of an establishment or enterprise from the SBDB for financial or nonfinancial reasons relative to the initial year. <sup>3</sup> Net growth rate is the birth rate less the death rate.

Source: U.S. Small Business Administration, Office of Advocacy USELM file, version 9, December 1987. The USELM is a longitudinally weighted 50 percent sample of SBA's universe U.S. Establishment and Enterprise Microdata (USEEM) file.

# No. 887. Federal Contract Actions—Small and Minority-Owned Small Businesses Share, by State of Principal Place of Performance: 1988 and 1989

[In millions of dollars, except percent. For fiscal year. Excludes Guam, Puerto Rico, and Virgin Islands. Represents contract awards of \$25,000 or more awarded to establishments. A contract may consist of more than one action. Minus sign (-) indicates decrease]

REGION, DIVISION, AND STATE	TOTAL CONTRACT ACTIONS			SMALL BUSINESS SHARE			SMALL MINORITY-OWNED SHARE				
	1988	1989	Percent change 1988-89	1988	1989		Percent change 1988-89	1988	1989		Percent change 1988-89
					Amount	Percent of total			Amount	Percent of total	
<b>United States</b>	<b>161,898</b>	<b>158,938</b>	<b>-1.8</b>	<b>25,221</b>	<b>23,105</b>	<b>14.5</b>	<b>-8.4</b>	<b>5,012</b>	<b>5,103</b>	<b>3.2</b>	<b>1.8</b>
<b>Northeast</b>	<b>31,833</b>	<b>36,406</b>	<b>14.4</b>	<b>4,164</b>	<b>3,721</b>	<b>10.2</b>	<b>-10.6</b>	<b>493</b>	<b>599</b>	<b>1.6</b>	<b>21.6</b>
<b>New England</b>	<b>14,875</b>	<b>17,165</b>	<b>17.0</b>	<b>1,416</b>	<b>1,427</b>	<b>8.3</b>	<b>0.7</b>	<b>144</b>	<b>183</b>	<b>1.1</b>	<b>27.2</b>
Maine	623	388	-37.7	82	61	15.6	-26.2	2	4	0.9	83.7
New Hampshire	505	505	-0.1	69	63	12.5	-8.7	2	8	1.6	300.6
Vermont	145	184	27.2	15	19	10.1	24.4	(Z)	2	1.3	(X)
Massachusetts	7,773	9,344	20.2	744	815	8.7	9.6	85	117	1.3	37.4
Rhode Island	451	423	-6.3	159	140	33.0	-12.2	19	19	4.5	-0.3
Connecticut	5,178	6,321	22.1	347	329	5.2	-5.1	36	33	0.5	-7.7
<b>Middle Atlantic</b>	<b>17,158</b>	<b>19,242</b>	<b>12.1</b>	<b>2,748</b>	<b>2,284</b>	<b>11.9</b>	<b>-16.5</b>	<b>349</b>	<b>418</b>	<b>2.2</b>	<b>19.3</b>
New York	8,973	11,850	32.1	1,147	821	6.9	-28.4	95	111	0.9	16.8
New Jersey	3,791	3,769	-0.6	703	701	18.6	-0.3	80	103	2.7	28.6
Pennsylvania	4,394	3,622	-17.6	898	772	21.3	-14.0	174	202	5.6	16.3
<b>Midwest</b>	<b>24,280</b>	<b>24,821</b>	<b>2.2</b>	<b>3,577</b>	<b>3,516</b>	<b>14.2</b>	<b>-1.7</b>	<b>589</b>	<b>560</b>	<b>2.3</b>	<b>-5.0</b>
<b>East North</b>	<b>13,158</b>	<b>13,494</b>	<b>2.6</b>	<b>2,337</b>	<b>2,443</b>	<b>18.1</b>	<b>4.5</b>	<b>410</b>	<b>399</b>	<b>3.0</b>	<b>-2.8</b>
Ohio	6,319	6,521	3.2	786	847	13.0	7.8	218	231	3.5	5.9
Indiana	1,624	1,842	13.4	189	197	10.7	4.1	21	29	1.6	38.2
Illinois	2,510	2,239	-10.8	650	553	24.7	-14.9	123	120	5.3	-2.8
Michigan	1,518	1,531	0.9	396	412	26.9	4.1	25	12	0.8	-50.1
Wisconsin	1,187	1,361	14.6	316	434	31.9	37.4	23	7	0.5	-71.0
<b>West North</b>	<b>11,122</b>	<b>11,327</b>	<b>1.8</b>	<b>1,240</b>	<b>1,073</b>	<b>9.5</b>	<b>-13.5</b>	<b>179</b>	<b>161</b>	<b>1.4</b>	<b>-10.0</b>
Minnesota	2,260	1,887	-16.5	196	162	8.6	-17.3	18	1	0.1	-93.1
Iowa	703	583	-17.0	102	69	11.8	-32.3	14	5	0.8	-67.6
Missouri	6,382	7,093	11.1	428	386	5.4	-9.9	58	66	0.9	14.1
North Dakota	160	161	0.5	108	117	72.5	8.0	35	43	26.9	23.8
South Dakota	120	139	16.1	61	61	43.9	0.2	20	17	12.1	-15.5
Nebraska	400	373	-6.8	151	141	37.9	-6.4	7	7	1.9	3.3
Kansas	1,097	1,091	-0.6	194	137	12.6	-29.3	27	22	2.0	-19.4
<b>South</b>	<b>56,903</b>	<b>49,480</b>	<b>-13.1</b>	<b>10,651</b>	<b>9,975</b>	<b>20.2</b>	<b>-6.3</b>	<b>2,647</b>	<b>2,623</b>	<b>5.3</b>	<b>-0.9</b>
<b>South Atlantic</b>	<b>33,911</b>	<b>27,158</b>	<b>-19.9</b>	<b>6,658</b>	<b>6,096</b>	<b>22.4</b>	<b>-8.4</b>	<b>1,804</b>	<b>1,705</b>	<b>6.3</b>	<b>-5.5</b>
Delaware	302	189	-37.3	42	36	18.9	-14.5	2	5	2.7	156.2
Maryland	6,307	5,577	-11.6	1,236	1,170	21.0	-5.3	525	430	7.7	-18.1
District of Columbia	2,879	2,345	-18.6	778	664	28.3	-14.6	385	321	13.7	-16.8
Virginia	12,078	7,144	-40.9	2,216	2,003	28.0	-9.6	626	607	8.5	-3.0
West Virginia	333	330	-0.8	89	151	45.6	69.3	8	64	19.3	697.6
North Carolina	1,609	1,372	-14.8	506	376	27.4	-25.7	54	27	2.0	-49.5
South Carolina	1,882	2,123	12.8	294	296	13.9	0.6	29	39	1.8	35.3
Georgia	1,902	2,057	8.2	498	512	24.9	2.7	68	97	4.7	42.9
Florida	6,619	6,021	-9.0	999	889	14.8	-11.0	107	114	1.9	6.6
<b>East South</b>	<b>8,597</b>	<b>7,730</b>	<b>-10.1</b>	<b>1,673</b>	<b>1,350</b>	<b>17.5</b>	<b>-19.3</b>	<b>366</b>	<b>333</b>	<b>4.3</b>	<b>-9.0</b>
Kentucky	683	1,142	67.1	262	153	13.4	-41.6	44	59	5.2	34.9
Tennessee	2,827	2,987	6.0	450	406	13.6	-9.8	79	76	2.5	-3.7
Alabama	2,520	2,221	-11.9	733	616	27.7	-16.0	199	171	7.7	-14.1
Mississippi	2,567	1,371	-46.6	228	175	12.8	-23.2	44	26	1.9	-39.8
<b>West South</b>	<b>14,395</b>	<b>14,571</b>	<b>1.2</b>	<b>2,320</b>	<b>2,529</b>	<b>17.4</b>	<b>9.0</b>	<b>477</b>	<b>566</b>	<b>4.0</b>	<b>22.8</b>
Arkansas	846	495	-41.4	206	253	51.1	22.8	33	22	4.4	-33.8
Louisiana	2,073	2,307	11.3	338	400	17.3	18.3	54	56	2.4	4.0
Oklahoma	859	767	-10.7	378	329	42.9	-12.9	129	140	18.3	8.8
Texas	10,617	11,001	3.6	1,398	1,547	14.1	10.6	261	367	3.3	40.7
<b>West</b>	<b>48,882</b>	<b>48,251</b>	<b>-1.3</b>	<b>6,829</b>	<b>5,893</b>	<b>12.2</b>	<b>-13.7</b>	<b>1,283</b>	<b>1,321</b>	<b>2.7</b>	<b>3.0</b>
<b>Mountain</b>	<b>13,436</b>	<b>13,754</b>	<b>2.4</b>	<b>1,917</b>	<b>1,642</b>	<b>11.9</b>	<b>-14.3</b>	<b>456</b>	<b>451</b>	<b>3.3</b>	<b>-1.1</b>
Montana	148	154	4.0	110	99	64.6	-8.6	26	20	13.2	-21.9
Idaho	641	911	42.2	144	90	9.9	-37.4	15	17	1.9	13.6
Wyoming	174	131	-24.6	80	95	72.3	18.5	3	9	6.8	196.3
Colorado	3,812	3,899	2.3	389	425	10.9	9.4	101	108	2.8	7.3
New Mexico	3,185	3,088	-3.0	270	277	9.0	2.7	116	117	3.8	1.1
Arizona	3,020	3,142	4.0	353	316	10.1	-10.4	116	99	3.2	-14.3
Utah	1,592	1,503	-5.6	452	215	14.3	-52.5	57	31	2.0	-46.5
Nevada	864	925	7.1	119	124	13.4	4.4	22	49	5.3	123.2
<b>Pacific</b>	<b>35,446</b>	<b>34,498</b>	<b>-2.7</b>	<b>4,912</b>	<b>4,251</b>	<b>12.3</b>	<b>-13.5</b>	<b>827</b>	<b>870</b>	<b>2.5</b>	<b>5.2</b>
Washington	3,757	4,089	8.8	410	414	10.1	1.0	65	89	2.2	37.1
Oregon	1,206	325	-73.0	828	163	50.0	-80.3	48	22	6.6	-55.1
California	29,353	28,862	-1.7	3,164	3,119	10.8	-1.4	535	607	2.1	13.4
Alaska	564	613	8.8	237	290	47.3	22.3	29	35	5.7	20.6
Hawaii	566	608	7.4	273	265	43.5	-3.0	150	118	19.4	-21.4

X Not applicable. Z Less than 500,000.

Source: U.S. Small Business Administration, *The State of Small Business: A Report of the President*, annual. Data from Federal Procurement Data Center, September 13, 1990.

**No. 888. Mergers and Acquisitions—Summary: 1980 to 1989**

[Covers transactions valued at \$1 million or more. Values based on transactions for which price data revealed. **All activity** includes mergers, acquisitions, acquisitions of controlling interest, divestitures, and leveraged transactions that result in a change in ownership. **Divestiture**: sale of a business, division, or subsidiary by corporate owner to another party. **Leveraged buyout**: acquisition of a business in which buyers use mostly borrowed money to finance purchase price and incorporate debt into capital structure of business after change in ownership]

ITEM	Unit	1980	1982	1983	1984	1985	1986	1987	1988	1989
All activity: Number	Number	1,558	2,298	2,395	3,176	3,489	4,463	4,024	4,022	3,602
Value	Mil. dol.	32,830	60,698	52,708	126,140	145,978	205,958	177,900	237,084	240,962
Divestitures: Number	Number	104	562	661	794	1,041	1,419	1,221	1,281	1,173
Value	Mil. dol.	5,090	8,362	12,949	30,572	43,534	72,427	57,797	83,472	63,367
Leveraged buyouts: Number	Number	11	164	231	254	255	337	279	381	361
Value	Mil. dol.	236	3,452	4,519	18,718	19,670	45,160	36,228	47,053	65,508
Form of payment: All cash	Percent	8	27	24	36	40	43	54	58	58
All stock	Percent	19	13	13	12	10	12	11	7	6
Combination cash, stock debt, other	Percent	17	22	28	26	24	20	18	16	18
Undisclosed	Percent	56	38	35	26	26	25	17	19	18
Ownership status of acquisition targets:										
Public acquired company:										
Number	Number	398	687	554	835	823	865	1,011	947	996
Value	Mil. dol.	11,948	46,701	31,899	85,692	91,653	109,217	103,029	128,703	162,722
Private acquired company:										
Number	Number	1,059	1,064	1,195	1,555	1,621	2,168	1,739	1,734	1,357
Value	Mil. dol.	15,911	6,400	8,344	10,069	10,608	24,454	15,067	23,186	16,071

<sup>1</sup> Price was given but form of payment was not.

**No. 889. Mergers and Acquisitions—Number and Value of Transactions, by Industry: 1989**

[See headnote table 888]

SIC <sup>1</sup> code	INDUSTRY	TOTAL		U.S. COMPANY ACQUIRING U.S. COMPANY		FOREIGN COMPANY ACQUIRING U.S. COMPANY		U.S. COMPANY ACQUIRING FOREIGN COMPANY	
		Number	Value (mil. dol.)	Number	Value (mil. dol.)	Number	Value (mil. dol.)	Number	Value (mil. dol.)
	<b>Total activity</b> <sup>2</sup>	<b>3,602</b>	<b>240,962</b>	<b>2,804</b>	<b>172,748</b>	<b>542</b>	<b>53,100</b>	<b>256</b>	<b>15,114</b>
(A)	Agriculture, forestry, fishing	15	7.0	9	3.0	5	( <sup>3</sup> )	1	4.0
(B)	Mining	153	11,305	108	8,119	24	2,654	21	532
(C)	Construction	27	326	18	219	9	107	-	( <sup>3</sup> )
(D)	Manufacturing:								
20	Food and kindred products	112	15,640	75	6,024	19	7,730	18	1,886
22	Textile mill products	29	2,148	22	1,872	5	276	2	( <sup>3</sup> )
23	Apparel, other textile products	36	1,627	30	1,156	5	471	1	( <sup>3</sup> )
24	Lumber and wood products	16	580	13	571	3	9	-	( <sup>3</sup> )
26	Paper and allied products	48	5,769	28	2,876	8	134	12	2,759
27	Printing and publishing	137	8,005	96	4,482	33	3,523	8	( <sup>3</sup> )
28	Chemicals and allied products	176	43,180	100	30,674	51	12,259	25	247
30	Rubber and plastic products	78	1,811	58	1,443	10	181	10	187
32	Stone, clay, glass, and concrete	38	861	24	553	13	108	1	200
33	Primary metals industries	59	3,113	47	2,141	9	971	3	( <sup>3</sup> )
34	Fabricated metal products	108	5,048	84	4,796	12	85	12	166
35	Industrial machinery, computer equipment	237	8,067	170	5,810	48	1,625	19	632
36	Electrical and electronic equipment	189	10,685	143	4,874	37	4,566	9	1,244
37	Transportation equipment	76	3,123	55	2,684	12	393	9	47
38	Instruments and related products <sup>4</sup>	162	3,406	125	1,551	30	1,743	7	112
(E)	Transportation and public utilities	295	22,763	254	20,803	21	1,813	20	148
(F)	Wholesale trade	224	3,256	180	2,386	19	814	25	55
(G)	Retail trade	178	9,877	156	8,085	18	599	4	1,194
(H)	Finance, insurance, real estate	530	22,228	466	17,802	54	4,336	10	89
(I)	Services	580	21,674	472	13,364	77	7,502	31	808

- Represents zero. <sup>1</sup> Standard Industrial Classification; see text, section 13. <sup>2</sup> Includes other industries, not shown separately. <sup>3</sup> Transaction price data not revealed. <sup>4</sup> Data have been revised since publication release.

Source of tables 888 and 889: MLR Publishing Company, Philadelphia, PA, *Mergers and Acquisitions*, 1989 (copyright). Publication contains extract from database, M&A Database.

**No. 890. Employee Stock Ownership Plans—Number of Plans and Participants: 1975 to 1989**

[As of end of year]

YEAR	Number of plans	Number of employees (1,000)	YEAR	Number of plans	Number of employees (1,000)	YEAR	Number of plans	Number of employees (1,000)
1975	1,601	248	1980	5,009	4,048	1985	7,402	7,353
1976	2,331	503	1981	5,680	4,537	1986	8,046	7,860
1977	3,137	1,658	1982	6,082	4,745	1987	8,777	8,860
1978	4,028	2,800	1983	6,456	5,397	1988	9,400	9,630
1979	4,551	3,039	1984	6,904	6,576	1989	10,230	11,530

Source: National Center for Employee Ownership, Inc., Oakland, CA, unpublished data.



**No. 891. Patents and Trademarks: 1980 to 1989**

[In thousands. Calendar year data. Covers patents issued to citizens of the United States and residents of foreign countries. For data on copyrights, see table 936. For data on foreign countries, see table 1466. See also *Historical Statistics, Colonial Times to 1970*, series W 96-108]

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Patent applications filed	113.0	114.5	118.4	112.4	120.8	127.1	133.0	139.8	151.9	166.3
Inventions	104.3	106.4	109.6	103.7	111.3	117.0	122.4	127.9	139.8	152.8
Designs	7.8	7.4	8.2	8.1	8.7	9.6	9.9	11.2	11.3	12.6
Botanical plants	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.4	0.4	0.4
Reissues	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.5
Patents issued	66.2	71.0	63.3	62.0	72.7	77.2	76.9	89.4	84.3	102.5
Inventions	61.8	65.8	57.9	56.9	67.2	71.7	70.9	83.0	77.9	95.5
Individuals	13.3	14.1	11.9	10.5	12.3	12.9	13.3	15.3	14.3	17.9
Corporations: United States	29.4	29.5	25.8	25.7	30.1	31.3	29.6	33.8	31.4	38.7
Foreign	18.2	21.0	19.2	19.6	23.6	26.4	27.0	32.9	31.4	38.0
U.S. Government	1.0	1.1	1.0	1.0	1.2	1.1	1.0	1.0	0.7	0.9
Designs	3.9	4.7	4.9	4.6	4.9	5.1	5.5	6.0	5.7	6.1
Botanical plants	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6
Reissues	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.3
U.S. residents <sup>2</sup>	40.8	43.1	37.7	36.6	42.2	43.3	42.0	47.7	44.6	54.6
Foreign country residents <sup>2</sup>	25.4	27.9	25.6	25.4	30.5	33.9	34.9	41.7	39.7	47.9
Percent of total	38.4	39.2	40.5	41.0	42.0	43.9	45.4	46.6	47.1	46.7
Other published documents <sup>3</sup>	(Z)	0.1	(Z)	(Z)	(Z)	(Z)	0.2	0.2	0.2	0.2
Certificates of trademarks issued	24.7	48.6	48.4	46.8	54.0	71.7	51.8	51.4	54.3	63.1
Trademarks	18.9	42.7	42.4	40.5	48.6	65.8	46.7	47.3	47.4	55.3
Trademark renewals	5.9	5.9	6.0	6.2	5.4	5.9	5.1	4.1	6.9	7.8

Z Less than 50. <sup>1</sup> Includes patents to foreign governments. <sup>2</sup> Includes patents for inventions, designs, botanical plants, and reissues. <sup>3</sup> Includes Defensive Publications, a practice which began in November 1968 and ended in July 1986; and Statutory Invention Registrations, the current practice, which began May 1985. These documents are patent applications, which are published to provide the defensive properties of a patent, but do not have the enforceable rights of a patent.

Source: U.S. Patent and Trademark Office. Fiscal-year figures are published in the *Commissioner of Patents and Trademarks Annual Report*.

**No. 892. Patents, by State: 1989**

[Includes only U.S. patents granted to residents of the United States and territories]

STATE	Total	Inven- tions	Designs	Botan- ical plants	Re- issue	STATE	Total	Inven- tions	Designs	Botan- ical plants	Re- issue
U.S. . . . .	54,625	50,185	3,883	345	212	MT . . . . .	87	84	3	-	-
AL . . . . .	339	298	40	-	1	NE . . . . .	132	126	4	2	-
AK . . . . .	39	38	1	-	-	NV . . . . .	133	117	16	-	-
AZ . . . . .	785	744	40	-	1	NH . . . . .	318	287	27	-	4
AR . . . . .	128	104	21	3	-	NJ . . . . .	3,269	3,079	156	18	16
CA . . . . .	8,430	7,564	682	162	22	NM . . . . .	185	177	7	-	1
CO . . . . .	880	788	79	8	5	NY . . . . .	4,479	4,105	352	5	17
CT . . . . .	1,705	1,563	128	5	9	NC . . . . .	873	794	7	2	7
DE . . . . .	447	440	6	-	1	ND . . . . .	62	55	7	-	-
DC . . . . .	57	49	8	-	-	OH . . . . .	2,856	2,595	235	18	8
FL . . . . .	1,934	1,702	196	29	7	OK . . . . .	648	599	45	2	2
GA . . . . .	705	645	56	1	3	OR . . . . .	719	612	79	23	5
HI . . . . .	71	63	7	1	-	PA . . . . .	2,980	2,804	159	7	10
ID . . . . .	169	162	7	-	-	RI . . . . .	204	158	43	-	3
IL . . . . .	3,092	2,845	224	8	15	SC . . . . .	445	412	27	-	-
IN . . . . .	1,059	981	68	2	8	SD . . . . .	36	33	3	-	-
IA . . . . .	427	396	31	-	-	TN . . . . .	568	519	46	1	2
KS . . . . .	307	261	46	-	-	TX . . . . .	3,384	3,218	148	9	9
KY . . . . .	277	247	29	1	-	UT . . . . .	362	332	29	-	1
LA . . . . .	474	449	18	1	6	VT . . . . .	134	122	12	-	-
ME . . . . .	125	112	11	-	2	VA . . . . .	782	722	56	2	3
MD . . . . .	874	807	58	7	2	WA . . . . .	985	921	53	8	-
MA . . . . .	2,134	1,982	134	11	7	WV . . . . .	164	157	7	-	-
MI . . . . .	2,768	2,619	133	3	13	WI . . . . .	1,265	1,164	94	-	7
MN . . . . .	1,451	1,339	102	2	8	WY . . . . .	35	33	2	-	-
MS . . . . .	112	98	14	-	-	PR . . . . .	25	23	2	-	-
MO . . . . .	704	640	61	1	2	U.S. Pacific Isl.	2	1	1	-	-

- Represents zero.

Source: U.S. Patent and Trademark Office, *Technology Assessment and Forecast Reports—All Technologies and Country/State*.

## No. 893. Patents, by Industry: 1970 to 1989

[Includes all patents for inventions granted to residents of the United States, its territories, and foreign citizens. Number of patents by industry may not add to total since a patent may be recorded in more than one industry category. Except for totals, data for all years have been revised to reflect the U.S. Patent Classification System as of 1989]

SIC <sup>1</sup> code	INDUSTRY	1970	1980	1985	1987	1988	1989
(X)	<b>Total</b> . . . . .	<b>64,429</b>	<b>61,819</b>	<b>71,661</b>	<b>82,952</b>	<b>77,924</b>	<b>95,539</b>
(X)	Durable goods:						
32	Stone, clay, glass and concrete products . . . . .	2,113	2,077	2,269	2,458	2,435	3,087
33, 3462-3	Primary metals . . . . .	793	767	786	801	884	982
34	Fabricated metal products <sup>2</sup> . . . . .	7,648	7,417	8,290	9,718	8,783	10,750
35	Machinery, except electrical . . . . .	18,436	17,094	20,300	22,042	20,832	24,118
36, 3825	Electrical and electronic equipment, and supplies . . . . .	14,333	11,573	15,226	20,003	17,936	22,243
37, 348	Transportation and other public utilities <sup>3</sup> . . . . .	4,081	4,043	4,957	6,063	5,457	6,177
38	Professional and scientific instruments . . . . .	8,069	8,451	10,128	12,504	11,822	14,809
(X)	Nondurable goods:						
20	Food and kindred products . . . . .	510	515	582	504	574	824
22	Textile mill products . . . . .	725	643	811	834	847	1,018
28	Chemicals and allied products . . . . .	9,618	10,754	11,312	11,314	11,126	13,941
13, 29	Petroleum, oil and gas extraction . . . . .	863	793	1,031	961	839	1,027
30	Rubber and miscellaneous plastics products . . . . .	4,774	4,933	5,892	6,240	6,265	7,598
(X)	All other SIC <sup>1</sup> groups . . . . .	6,270	6,334	6,719	8,171	7,635	9,820

X Not applicable. <sup>1</sup> Standard Industrial Classification. <sup>2</sup> Excludes SIC groups 3462, 3463, 348. <sup>3</sup> Excludes SIC group 3825.

Source: U.S. Patent and Trademark Office, *Patenting Trends in the United States, State Country Report, 1963-1989*.

## No. 894. Consumer Packaged Goods—New Product Introductions: 1980 to 1990

[Consumer packaged goods: consumable products packaged by the manufacturer for retail sale primarily through grocery and drug stores. New product: a product not previously offered for sale by a particular manufacturer including new varieties, formats, sizes, and packaging for existing products]

ITEM	Food	Beverages	Health and beauty	Household products	Pat products	Miscellaneous products
<b>Domestic and Imports:</b>						
1980 . . . . .	1,192	256	834	331	86	197
1981 . . . . .	1,356	262	868	315	74	237
1982 . . . . .	1,782	332	919	390	103	113
1983 . . . . .	3,013	587	1,355	473	138	105
1984 . . . . .	2,678	589	1,094	303	108	227
1985 . . . . .	2,327	585	1,222	463	139	294
1986 . . . . .	2,764	657	1,327	385	107	194
1987 . . . . .	2,895	634	1,526	362	152	292
1988 . . . . .	2,781	597	1,496	310	151	222
1989 . . . . .	2,866	524	1,492	313	204	206
<b>1990, total.</b> . . . .	<b>3,453</b>	<b>630</b>	<b>1,531</b>	<b>432</b>	<b>164</b>	<b>154</b>
<b>Percent:</b>						
New brands <sup>1</sup> . . . . .	36.5	42.8	30.9	32.1	36.0	59.7
Brand extensions <sup>2</sup> . . . . .	1.4	0.9	0.7	0.9	3.0	0.7
Line extensions <sup>3</sup> . . . . .	62.1	56.3	68.4	67.0	61.0	39.6
<b>Types of new product innovation (percent):<sup>4</sup></b>						
Formulation <sup>5</sup> . . . . .	54.6	52.1	46.0	38.6	33.3	37.8
New market <sup>6</sup> . . . . .	0.6	-	-	-	-	-
Packaging <sup>7</sup> . . . . .	14.5	18.3	20.1	30.0	33.3	40.5
Positioning <sup>8</sup> . . . . .	29.3	29.6	31.0	31.4	33.4	16.2
Technology <sup>9</sup> . . . . .	1.0	-	2.9	-	-	5.5
<b>CUMULATIVE</b>						
Domestic, except imports, 1980-90 . . . . .	23,756	4,624	12,671	3,878	1,370	2,080
Imports, 1980-90 <sup>10</sup> . . . . .	3,331	1,009	993	179	58	161
International, 1985-90 <sup>11</sup> . . . . .	9,018	2,629	8,123	1,842	399	709

- Represents or rounds to zero. <sup>1</sup> Product introduced under completely or partly new brand name. <sup>2</sup> Product introduced in a category with an existing brand name which has not been used in the category before. <sup>3</sup> Introduction of a new variety, format, size or package of an existing product/brand name. <sup>4</sup> Product which offers consumers something significantly different from existing products. <sup>5</sup> Added or new ingredient which offers a benefit not previously provided by existing products in its category. <sup>6</sup> Special category for new products which do not compete with any existing category of products. <sup>7</sup> New product packaged in a way that makes it easier to store, handle, prepare, or dispense than others in its category. <sup>8</sup> New product presented for new users or uses compared to existing products in its category. <sup>9</sup> New product with added consumer benefits resulting from use of a new technology. <sup>10</sup> New products introduced in the U.S. by foreign companies. <sup>11</sup> New products introduced by U.S. and foreign companies outside the United States.

Source: Marketing Intelligence Service Ltd., Naples, New York, *Product Alert Weekly*. Publication contains extract from database, Productscan.

**No. 895. Gross Stock of Fixed Private Capital, Nonresidential and Residential, by Industry: 1980 to 1989**

(In billions of dollars. Estimates as of Dec. 31)

INDUSTRY	CURRENT DOLLARS				CONSTANT (1982) DOLLARS			
	1980	1985	1988	1989	1980	1985	1988	1989
<b>Fixed private capital</b> .....	<b>8,942.8</b>	<b>12,105.0</b>	<b>14,423.9</b>	<b>15,397.4</b>	<b>9,813.2</b>	<b>11,254.4</b>	<b>12,303.3</b>	<b>12,846.7</b>
<b>Nonresidential</b> .....	<b>4,844.4</b>	<b>6,706.4</b>	<b>7,895.6</b>	<b>8,387.5</b>	<b>5,420.0</b>	<b>6,348.3</b>	<b>6,947.9</b>	<b>7,158.2</b>
Agriculture, forestry and fisheries.....	319.2	383.6	381.2	394.2	357.4	343.7	315.5	307.6
Farms.....	295.2	350.1	342.8	353.3	330.6	312.8	283.5	275.2
Agr. serv., forestry and fisheries.....	24.0	33.5	38.4	40.9	26.7	30.9	32.0	32.4
<b>Mining</b> .....	<b>358.0</b>	<b>448.4</b>	<b>448.9</b>	<b>425.8</b>	<b>441.2</b>	<b>548.9</b>	<b>505.8</b>	<b>484.7</b>
Metal mining.....	26.4	35.3	36.3	37.6	30.0	32.0	30.2	29.8
Coal mining.....	31.7	46.9	48.3	49.2	36.5	43.7	41.3	40.3
Oil and gas extraction.....	282.5	344.0	342.6	316.6	354.8	452.9	416.3	396.9
Nonmetallic minerals, exc. fuels.....	17.4	22.3	21.7	22.4	19.9	20.3	18.0	17.7
<b>Construction</b> .....	<b>100.3</b>	<b>109.4</b>	<b>115.6</b>	<b>118.8</b>	<b>113.1</b>	<b>100.5</b>	<b>94.9</b>	<b>93.9</b>
<b>Manufacturing</b> .....	<b>1,108.1</b>	<b>1,497.2</b>	<b>1,726.5</b>	<b>1,823.6</b>	<b>1,236.4</b>	<b>1,393.5</b>	<b>1,454.3</b>	<b>1,483.1</b>
Durable goods.....	604.9	821.7	952.3	1,004.1	674.1	773.3	819.0	836.1
Lumber and wood products.....	28.8	34.1	36.7	38.1	32.2	30.7	29.3	29.3
Furniture and fixtures.....	8.9	11.9	14.2	15.2	9.9	10.9	11.9	12.2
Stone, clay, glass products.....	47.4	55.6	58.7	59.7	52.7	52.5	50.8	50.6
Primary metal industries.....	141.8	176.2	189.1	194.9	159.1	162.3	155.9	154.4
Fabricated metal products.....	68.6	91.7	108.6	115.1	76.3	84.9	90.2	92.4
Machinery, exc. electrical.....	94.8	135.3	157.0	165.4	105.0	134.9	147.9	151.9
Elec. and elec. equipment.....	70.2	119.5	153.1	167.0	78.8	112.3	133.3	140.6
Motor vehicles and equipment.....	72.5	91.8	104.9	105.6	80.5	86.0	88.2	88.2
Other transp. equipment.....	40.3	60.0	74.8	81.0	44.8	55.6	64.1	67.0
Instruments, related products.....	19.9	30.9	38.8	42.2	22.0	28.3	34.0	36.1
Misc. mfg. industries.....	11.6	14.7	16.5	17.0	12.9	13.5	13.5	13.5
Nondurable goods.....	503.2	675.6	774.2	819.5	562.3	620.1	635.3	647.1
Food and kindred products.....	100.4	134.2	156.7	165.8	112.0	122.1	126.5	129.1
Tobacco manufacturers.....	5.2	9.5	12.5	13.8	5.9	8.1	10.3	11.1
Textile mill products.....	33.9	41.4	45.3	46.9	38.0	37.1	35.5	35.1
Apparel; other textile products.....	11.1	13.4	14.3	14.6	12.4	12.3	11.3	11.6
Paper and allied products.....	68.5	94.9	114.9	126.0	77.2	87.4	94.1	99.4
Printing and publishing.....	35.7	51.7	65.5	71.6	39.7	48.2	55.0	58.4
Chemicals, allied products.....	141.9	183.5	202.9	213.0	158.6	170.0	169.1	169.3
Petroleum and coal products.....	88.6	98.3	107.0	111.0	76.3	89.6	87.9	87.6
Rubber, misc. plastic products.....	35.2	45.4	51.7	53.9	39.2	41.8	42.3	42.7
Leather and leather products.....	2.7	3.2	3.4	3.5	3.0	3.0	2.8	2.7
<b>Transportation and public utilities</b> .....	<b>1,444.5</b>	<b>1,947.5</b>	<b>2,233.8</b>	<b>2,350.8</b>	<b>1,621.9</b>	<b>1,795.5</b>	<b>1,906.3</b>	<b>1,925.9</b>
Transportation.....	501.2	586.2	617.4	634.1	551.1	541.2	530.4	529.4
Railroad transportation.....	237.6	255.6	253.1	254.9	258.3	232.2	215.5	211.3
Local, interurban pass. transit.....	9.3	9.6	10.1	10.5	10.2	8.8	8.5	8.7
Trucking and warehousing.....	75.7	105.0	124.5	130.6	84.7	93.3	101.0	103.5
Water transportation.....	50.9	65.8	73.1	76.3	57.3	63.9	64.1	64.5
Transportation by air.....	80.4	74.5	76.4	78.8	69.1	71.6	69.1	68.3
Pipelines, exc. natural gas.....	34.8	39.1	41.6	41.7	36.8	36.9	36.7	36.5
Transportation services.....	32.4	36.6	38.6	41.3	34.9	34.5	35.5	36.7
Communication.....	346.4	552.9	674.7	713.4	392.2	498.0	557.0	572.4
Telephone and telegraph.....	327.2	522.1	636.7	672.4	370.3	470.6	525.9	540.1
Radio and TV broadcasting.....	19.2	30.8	38.0	41.0	21.8	27.4	31.1	32.3
Elec., gas, and sanitary services.....	616.8	808.4	941.7	1,003.4	678.6	758.3	818.8	824.1
Electric services.....	467.9	631.9	740.5	794.5	521.0	590.2	642.0	642.9
Gas services.....	132.2	154.8	173.8	179.3	140.5	145.7	152.0	154.7
Sanitary services.....	16.7	21.7	27.3	29.5	17.2	20.4	24.9	26.6
<b>Wholesale trade</b> .....	<b>152.3</b>	<b>247.7</b>	<b>330.3</b>	<b>363.1</b>	<b>167.5</b>	<b>243.2</b>	<b>319.0</b>	<b>348.1</b>
<b>Retail trade</b> .....	<b>258.1</b>	<b>401.7</b>	<b>522.9</b>	<b>567.4</b>	<b>285.1</b>	<b>360.0</b>	<b>428.5</b>	<b>446.7</b>
<b>Finance, insurance, real estate</b> .....	<b>716.1</b>	<b>1,104.7</b>	<b>1,406.6</b>	<b>1,546.4</b>	<b>789.2</b>	<b>1,034.1</b>	<b>1,289.0</b>	<b>1,393.9</b>
Banking.....	78.3	131.6	193.8	225.5	86.3	138.4	217.5	256.6
Credit agencies other than banks.....	59.9	93.7	123.4	138.1	65.5	95.5	127.1	145.8
Security and commodity brokers and services.....	2.9	5.3	8.1	8.7	3.2	6.2	11.2	12.5
Insurance carriers.....	16.9	31.5	61.5	73.7	18.3	37.9	89.1	110.1
Insurance agents, brokers, and services.....	4.3	5.1	5.5	5.7	4.6	5.6	6.0	6.2
Real estate.....	546.4	823.3	994.9	1,071.5	603.3	734.3	809.4	831.1
Holding, other investment companies.....	7.3	14.2	21.5	23.2	7.9	16.3	28.7	31.6
<b>Services</b> .....	<b>367.8</b>	<b>566.3</b>	<b>727.7</b>	<b>797.3</b>	<b>408.2</b>	<b>528.9</b>	<b>634.6</b>	<b>676.2</b>
Hotels, other lodging places.....	63.2	102.1	131.4	144.4	69.8	90.9	107.5	112.9
Personal services.....	21.3	26.5	29.4	30.9	23.5	24.1	24.7	25.1
Business services.....	82.7	134.3	180.0	200.5	92.3	134.5	173.0	189.8
Auto repair; serv., garages.....	61.5	98.6	132.1	144.9	68.7	90.5	110.4	118.5
Misc. repair services.....	9.8	13.8	16.7	17.7	11.0	12.7	13.9	14.3
Motion pictures.....	8.7	11.1	13.2	14.1	9.3	10.8	12.2	12.8
Amusement, recreation services.....	30.1	41.1	49.0	52.3	33.6	37.8	41.3	42.7
Other services.....	90.4	138.8	176.0	192.5	100.0	127.5	151.7	160.1
Health services.....	49.8	85.8	113.5	126.0	55.1	78.4	96.1	102.5
Legal services.....	6.5	10.0	14.1	15.6	7.1	9.4	13.0	14.2
Educational services.....	2.3	2.6	3.0	3.2	2.5	3.0	4.0	4.3
Other.....	32.1	40.5	45.4	47.8	35.3	36.7	38.7	39.2
<b>Residential</b> .....	<b>4,098.4</b>	<b>5,398.5</b>	<b>6,528.3</b>	<b>7,009.9</b>	<b>4,393.1</b>	<b>4,906.1</b>	<b>5,354.4</b>	<b>5,487.6</b>
Farms.....	127.4	145.2	152.6	157.3	137.3	131.7	125.5	123.8
Real estate.....	3,971.0	5,253.3	6,375.8	6,852.6	4,255.8	4,774.4	5,228.9	5,363.8

<sup>1</sup> Consists of social services, membership organizations, and miscellaneous professional services.

Source: U.S. Bureau of Economic Analysis, *Fixed Reproducible Tangible Wealth in the United States, 1925-85*, and *Survey of Current Business*, August issues.

### No. 896. Fixed Nonresidential Private Capital Valued in Current and Constant (1982) Dollars: 1970 to 1989

[In billions of dollars. Stocks as of Dec. 31; depreciation over entire calendar year. Data refer to privately owned assets and are based on the fixed capital formation components of the gross national product. Excludes residential capital and government enterprises; includes nonprofit institutions. Gross stocks allow for retirement; net stocks allow for retirement and depreciation. Net stock and depreciation estimates are based on the straight-line depreciation formula. For manufacturing industry, see table 1307]

ITEM	CURRENT DOLLARS						CONSTANT (1982) DOLLARS					
	1970	1980	1985	1987	1988	1989	1970	1980	1985	1987	1988	1989
<b>All industries:</b>												
Gross stocks	1,453.4	4,844.4	6,706.4	7,459.3	7,895.6	8,387.5	3,737.8	5,420.0	6,348.3	6,731.5	6,947.9	7,158.2
Equipment	679.3	2,353.3	3,286.6	3,685.4	3,942.7	4,185.9	1,620.0	2,651.1	3,153.6	3,417.6	3,581.3	3,750.8
Structures	774.1	2,491.1	3,419.8	3,773.9	3,952.9	4,201.6	2,117.8	2,768.9	3,194.7	3,314.0	3,366.7	3,407.4
Net stocks	865.1	2,807.4	3,771.7	4,149.4	4,377.3	4,633.0	2,212.2	3,137.7	3,576.5	3,752.4	3,860.9	3,959.8
Equipment	395.0	1,336.8	1,796.5	2,002.3	2,144.8	2,274.2	939.8	1,505.5	1,737.5	1,879.9	1,974.2	2,067.2
Structures	470.2	1,470.6	1,975.1	2,147.1	2,232.5	2,358.9	1,272.4	1,632.2	1,839.0	1,872.5	1,886.6	1,892.7
Depreciation	68.4	233.9	340.8	379.1	399.8	428.0	174.7	277.8	337.4	367.3	383.4	404.0
Equipment	46.7	159.4	233.4	262.2	278.0	298.6	109.7	188.8	229.8	255.9	271.2	289.7
Structures	21.7	74.5	107.4	116.8	121.8	129.4	65.1	89.0	107.6	111.4	112.2	114.3

Source: U.S. Bureau of Economic Analysis, *Fixed Reproducible Tangible Wealth in the United States, 1925-85*, and *Survey of Current Business*, August issues.

### No. 897. Business Expenditures for New Plant and Equipment: 1980 to 1990

[In billions of dollars. Based on sample and subject to sampling variability; see text, section 17. Represents expenditures for new facilities and for expansion or replacement of existing facilities that are chargeable to fixed asset accounts and for which depreciation or amortization accounts are ordinarily maintained. Excludes expenditures for land and mineral rights; maintenance and repair; used plant and equipment, including that purchased or acquired through mergers or acquisitions; assets located in foreign countries; residential structures; etc. They also differ from the nonresidential fixed investment data in type of detail, data sources, coverage, and timing. For further information, see the February 1985 *Survey of Current Business*]

INDUSTRY	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
<b>All industries</b> <sup>1</sup>	<b>286.4</b>	<b>324.7</b>	<b>326.2</b>	<b>321.2</b>	<b>373.8</b>	<b>410.1</b>	<b>399.4</b>	<b>410.5</b>	<b>455.5</b>	<b>507.4</b>	<b>533.0</b>
(1982 dollars) <sup>2</sup>	336.4	347.6	326.2	325.1	382.0	419.8	402.4	415.0	454.4	501.6	524.2
Manufacturing	112.6	128.7	124.0	117.4	139.6	152.9	138.0	141.1	163.5	183.8	192.8
Durable goods	54.8	58.9	54.6	51.6	64.6	70.9	65.7	68.0	77.0	82.6	83.0
Primary metals	6.7	7.2	6.8	5.9	6.8	7.5	6.7	8.6	11.0	12.0	12.2
Electrical machinery	10.2	11.4	12.2	12.7	16.2	17.1	15.6	16.8	20.8	20.5	22.2
Machinery, except electrical	10.7	12.4	12.3	12.0	13.6	13.8	11.4	11.9	13.7	14.6	13.8
Transportation equipment	16.1	16.9	13.6	11.9	16.6	19.6	18.9	16.7	15.8	16.7	18.0
Nondurable goods	57.8	69.8	69.4	65.7	75.0	82.0	72.3	73.0	86.4	101.2	109.8
Food and beverage	8.5	10.1	9.4	8.5	9.7	11.4	11.6	12.1	14.2	15.9	16.7
Paper	6.4	6.0	5.5	5.7	6.9	8.1	8.3	8.5	10.9	15.6	16.7
Chemicals	10.6	12.0	11.4	11.6	13.5	14.4	14.5	13.9	16.6	18.5	20.5
Petroleum	22.8	31.9	33.5	29.5	32.6	34.1	23.1	22.1	26.0	30.1	34.5
Mining	12.7	15.8	14.1	10.6	11.9	12.0	8.2	8.3	9.3	9.2	9.9
Public utilities	41.3	47.2	53.6	53.0	57.5	59.6	56.3	60.4	66.3	67.0	67.0
Transportation	13.6	12.7	11.8	10.8	13.4	14.6	15.1	16.6	18.8	21.6	21.6
Wholesale and retail trade	32.0	35.7	36.8	44.5	53.4	60.1	65.4	68.5	76.4	84.5	95.5
Finance and insurance	22.6	28.4	30.4	32.0	37.9	45.2	49.6	54.1	59.2	70.3	69.4
Personal and business services	24.9	26.3	25.6	25.1	28.5	28.8	28.4	30.1	32.9	34.6	33.8
Communication	26.8	30.1	30.1	27.9	31.6	37.1	38.2	37.2	37.2	39.8	43.0

<sup>1</sup> Surveyed quarterly. <sup>2</sup> For preparation of constant-dollar estimates, see source for detail. <sup>3</sup> Includes industries not shown separately. <sup>4</sup> Includes construction.

Source: U.S. Bureau of the Census, *Plant and Equipment Expenditures and Plans*, quarterly.

### No. 898. Gross Private Domestic Investment: 1970 to 1989

[In billions of dollars]

YEAR	CURRENT DOLLARS						CONSTANT (1982) DOLLARS					
	Gross private domestic investment				Less: Capital consumption allowances <sup>2</sup>	Equals: Net private domestic investment	Gross private domestic investment				Less: Capital consumption allowances <sup>2</sup>	Equals: Net private domestic investment
	Total <sup>1</sup>	Fixed investment	Non-residential	Residential			Total <sup>1</sup>	Fixed investment	Non-residential	Residential		
1970	148.8	145.7	105.2	40.5	88.8	60.0	381.5	373.3	264.0	109.3	229.8	151.8
1975	219.6	225.2	162.9	62.3	161.8	57.8	383.3	396.1	281.2	114.9	287.0	96.3
1980	437.0	445.3	322.8	122.5	303.8	133.1	509.3	516.2	379.2	137.0	356.1	153.2
1985	643.1	631.8	442.9	188.8	437.2	205.9	637.0	627.9	453.5	174.4	426.7	210.3
1986	659.4	652.5	435.2	217.3	460.1	199.3	639.6	634.1	438.4	195.7	443.4	196.2
1987	699.5	671.2	444.9	226.3	487.0	212.6	669.0	646.2	449.8	196.4	460.8	208.2
1988	747.1	720.8	488.4	232.5	514.3	232.7	705.7	682.1	487.2	194.9	479.7	226.0
1989	771.2	742.9	511.9	231.0	554.4	216.8	716.9	693.1	506.1	187.0	506.0	210.8

<sup>1</sup> Includes change in inventories, not shown separately. <sup>2</sup> With capital consumption adjustment.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

## No. 899. Composite Indexes of Economic Cyclical Indicators: 1980 to 1989

[1989 figures are preliminary. See source for discussion of composite indexes. Minus sign (-) indicates decrease. **Leading indicators** are economic time series that tend to reach their cyclical high and low points earlier than the corresponding peaks and troughs in the overall economy. **Coincident indicators** are economic time series that tend to reach their cyclical high and low points about the same time as the corresponding peaks and troughs in the overall economy. **Lagging indicators** are economic time series that tend to reach their cyclical high and low points later than the corresponding peaks and troughs in the overall economy]

ITEM	Unit	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	
LEADING INDICATORS												
Composite index		1982 = 100	99.2	101.2	100.0	116.2	121.7	124.2	132.3	140.1	142.8	144.9
Building permits		1967 = 100	96.7	80.0	80.7	131.1	134.8	138.1	141.2	122.9	115.8	107.6
Common stock prices, index <sup>2</sup>		1941-43 = 100	118.8	128.0	119.7	160.4	160.5	186.8	236.3	286.8	265.8	322.8
Initial claims, unemployment insurance		1,000	480	446	578	426	366	383	373	320	305	324
Change in sensitive materials prices <sup>3,4</sup>	Percent		0.4	-0.1	-0.9	1.1	0.2	-0.8	0.3	1.1	0.4	0.1
Vendor performance, slower deliveries	Percent		41	46	43	57	57	48	51	57	58	48
Average workweek, manufacturing <sup>5</sup>	Hours		39.7	39.8	38.9	40.1	40.7	40.5	40.7	41	41.1	41.0
Plant and equipment contracts and orders (1982 dol.)	Bil. dol.		361	352	310	317	380	410	413	474	541	578
New orders, manufacturing, consumer goods and materials (1982 dol.)	Bil. dol.		891	888	810	901	965	955	968	1,015	1,046	1,054
Money supply (M2) <sup>6</sup> (1982 dol.)	Bil. dol.		1,835	1,820	1,875	2,045	2,116	2,227	2,367	2,435	2,460	2,435
Consumer expectations index		1966 = 100	56.8	65.0	62.7	84.7	92.7	86.5	85.8	81.2	85.2	85.2
Change in manufacturers' unfilled orders, durable goods (1982 dol.) <sup>4</sup>	Bil. dol.		-13	-13	-28	14	28	-	-1	16	22	24
COINCIDENT INDICATORS												
Composite index		1982 = 100	107.2	107.3	100.0	101.9	112.2	116.0	118.7	122.4	128.2	132.9
Industrial production index		1987 = 100	84.1	85.7	81.9	84.9	92.8	94.4	95.3	100.0	105.4	108.1
Employees, nonagricultural payrolls	Million		90.4	91.2	89.6	90.2	94.5	97.5	99.5	102.2	105.6	108.6
Personal income less transfer payments (1982 dol.)	Bil. dol.		2,233	2,275	2,261	2,301	2,454	2,540	2,628	2,696	2,795	2,919
Sales, mfg. and trade (1982 dol.)	Bil. dol.		4,341	4,358	4,184	4,362	4,726	4,871	5,050	5,230	5,420	5,517
LAGGING INDICATORS												
Composite index		1982 = 100	105.5	102.8	100.0	91.4	100.7	107.7	111.7	111.3	114.9	119.8
Change in labor cost per unit of output, manufacturing <sup>4</sup>	Percent		10.1	6.3	3.8	-3.0	1.6	1.7	0.3	-2.2	2.3	3.1
Ratio, consumer installment credit to personal income	Percent		13.2	12.1	11.9	12.1	13.1	14.5	15.6	15.6	15.7	15.8
Average prime rate charged by banks	Percent		15.3	18.9	14.9	10.8	12.0	9.9	8.3	8.2	9.3	10.9
Average duration of unemployment	Weeks		11.9	13.8	15.6	19.9	18.1	15.6	15.0	14.5	13.5	11.9
Ratio, inventories to sales, mfg. and trade (1982 dol.)	Ratio		1.6	1.6	1.7	1.6	1.6	1.6	1.5	1.5	1.5	1.5
Commercial and industrial loans outstanding (1982 dol.) <sup>8</sup>	Bil. dol.		225	233	268	261	296	329	349	354	364	389
Change in CPI for services <sup>4,9</sup>	Percent		15.2	14.0	6.8	3.1	5.6	5.0	4.8	4.1	4.7	4.9

- Represents or rounds to zero. <sup>1</sup> New private housing units authorized. <sup>2</sup> Standard and Poor's 500 stocks. <sup>3</sup> Producer prices of selected crude and intermediate materials and spot market prices of selected raw industrial materials. <sup>4</sup> Smoothed by an autoregressive-moving-average filter developed by Statistics Canada. <sup>5</sup> Production workers. <sup>6</sup> See table 833. <sup>7</sup> Copyrighted by the University of Michigan's Survey Research Center. <sup>8</sup> Includes commercial paper issued by nonfinancial companies. <sup>9</sup> Consumer Price Index.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, monthly.

## No. 900. Business Cycle Expansions and Contractions—Months of Duration: 1919 to 1990

[The lower turning point of a cycle is considered a trough, the upper turning point a peak. Business cycle reference dates are determined by the National Bureau of Economic Research, Inc.]

BUSINESS CYCLE REFERENCE DATE		Contraction (trough from previous peak)	Expansion (trough to peak)	LENGTH OF CYCLE	
Trough	Peak			Trough from previous trough	Peak from previous peak
March 1919 . . . . .	January 1920 . . . . .	17	10	251	17
July 1921 . . . . .	May 1923 . . . . .	18	22	28	40
July 1924 . . . . .	October 1926 . . . . .	14	27	36	41
November 1927 . . . . .	August 1929 . . . . .	13	21	40	34
March 1933 . . . . .	May 1937 . . . . .	43	50	64	93
June 1938 . . . . .	February 1945 . . . . .	13	80	63	93
October 1945 . . . . .	November 1948 . . . . .	8	37	88	45
October 1949 . . . . .	July 1953 . . . . .	11	45	48	56
May 1954 . . . . .	August 1957 . . . . .	10	39	55	49
April 1958 . . . . .	April 1960 . . . . .	8	24	47	32
February 1961 . . . . .	December 1969 . . . . .	10	106	34	116
November 1970 . . . . .	November 1973 . . . . .	11	36	117	47
March 1975 . . . . .	January 1980 . . . . .	16	58	52	74
July 1980 . . . . .	July 1981 . . . . .	6	12	64	18
November 1982 . . . . .	July 1990 . . . . .	16	92	28	108
Average, all cycles:					
1919-1945 (6 cycles) . . . . .		18	35	53	53
1945-1990 (8 cycles) . . . . .		11	350	56	361

<sup>1</sup> Previous peak: August 1918. <sup>2</sup> Previous trough: December 1914. <sup>3</sup> For 9 cycles.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, April 1991.

**No. 901. Manufacturing and Trade—Sales and Inventories in Current and Constant (1982) Dollars: 1970 to 1989**  
[in billions of dollars, except ratios]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>CURRENT DOLLARS</b>												
<b>Sales, average monthly</b>	<b>107</b>	<b>182</b>	<b>328</b>	<b>357</b>	<b>349</b>	<b>369</b>	<b>409</b>	<b>419</b>	<b>425</b>	<b>450</b>	<b>490</b>	<b>522</b>
Manufacturing	53	87	154	168	163	171	188	190	189	199	218	232
Retail trade	31	49	80	87	89	98	107	115	120	127	137	144
Merchant wholesalers	24	47	93	102	96	100	113	115	116	124	135	146
<b>Inventories</b>	<b>178</b>	<b>289</b>	<b>494</b>	<b>528</b>	<b>582</b>	<b>574</b>	<b>620</b>	<b>645</b>	<b>657</b>	<b>701</b>	<b>729</b>	<b>781</b>
Manufacturing	102	160	264	283	317	307	326	331	318	331	342	366
Retail trade	44	72	116	127	133	139	157	172	186	207	212	230
Merchant wholesalers	32	57	113	118	130	127	136	143	153	163	175	185
<b>Inventory-sales ratio</b> <sup>2</sup>	<b>1.62</b>	<b>1.52</b>	<b>1.41</b>	<b>1.52</b>	<b>1.67</b>	<b>1.56</b>	<b>1.52</b>	<b>1.54</b>	<b>1.55</b>	<b>1.50</b>	<b>1.49</b>	<b>1.50</b>
Manufacturing	1.91	1.77	1.61	1.74	1.94	1.80	1.73	1.74	1.68	1.61	1.58	1.58
Retail trade	1.39	1.38	1.40	1.46	1.49	1.42	1.47	1.50	1.55	1.55	1.55	1.60
Merchant wholesalers	1.30	1.19	1.10	1.20	1.35	1.27	1.20	1.24	1.32	1.26	1.30	1.27
<b>CONSTANT (1982) DOLLARS</b>												
<b>Sales, average monthly</b> <sup>3</sup>	<b>260</b>	<b>306</b>	<b>372</b>	<b>357</b>	<b>346</b>	<b>383</b>	<b>403</b>	<b>414</b>	<b>432</b>	<b>457</b>	<b>478</b>	<b>482</b>
Manufacturing	131	149	175	167	159	178	186	189	192	214	224	224
Retail trade	70	83	93	91	94	102	108	112	120	121	127	126
Merchant wholesalers	60	74	104	99	93	102	109	113	120	122	127	132
<b>Inventories</b>	<b>428</b>	<b>496</b>	<b>591</b>	<b>602</b>	<b>582</b>	<b>584</b>	<b>631</b>	<b>638</b>	<b>642</b>	<b>669</b>	<b>689</b>	<b>702</b>
Manufacturing	248	282	327	330	315	309	330	321	316	323	330	334
Retail trade	97	116	130	136	133	142	158	169	171	186	192	199
Merchant wholesalers	83	99	134	136	134	133	143	149	155	160	166	169
<b>Inventory-sales ratios</b> <sup>4</sup>	<b>1.64</b>	<b>1.62</b>	<b>1.59</b>	<b>1.68</b>	<b>1.68</b>	<b>1.53</b>	<b>1.56</b>	<b>1.54</b>	<b>1.49</b>	<b>1.46</b>	<b>1.44</b>	<b>1.46</b>
Manufacturing	1.90	1.90	1.87	1.98	1.99	1.74	1.77	1.70	1.64	1.51	1.47	1.49
Retail trade	1.39	1.39	1.40	1.48	1.41	1.39	1.46	1.51	1.43	1.54	1.52	1.58
Merchant wholesalers	1.39	1.34	1.29	1.37	1.44	1.30	1.31	1.32	1.29	1.31	1.31	1.28

<sup>1</sup> Book value; seasonally adjusted end-of-year data. See text, section 17. <sup>2</sup> Average inventories to average sales. Average inventories based on weighted averages of end-of-month figures. <sup>3</sup> Average monthly sales for fourth quarter. <sup>4</sup> End of fourth quarter inventories to average monthly sales for fourth quarter.

Source: Current dollars from U.S. Bureau of the Census, *Current Business Reports*, "Manufacturing and Trade Inventories and Sales," February 1990 and unpublished data; constant dollars from U.S. Bureau of Economic Analysis, *Survey of Current Business*, September issues.

**No. 902. Manufacturing Corporations, Assets, and Profits, by Asset Size: 1970 to 1989**

[Corporations and assets as of **end of 4th quarter**; profit for **entire year**. Through 1975, corporations under \$10 million based on sample; \$10 million and over based on complete canvass. The asset value for complete canvass was raised in 1980 to \$25 million and again in 1988 to \$50 million. Asset sizes less than these values continue to be sampled, except as noted. For details regarding methodology, see source for first quarter, 1988.]

YEAR AND ITEM	Unit	Total	ASSET-SIZE CLASS						
			Under <sup>1</sup> \$10 mil.	\$10-\$25 mil.	\$25-\$50 mil.	\$50-\$100 mil.	\$100- \$250 mil.	\$250 mil.-\$1 bil.	\$1 bil. and over
Corporations:									
1970 <sup>2</sup>	Number	197,807	<sup>3</sup> 195,000	1,202	533	366	289	218	102
1975	Number	(NA)	(NA)	1,750	705	450	392	276	151
1980	Number	(NA)	(NA)	1,777	941	590	491	369	244
1983	Number	(NA)	(NA)	(NA)	863	683	559	403	275
1984	Number	(NA)	(NA)	(NA)	872	703	601	420	287
1985	Number	(NA)	(NA)	(NA)	896	744	608	428	281
1986	Number	(NA)	(NA)	(NA)	962	741	628	445	291
1987	Number	(NA)	(NA)	(NA)	1,007	811	676	481	318
1988	Number	(NA)	(NA)	(NA)	(NA)	783	729	550	334
1989	Number	(NA)	(NA)	(NA)	(NA)	781	750	579	347
Assets:									
1970	Mil. dol.	578,234	69,101	20,471	20,138	25,946	47,783	112,475	282,320
1975	Mil. dol.	810,910	98,147	31,307	24,720	31,395	62,524	139,113	423,705
1980	Mil. dol.	1,384,474	126,639	43,569	34,930	41,963	75,284	179,959	882,129
1983	Mil. dol.	1,704,951	149,791	54,506	41,766	52,673	87,391	194,212	1,124,612
1984	Mil. dol.	1,853,457	156,671	59,549	49,419	53,517	94,315	206,698	1,233,288
1985	Mil. dol.	1,932,766	153,883	64,324	52,669	58,019	96,748	208,403	1,298,720
1986	Mil. dol.	1,994,120	140,864	67,663	55,974	58,233	97,908	217,341	1,356,137
1987	Mil. dol.	2,135,266	147,919	65,623	50,171	60,874	109,458	235,368	1,465,853
1988	Mil. dol.	2,339,690	149,276	77,068	53,461	62,190	110,411	261,880	1,625,404
1989	Mil. dol.	2,501,097	144,814	73,487	56,548	68,149	117,014	282,056	1,759,029
Net profit: <sup>4</sup>									
1970	Mil. dol.	28,572	2,812	811	836	1,101	2,315	5,862	14,832
1975	Mil. dol.	49,135	6,212	1,831	1,327	1,676	3,553	8,165	26,370
1980	Mil. dol.	92,443	7,770	2,235	1,904	2,479	4,532	11,485	62,041
1983	Mil. dol.	85,834	7,438	2,893	2,149	2,466	3,861	6,134	60,893
1984	Mil. dol.	107,648	10,037	3,417	2,527	2,877	4,864	9,278	74,648
1985	Mil. dol.	87,647	8,601	2,551	2,305	2,819	3,628	7,312	60,431
1986	Mil. dol.	83,122	6,659	2,988	2,129	2,514	3,884	7,572	57,376
1987	Mil. dol.	115,600	7,273	3,849	2,753	3,338	5,237	9,636	83,514
1988	Mil. dol.	154,583	11,364	4,488	3,199	3,978	5,473	13,994	112,086
1989	Mil. dol.	136,490	10,381	5,173	2,921	3,105	4,434	11,824	98,651

NA Not available. <sup>1</sup> Beginning 1986, excludes estimates for corporations with less than \$250,000 in assets at time of sample selection. Prior periods include estimates for corporations in this size category. Source: U.S. Securities and Exchange Commission. <sup>2</sup> Data derived from U.S. Internal Revenue Service, *Statistics of Income*, annual. <sup>3</sup> After taxes.

Source: Except as noted, through 1980, U.S. Federal Trade Commission; thereafter, U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*.

### No. 903. Largest Industrial Corporations—Sales, Assets, Profits, and Stockholder's Equity, by Sales Group Rank: 1988 and 1989

[In billions of dollars, except percent. Excludes large privately owned companies that do not publish sales. Includes service and rental revenues, but companies must derive more than 50 percent of revenues from manufacturing or mining for years ending not later than Dec. 31 of year stated, sales exclude excise taxes collected by manufacturer and include discontinued operations. Minus sign (-) indicates decrease]

RANK BY SALES GROUP	SALES			ASSETS <sup>1</sup>			PROFITS <sup>2</sup>			STOCKHOLDER'S EQUITY		
	1988	1989	Percent change 1988-89	1988	1989	Percent change 1988-89	1988	1989	Percent change 1988-89	1988	1989	Percent change 1988-89
<b>500 largest</b> . . . . .	<b>2,023.1</b>	<b>2,164.8</b>	<b>7.0</b>	<b>2,078.8</b>	<b>2,298.6</b>	<b>10.8</b>	<b>115.0</b>	<b>105.7</b>	<b>-8.1</b>	<b>696.0</b>	<b>720.8</b>	<b>3.3</b>
Top 100 . . . . .	1,409.9	1,518.3	7.7	1,541.1	1,709.4	10.9	81.3	75.5	-7.1	486.3	510.0	4.4
101 to 200 . . . . .	306.0	320.8	4.8	276.0	299.8	8.6	16.2	15.6	-3.7	104.0	107.1	3.0
201 to 300 . . . . .	155.3	163.4	5.2	133.3	144.3	8.3	10.5	7.4	-29.5	59.5	53.4	-10.3
301 to 400 . . . . .	92.5	98.3	6.3	73.0	85.9	17.7	4.5	4.9	8.9	27.4	31.4	14.6
401 to 500 . . . . .	59.4	63.9	7.6	55.4	59.2	6.9	2.5	2.4	-4.0	18.8	18.9	0.5
<b>Percent of total:</b>												
Top 100 . . . . .	69.7	70.1	(X)	74.1	74.4	(X)	70.7	71.4	(X)	70.0	70.8	(X)
101 to 200 . . . . .	15.1	14.8	(X)	13.3	13.0	(X)	14.1	14.8	(X)	14.9	14.9	(X)
201 to 300 . . . . .	7.7	7.5	(X)	6.4	6.3	(X)	9.5	7.0	(X)	8.5	7.4	(X)
301 to 400 . . . . .	4.6	4.5	(X)	3.5	3.7	(X)	3.9	4.6	(X)	3.9	4.3	(X)
401 to 500 . . . . .	2.9	3.0	(X)	2.7	2.6	(X)	2.2	2.3	(X)	2.7	2.6	(X)

X Not applicable. <sup>1</sup> Total assets employed in business at end of fiscal year, less depreciation and depletion. <sup>2</sup> After taxes, special charges, and credits.

Source: Time Warner, New York, NY, *The Fortune Directories*. (Copyright.)

### No. 904. 500 Largest Industrial Corporations—Selected Financial Items: 1970 to 1989

ITEM	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
Sales per employee . . . . .	\$1,000 . . .	29.5	71.1	91.0	92.2	100.6	106.0	110.7	124.4	137.9	146.0
Changes in profits . . . . .	Percent . . .	(NA)	(NA)	(NA)	12.0	24.9	-19.1	-7.9	41.3	26.9	-8.1
Sales per dollar of stockholder's equity . . . . .	Dollar . . .	2.4	3.12	2.74	2.66	2.78	2.80	2.79	2.77	2.93	2.96
Return on stockholder's equity . . . . .	Percent . . .	9.5	14.1	10.9	10.7	13.6	11.6	11.6	14.4	16.2	15.0
Return on sales . . . . .	Percent . . .	3.9	4.5	3.6	3.8	4.5	3.9	4.1	5.1	5.5	4.6
Total return to investors <sup>1</sup> . . . . .	Percent . . .	6.5	21.6	21.2	30.2	-0.8	26.3	16.1	6.6	14.1	17.5

NA Not available. <sup>1</sup> Includes both price appreciation and dividend yield, i.e., to an investor in the company's stock.

Source: Time Warner, New York, NY, *The Fortune Directories*. (Copyright.)

### No. 905. 500 Largest Industrial Corporations—Selected Financial Items, by Industry: 1988 and 1989

[Data are medians and are ranked based on sales per employee for latest year shown. See headnote, table 903. Minus sign (-) indicates decrease. For definition of median, see Guide to Tabular Presentation]

INDUSTRY	SALES PER EMPLOYEE (\$1,000)		CHANGES IN PROFITS (percent)		SALES PER DOLLAR OF STOCKHOLDER'S EQUITY (dol.)		RETURN ON STOCKHOLDER'S EQUITY (percent)		RETURN ON SALES (percent)		TOTAL RETURN TO INVESTORS <sup>1</sup> (percent)	
	1988	1989	1988	1989	1988	1989	1988	1989	1988	1989	1988	1989
<b>Total</b> . . . . .	<b>137.9</b>	<b>146.0</b>	<b>26.9</b>	<b>-8.1</b>	<b>2.93</b>	<b>2.96</b>	<b>16.2</b>	<b>15.0</b>	<b>5.5</b>	<b>4.7</b>	<b>14.1</b>	<b>17.5</b>
Petroleum refining . . . . .	469.4	537.0	62.7	-11.8	3.07	3.09	15.3	10.4	4.7	3.4	22.9	43.8
Mining, crude-oil production . . . . .	290.2	314.6	13.8	7.0	1.66	1.56	2.4	12.7	3.3	9.6	9.2	51.7
Tobacco . . . . .	153.2	226.6	17.4	8.5	3.37	5.21	22.5	20.1	7.8	5.4	36.9	12.3
Food . . . . .	197.9	211.3	14.6	14.0	5.33	5.52	15.7	20.7	2.8	3.6	24.9	27.9
Chemicals . . . . .	204.8	206.0	35.0	1.6	2.46	2.44	16.8	15.9	6.9	6.6	11.0	17.6
Metals . . . . .	172.2	195.8	110.4	9.7	3.06	2.77	18.4	17.8	6.2	4.6	16.0	10.2
Beverages . . . . .	203.0	194.4	16.5	18.3	2.35	2.31	22.8	23.2	8.0	8.1	21.2	41.0
Soaps, cosmetics . . . . .	222.0	178.1	28.4	9.0	3.45	4.13	18.5	18.9	5.3	4.2	15.1	39.4
Forest products . . . . .	168.7	174.8	45.0	-5.3	2.38	2.44	19.8	16.9	8.7	7.1	12.0	19.8
Building materials . . . . .	158.3	146.2	-17.7	7.0	2.17	1.78	-3.3	13.6	4.5	3.9	24.9	12.9
Pharmaceuticals . . . . .	132.1	144.3	16.8	19.6	1.91	1.88	23.6	25.5	13.5	13.0	14.7	37.6
Publishing, printing . . . . .	117.0	124.0	12.6	8.6	2.11	2.16	17.7	15.9	7.1	6.4	8.6	15.4
Computers (incl. office equip.) . . . . .	109.0	124.0	12.6	-9.0	2.38	2.57	14.7	12.8	6.2	5.9	-11.5	-14.0
Rubber and plastic products . . . . .	124.0	122.6	15.5	-2.2	3.42	3.35	15.8	12.9	4.4	4.8	31.3	-1.6
Aerospace . . . . .	112.2	120.4	11.6	-14.5	3.64	4.16	11.4	10.2	3.6	3.2	19.5	3.0
Metal products . . . . .	120.8	119.9	17.8	3.4	2.83	3.01	12.7	18.4	4.6	6.2	9.9	24.9
Motor vehicles and parts . . . . .	111.2	117.9	13.7	-21.2	3.96	4.07	14.5	9.8	3.5	3.0	22.2	-8.3
Industrial and farm equipment . . . . .	102.4	113.7	25.2	-10.5	2.92	2.92	12.7	12.1	4.3	3.8	20.3	-2.2
Scientific, photographic equipment . . . . .	109.2	113.5	17.2	4.8	2.14	2.28	12.1	13.0	5.0	5.1	1.6	11.9
Transportation equipment <sup>2</sup> . . . . .	110.7	109.5	21.1	-9.4	2.96	3.64	13.4	10.9	3.1	3.0	39.2	-10.4
Electronics . . . . .	95.1	100.4	18.9	10.0	2.60	2.90	16.8	14.5	5.1	4.2	4.8	12.6
Furniture . . . . .	90.3	87.8	32.9	-4.8	2.67	3.52	15.9	14.0	5.6	4.6	15.0	1.8
Textiles . . . . .	78.8	81.2	13.9	15.3	3.37	3.49	10.8	10.1	3.5	1.9	18.4	14.0
Apparel . . . . .	56.4	58.2	-3.4	6.5	3.90	3.95	17.5	19.5	4.3	4.4	24.1	25.3

<sup>1</sup> Includes both price appreciation and dividend yield, i.e., to an investor in the company's stock. <sup>2</sup> Excludes motor vehicles and aircraft.

Source: Time Warner, New York, NY, *The Fortune Directories*. (Copyright.)

**No. 906. Corporate Profits, Taxes, and Dividends: 1970 to 1989**

[In billions of dollars. Covers corporations organized for profit and other entities treated as corporations. Represents profits to U.S. residents, without deduction of depletion charges and exclusive of capital gains and losses; intercorporate dividends from profits of domestic corporations are eliminated; net receipts of dividends, reinvested earnings of incorporated foreign affiliates, and earnings of unincorporated foreign affiliates are added]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Profits before taxes	76.0	134.8	237.1	226.5	189.6	207.6	240.0	224.3	221.6	275.3	316.7	307.7
Less: Income tax liability	34.4	50.9	84.8	81.1	63.1	77.2	93.9	86.4	106.3	126.9	136.2	135.1
Equals: Profits after taxes	41.7	83.9	152.3	145.4	106.5	130.4	146.1	127.8	115.3	148.4	180.5	172.6
Less: Net dividends	22.5	29.6	54.7	63.6	68.9	71.5	79.0	83.3	91.3	98.2	110.0	123.5
Equals: Undistributed profits	19.2	54.3	97.6	81.8	38.6	58.9	67.0	44.6	24.0	50.2	70.5	49.1
Capital consumption allowances <sup>3</sup>	57.2	90.2	164.7	166.3	225.8	259.7	287.2	328.3	339.7	355.6	369.9	372.0
Profits after tax plus capital consumption allowances	98.9	174.1	317.0	341.7	332.3	390.1	433.3	456.1	455.0	504.0	550.4	544.6

<sup>1</sup> Federal, State and local. <sup>2</sup> Disbursements to U.S. residents, measured after eliminations of intercorporate dividends.

<sup>3</sup> Without capital consumption adjustment. Includes depreciation and accidental damages.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

**No. 907. Corporate Profits, by Industry: 1980 to 1989**

[In billions of dollars. Profits are without inventory valuation and capital consumption adjustments. Minus sign (-) indicates loss. See headnote, table 906]

INDUSTRY	BEFORE TAXES						AFTER TAXES					
	1980	1985	1986	1987	1988	1989	1980	1985	1986	1987	1988	1989
<b>Total</b>	<b>237.1</b>	<b>224.3</b>	<b>221.6</b>	<b>275.3</b>	<b>316.7</b>	<b>307.7</b>	<b>152.3</b>	<b>127.8</b>	<b>115.3</b>	<b>148.4</b>	<b>180.5</b>	<b>172.6</b>
<b>Domestic industries</b>	<b>202.7</b>	<b>193.1</b>	<b>188.5</b>	<b>237.9</b>	<b>273.4</b>	<b>256.9</b>	<b>117.9</b>	<b>96.7</b>	<b>82.1</b>	<b>111.0</b>	<b>137.2</b>	<b>121.8</b>
Agriculture <sup>1</sup>	0.6	-0.1	1.5	1.9	2.0	1.8	0.2	-0.4	1.1	1.4	1.4	1.4
Mining	6.5	-5	-3.9	0.3	1.4	1.8	4.7	-5.2	-4.2	-0.5	0.6	0.8
Construction	6.5	5.7	8.2	12.1	12.4	13.3	4.4	3.9	5.8	9.2	8.7	9.2
Manufacturing	96.3	81.2	57.0	94.3	118.3	106.6	57.1	48.6	25.2	50.8	71.8	62.7
Transportation	3.7	2.8	3.1	5.0	7.5	5.1	2.1	1.0	1.5	2.0	4.2	3.1
Communications	7.5	13.1	15.8	17.9	17.4	20.8	5.6	9.2	9.8	10.3	8.6	10.2
Public utilities	9.7	16.1	13.7	19.0	19.8	18.6	7.1	10.8	7.6	10.3	9.3	7.9
Wholesale and retail trade	39.0	45.1	44.3	45.6	48.1	47.3	26.8	28.2	25.7	28.1	29.5	28.3
Finance, insurance <sup>2</sup>	22.8	20.7	30.6	22.2	24.3	17.4	3.1	-8.9	-4.3	-14.9	-13.7	-21.0
Services	9.9	13.4	18.2	19.6	22.3	24.2	6.9	9.5	14.0	14.3	16.9	19.0
<b>Rest of world<sup>3</sup></b>	<b>34.4</b>	<b>31.2</b>	<b>33.1</b>	<b>37.5</b>	<b>43.3</b>	<b>50.9</b>	<b>34.4</b>	<b>31.2</b>	<b>33.1</b>	<b>37.5</b>	<b>43.3</b>	<b>50.9</b>

<sup>1</sup> Includes forestry and fisheries.

<sup>2</sup> Includes real estate.

<sup>3</sup> Consists of receipts by all U.S. residents, including both corporations and persons, of earnings of unincorporated foreign affiliates, dividends from their incorporated foreign affiliates, and their share of reinvested earnings of their incorporated foreign affiliates, net of corresponding outflows.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

**No. 908. Corporate Profits With Inventory Valuation and Capital Consumption Adjustments—Financial and Nonfinancial Industries: 1970 to 1989**

[In billions of dollars. Minus sign (-) indicates loss. See headnote, table 906]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Corporate profits with IVA<sup>1</sup> and CCA<sup>2</sup></b>	<b>74.7</b>	<b>117.6</b>	<b>177.2</b>	<b>188.0</b>	<b>150.0</b>	<b>213.7</b>	<b>266.9</b>	<b>282.3</b>	<b>282.1</b>	<b>308.3</b>	<b>337.6</b>	<b>311.6</b>
Domestic industries	67.8	103.2	142.8	159.4	121.9	183.6	236.0	251.2	249.0	270.8	294.3	280.7
Financial	12.3	11.6	19.7	15.2	10.1	18.0	13.6	25.9	35.0	24.8	28.3	19.7
Nonfinancial	55.4	91.6	123.1	144.2	111.9	165.6	222.4	225.3	214.0	246.0	266.0	241.0
Rest of the world	6.9	14.4	34.4	28.5	28.0	30.2	30.9	31.2	33.1	37.5	43.3	50.9
<b>Corporate profits with IVA</b>	<b>88.5</b>	<b>123.9</b>	<b>194.0</b>	<b>202.3</b>	<b>159.2</b>	<b>196.7</b>	<b>234.2</b>	<b>222.6</b>	<b>228.3</b>	<b>255.9</b>	<b>289.8</b>	<b>285.1</b>
Domestic industries	62.6	109.5	159.6	173.8	131.2	166.6	203.3	191.4	195.2	218.4	246.5	235.2
Financial	12.2	11.2	20.0	16.5	11.8	18.1	13.0	22.8	32.0	20.7	22.4	15.4
Federal Reserve banks	3.6	5.7	11.9	14.5	15.4	14.8	16.7	16.8	16.0	16.2	18.1	20.7
Other	8.6	5.5	9.0	1.9	-3.6	3.3	-3.7	6.1	16.0	4.4	4.3	-5.2
Nonfinancial	50.4	98.3	138.6	157.3	119.4	148.5	190.3	168.6	163.2	197.8	224.1	219.8
Manufacturing	26.7	53.6	77.1	88.5	58.0	70.1	88.8	79.7	59.5	86.7	106.5	96.1
Durable goods <sup>3</sup>	10.2	19.8	21.3	21.0	2.1	17.2	38.1	28.5	30.8	41.0	42.8	37.1
Primary metal industries	0.8	2.7	2.5	3.1	-4.9	-4.9	-0.6	-1.4	2.6	2.8	6.3	6.2
Fabricated metal products	1.1	3.1	4.3	4.4	2.4	3.0	4.7	4.8	4.8	5.1	8.3	6.7
Machinery, except electrical	3.0	4.8	7.7	8.6	4.1	3.1	6.2	3.2	3.0	6.3	7.0	4.7
Electric and electronic equipment	1.2	2.4	4.7	4.1	1.7	3.7	5.5	3.6	2.9	6.2	6.7	7.4
Motor vehicles and equipment	1.2	2.0	-2.5	0.1	-0.8	5.1	9.0	7.2	4.1	2.8	1.5	-1.9
Nondurable goods	16.5	33.8	55.8	67.5	55.9	53.0	50.7	51.2	28.7	45.7	63.7	59.0
Food and kindred products	3.2	8.8	6.1	8.7	7.0	7.2	6.7	8.3	7.8	11.1	14.5	14.0
Chemicals and allied products	3.9	6.4	5.4	8.2	5.2	6.7	8.0	6.2	7.6	15.6	21.9	21.7
Petroleum and coal products	3.5	9.5	31.4	36.5	29.1	21.4	17.2	17.5	-7.6	-2.6	4.4	0.3
Transportation and public utilities	8.2	10.3	17.6	19.5	19.3	28.5	38.5	33.0	36.3	40.6	44.1	43.6
Wholesale and retail trade	9.6	22.2	21.6	32.5	34.6	38.9	51.2	44.1	44.1	37.9	37.1	38.7
Other	5.9	12.2	22.4	16.8	7.5	10.9	11.8	23.4	32.8	36.4	38.4	41.4

<sup>1</sup> Inventory valuation adjustment.

<sup>2</sup> Capital consumption adjustment.

<sup>3</sup> Includes other industries not shown separately.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.



### No. 909. Selected Corporate Profits and Stockholders' Equity Ratios, by Industry: 1980 to 1989

[Averages of quarterly figures at annual rates. Beginning 1988, manufacturing data exclude estimates for corporations with less than \$250,000 in assets at time of sample selection. Data are not necessarily comparable from year to year due to changes in accounting procedures, industry classifications, sampling procedures, etc.; for detail, see source. Based on sample; see source for discussion of methodology. Minus sign (-) indicates loss]

INDUSTRY GROUP	RATIO OF PROFITS TO STOCKHOLDERS' EQUITY (percent)				PROFITS PER DOLLAR OF SALES (cents)				RATIO OF STOCKHOLDERS' EQUITY TO DEBT			
	1980	1985	1988	1989	1980	1985	1988	1989	1980	1985	1988	1989
All manufacturing corporations <sup>1</sup> . . . .	13.9	10.1	16.2	13.7	4.9	3.8	6.0	5.0	2.3	1.9	1.5	1.4
Durable goods industries . . . . .	11.2	9.2	14.3	11.0	4.0	3.4	5.2	4.1	2.2	2.2	1.8	1.6
Stone, clay, and glass products . . . .	10.8	7.9	13.1	10.4	4.2	3.1	4.4	3.3	1.9	1.7	0.9	0.8
Primary metal industries . . . . .	11.7	-7.9	18.8	18.4	4.1	-2.6	4.8	4.6	1.7	1.2	1.0	1.1
Iron and steel . . . . .	9.0	-1.1	9.5	20.2	2.9	-2.6	1.8	2.7	1.7	0.8	0.6	0.6
Nonferrous metals . . . . .	15.6	-5.7	21.4	17.7	5.8	-2.5	7.6	6.3	1.9	1.6	1.5	1.5
Fabricated metal products . . . . .	13.9	9.2	13.3	13.6	4.2	2.9	3.9	3.8	2.1	1.6	1.4	1.3
Machinery, exc. electrical . . . . .	15.0	9.3	11.8	7.4	6.5	4.7	5.9	3.8	2.2	2.6	2.2	2.1
Electrical and electronic equipment . .	15.1	8.3	13.6	10.9	5.0	3.4	5.3	4.4	2.6	2.7	2.1	1.8
Transportation equipment . . . . .	-0.6	15.4	16.5	11.1	-0.3	4.1	5.1	3.6	2.7	2.9	2.2	2.1
Motor vehicles and equipment . . . .	-9.3	18.2	17.4	10.9	-3.4	4.9	5.6	3.6	3.4	4.2	2.4	2.4
Aircraft, guided missiles and parts . .	16.0	11.1	14.9	10.7	4.3	3.1	4.4	3.3	2.8	2.6	2.2	1.9
Instruments and related products . . .	17.5	10.1	16.1	12.4	9.3	5.7	8.6	6.2	4.3	3.5	1.7	1.6
Nondurable goods industries . . . . .	16.4	11.0	17.9	16.3	5.6	4.1	6.7	5.9	2.3	1.7	1.4	1.2
Food and kindred products <sup>2</sup> . . . . .	14.7	15.3	21.0	17.1	3.4	4.1	5.5	4.2	1.9	1.4	1.1	0.8
Tobacco manufactures . . . . .	19.8	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	11.7	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	1.8	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Textile mill products . . . . .	8.5	8.6	12.0	10.0	2.2	2.4	3.1	2.5	2.0	1.5	1.0	0.8
Paper and allied products . . . . .	12.1	9.7	19.2	15.6	5.1	4.0	7.5	6.2	2.0	1.7	1.6	1.3
Printing and publishing . . . . .	16.4	19.2	16.7	15.0	5.5	6.5	6.0	5.7	2.1	1.7	1.3	1.1
Chemicals and allied products . . . . .	15.4	9.4	20.3	19.7	7.1	4.7	9.1	8.8	2.2	2.1	1.6	1.5
Industrial . . . . .	11.9	4.2	20.4	17.9	5.4	2.2	8.9	8.3	1.9	1.8	1.5	1.5
Drugs . . . . .	19.9	15.2	30.3	28.0	13.2	9.8	15.9	15.1	3.0	3.2	2.0	2.1
Petroleum and coal products . . . . .	20.0	8.5	14.9	14.6	7.7	4.0	8.5	7.4	3.4	1.6	1.6	1.6
Rubber and misc. plastics products . .	6.7	9.5	16.5	12.1	2.0	2.6	4.1	3.1	1.6	1.6	1.0	1.0
Mining corporations, total <sup>3</sup> . . . . .	19.2	-4	2.3	6.0	11.3	-3.2	1.7	4.5	1.3	1.0	0.1	1.2
Retail trade corporations, total <sup>3</sup> . . .	13.2	12.5	12.6	13.2	1.7	2.2	2.0	1.9	1.2	1.4	0.8	0.7
Wholesale trade corporations, total <sup>3</sup> .	17.3	8.7	10.3	9.0	1.8	1.0	1.2	1.1	1.2	1.0	1.0	1.0

<sup>1</sup> Includes other industries not shown separately. <sup>2</sup> Beginning 1985, tobacco included in food and kindred products. <sup>3</sup> For 1985, represents results of companies with assets over \$25 million; thereafter, asset cut-off raised to \$50 million.

Source: 1980, U.S. Federal Trade Commission; thereafter, U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*. In U.S. Council of Economic Advisers, *Economic Report of the President*, annual.

### No. 910. Manufacturing Corporations—Sales, Profits, Stockholders' Equity, and Debt: 1960 to 1989

[In billions of dollars. Prior to 1970, excludes newspapers. Data are not necessarily comparable from year to year due to changes in accounting procedures, industry classifications, sampling procedures, etc.; for detail, see source. See also *Historical Statistics, Colonial Times to 1970*, series P 93-106]

YEAR	ALL MANUFACTURING CORPS.					DURABLE GOODS INDUSTRIES					NONDURABLE GOODS INDUSTRIES				
	Sales	Profits		Stock holders' equity <sup>1</sup>	Debt <sup>1</sup>	Sales	Profits		Stock holders' equity	Debt <sup>1</sup>	Sales	Profits		Stock holders' equity <sup>1</sup>	Debt <sup>1</sup>
		Before taxes	After taxes				Before taxes	After taxes				Before taxes	After taxes		
1960 . .	346	28	15	165	41	174	14	7	82	21	172	14	8	83	20
1970 . .	709	48	29	307	134	363	23	13	155	71	346	25	16	152	63
1972 . .	850	63	37	343	149	436	34	18	171	77	414	30	18	172	72
1973 . .	1,017	81	48	374	164	527	44	25	189	86	490	38	23	185	78
1974 . .	1,061	92	59	395	167	529	41	25	196	87	532	51	34	199	80
1975 . .	1,065	80	49	423	183	521	35	21	208	94	544	45	28	215	89
1976 . .	1,203	105	65	463	188	590	51	31	224	91	614	54	34	238	97
1977 . .	1,328	115	70	497	200	657	58	35	240	95	671	57	36	257	106
1978 . .	1,496	133	81	541	222	761	70	42	263	106	736	63	39	278	117
1979 . .	1,742	154	99	600	252	866	72	45	292	123	876	82	54	308	129
1980 . .	1,897	145	92	665	292	883	57	36	316	143	1,014	88	57	349	149
1981 . .	2,145	159	101	743	335	979	67	42	350	159	1,165	91	60	393	176
1982 . .	2,039	108	71	770	371	913	35	22	356	177	1,128	74	49	415	193
1983 . .	2,114	133	86	813	368	973	49	30	372	188	1,141	84	56	440	200
1984 . .	2,335	166	108	864	405	1,108	76	49	396	166	1,228	90	59	469	239
1985 . .	2,331	137	88	866	454	1,143	61	39	421	187	1,189	76	49	445	267
1986 <sup>2</sup> . .	2,221	129	83	875	501	1,126	52	33	436	203	1,096	78	51	438	298
1987 . .	2,378	173	116	901	553	1,178	78	53	444	229	1,200	95	63	457	324
1988 . .	2,596	216	155	958	622	1,285	92	67	469	265	1,312	124	88	489	357
1989 . .	2,745	189	136	999	732	1,356	75	55	501	308	1,388	114	81	498	424

<sup>1</sup> Annual data are average equity or debt for the year (using four end-of-quarter figures). <sup>2</sup> Beginning 1986, data exclude estimates for corporations with less than \$250,000 in assets at time of sample selection. Prior periods include estimates for corporations in this size category.

Source: Through 1981, U.S. Federal Trade Commission; thereafter, U.S. Bureau of Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*. In U.S. Council of Economic Advisers, *Economic Report of the President*, annual.

### No. 911. Corporate Philanthropy as a Percent of Worldwide Pretax Net Income: 1985 to 1989

[Data are based on a sample greater than 1,200 corporations. Medians by industry]

INDUSTRY CLASS	1985	1987	1988	1989	INDUSTRY CLASS	1985	1987	1988	1989
All firms, median . . . . .	1.0	0.9	0.8	0.9	Petroleum and gas <sup>2</sup> . . . . .	0.7	0.9	0.5	0.8
Manufacturing firms, median. . . . .	1.1	1.0	0.8	0.9	Pharmaceuticals . . . . .	1.0	1.0	1.1	1.0
Chemicals . . . . .	1.1	0.8	0.7	0.8	Primary metal industries . . . . .	1.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Electrical machinery and equipment . . . . .	1.6	1.2	0.6	0.7	Printing and publishing . . . . .	1.3	0.8	2.3	1.7
Fabricated metal products . . . . .	0.8	1.2	0.8	1.0	Stone, clay and glass products . . . . .	1.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Food, beverage and tobacco . . . . .	1.2	1.3	1.0	1.4	Textiles . . . . .	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	0.8
Machinery, nonelectrical . . . . .	1.1	1.0	0.9	0.7	Transportation equipment <sup>4</sup> . . . . .	1.0	0.9	1.1	1.2
Paper and like products . . . . .	1.2	0.7	0.6	0.7	Nonmanufacturing firms, median . . . . .	0.9	0.7	0.9	1.0

<sup>1</sup> Primary metals and stone, clay, and glass firms included with fabricated metal firms. <sup>2</sup> Mining firms included with petroleum firms. <sup>3</sup> Fewer than 4 companies reporting. <sup>4</sup> Rubber and miscellaneous plastic firms included with transportation firms.

Source: The Conference Board, New York, NY, *Annual Survey of Corporate Contributions*. (Copyright.)

### No. 912. U.S. Largest Public Companies—Return on Equity, Debt Equity Ratio, Sales Growth, and Earnings per Share—by Industry: 1985 to 1989

[In percent, except ranks. For fiscal years ending in the 12 month period ending September 30. Included in the Forbes Universe of 1,177 companies is every firm with revenue of over \$400 million in 1990, electric and banking firms \$800 million. Represents industry medians; calculated by listing companies in rank order and selecting the midpoint. Where there is an even number of companies, an arithmetic average of the two middle companies is substituted]

INDUSTRY	PROFITABILITY					GROWTH					
	Return on equity <sup>1</sup>			1989		Sales <sup>3</sup>			Earnings per share		
	5-year rank	5-year average 1985-89	Latest 12 months 1989	Return on capital, latest 12 months	Debt/capital	5-year rank	5-year average 1985-89	Latest 12 months 1989	5-year rank	5-year average 1985-89	Latest 12 months 1989
All-Industry medians . . . . .	(X)	14.3	14.4	11.1	32.0	(X)	10.9	8.5	(X)	7.6	8.0
Health . . . . .	1	17.8	18.4	14.7	20.6	7	12.7	8.8	5	11.0	15.2
Food, drink and tobacco . . . . .	2	17.5	17.8	12.8	32.3	10	10.6	10.6	3	12.7	12.3
Entertainment and information . . . . .	3	17.8	15.2	12.8	31.6	6	12.7	6.8	4	8.0	12.2
Business services and supplies . . . . .	4	17.1	16.6	12	27.3	2	14.6	8.6	6	12.2	15.2
Retailing . . . . .	5	16.5	14.4	11.3	35.2	4	13.0	11.3	1	11.1	12.7
Aerospace and defense . . . . .	6	13.9	13.4	10.0	33.0	11	9.8	4.9	10	7.2	1.1
Consumer nondurables . . . . .	7	16.7	17.1	14.1	34.6	9	10.8	8.4	2	12.6	15.6
Chemicals . . . . .	8	16.5	17.4	15.7	26.9	17	7.3	8.6	11	13.1	14.3
Insurance . . . . .	9	14.7	12.0	11.0	17.3	3	14.1	8.4	9	9.6	9.0
Financial services . . . . .	10	13.7	13.9	9.1	31.5	1	12.5	16.9	7	8.5	7.1
Computers and communications . . . . .	11	14.3	13.6	9.2	23.8	8	11.5	8.8	12	-4.1	-1.0
Consumer durables . . . . .	12	14.2	15.0	11.6	33.4	12	10.3	7.1	16	5.8	0.2
Forest products and packaging . . . . .	13	15.2	18.8	12.5	30.1	15	11.5	10.0	8	27.0	12.8
Electric utilities . . . . .	14	13.3	12.4	7.1	41.1	14	2.6	3.5	13	-6.3	-2.5
Travel . . . . .	15	11.3	14.4	9.3	48.5	5	12.0	9.1	20	(NS)	-17.0
Transport . . . . .	16	9.9	10.6	7.0	37.2	13	11.0	5.3	14	-14.1	5.2
Energy . . . . .	17	9.2	10.7	8.0	36.5	20	-7.1	5.3	18	(NS)	3.8
Capital goods . . . . .	18	10.9	14.1	11.0	29.2	19	8.6	10.1	15	3.9	10.8
Construction . . . . .	19	5.0	4.4	7.1	41.0	16	10.4	5.9	19	(NS)	-32.9
Materials . . . . .	20	8.9	14.6	11.4	30.4	18	7.9	8.1	18	(NS)	4.9

NS Not significant. X Not applicable. <sup>1</sup> Represents primary earnings per share before extraordinary item divided by common shareholders' equity per share. Common shareholders' equity is total shareholders' equity including the stated value of all preferred stock at the beginning of each year minus the involuntary liquidating value of non-convertible preferred shares. <sup>2</sup> After-tax profits, the amount remaining if the interest paid on long-term debt was taxed, and minority interest divided by a firm's total capitalization. Total capitalization is long-term debt, common and preferred equity, deferred taxes, investment tax credits and minority interest in consolidated subsidiaries. <sup>3</sup> Net sales plus other operating revenue.

Source: Forbes, Inc., New York, NY, *Forbes Annual Report on American Industry*. (Copyright.)

**No. 913. Foreign Corporate Activity in the United States: 1987**

[Includes corporations controlled or owned by any foreign person (i.e., an individual, partnership, corporation, estate, or trust), directly or indirectly, based on 50 percent or more of a U.S. corporation's voting stock at the end of the tax year]

AREA AND COUNTRY <sup>1</sup>	Number of returns	Total assets (bil. dol.)	Total receipts <sup>2</sup> (bil. dol.)	Net income (less deficit) (mil. dol.)	TOTAL U.S. INCOME TAX	
					Before credits (mil. dol.)	After credits (mil. dol.)
<b>All corporations in the United States . . . . .</b>	<b>3,612,133</b>	<b>15,310.6</b>	<b>9,580.7</b>	<b>328,224</b>	<b>118,485</b>	<b>86,989</b>
<b>Corporations controlled by a foreign person, total . . . . .</b>	<b>44,862</b>	<b>959.4</b>	<b>686.8</b>	<b>5,608</b>	<b>5,676</b>	<b>4,561</b>
Canada . . . . .	8,264	80.0	51.5	476	458	347
Latin America . . . . .	6,054	34.1	37.3	-497	122	83
Other Western Hemisphere . . . . .	253	7.1	10.3	12	49	37
Europe, total <sup>3</sup> . . . . .	14,073	512.9	335.2	4,842	3,424	2,827
Common Market countries, total <sup>3</sup> . . . . .	11,467	469.7	291.1	4,372	3,072	2,543
Belgium . . . . .	192	7.1	7.1	388	131	72
France . . . . .	1,899	43.5	29.8	114	254	211
Netherlands . . . . .	1,940	135.3	77.2	454	581	434
United Kingdom . . . . .	3,801	209.5	103.0	3,356	1,570	1,412
West Germany . . . . .	2,390	57.5	62.8	142	434	351
Sweden . . . . .	1,033	11.9	14.4	266	121	86
Switzerland . . . . .	1,069	23.2	23.7	241	202	173
Africa . . . . .	660	0.7	0.3	-5	1	1
Asia, total <sup>3</sup> . . . . .	8,024	227.5	204.2	-229	1,071	1,024
Hong Kong . . . . .	2,071	29.3	5.4	240	14	8
Japan . . . . .	3,708	172.0	184.9	219	979	951
South Korea . . . . .	153	3.8	6.8	19	31	31
Oceania . . . . .	603	21.1	9.1	-93	26	25
Puerto Rico and U.S. Possessions . . . . .	3	2.3	3.6	257	97	39
Country not stated . . . . .	6,928	73.7	35.2	869	428	179

<sup>1</sup> Geographic location of the foreign owners country of residence, incorporation, organization, creation or administration.

<sup>2</sup> Total receipts includes business plus investment receipts. <sup>3</sup> Some countries not shown separately.

Source: U.S. Internal Revenue Service, *Statistics of Income Bulletin*, various issues.

**No. 914. U.S. Multinational Companies—Assets, Sales, Employment, Employee Compensation, U.S. Exports and Imports: 1988**

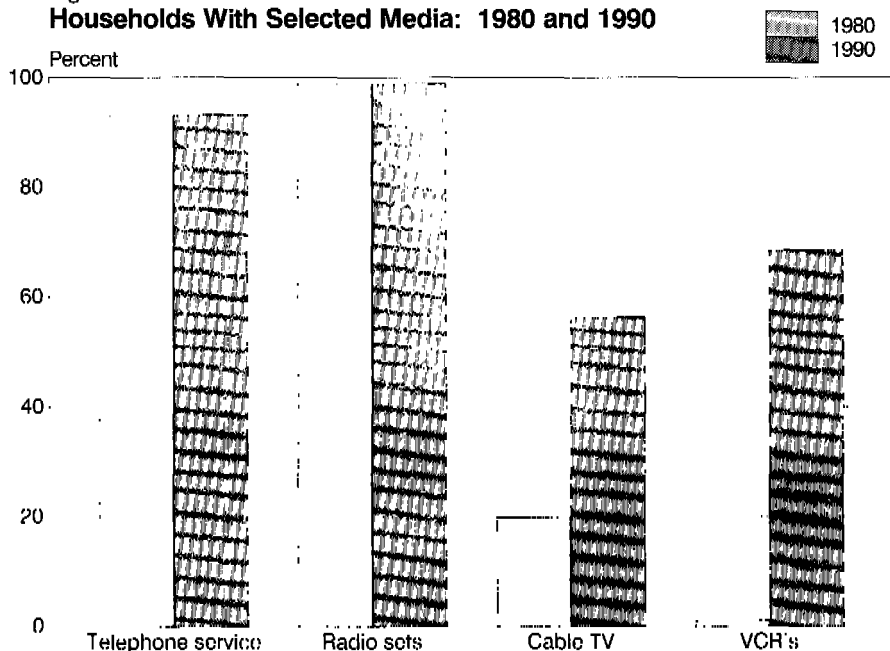
[In billions of dollars, except as indicated. Consists of non-bank U.S. parent companies and their foreign affiliates. U.S. parent is a U.S. person that owns or controls directly or indirectly, 10 percent or more of the voting securities of an incorporated foreign business enterprise, or an equivalent interest in an unincorporated foreign business enterprise. A U.S. person can be an incorporated business enterprise. A foreign affiliate is a foreign business enterprise owned or controlled by a U.S. parent company]

INDUSTRY <sup>1</sup>	U.S. PARENTS				FOREIGN AFFILIATES				U.S. exports shipped to foreign affiliates	U.S. imports shipped from foreign affiliates
	Total assets	Sales	Employment (1,000)	Employee compensation	Total assets	Sales	Employment (1,000)	Employee compensation		
<b>All industries . . . . .</b>	<b>4,353</b>	<b>2,827</b>	<b>17,935</b>	<b>591</b>	<b>1,204</b>	<b>1,195</b>	<b>6,404</b>	<b>151</b>	<b>95</b>	<b>87</b>
Petroleum . . . . .	425	294	656	29	193	208	296	11	2	9
Manufacturing . . . . .	1,630	1,430	9,815	366	455	620	4,141	98	66	68
Food and kindred products . . . . .	166	181	1,066	27	39	60	417	7	2	1
Chemical and allied products . . . . .	261	213	1,219	48	95	111	595	15	8	4
Primary and fabricated metals . . . . .	91	94	665	24	24	28	229	5	2	2
Machinery (except electrical) . . . . .	170	138	1,104	48	76	99	562	19	9	10
Electric and electronic equipment . . . . .	186	133	1,044	37	44	56	676	13	8	10
Transportation equipment . . . . .	431	372	2,220	102	93	162	804	21	30	35
Other . . . . .	326	298	2,498	81	84	103	858	19	7	7
Wholesale trade . . . . .	78	194	332	10	108	203	504	17	25	7
Finance (except banking), insurance, real estate . . . . .	1,539	377	1,050	40	349	51	165	6	(Z)	(D)
Services . . . . .	119	91	1,740	33	37	37	369	9	(Z)	(Z)
Other industries . . . . .	563	442	4,342	113	62	76	928	11	1	(D)

D Withheld to avoid disclosure. Z Less than \$500 million. <sup>1</sup> Represents industry of U.S. parent or industry of foreign affiliate.

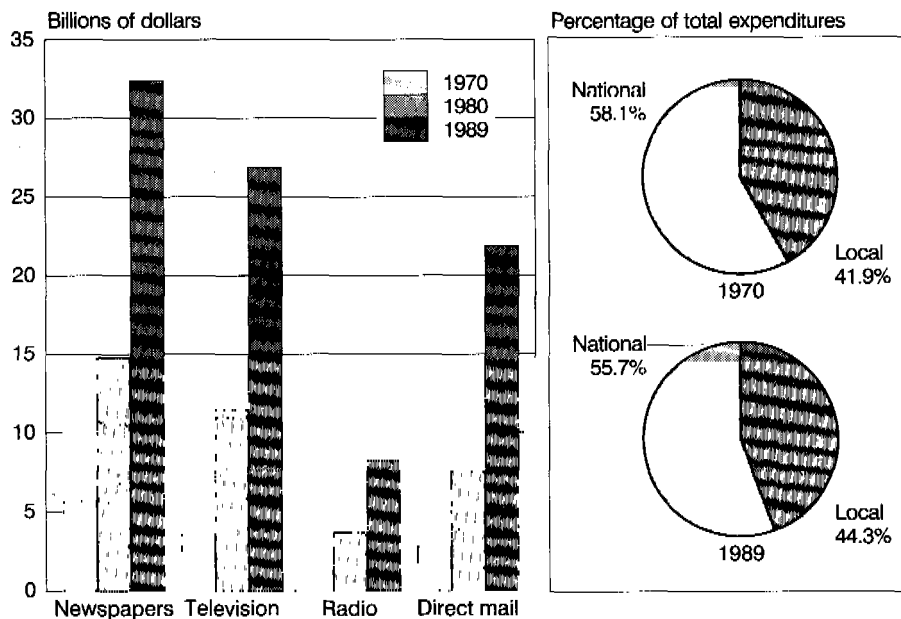
Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, June 1990.

Figure 18.1

**Households With Selected Media: 1980 and 1990**

Source: Chart prepared by U.S. Bureau of the Census. For data, see table 919.

Figure 18.2

**Advertising Expenditures, by Selected Media: 1970 to 1989**

Source: Chart prepared by U.S. Bureau of the Census. For data, see table 939.



## Section 18 Communications

This section presents statistics on the usage, finances, and operations of the Postal Service and of the various communications media: telephone, telegraph, radio, television, newspapers, and periodicals. Expenditures data for advertising in the media are also included.

**Postal Service.**—The Postal Service provides mail processing and delivery services within the United States. The Postal Reorganization Act of 1970 created the Postal Service, effective July 1971, as an independent establishment of the Federal Executive Branch.

*Revenue and cost analysis* describes the Postal Service's system of attributing revenues and costs to classes of mail and service. This system draws primarily upon probability sampling techniques to develop estimates of revenues, volumes, and weights, as well as costs by class of mail and special service. The costs attributed to classes of mail and special services are primarily incremental costs which vary in response to changes in volume; they account for roughly 60 percent of the total costs of the Postal Service. The balance represents "institutional costs". Statistics on revenues, volume of mail, and distribution of expenditures are presented in the Postal Service's annual report, *Cost and Revenue Analysis*, and its *Annual Report of the Postmaster General*.

**Communication media.**—The Federal Communications Commission (FCC), established in 1934, regulates wire and radio communications and licenses radio and television stations. Only the largest carriers and controlling companies file annual or monthly financial reports. Jurisdiction of the FCC applies to domestic and overseas telegraph carriers and to the Communications Satellite Corporation (Comsat), but not to a large number of telephone carriers that are engaged in intrastate service. The gross operating revenues of the telephone carriers reporting annually to the FCC, however, are estimated to cover about 90 percent of the revenues of all U.S. telephone companies.

Reports filed by the broadcasting industry cover substantially all radio and television stations operating in the United States and its outlying areas. The private radio services represent the largest and most diverse group of licensees regulated by the FCC. These services provide voice, data communications, point-to-point and point-to-multipoint communications for land mobile and microwave communicators. Major users of these services are small business, the aviation industry, the maritime trades, the land transportation industry, manufacturing industries, State and local public safety and governmental authorities, emergency medical service providers, amateur radio operators and personal radio operations (CB and the General Mobile Radio Service). The FCC also licenses entities as *private carriers*. *Private carriers* provide land mobile communications service and paging service on a for-profit basis. Principal sources of wire, radio, and television data are the FCC's *Annual Report*, and its annual *Statistics of Communications Common Carriers*.

Statistics on the printed media are available from the U.S. Bureau of the Census, as well as from various private agencies. The censuses of manufactures (conducted by the Census Bureau every 5 years, for the years ending in "2" and "7") provide statistics on the number and circulation of newspapers and periodicals and on sales of books and pamphlets. Editor & Publisher Co. New York, NY presents annual data on the number and circulation of daily and Sunday newspapers in its *International Year Book*. Monthly data on new books and new editions appear in *Publishers Weekly*, issued by R. R. Bowker Company, New York. (See table 395 for annual data.)

**Advertising.**—Data on advertising expenditures are compiled primarily by McCann-Erickson, Inc., which compiles certain of the data shown (see tables 937-938). Monthly index figures of advertising in certain media are also published periodically by McCann-Erickson in *Advertising Age*.

The Broadcast Advertisers Reports distinguishes between spot and local advertising primarily on the basis of the type of advertiser to whom the time is sold, rather than how and by whom it is sold. In general, time purchased on behalf of retail or service establishments in the market is considered local, even though the establishments may be part of a national or regional chain. That is, spot advertising promotes a product, while local advertising promotes a given establishment. Network advertising, mutually exclusive of spot and local, is broadcast through the network system.

**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

## No. 915. U.S. Postal Service—Summary: 1975 to 1989

[Employees in thousands; revenue and expenditures in millions of dollars, except as indicated. For fiscal years; see text, section 9. Includes Puerto Rico and all outlying areas except Canal Zone. See text, section 18. See also *Historical Statistics, Colonial Times to 1970*, series R 163-171]

ITEM	1975	1980	1983	1984	1985	1986	1987	1988	1989
Number of post offices . . . . .	30,754	30,326	29,990	29,750	29,557	29,344	29,319	29,203	29,083
Pieces of mail handled (est.) (bil.) . . . . .	89.3	106.3	119.4	131.5	140.1	147.4	153.9	161.0	161.6
First-class, number (bil.) <sup>1</sup> . . . . .	51.4	60.3	64.3	68.4	72.4	76.2	78.9	84.7	85.9
Percent . . . . .	57.6	56.7	53.8	52.0	51.7	51.7	51.3	52.6	53.2
Second class (bil.) . . . . .	9.1	8.4	9.2	9.5	10.4	10.6	10.3	10.4	10.5
Employees, total . . . . .	702	667	679	702	744	785	791	824	817
Regular . . . . .	559	536	547	561	586	606	751	764	764
Postmasters . . . . .	30	29	28	28	28	27	28	28	27
Office supervisors and tech. personnel . . . . .	37	36	39	45	46	49	55	55	55
Office clerks and mail handlers . . . . .	239	229	229	235	249	260	345	347	345
City carriers and vehicle drivers . . . . .	167	160	166	171	179	187	237	243	243
Rural carriers . . . . .	31	33	34	35	35	36	37	39	40
Other . . . . .	55	49	51	47	48	47	49	52	54
Substitute (part-time) . . . . .	143	130	132	141	159	179	40	60	53
Compensation and employee benefits (mil. dol.) . . . . .	10,805	16,541	20,070	22,157	24,349	25,576	27,229	30,749	32,368
Avg. salary per employee (dol.) <sup>3</sup> . . . . .	15,392	24,799	29,565	31,562	32,727	32,581	34,424	36,989	39,619
Pieces of mail per employee, avg . . . . .	127	159	176	187	188	188	195	195	198
Total revenue <sup>4</sup> . . . . .	11,590	19,106	24,699	26,474	28,956	31,021	32,297	35,939	38,920
Operating postal revenue . . . . .	10,015	17,143	23,582	25,314	27,736	30,102	31,529	35,036	38,415
Stamps, postal cards, etc. . . . .	2,819	4,287	5,709	6,023	6,520	6,969	7,246	7,784	8,381
Second-class postage paid in money (pound rates) <sup>5</sup> . . . . .	284	881	991	1,056	1,339	1,271	1,326	1,455	1,594
Other postage paid under permit and meter . . . . .	6,241	10,828	14,755	16,067	17,747	19,294	20,280	22,678	24,534
Box rents . . . . .	67	160	202	188	230	259	273	296	362
Miscellaneous . . . . .	556	892	1,801	1,847	1,774	2,174	2,255	2,683	3,449
Money-order revenues . . . . .	53	95	124	132	126	135	148	142	148
Government appropriations . . . . .	1,533	1,610	789	879	970	716	650	517	436
Percent of total revenue . . . . .	13.2	8.4	3.2	3.3	3.3	2.3	2.0	1.4	1.1
Investment income, net . . . . .	37	353	328	282	250	203	119	-30	16
Mail and service:									
First-class mail <sup>1</sup> . . . . .	5,798	10,146	14,255	15,216	16,740	18,035	18,786	21,402	23,234
Priority mail <sup>6</sup> . . . . .	411	612	849	928	960	1,011	1,086	1,329	1,416
Second-class publishers' mail <sup>7</sup> . . . . .	277	864	958	1,025	1,093	1,222	1,280	1,400	1,519
Third-class mail <sup>8</sup> . . . . .	1,348	2,412	3,677	4,241	4,887	5,606	6,148	2,311	7,924
Bulk rate . . . . .	1,167	2,168	3,482	4,039	4,697	5,414	5,947	7,096	7,668
Single piece rate and fees . . . . .	181	244	195	202	190	193	200	215	256
Fourth-class mail <sup>9</sup> . . . . .	718	805	753	774	763	814	823	929	908
Zone rate mail (parcels, catalogs, etc.) . . . . .	577	500	500	519	524	550	563	647	612
Special fourth-class rate . . . . .	130	272	206	210	199	213	203	223	235
Library rate and fees . . . . .	11	33	47	45	40	51	57	59	61
Government mail <sup>10</sup> . . . . .	484	745	913	901	934	992	907	(NA)	(NA)
International mail <sup>11</sup> . . . . .	390	596	874	859	882	934	957	992	1,081
Special services . . . . .	251	518	866	868	918	979	1,030	1,136	1,314
Express mail . . . . .	(X)	184	422	490	544	491	499	524	572
Mailgrams . . . . .	(X)	15	14	13	15	17	13	12	10
Other <sup>12</sup> . . . . .	1,913	2,205	1,118	1,159	1,220	919	769	903	452
Expenditures <sup>13</sup> . . . . .	12,578	19,412	24,083	26,357	29,207	30,716	32,520	36,119	38,370

NA Not available. X Not applicable. <sup>1</sup> Items mailed at 1st-class rates and weighing 12 ounces or less. <sup>2</sup> Includes mobile unit employees. <sup>3</sup> Includes fringe benefits. <sup>4</sup> Net revenues after refunds of postage. Includes operating reimbursements, embossed envelope purchases, indemnity claims, and miscellaneous revenue and expenditure offsets. Shown in year which gave rise to the earnings. <sup>5</sup> Includes controlled circulation publications. <sup>6</sup> Items otherwise qualified as 1st-class or airmail that exceeds 12 ounces and 8 ounces, respectively. <sup>7</sup> Includes mail paid at other than bulk rates. Publishers' mail includes printed publications periodically issued and mailed at a known post office to paid subscribers, such as regular rate newspapers and magazines, and classroom and nonprofit rate publications. See source for further detail. <sup>8</sup> Items less than 16 ounces in weight not mailed at either 1st- or 2d-class rates. <sup>9</sup> Items not mailed at 1st-, 2d-, or 3d-class rates, except government and international mail. May include parcel post, catalogs weighing 16 ounces or more, books, films, and records. <sup>10</sup> Penalty and franked. Beginning in 1989 penalty and franked mail are included in their appropriate classes of mail. <sup>11</sup> Mail from U.S. to foreign countries paid at international mail rates. <sup>12</sup> Consists of unassignable revenues; 1975 includes domestic airmail. <sup>13</sup> Shown in year in which obligation was incurred.

Source: U.S. Postal Service, *Annual Report of the Postmaster General*.

**No. 916. U.S. Postal Service—Volume of Mail, by Class: 1970 to 1989**

[In millions, except per capita. For fiscal years; see text section 9. Includes Puerto Rico and all outlying areas except Canal Zone. For definition of classes of mail, see footnotes, table 915. See also *Historical Statistics, Colonial Times to 1970*, series R 172-186]

CLASS OF MAIL	PIECES OF MAIL					WEIGHT OF MAIL (lb.)				
	1970	1980	1985	1988	1989	1970	1980	1985	1988	1989
Total	84,882	106,311	140,098	160,954	161,603	13,281	12,958	16,783	18,607	18,412
Domestic	83,986	105,348	139,269	160,228	160,880	13,055	12,742	16,584	18,385	18,184
1st class and airmail <sup>1</sup>	50,174	60,332	72,517	84,815	85,926	1,636	2,213	2,807	3,259	3,315
Priority mail	185	248	308	437	471	371	591	672	925	939
2d class <sup>2</sup>	9,914	10,221	10,360	10,483	10,523	3,641	3,478	3,986	4,118	4,170
3d class	19,974	30,381	52,170	63,250	62,779	2,032	3,240	6,453	7,652	7,479
4th class	877	633	576	674	626	4,786	2,661	2,156	2,336	2,196
Penalty	2,544	2,992	2,608	(NA)	(NA)	540	503	470	(NA)	(NA)
Franked and free for blind	218	540	710	569	555	49	56	40	51	85
International	896	963	829	726	724	226	216	219	222	228
Per capita: <sup>3</sup>										
Total, all domestic mail <sup>4</sup>	411	464	585	655	651	64	56	70	75	74
1st class and airmail	245	266	304	347	348	8	10	12	13	13
2d class <sup>2</sup>	49	45	44	43	43	18	15	17	17	17
3d class	98	134	219	259	254	10	14	27	31	30
4th class	5	3	2	3	3	23	12	9	9	9

NA Not available. <sup>1</sup> Beginning 1980, includes express mail established as a class of mail on October 9, 1977, and mailgrams. <sup>2</sup> See footnote 8, table 915. <sup>3</sup> 1970 and 1980, based on April 1 population, including Armed Forces abroad; otherwise, based on estimated total population as of Jan. 1, including Armed Forces abroad. <sup>4</sup> Includes types of mail not shown separately.

Source: U.S. Postal Service, *Annual Report of the Postmaster General*.

**No. 917. U.S. Postal Service Rates for Letters and Post Cards: 1958 to 1990**

[Domestic airmail letters discontinued in 1973 at 13 cents per ounce; superseded by express mail. See also *Historical Statistics, Colonial Times to 1970*, series R 188-191]

DATE OF RATE CHANGE	SURFACE MAIL				Ex- press mail	DATE OF RATE CHANGE	SURFACE MAIL				Ex- press mail
	Letters			Postal and post cards			Letters			Postal and post cards	
	Each oz	First oz	Each added oz				Each oz	First oz	Each added oz		
1958 (Aug. 1) . .	\$0.04	(X)	(X)	(X)	\$0.03	(X)	(X)	\$0.15	\$0.13	\$0.10	(X)
1963 (Jan. 7) . .	\$0.05	(X)	(X)	(X)	\$0.04	(X)	(X)	\$0.18	\$0.17	\$0.12	(X)
1968 (Jan. 7) . .	\$0.06	(X)	(X)	(X)	\$0.05	(X)	(X)	\$0.20	\$0.17	\$0.13	\$9.35
1971 (May 16) . .	\$0.08	(X)	(X)	(X)	\$0.06	(X)	(X)	\$0.22	\$0.17	\$0.14	\$10.75
1974 (Mar. 2) . .	\$0.10	(X)	(X)	(X)	\$0.08	(X)	(X)	\$0.25	\$0.20	\$0.15	\$12.00
1975 (Sept. 14) .	<sup>2</sup> (X)	\$0.10	\$0.09	\$0.07	\$0.07	(X)	(X)	\$0.25	\$0.20	\$0.15	\$12.00
1975 (Dec. 31) .	<sup>2</sup> (X)	<sup>2</sup> \$0.13	<sup>2</sup> \$0.11	<sup>2</sup> \$0.09	(X)	(X)	(X)	\$0.25	\$0.20	\$0.15	\$12.00

X Not applicable. <sup>1</sup> Post Office to addressee rates. Rates shown are for weights up to 2 pounds, all zones. Beginning Feb. 17, 1985, for weights between 2 and 5 lbs, \$12.85 is charged. Prior to Nov. 1, 1981, rate varied by weight and distances. Over 5 pounds still varies by distance. <sup>2</sup> As of October 11, 1975, surface mail service upgraded to level of airmail. <sup>3</sup> Over eight ounces and up to two pounds.

**No. 918. International Air Mail Rates From the United States: 1961 to 1990**

[Excludes Canada and Mexico]

DATE OF RATE CHANGE	ZONE 1 <sup>1</sup>		ZONE 1 <sup>2</sup>		ZONE 1 <sup>3</sup>		Postal and post cards	Aero-grammes
	Each 1/2 oz up to 2 ozs	Each added 1/2 oz	Each 1/2 oz up to 2 ozs	Each added 1/2 oz	Each 1/2 oz up to 2 ozs	Each added 1/2 oz		
1961 (July 1)	0.13	0.13	0.15	0.15	0.25	0.25	0.11	0.11
1967 (May 1)	0.15	0.15	0.20	0.20	0.25	0.25	0.13	0.13
1971 (July 1)	0.17	0.17	0.21	0.21	0.21	0.21	0.13	0.13
1974 (March 2)	0.21	0.17	0.26	0.21	0.26	0.21	0.18	0.18
1976 (January 3)	0.25	0.21	0.31	0.26	0.31	0.26	0.21	0.22
1981 (January 1)	0.35	<sup>4</sup> 0.30	0.40	<sup>5</sup> 0.35	0.40	<sup>5</sup> 0.35	0.28	0.30
1985 (February 17)	0.39	<sup>6</sup> 0.33	0.44	0.39	0.44	<sup>7</sup> 0.39	0.33	0.36
1988 (April 17)	0.45	0.42	0.45	0.42	0.45	0.42	0.36	0.39
1989 (August)	0.45	0.42	0.45	0.42	0.45	0.42	0.36	0.39

<sup>1</sup> Caribbean, Central and South America. The airmail letter rate to South America, 1961 to 1967, was the same as that to Europe. Beginning January 3, 1976, the airmail letter rate to all South American countries except Colombia and Venezuela is the same as Europe; Colombia and Venezuela are included in the first zone. <sup>2</sup> Europe and Mediterranean Africa. <sup>3</sup> Rest of world. <sup>4</sup> Up to 32 oz.; 30 cents per additional ounce over 32. <sup>5</sup> Up to 32 oz.; 35 cents per additional ounce over 32. <sup>6</sup> Up to 32 oz.; 33 cents per additional ounce over 32. <sup>7</sup> Up to 32 oz.; 39 cents per additional ounce over 32. <sup>8</sup> Air letters collapsed to a single schedule except for Canada and Mexico.

Source of tables 917 and 918: U.S. Postal Service, "United States Domestic Postage Rate: Recent History", and unpublished data.

## No. 919. Utilization of Selected Media: 1970 to 1990

ITEM	Unit	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989	1990
Households with—												
Telephone service <sup>1</sup>	Percent	87.0	(NA)	93.0	(NA)	91.8	91.8	92.2	92.5	92.9	93.0	93.3
Radio sets	Millions	62.0	71.4	78.6	84.6	86.7	87.1	88.1	89.9	91.1	(NA)	92.8
Percentage to the household <sup>2</sup>	Percent	98.6	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	(NA)	99.0
Average number of sets	Number	5.1	5.6	5.5	5.5	5.5	5.5	5.4	5.4	5.6	(NA)	5.6
Television sets	Millions	59	69	76	83	84	85	86	87	89	90	92
Percent of total households	Percent	95.3	97.1	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.2	98.2
Television sets in homes	Millions	81	105	128	149	149	155	158	163	168	176	185
Average number of sets	Number	1.4	1.5	1.7	1.8	1.8	1.8	1.8	1.9	1.9	1.9	2.0
Color set households	Millions	21	47	63	74	76	78	80	83	85	87	90
Cable television <sup>4</sup>	Millions	4	9	15	28	33	36	39	42	44	48	52
Percent of TV households	Percent	6.7	12.6	19.9	34.0	39.3	42.8	45.6	47.7	49.4	52.8	56.4
VCR's <sup>5</sup>	Millions	(NA)	(NA)	1	5	9	18	31	43	51	58	63
Percent of TV households	Percent	(NA)	(NA)	1.1	5.5	10.6	20.8	36.0	48.7	58.0	64.6	68.6
Commercial radio stations:												
AM	Number	4,323	4,463	4,589	4,733	4,754	5,718	4,863	4,902	4,932	(NA)	4,975
FM	Number	2,196	2,767	3,282	3,527	3,716	5,875	3,944	4,041	4,155	(NA)	4,269
Television stations: <sup>6</sup> Total	Number	862	953	1,011	1,106	1,138	1,182	1,235	1,290	1,362	1,403	1,442
Commercial	Number	677	706	734	813	841	883	919	968	1,028	1,061	1,092
VHF <sup>3</sup>	Number	501	514	516	519	523	520	522	524	539	545	547
UHF <sup>3</sup>	Number	176	192	218	294	318	363	397	444	489	516	545
Cable television: <sup>6</sup>												
Systems	Number	2,490	3,506	4,225	5,600	6,200	6,844	7,600	7,900	8,500	(NA)	(NA)
Subscribers served	Millions	4.5	9.8	15.5	25.0	30.0	31.3	37.5	41.0	43.8	47.8	(NA)
Daily newspaper circulation: <sup>7</sup>												
Number	Millions	62	61	62	63	63	63	63	63	63	(NA)	63
Per capita <sup>8</sup>	Number	0.305	0.282	0.275	0.267	0.267	0.263	0.260	0.258	0.256	(NA)	0.251

NA Not available. <sup>1</sup> For occupied housing units, 1970 through 1980, as of April 1; thereafter, as of March. Source: U.S. Bureau of the Census, *Census of Housing: 1970 and 1980*, vol. 1, and unpublished data. <sup>2</sup> As of Dec. 31, except as noted. Source: Radio Advertising Bureau, New York, NY, *Radio Facts*, annual (copyright). Number of stations on the air compiled from Federal Communications Commission reports. <sup>3</sup> 1970-1975, as of Sept. of prior year; all other years as of Jan. of year shown. Excludes Alaska and Hawaii. Source: Television Bureau of Advertising, Inc., *Trends in Television*, annual (copyright). <sup>4</sup> As of February. Excludes Alaska and Hawaii. Source: See footnote 3. <sup>5</sup> As of February 1986. <sup>6</sup> As of Jan. 1 of year shown. Number of television stations on the air. Source: See footnote 3. <sup>7</sup> As of Sept. 30. Source: Editor & Publisher, Co., New York, NY, *Editor & Publisher International Year Book*, annual (copyright). <sup>8</sup> Per capita based on total resident population enumerated as of April 1, 1970 and 1980, and estimated as of July 1 for other years. Source: See footnote 3.

Source: Compiled from sources mentioned in footnotes.

## No. 920. Multimedia Audiences—Summary: 1990

(In percent, except as indicated. As of spring. For persons 18 years old and over. Based on sample and subject to sampling error; see source for details)

ITEM	Total population (1,000)	Television viewing and coverage	Television prime time viewing and coverage	Cable viewing and coverage	Radio listening and coverage	Newspaper reading and coverage
Total	180,974	92.5	77.8	51.0	85.7	84.6
18-24 years old	25,162	90.5	69.5	50.2	95.6	79.1
25-34 years old	43,573	90.8	76.5	52.4	92.5	84.2
35-44 years old	35,816	92.4	78.0	54.8	91.0	88.1
45-54 years old	24,740	92.9	78.7	54.2	86.5	88.5
55-64 years old	22,247	94.0	81.5	52.6	78.7	85.4
65 years old and over	29,414	95.3	82.6	40.1	65.5	81.5
Male	86,307	92.1	75.7	53.1	88.0	85.4
Female	94,667	92.8	79.7	49.0	83.7	83.8
White	156,336	92.1	77.1	53.5	85.8	86.0
Black	20,257	95.1	83.1	34.8	85.5	78.4
Other	4,381	92.6	75.4	33.8	83.0	62.0
Spanish speaking	9,868	93.8	77.8	42.8	84.9	71.3
Not high school graduate	44,258	93.8	79.5	40.9	75.3	70.5
High school graduate	71,206	93.1	78.4	52.3	87.4	85.9
Attended college	33,285	91.3	76.6	55.5	90.7	90.5
College graduate	32,229	91.0	75.0	57.0	91.4	94.8
Employed:						
Full-time	98,104	91.1	76.0	54.5	92.2	87.5
Part-time	16,795	92.7	74.3	54.7	90.5	88.3
Not employed	66,074	94.4	81.1	44.8	74.9	79.3
Household income: Less than \$10,000	21,185	93.8	79.9	33.2	74.3	66.8
\$10,000 to \$19,999	32,464	93.6	79.0	41.7	77.8	78.6
\$20,000 to \$29,999	31,503	92.8	78.4	48.9	86.0	84.1
\$30,000 to \$34,999	15,525	92.0	78.6	53.5	88.1	86.9
\$35,000 to \$39,999	13,847	92.2	78.5	53.6	90.0	89.1
\$40,000 to \$49,999	22,636	92.7	80.0	56.9	90.9	89.3
\$50,000 or more	43,814	91.0	73.5	63.1	92.1	93.2

Source: Mediarmark Research Inc., New York, NY, *Multimedia Audiences*, Spring 1990. (Copyright.)



## No. 921. Communications Equipment—Factory Shipments: 1985 to 1989

[In millions of dollars, except percent change. Minus sign (-) indicates decrease. N.e.c. Not elsewhere classified]

ITEM	1985	1986	1987	1988	1989	PERCENT CHANGE		
						1986-87	1987-88	1988-89
Shipments, total	41,032	44,329	44,713	48,485	50,750	0.9	8.4	4.7
Search, detection, navigation and guidance systems and equip.	27,057	29,921	31,426	32,119	33,100	-0.2	10.1	3.1
Radar systems and equipment	4,321	4,825	3,751	3,829	3,940	-22.5	3.9	2.9
Missile and space-vehicle-borne equip	2,732	3,410	4,169	4,648	4,850	11.7	15.5	4.3
Navigation systems and equip.	2,971	3,479	3,820	4,004	4,155	-2.2	10.3	3.8
Counter measures equipment	2,682	3,090	3,527	3,323	3,350	-12.5	3.6	0.8
Tracking radar	2,208	2,452	2,900	2,857	2,850	16.3	8.7	-0.2
Search, detect, ident., and tracking n.e.c	1,961	1,953	1,964	1,769	1,785	-1.2	3.6	0.9
Sonar search, detect., tracking systems	1,885	1,934	1,835	1,681	1,625	8.3	11.0	-3.3
Specialized elect. and comm. intelligence equip	1,810	1,895	2,049	2,308	2,485	6.3	14.2	7.7
Commercial, industrial, and military communications equipment	10,671	11,184	11,503	12,684	13,750	1.2	5.1	8.4
Space satellite communications systems	2,281	2,392	2,224	2,217	2,225	-13.9	6.8	0.4
Receivers, radio communications	1,953	2,001	1,764	1,994	2,165	-3.7	-0.1	8.6
Intercommunications systems	1,743	1,670	1,944	1,934	1,950	2.2	0.8	0.8
Broadcast studio and related elect. equip	1,562	1,554	1,608	1,831	1,950	18.1	9.8	6.5

<sup>1</sup> Includes shipments not shown separately. <sup>2</sup> For aircraft, ship, and ground navigation. Represents autopilots, beacons, collision warning devices, direction finders equipment, etc. <sup>3</sup> Includes alarm systems and traffic control shipment. <sup>4</sup> Includes video, cable TV, and audio equipment.

Source: Electronic Industries Association, Washington, DC, *Electronic Market Data Book*, annual.

## No. 922. Telephone and Telegraph Systems: 1970 to 1989

[Covers principal carriers filing annual reports with Federal Communications Commission. Minus sign (-) indicates loss. See *Historical Statistics, Colonial Times to 1970*, series R 46-70 and R 75-88, for data on telegraph systems]

ITEM	Unit	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
Domestic telephone:											
Carriers	Number	56	62	59	62	61	39	39	37	54	53
Telephones	Million	105	130	157	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Access lines	Million	(NA)	(NA)	(NA)	(NA)	100	103	106	111	122	126
Miles of wire	Million	628	872	1,131	1,260	1,290	1,313	1,338	1,371	1,483	1,502
Gross book cost of plant	Bil. dol.	59.9	95.5	147.4	184.2	183.0	195.1	207.4	222.0	250.2	260.1
Depreciation reserves	Bil. dol.	13.2	18.8	26.5	39.7	42.9	50.0	58.7	69.8	84.7	94.2
Ratio to book cost	Percent	22.1	19.7	18.0	21.5	23.5	25.6	28.3	31.4	33.9	36.2
Capital stock and premium	Bil. dol.	16.4	21.6	31.3	43.4	48.9	48.1	41.5	42.8	45.4	45.7
Operating revenues	Bil. dol.	18.2	31.3	55.6	75.0	98.9	104.8	106.4	106.3	116.7	117.3
Operating expenses	Bil. dol.	11.7	20.2	37.3	50.9	74.7	78.6	79.0	79.8	90.8	91.7
Net operating income	Bil. dol.	3.1	5.6	10.0	12.4	12.4	13.4	13.9	14.5	16.5	16.2
Net income	Bil. dol.	2.3	3.6	8.6	7.6	8.5	9.5	10.4	11.1	12.6	12.4
Employees	1,000	839	840	938	858	742	(NA)	(NA)	(NA)	688	663
Compensation of employees	Bil. dol.	7.0	11.7	20.2	25.1	22.7	(NA)	(NA)	(NA)	24.9	24.4
Overseas telephone:											
Number of overseas calls	Million	23.4	62.2	199.6	369.5	427.6	411.7	477.6	579.6	705.7	1,007.8
Revenue from overseas calls	Mill. dol.	252	562	1,535	1,697	1,772	1,799	1,841	2,127	2,573	3,513.4
Ocean cable systems	Number	17	21	24	26	26	26	26	26	26	23
Communications satellites	Number	4	5	5	6	6	6	11	11	14	15
Domestic and overseas telegraph:											
Carriers	Number	7	7	8	7	7	7	7	7	6	6
Revenue messages transmitted	Million	102	68	75	53	48	42	29	25	(NA)	(NA)
Message revenues	Mill. dol.	358	414	676	711	732	708	678	594	483	521
Total operating revenues	Mill. dol.	596	821	1,232	1,338	1,382	1,367	1,206	1,076	882	1,019
Operating revenue deductions	Mill. dol.	524	680	1,008	1,214	1,323	1,292	1,243	1,125	942	995
Operating income	Mill. dol.	72	102	147	115	48	102	-37	-48	-56	24
Teletypewriter messages	Million	46	54	68	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Return on investment:											
Telephone	Percent	7.1	7.6	8.7	8.7	9.2	9.4	9.4	9.6	10.0	9.8
Overseas telegraph	Percent	10.6	12.0	15.9	6.8	3.3	6.7	-1.5	2.5	-5.5	3.9

NA Not available. <sup>1</sup> Includes Puerto Rico and Virgin Islands. Excludes intercompany duplications. Gross operating revenues of carriers reporting estimated at 90 percent of all carriers. Beginning 1988, based on new accounting rules, prior years not necessarily comparable. <sup>2</sup> Beginning 1985, number of carriers changed due to change in dollar requirement of reporting carriers from \$1,000,000 to \$100,000,000. <sup>3</sup> Includes company, service, and private. <sup>4</sup> Includes amortization reserves. <sup>5</sup> Excludes taxes. <sup>6</sup> After tax deductions. <sup>7</sup> Excludes contingency and retired satellites. <sup>8</sup> Excludes South American and most Caribbean operations of All America Cables and Radio, Inc. <sup>9</sup> Includes telex service; for domestic telegraph, excludes TWX. <sup>10</sup> After Federal income taxes. <sup>11</sup> Ratio of net operating income (after taxes) to average net book cost of communications plant.

Source: U.S. Federal Communications Commission, *Statistics of Communications Common Carriers*, annual, and unpublished data.

## No. 923. Telephone Companies—Summary: 1980 to 1988

[As of Dec. 31 or calendar year, as applicable. January 1, 1988 marked the beginning of significant rules changes in the local exchange carriers account for assets, liabilities, revenue, expenses, and income. Any comparisons with earlier data would not be meaningful. See also *Historical Statistics, Colonial Times to 1970*, series R 31-45]

ITEM	Unit	INDEPENDENT COMPANIES <sup>1</sup>				ALL TELEPHONE COMPANIES				
		1980	1985	1986	1987	1984	1985	1986	1987	1988
All companies	Number	1,483	1,402	1,380	1,360	1,440	1,426	1,404	1,384	1,371
Access lines	Millions	20.8	24.3	25.2	26.0	114.5	116.3	122.2	126.7	130.0
Total telephone plant	Bil. dol.	35.3	49.1	50.7	52.9	193.8	207.3	218.7	230.8	242.3
Operating revenues	Bil. dol.	10.5	17.2	18.5	19.9	73.9	78.4	82.4	84.9	89.9
Avg. daily conversations <sup>2</sup>	Millions	192	223	243	301	1,199	1,264	1,327	1,662	1,700
Local calls	Millions	177	203	210	251	1,111	1,182	1,206	1,500	(NA)
Toll calls	Millions	15	20	33	50	88	102	121	162	(NA)
Reporting companies <sup>3</sup>	Number	765	653	630	604	655	677	654	628	607
Access lines	Millions	19.4	23.4	24.2	24.7	113.6	117.4	121.2	124.9	129.7
Telephone plant in service <sup>4</sup>	Bil. dol.	32.5	45.5	47.7	48.3	186.2	200.0	212.4	222.3	238.3
Depreciation reserves <sup>5</sup>	Bil. dol.	7.8	14.3	15.5	15.9	45.7	52.9	61.1	69.6	80.0
Operating revenues	Bil. dol.	10.2	16.7	17.6	17.3	73.3	77.9	81.5	82.2	85.9
Operating expenses <sup>6</sup>	Bil. dol.	7.3	13.3	12.5	12.5	59.8	63.7	59.3	61.4	61.2
Net income	Bil. dol.	1.3	2.4	2.6	2.7	9.3	10.1	11.0	11.2	11.8
Stockholders' equity	Bil. dol.	9.6	13.9	14.0	15.1	63.1	66.5	66.6	69.4	75.8
Net income to stockholders	Percent	13.2	17.5	18.7	18.0	14.7	15.1	16.5	16.1	15.6
Employees	1,000	189	170	165	152	724	695	672	653	639
Wages and salaries	Bil. dol.	3.4	4.6	4.7	4.6	22.1	21.4	22.1	22.1	(NA)

NA Not available. <sup>1</sup> Companies independent of the Bell System, prior to divestiture of January 1984. <sup>2</sup> Average business day conversations beginning 1988. <sup>3</sup> Comprises only companies submitting operating information to source cited below.

<sup>4</sup> Total property plant and equipment beginning 1988. <sup>5</sup> Total accumulated depreciation and amortization beginning 1988.

<sup>6</sup> Excludes Federal income tax.

Source: United States Telephone Association, Washington, DC, *Statistics of the Telephone Industry*, annual. (Copyright.)

## No. 924. REA and Rural Telephone Bank Program—Summary: 1970 to 1989

ITEM	Unit	1970	1980	1983	1984	1985	1986	1987	1988	1989
Loans and guarantees approved, Dec. 31: <sup>1</sup>										
Borrowers	Number	862	990	1,037	1,035	1,034	1,037	1,037	1,018	1,016
REA amount	Mill. dol.	1,816	3,845	4,540	4,742	4,937	5,119	5,342	5,517	5,717
Guaranteed amount	Mill. dol.	-	418	672	701	679	679	673	644	631
Rural Telephone Bank amount	Mill. dol.	-	1,388	1,872	2,000	2,131	2,249	2,403	2,397	2,556
Route miles of line, <sup>2</sup> Dec. 31	1,000	547	798	847	868	872	869	877	896	911
Subscribers, Dec. 31	1,000	2,335	4,262	4,629	4,747	4,792	4,833	5,005	5,097	5,276
Telephones in service	1,000	2,989	6,770	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Total operating revenues	Mill. dol.	363	1,758	2,643	2,910	3,108	3,181	3,339	3,598	3,888
Total telephone plant	Mill. dol.	2,085	7,388	9,532	10,195	10,671	10,917	11,621	12,071	12,814
Employees	1,000	15	28	29	29	28	28	28	28	28

- Represents zero. NA Not available. <sup>1</sup> Cumulative net loans (cancellations deducted). <sup>2</sup> Line in service.

Source: U.S. Rural Electrification Administration, *Statistical Report-Rural Telephone Borrowers*, annual.

## No. 925. Private Radio Stations Authorized, by Class: 1985 to 1989

[In thousands. As of Sept. 30. Includes Puerto Rico and Virgin Islands. See also *Historical Statistics, Colonial Times to 1970*, series R 140-148]

CLASS	1985	1987	1988	1989	CLASS	1985	1987	1988	1989
Private radio services <sup>1</sup>	2,419.5	2,657.1	2,748.0	2,828	Land transportation	37.7	40.0	40.1	40.4
Personal	(X)	470.4	475.3	501.7	Railroad	13.8	15.1	15.4	16.0
Citizens Band	(X)	-	-	-	Taxicab	6.1	6.0	5.9	5.9
General mobile	33.6	37.8	36.2	34.4	Interurban property	4.4	5.3	5.4	5.6
Radio control	(X)	-	-	-	Other	13.4	13.6	13.4	12.9
Amateur and disaster	415.4	432.6	439.1	487.3	Marine	525.3	573.7	605.4	620.4
Aviation	245.7	247.7	248.5	251.2	Ship	510.4	558.6	589.4	604.6
Aircraft	207.3	208.2	207.9	210.2	Alaskan	2.7	2.6	2.7	2.5
Aeronautical and fixed	10.9	11.2	11.7	11.7	Coastal and other	12.2	12.5	13.3	13.3
Civil air patrol	23.0	23.6	23.9	24.2	Public safety	194.5	212.6	221.4	228.5
Other	4.5	4.7	5.0	5.1	Police	42.3	46.1	47.8	49.1
Industrial	811.3	871.1	875.6	873.9	Fire	36.6	39.9	41.3	42.8
Power	34.4	40.5	42.8	44.3	Forestry conservation	9.6	10.3	10.7	11.1
Business	593.5	640.5	641.7	638.0	Highway maintenance	12.7	13.8	14.3	14.6
Petroleum	25.2	26.6	26.8	27.0	Special emergency	37.4	39.6	40.5	40.9
Forest products	9.8	10.9	11.3	11.6	Other	55.9	62.9	66.8	70.0
Special industrial	115.0	117.5	117.0	115.4	Operational fixed services <sup>2</sup>	23.1	27.9	29.2	29.9
Other	33.4	35.1	36.0	37.6					

- Represents zero. X Not applicable. <sup>1</sup> Includes items not shown separately. Each license, construction permit, or combination construction permit and license is counted one station; therefore, a station might include a transmitter and many mobile units. <sup>2</sup> Includes microwave operations.

Source: U.S. Federal Communications Commission, *Annual Report*, and unpublished data.

**No. 926. Public Television Stations: 1976 to 1988**

[Calendar year data for 1976; fiscal year data thereafter. General programing is directed at the general community. Instructional programing is directed at students in the classroom or otherwise in the general context of formal education]

ITEM	1976	1978	1980	1982	1984	1986	1988
Stations broadcasting . . . . .	253	272	281	291	303	305	(NA)
Number of broadcasters . . . . .	152	156	160	164	169	178	169
Average annual hours per broadcaster . . . . .	4,542	4,894	5,128	5,421	5,542	5,650	6,135
<b>BROADCAST HOURS, PERCENT DISTRIBUTION</b>							
Program content <sup>2</sup> . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0
General <sup>2</sup> . . . . .	66.5	70.7	71.3	72.0	73.2	74.5	72.9
News and public affairs . . . . .	11.9	11.0	12.2	12.4	14.1	16.4	16.3
Information and skills . . . . .	19.9	23.6	22.8	24.5	25.5	29.5	21.7
Cultural . . . . .	20.9	22.1	21.9	22.8	20.1	20.5	17.9
General children's and youth's . . . . .	10.0	8.7	8.9	7.5	7.9	6.5	5.8
Instructional . . . . .	16.6	14.9	14.7	14.3	13.0	14.5	15.5
The Electric Co., Villa Alegre <sup>4</sup> . . . . .	1.8	1.6	1.5	1.1	1.0	0.4	(NA)
Other <sup>5</sup> . . . . .	14.8	13.3	13.2	13.2	12.0	14.1	(NA)
Sesame Street and The Electric Co. <sup>2</sup> . . . . .	17.8	16.1	15.5	14.8	11.4	11.4	11.7
Producer <sup>2</sup> . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Local . . . . .	10.1	7.7	7.0	6.7	5.7	5.2	5.2
Major public television production center, and other Consortium . . . . .	48.2	52.2	46.2	45.6	44.4	37.6	27.1
Children's television workshop . . . . .	1.7	1.8	2.7	2.6	3.3	3.1	9.8
Independent and commercial producers . . . . .	18.8	16.8	17.1	15.8	16.4	29.1	16.1
Foreign producer, international coproduction . . . . .	8.9	8.0	11.1	15.2	12.0	(NA)	23.8
Distributor <sup>2</sup> . . . . .	7.6	9.1	12.5	10.1	13.2	15.1	14.0
Local distribution only . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Public broadcasting service . . . . .	10.0	7.4	6.8	6.2	5.6	4.9	6.4
Regional public television network . . . . .	69.3	71.6	69.8	67.1	65.3	63.9	62.0
	6.2	5.4	7.6	10.8	13.0	14.0	17.8

NA Not available. <sup>1</sup> In 1988, only broadcasters in the 50 U.S. states were surveyed. <sup>2</sup> Includes other items not shown separately. <sup>3</sup> In 1986 and 1988, this category includes "Business or Consumer". <sup>4</sup> After 1976 these programs were double counted if aired during school hours when school is in session. <sup>5</sup> Excluding "Sesame Street" and "The Electric Company" but including "Mister Rogers". Includes adult educational.

Source: Corporation for Public Broadcasting, Washington, DC, *PTV Programming Survey*.

**No. 927. Public Broadcasting Systems—Income, by Source: 1980 to 1989**

[In millions of dollars, except as indicated. Stations as of Dec. 31; fiscal year data for income. Includes nonbroadcast income]

NUMBER OF STATIONS AND INCOME SOURCE	1980	1985	1986	1987	1988	1989, prel.	PERCENT DISTRIBUTION			
							1980	1985	1986	1989, prel.
CPB-qualified public radio stations . . . . .	217	288	295	299	308	313	(X)	(X)	(X)	(X)
Public television stations . . . . .	290	317	322	323	324	340	(X)	(X)	(X)	(X)
Total income . . . . .	705	1,096	1,134	1,295	1,368	1,528	100.0	100.0	100.0	100.0
Federal government . . . . .	193	179	186	243	248	264	27.3	16.3	18.0	17.3
State and local government <sup>1</sup> . . . . .	272	358	379	389	416	451	38.5	32.7	30.4	29.5
Subscribers and auction/marathon . . . . .	102	248	269	298	321	347	14.5	22.6	23.4	22.7
Business and industry . . . . .	72	171	171	196	213	241	10.3	15.6	15.6	15.8
Foundation . . . . .	24	43	38	48	51	69	3.3	3.9	3.7	4.5
Other . . . . .	43	97	92	121	120	156	6.0	8.9	8.8	10.2

X Not applicable. <sup>1</sup> Includes income received from State colleges and universities.

Source: Corporation for Public Broadcasting (CPB), Washington, DC, *Public Broadcasting Income, Fiscal Year, 1989*, and unpublished data.

**No. 928. Cable Television—Systems and Subscribers: 1970 to 1990**

[Subscribers in thousands, except percent. Estimated]

YEAR (As of Jan. 1)	Sys- tems	Sub- scribers	YEAR (As of Jan. 1)	Sys- tems	Sub- scribers	SUBSCRIBER SIZE-GROUP	NUMBER OF <sup>1</sup> —		PERCENT OF <sup>1</sup> —	
							Sys- tems	Sub- scribers	Sys- tems	Sub- scribers
1970 . . . . .	2,490	4,500	1981 . . . . .	4,375	18,300	1990, total <sup>2</sup> . . . . .	9,612	48,613	100.00	100.00
1972 . . . . .	2,841	6,000	1982 . . . . .	4,825	21,000	50,000 and over . . . . .	194	18,162	2.02	37.36
1973 . . . . .	2,991	7,300	1983 . . . . .	5,600	25,000	20,000-49,999 . . . . .	396	12,363	4.12	25.43
1974 . . . . .	3,158	8,700	1984 . . . . .	6,200	30,000	10,000-19,999 . . . . .	493	6,917	5.13	14.23
1975 . . . . .	3,506	9,800	1985 . . . . .	6,600	32,000	5,000-9,999 . . . . .	646	4,520	6.72	9.30
1976 . . . . .	3,681	10,800	1986 . . . . .	7,600	37,500	3,500-4,999 . . . . .	399	1,666	4.15	3.43
1977 . . . . .	3,832	11,900	1987 . . . . .	7,900	41,100	1,000-3,499 . . . . .	1,678	3,219	17.46	6.62
1978 . . . . .	3,875	13,000	1988 . . . . .	8,500	44,000	500-999 . . . . .	1,329	953	13.83	1.96
1979 . . . . .	4,150	14,100	1989 . . . . .	9,050	47,500	250-499 . . . . .	1,331	480	13.85	0.99
1980 . . . . .	4,225	16,000	1990 . . . . .	9,575	50,000	Less than 250 . . . . .	2,422	333	15.19	0.68

<sup>1</sup> As of April 1, 1990. <sup>2</sup> Excludes 513 systems not available by subscriber size-group.

Source: Warren Publishing, Inc., Washington, DC, *Television & Cable Factbook*, annual. (Copyright.)

**No. 929. Cable and Pay TV—Summary, 1955 to 1989, and Projection to 1990**

[Cable TV for calendar year. Pay TV, as of Dec. 31 of year shown]

YEAR	CABLE TV				PAY TV					
	Avg. basic sub-scribers (1,000)	Avg. monthly basic rate (dol.)	Revenue <sup>1</sup> (mil. dol.)		Units <sup>2</sup> (1,000)		Monthly rate (dol.)		Pay cable units	
			Total	Basic	Total pay <sup>3</sup>	Pay cable	Total pay <sup>3</sup>	Pay cable	Percent of homes passed	Percent basic
1955	250	5.00	20	20	(X)	(X)	(X)	(X)	(X)	(X)
1960	750	5.00	50	50	(X)	(X)	(X)	(X)	(X)	(X)
1965	1,500	5.00	95	95	(X)	(X)	(X)	(X)	(X)	(X)
1970	5,100	5.50	345	345	(X)	(X)	(X)	(X)	(X)	(X)
1975	9,800	6.50	804	774	469	469	(X)	(X)	(X)	(X)
1976	11,000	6.72	976	897	1,021	978	(NA)	7.85	11.1	23.6
1977	12,200	7.00	1,221	1,035	1,733	1,642	8.12	7.82	10.6	22.3
1978	13,400	7.26	1,496	1,177	3,580	3,289	8.62	8.09	17.9	25.0
1979	15,000	7.53	1,906	1,367	6,409	5,732	9.37	8.44	27.3	41.3
1980	17,500	7.85	2,603	1,668	10,389	9,144	9.78	8.80	27.9	50.6
1981	21,500	8.14	3,717	2,140	17,521	15,450	10.13	9.02	37.6	68.8
1982	25,400	8.46	5,097	2,628	23,179	20,791	10.36	9.57	46.2	84.0
1983	29,450	8.76	6,512	3,151	28,115	26,418	10.25	9.84	47.3	84.3
1984	32,850	9.20	7,892	3,696	31,027	29,966	10.32	10.08	49.5	87.5
1985	35,430	10.24	9,305	4,522	31,055	30,596	10.53	10.42	47.1	83.3
1986	38,740	11.09	10,520	5,341	32,428	32,064	10.40	10.31	46.2	80.8
1987	41,200	13.27	12,374	6,778	35,110	34,793	10.21	10.15	47.5	81.6
1988	44,200	14.45	13,979	7,883	39,144	38,819	10.22	10.18	50.3	85.0
1989	47,390	15.97	15,933	9,322	41,234	41,095	10.26	10.21	49.6	83.3
1990, proj.	50,455	16.23	17,784	10,074	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. X Not applicable. <sup>1</sup> Includes installation revenue. <sup>2</sup> Individual program services sold to subscribers.<sup>3</sup> Includes multipoint distribution service (MDS) and satellite TV (STV).Source: Paul Kagan Associates, Inc., Carmel, CA, *The Cable TV Financial Databook*, annual. (Copyright.)**No. 930. Radio and Television Stations Owned by Newspapers and/or Magazines: 1961 to 1989**

DATE	AM radio	FM radio	TV	DATE	AM radio	FM radio	TV	DATE	AM radio	FM radio	TV
1961, Sept. 1	412	147	161	1974, Dec. 1	321	236	193	1982, Dec. 1	300	263	251
1965, Oct. 31	391	170	174	1975, Dec. 1	320	238	197	1983, Dec. 1	288	257	248
1968, Dec. 4	381	191	183	1976, Dec. 1	322	238	209	1984, Dec. 1	268	256	255
1969, Dec. 1	394	245	189	1977, Dec. 1	314	238	211	1985, Dec. 1	264	255	253
1971, Feb. 1	402	248	191	1978, Dec. 1	319	252	221	1986, Dec. 1	232	226	271
1971, Dec. 1	318	209	176	1979, Dec. 1	318	257	226	1987, Dec. 1	195	188	260
1972, Dec. 1	325	171	178	1980, Dec. 1	315	264	230	1988, Dec. 1	193	193	266
1973, Dec. 1	304	211	179	1981, Dec. 1	311	277	246	1989, Dec. 1	195	195	252

Source: Broadcasting Publications Inc., Washington, DC, *The Broadcasting Yearbook*. (Copyright.)**No. 931. Publishing Industry—Summary: 1977 to 1987**

[In millions of dollars, except as noted. Number in parentheses represents Standard Industrial Classification code; see text, section 13. Based on the censuses of manufactures and the Annual Survey of Manufactures; for details, see source and Appendix III]

ITEM	NEWSPAPERS (271)				PERIODICALS (272)				BOOKS (273)			
	1977	1982	1986	1987	1977	1982	1986	1987	1977	1982	1986	1987
Establishments	8,867	8,846	(NA)	9,091	2,994	3,328	(NA)	4,020	1,745	2,130	(NA)	2,298
With 20 or more employees	2,147	2,554	(NA)	2,617	525	690	(NA)	876	346	419	(NA)	424
Employees <sup>1</sup> (1,000)	350	402	420	435	70	94	98	110	60	67	72	70
Payroll	4,306	6,555	8,381	9,025	1,020	1,986	2,711	2,983	830	1,327	1,776	1,860
Value of receipts	13,056	21,276	29,206	31,849	6,057	11,478	15,719	17,329	4,794	7,740	10,732	12,620
Cost of materials	3,539	6,006	7,024	7,533	2,289	4,568	5,558	5,873	1,544	2,420	3,100	3,663
Value added <sup>2</sup>	9,519	15,275	22,169	24,311	3,763	6,911	10,196	11,452	3,262	5,292	7,756	9,111
New capital expend.	478	1,029	1,296	1,523	79	195	274	246	80	174	203	240
Fixed assets, gross assets	5,026	8,701	(NA)	14,028	725	1,370	(NA)	2,528	680	1,109	(NA)	1,680
Inventories, Dec. 31	382	755	784	857	350	724	784	902	992	1,380	1,982	2,091

NA Not available. <sup>1</sup> Represents the average number of production workers plus the number of other employees in mid-March. <sup>2</sup> By manufacture, derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments. This result is then adjusted by the addition of value added by merchandising operations, plus the net change in finished goods and work-in-process inventories between the beginning and the end of the year.Source: U.S. Bureau of the Census, *Census of Manufactures, 1987*, Industry Reports, series MC87-I-27A, and *1986 Annual Survey of Manufactures*, M86(AS)-1.

**No. 932. Newspapers and Periodicals—Number, by Type: 1970 to 1991**

[Data refer to year of compilation of the Directory cited as the source, i.e., generally to year preceding year shown. See also *Historical Statistics, Colonial Times to 1970*, series R 232-243]

TYPE	1970	1975	1980	1984	1985	1986	1987	1988	1989	1990	1991
Newspapers <sup>1</sup>	11,383	11,400	9,620	9,151	9,134	9,144	9,031	10,088	10,457	11,471	11,689
Semiweekly	423	506	597	525	517	495	510	555	567	579	574
Weekly	8,903	8,824	7,159	6,798	6,811	6,857	6,750	7,438	7,622	8,420	8,546
Daily	1,838	1,819	1,744	1,711	1,701	1,651	1,646	1,745	1,773	1,788	1,781
Periodicals <sup>1</sup>	9,573	9,657	10,236	10,809	11,090	11,328	11,593	11,229	11,556	11,092	11,239
Weekly	1,858	1,918	1,716	1,376	1,367	1,383	1,400	880	828	553	511
Semi-monthly <sup>2</sup>	589	537	645	658	801	789	858	619	622	435	412
Monthly	4,314	4,087	3,985	4,096	4,088	4,066	4,031	4,192	4,445	4,239	4,340
Bimonthly	957	1,009	1,114	1,348	1,361	1,367	1,402	1,558	1,880	2,087	2,116
Quarterly	1,108	1,093	1,444	1,711	1,759	1,895	1,984	2,245	2,513	2,758	2,861

<sup>1</sup> Includes other not shown separately. <sup>2</sup> Includes fortnightly (every 2 weeks).

Source: Gale Research Inc., 1991 *Gale Directory of Publications and Broadcast Media*, 123rd. edition (Copyright.)

**No. 933. Number and Circulation of Daily and Sunday Newspapers: 1970 to 1989**

[Number of newspapers as of Feb. 1 of the following year. Circulation figures as of Sept. 30. For English language newspapers only. See also *Historical Statistics, Colonial Times to 1970*, series R 224-231]

TYPE	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
NUMBER OF NEWSPAPERS													
Daily: Total <sup>1</sup>	1,748	1,756	1,763	1,745	1,730	1,711	1,701	1,688	1,676	1,657	1,645	1,642	1,626
Morning	334	339	382	387	408	434	446	458	482	499	511	529	530
Evening	1,429	1,436	1,405	1,388	1,352	1,310	1,284	1,257	1,220	1,188	1,166	1,141	1,125
Sunday	586	639	720	736	755	768	772	783	798	802	820	840	847
CIRCULATION (mil.)													
Daily: Total <sup>1</sup>	62.1	60.7	62.2	62.2	61.4	62.5	62.6	63.1	62.8	62.5	62.8	62.7	62.6
Morning	25.9	25.5	28.6	29.4	30.6	33.2	33.8	35.4	36.4	37.4	39.1	40.4	40.7
Evening	36.2	35.2	33.6	32.8	30.9	29.3	28.8	27.7	26.4	25.1	23.7	22.2	21.8
Sunday	49.2	51.1	54.4	54.7	55.2	56.3	56.7	57.5	58.8	58.9	60.1	61.5	62.0

<sup>1</sup> All-day newspapers are counted in both morning and evening columns but only once in total. Circulation is divided equally between morning and evening.

Source: Editor & Publisher Co., New York, NY, *Editor & Publisher International Year Book*, annual. (Copyright.)

**No. 934. Number and Circulation of Daily Newspapers, by Population—Size Class of City: 1975 to 1989**

[Number of newspapers as of Feb. 1 of the following year. Circulation as of Sept. 30. For English language newspapers only. See table 39 for number of cities by population size]

TYPE OF DAILY AND POPULATION-SIZE CLASS	NUMBER <sup>1</sup>						NET PAID CIRCULATION <sup>1</sup> (1,000)					
	1975	1980	1985	1987	1988	1989	1975	1980	1985	1987	1988	1989
Morning dailies, total	339	387	482	511	529	530	25,491	29,413	36,361	39,123	40,452	40,759
In cities of—												
1,000,001 or more	14	20	22	28	25	28	7,159	8,795	9,367	12,169	10,910	11,727
500,001 to 1,000,000	25	27	24	25	25	23	5,581	5,705	6,887	5,915	5,948	5,053
100,001 to 500,000	89	99	121	123	124	130	7,836	8,996	12,197	12,542	14,517	14,890
50,001 to 100,000	69	75	87	92	96	94	2,619	2,973	3,653	3,946	3,968	4,071
25,001 to 50,000	67	64	83	89	96	97	1,422	1,701	2,145	2,411	2,879	2,927
Less than 25,000	75	102	145	157	163	158	874	1,243	2,099	2,141	2,207	2,087
Evening dailies, total	1,436	1,388	1,220	1,166	1,141	1,125	35,166	32,788	26,407	23,702	22,242	21,890
In cities of—												
1,000,001 or more	12	11	8	9	8	8	4,156	2,984	2,169	1,662	1,315	1,349
500,001 to 1,000,000	24	23	14	14	13	14	4,578	4,101	1,626	1,636	1,563	1,569
100,001 to 500,000	127	123	102	87	80	77	8,818	8,178	6,987	5,570	5,165	5,035
50,001 to 100,000	175	156	127	112	109	105	5,379	4,896	3,942	3,499	3,398	3,336
25,001 to 50,000	248	246	229	221	214	209	4,898	5,106	4,806	4,438	4,124	4,065
Less than 25,000	850	829	740	722	717	712	7,242	7,523	7,075	6,890	6,677	6,533

<sup>1</sup> All-day newspapers are counted in both morning and evening columns; circulation is divided equally between morning and evening.

Source: Editor & Publisher Co., New York, NY, *Editor & Publisher International Year Book*, annual. (Copyright.)

**No. 935. Daily and Sunday Newspapers—Number and Circulation, by State: 1989**

[Number of newspapers as of Feb. 1 of the following year. Circulation figures as of Sept. 30. For English language newspapers only. New York, Massachusetts, and Virginia Sunday newspapers include national circulation]

STATE	DAILY			SUNDAY		STATE	DAILY			SUNDAY	
	Number	Circulation <sup>1</sup>		Number	Net paid circulation (1,000)		Number	Circulation <sup>1</sup>		Number	Net paid circulation (1,000)
		Net paid (1,000)	Per capita <sup>2</sup>					Net paid (1,000)	Per capita <sup>2</sup>		
Total	1,626	62,649	0.26	847	62,008	Missouri	45	1,252	0.25	19	1,329
Alabama	27	761	0.18	20	754	Montana	11	188	0.23	7	190
Alaska	7	125	0.24	4	144	Nebraska	19	469	0.29	7	437
Arizona	19	725	0.21	11	794	Nevada	8	280	0.26	4	310
Arkansas	32	571	0.23	17	665	New Hampshire	10	227	0.20	4	152
California	119	6,845	0.23	67	6,768	New Jersey	22	1,660	0.22	17	1,893
Colorado	27	970	0.29	11	1,146	New Mexico	19	313	0.21	13	283
Connecticut	23	867	0.27	11	829	New York	71	7,500	0.43	37	5,736
Delaware	2	144	0.22	2	169	North Carolina	54	1,447	0.22	31	1,403
District of Columbia	2	881	1.40	1	1,126	North Dakota	10	186	0.28	7	183
Florida	45	3,103	0.25	35	2,802	Ohio	87	2,749	0.25	33	2,868
Georgia	36	1,155	0.18	18	1,270	Oklahoma	49	741	0.23	41	881
Hawaii	6	245	0.22	5	262	Oregon	20	655	0.24	10	674
Idaho	12	207	0.20	8	222	Pennsylvania	93	3,300	0.26	30	3,182
Illinois	70	2,604	0.23	27	2,781	Rhode Island	7	295	0.30	3	308
Indiana	73	1,542	0.28	21	1,355	South Carolina	17	658	0.19	13	706
Iowa	37	733	0.26	10	733	South Dakota	12	167	0.24	4	135
Kansas	46	536	0.22	17	492	Tennessee	28	965	0.20	16	1,073
Kentucky	23	660	0.18	12	668	Texas	104	3,616	0.21	95	4,579
Louisiana	28	777	0.18	21	885	Utah	6	285	0.17	6	326
Maine	8	286	0.24	2	186	Vermont	8	129	0.23	3	100
Maryland	14	712	0.15	7	666	Virginia	34	2,504	0.42	15	966
Massachusetts	42	2,069	0.36	13	1,759	Washington	26	1,166	0.25	15	1,168
Michigan	52	2,541	0.27	21	2,562	West Virginia	23	440	0.23	10	394
Minnesota	25	948	0.22	13	1,136	Wisconsin	36	1,154	0.24	15	1,108
Mississippi	22	400	0.15	14	377	Wyoming	10	95	0.20	4	73

<sup>1</sup> Circulation figures based on the principal community served by a newspaper which is not necessarily the same location as the publisher's office. <sup>2</sup> Per capita based on total resident population estimated as of July 1, 1989.

Source: Editor & Publisher Co., New York, NY, *Editor & Publisher International Year Book*, annual (copyright).

**No. 936. Copyright Registration, by Subject Matter: 1985 to 1989**

[In thousands. For years ending Sept. 30. Comprises claims to copyright registered for both U.S. and foreign works. See also *Historical Statistics, Colonial Times to 1970*, series W 82-95]

SUBJECT MATTER OF COPYRIGHT	1985	1986	1989	SUBJECT MATTER OF COPYRIGHT	1985	1986	1989
Total	539.8	565.3	618.3	Sound recordings	22.7	28.6	28.3
Monographs <sup>1</sup>	154.5	158.1	153.8	Renewals	43.8	43.8	38.6
Semiconductor chip products	0.9	0.9	1.2	Musical works <sup>2</sup>	47.9	159.5	197.2
Serials	120.0	114.0	133.9	Works of the visual arts <sup>3</sup>	50.0	60.4	66.2

<sup>1</sup> Includes computer software and machine readable works. <sup>2</sup> Includes dramatic works, accompanying music, choreography, pantomimes, motion pictures and filmstrips. <sup>3</sup> Two-dimensional works of fine and graphic art, including prints and art reproductions; sculptural works; technical drawings and models; photographs; commercial prints and labels; works of applied arts, cartographic works and multimedia works.

Source: The Library of Congress, *Annual Report*.

**No. 937. Advertising—Estimated Expenditures: 1950 to 1989**

[In millions of dollars. National advertising is defined as advertising done for companies whose products are distributed nationally and for which national media rates are paid. Local advertising is defined as advertising done for companies which market products locally and which may pay special "local" media rates. See also *Historical Statistics, Colonial Times to 1970*, series T 444-446]

YEAR	Total	National	Local	YEAR	Total	National	Local	YEAR	Total	National	Local
1950	5,700	3,260	2,440	1974	26,620	14,700	11,920	1982	66,580	37,785	28,795
1955	9,150	5,380	3,770	1975	27,900	15,200	12,700	1983	75,850	42,525	33,325
1960	11,960	7,305	4,655	1976	33,300	18,355	14,945	1984	87,820	49,690	38,130
1965	15,250	9,340	5,910	1977	37,440	20,595	16,845	1985	94,750	53,355	41,395
1970	19,550	11,350	8,200	1978	43,330	23,720	19,610	1986	102,140	56,850	45,290
1971	20,700	11,755	8,945	1979	48,780	26,695	22,085	1987	109,650	60,625	49,025
1972	23,210	12,980	10,230	1980	53,550	29,815	23,735	1988	118,050	65,610	52,440
1973	24,980	13,700	11,280	1981	60,430	33,890	26,540	1989	123,930	68,990	54,940

Source: McCann-Erickson, Inc., New York, NY. Compiled for Crain Communications, Inc. In *Advertising Age* (copyright).

### No. 938. Advertising—Indexes of National Advertising Expenditures, by Medium: 1970 to 1989

[1982-84 = 100. Based on the average monthly expenditure for those major media which give national coverage. See also *Historical Statistics, Colonial Times to 1970*, series T 472-484]

MEDIUM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
General index . . . . .	26	34	71	79	87	98	114	118	124	128	136	141
Network television . . . . .	23	32	72	78	86	97	116	113	117	119	128	128
Spot television . . . . .	25	33	67	77	89	99	112	123	134	140	146	150
Magazines . . . . .	30	34	73	82	86	99	115	120	124	131	142	156
Newspapers . . . . .	32	40	71	82	89	99	112	122	123	127	130	135

Source: McCann-Erickson, Inc., New York, NY. Compiled for Crain Communications, Inc. In *Advertising Age* (copyright).

### No. 939. Advertising—Estimated Expenditures, by Medium: 1970 to 1989

[In millions of dollars, except percent. See text, section 18 for a discussion of types of advertising. See also *Historical Statistics, Colonial Times to 1970*, series R 106-109, R 123-126, and T 444-471]

MEDIUM	EXPENDITURES							PERCENT			
	1970	1980	1985	1986	1987	1988	1989	1970	1980	1985	1989
Total . . . . .	19,550	53,550	94,750	102,140	109,650	118,050	123,930	100.0	100.0	100.0	100.0
National . . . . .	11,350	29,815	53,355	56,850	60,625	65,610	68,990	58.1	55.7	56.3	55.7
Local . . . . .	8,200	23,735	41,395	45,290	49,025	52,440	54,940	41.9	44.3	43.7	44.3
Newspapers . . . . .	5,704	14,794	25,170	26,990	29,412	31,197	32,368	29.2	27.6	26.5	26.1
National . . . . .	891	1,963	3,352	3,376	3,494	3,586	3,720	4.6	3.7	3.5	3.0
Local . . . . .	4,813	12,831	21,818	23,614	25,918	27,611	28,648	24.6	24.0	23.0	23.1
Magazines . . . . .	1,292	3,149	5,155	5,317	5,607	6,072	6,716	6.6	5.9	5.4	5.5
Weeklies . . . . .	617	1,418	2,297	2,327	2,445	2,646	2,813	3.2	2.6	2.4	2.3
Women's . . . . .	301	782	1,294	1,376	1,417	1,504	1,710	1.5	1.5	1.4	1.4
Monthlies . . . . .	374	949	1,564	1,614	1,745	1,922	2,193	1.9	1.8	1.6	1.8
Farm publications . . . . .	62	130	186	192	196	196	212	0.3	0.2	0.2	0.2
Television . . . . .	3,596	11,469	21,022	22,881	23,904	25,686	26,891	18.4	21.4	22.2	21.7
Three networks . . . . .	1,658	5,130	8,060	8,342	8,500	9,172	9,110	8.5	9.6	8.5	7.4
Cable networks . . . . .	(NA)	45	594	676	760	942	1,197	(NA)	0.1	0.6	1.0
Syndication (nat'l) . . . . .	(NA)	50	520	600	762	901	1,288	(NA)	0.1	0.5	1.0
Spot (national) . . . . .	1,234	3,269	6,004	6,570	6,846	7,147	7,354	6.3	6.1	6.3	5.9
Spot (local) . . . . .	704	2,967	5,714	6,514	6,833	7,270	7,612	3.6	5.5	6.0	6.1
Cable (non-network) . . . . .	(NA)	8	130	179	203	254	330	(NA)	(Z)	0.1	0.3
Radio . . . . .	1,308	3,702	6,490	6,949	7,206	7,798	8,323	6.7	6.9	6.9	6.7
Network . . . . .	56	183	385	423	413	425	476	0.3	0.3	0.4	0.4
Spot . . . . .	371	779	1,335	1,348	1,330	1,418	1,547	1.9	1.5	1.4	1.2
Local . . . . .	881	2,740	4,790	5,178	5,463	5,955	6,300	4.5	5.1	5.1	5.1
Yellow Pages . . . . .	(NA)	2,900	5,800	6,500	7,300	7,781	8,330	(NA)	5.4	6.1	6.7
National . . . . .	(NA)	330	695	759	830	944	1,011	(NA)	0.6	0.7	0.8
Local . . . . .	(NA)	2,570	5,105	5,741	6,470	6,837	7,319	(NA)	4.8	5.4	5.9
Direct mail . . . . .	2,766	7,596	15,500	17,145	19,111	21,115	21,945	14.1	14.2	16.4	17.7
Business papers . . . . .	740	1,674	2,375	2,382	2,458	2,610	2,763	3.8	3.1	2.5	2.2
Outdoor . . . . .	234	578	945	985	1,025	1,064	1,111	1.2	1.1	1.0	0.9
Miscellaneous . . . . .	3,848	7,558	12,107	12,799	13,431	14,531	15,271	19.7	14.1	12.8	12.3

NA Not available. Z Less than .05 percent.

Source: McCann-Erickson, Inc., New York, NY. Compiled for Crain Communications, Inc. In *Advertising Age* (copyright). Percentages derived by U.S. Bureau of the Census.

### No. 940. Magazine Advertising—Expenditures, by Product Type: 1970 to 1989

[In millions of dollars, except percent. Space cost based on one-time rate; special rates used where applicable. Year-to-year data not strictly comparable, as a few minor publications are added or deleted]

TYPE OF PRODUCT	1970	1980	1984	1985	1986	1987	1988	1989	PERCENT DISTRIBUTION		
									1970	1980	1989
Expenditures . . . . .	1,193	2,846	4,668	4,961	5,120	5,390	5,943	6,644	100.0	100.0	100.0
Apparel, footwear, and accessories . . . . .	51	112	240	251	291	323	363	395	4.3	3.9	5.9
Automotive . . . . .	97	230	473	549	597	678	801	883	8.1	8.0	13.2
Beer, wine, and liquor . . . . .	98	239	230	240	225	208	213	257	8.2	8.4	3.9
Computers, office equipment, stationery . . . . .	32	79	321	250	219	247	252	288	2.7	2.8	4.3
Consumer services . . . . .	74	190	411	463	484	491	466	529	6.2	6.7	8.0
Drugs and remedies . . . . .	38	79	129	135	148	142	145	137	3.2	2.8	2.0
Food and food products . . . . .	86	199	289	342	389	377	377	435	7.2	7.0	6.5
Household equipment and supplies . . . . .	34	65	98	100	93	97	102	103	2.8	2.3	1.6
Household furnishings . . . . .	38	73	94	87	103	111	116	125	3.2	2.0	1.9
Jewelry, optical goods, camera . . . . .	30	79	107	101	113	121	142	154	2.5	2.8	2.3
Mail orders . . . . .	(NA)	(NA)	292	328	363	407	467	519	(NA)	(NA)	7.8
Publishing and media . . . . .	38	146	159	188	176	186	192	194	3.2	5.1	2.9
Retail . . . . .	53	(NA)	128	121	143	138	176	209	4.4	(NA)	3.1
Smoking materials . . . . .	65	290	423	383	322	334	352	402	5.4	10.2	6.0
Toiletries and toilet goods . . . . .	119	206	334	385	390	455	554	651	10.0	7.2	9.8
Travel, hotels, and resorts . . . . .	54	123	212	245	249	273	311	375	4.5	4.3	5.6
All other . . . . .	289	736	728	793	815	802	914	988	24.2	25.9	14.9

NA Not available. <sup>1</sup> Includes accessories and equipment. <sup>2</sup> Includes business services.

Source: Publishers Information Bureau, Inc., New York, NY, as compiled by Leading National Advertisers.

**No. 941. Television—Expenditures for Network Advertising: 1980 to 1989**

[In millions of dollars. See text, section 18 for a definition of network advertising]

TYPE OF PRODUCT	1980	1985	1988	1989	TYPE OF PRODUCT	1980	1985	1988	1989
Expenditures	5,147	8,313	9,580	9,559	Household equipment, supplies, and furnishings	225	275	339	323
Apparel, footwear, and accessories	131	161	230	269	Insurance	74	99	169	158
Automotive	529	848	1,307	1,491	Financial planning services	20	60	64	63
Beer and wine	242	428	480	364	Jewelry and cameras	119	129	129	111
Building material, equipment, fixtures	59	97	100	84	Laundry soaps, cleansers, and polishes	306	397	321	319
Computers, office equipment, and stationery	57	249	187	159	Movies	103	138	183	214
Confectionery, soft drinks	281	388	432	379	Pet products	144	175	126	134
Consumer services	178	303	473	437	Proprietary medicines	430	700	794	787
Dept. and discount stores	94	161	135	196	Publishing and media	34	50	43	61
Food and food products	844	1,502	1,639	1,685	Restaurants and drive-ins	132	416	514	604
Freight and industrial development	7	40	68	56	Tobacco products and supplies	8	6	1	-
Gas, lubricants, etc.	71	49	55	38	Toiletries and toilet goods	765	955	869	850
Home electronics equipment	50	36	68	56	Toys and sporting goods	93	152	117	126
Horticulture	15	30	40	38	Travel, hotels, and resorts	72	102	169	169
					All other	64	367	528	408

- Represents or rounds to zero. <sup>1</sup> Includes optical goods.

Source: Television Bureau of Advertising, Inc., New York, NY. Data compiled by The Arbitron Co., New York, NY.

**No. 942. Television—Estimated Time Charges for Spot Advertising: 1980 to 1989**

[In millions of dollars. Data represent activity in the top 75 markets monitored by The Arbitron Co., currently covering approximately 356 stations. See text, section 18 for a definition of types of advertising]

TYPE OF PRODUCT	1980	1985	1988 <sup>1</sup>	1989 <sup>1</sup>	TYPE OF PRODUCT	1980	1985	1988 <sup>1</sup>	1989 <sup>1</sup>
Estimated time charges	2,496	4,504	5,271	5,423	Home electronics equipment	73	67	113	116
Agriculture and farming	15	17	22	17	Horticulture	35	37	47	47
Apparel, footwear, and accessories	105	95	67	94	Household equipment, supplies and furnishings	133	217	167	175
Automotive	228	683	1,264	1,415	Insurance	34	88	94	104
Beer and wine	156	218	255	208	Jewelry, optical goods, and cameras	55	68	44	59
Building material, equipment, and fixtures	47	58	73	79	Laundry soaps, polishes	111	175	132	118
Computers, office equipment, and stationery	15	25	27	32	Pet products	33	60	43	41
Confectionery, soft drinks	212	355	325	303	Proprietary medicines	93	148	184	167
Consumer services	83	262	311	380	Publishing and media	78	147	154	130
Food and food products	507	927	967	958	Tobacco products, suppliers	8	14	8	5
Freight and industrial development	5	36	37	36	Toiletries and toilet goods	223	267	277	281
Gasoline, lubricants, etc.	50	102	124	164	Toys and sporting goods	104	211	202	193
					Travel, hotels, and resorts	76	187	229	215
					All other	17	40	105	86

<sup>1</sup> Excludes National Syndicated activity; therefore, not completely comparable to prior years.

Source: Television Bureau of Advertising, Inc., New York, NY. Data compiled by The Arbitron Co., New York, NY in the top 75 markets.

**No. 943. Television—Expenditures for Retail/Local Advertising: 1980 to 1989**

[In millions of dollars. See headnote, table 942]

TYPE OF PRODUCT	1980	1985	1988	1989	TYPE OF PRODUCT	1980	1985	1988	1989
Expenditures	1,983	3,899	4,848	5,076	Financial planning services	7	29	30	24
Amusements, entertainment	68	121	128	144	Jewelry stores	19	25	23	26
Appliance stores, repair	38	122	139	153	Legal services	5	38	64	82
Auto repair, service stations	28	73	93	89	Leisure time stores and services	42	107	129	134
Auto supply, accessory stores	12	41	38	40	Loan, mortgage companies	12	25	23	30
Auto, truck dealers	99	311	380	321	Mail order, catalog showrooms	13	23	11	11
Banks, S&L associations	141	195	191	197	Medical, dental services	13	87	130	145
Bldgs and home imprv't contr's	20	32	26	27	Movies	102	103	186	211
Carpet, floor covering stores	24	40	52	51	Newspapers	15	32	34	37
Clothing stores	46	82	121	144	Optical services, supplies	14	28	80	77
Department stores	131	186	150	213	Political	70	22	146	49
Discount department stores	74	115	115	117	Radio, cable TV	69	134	160	163
Drug stores	26	67	78	94	Realtors; real estate dev'l'rs	18	31	31	34
Education services	17	70	112	132	Rental services (non-auto)	15	38	36	31
Food stores, supermarkets	149	259	339	341	Restaurants, drive-ins	288	672	804	838
Furniture stores	111	187	238	278	Shoe stores	27	37	44	44
Gas, electric, water companies	16	38	46	50	Shopping centers, ass'ns	13	20	24	28
Health clubs, reducing salons	21	39	62	94	Sport, hobby, toy stores	23	41	47	47
Home centers and hardware stores	42	89	98	106	All other	137	278	362	374
Hotels, resorts, U.S.	18	62	78	82					

Source: Television Bureau of Advertising, Inc., New York, NY. Data compiled by The Arbitron Co., New York, NY in the top 75 markets.





## Section 19 Energy

This section presents statistics on fuel resources, energy production and consumption, electric energy, hydroelectric power, nuclear power, solar energy, wood energy and the electric and gas utility industries. The principal sources are the U.S. Department of Energy's Energy Information Administration (EIA), the Edison Electric Institute, Washington, DC, and the American Gas Association, Arlington, VA. The Department of Energy was created in October 1977 and assumed and centralized the responsibilities of all or part of several agencies including the Federal Power Commission (FPC), the U.S. Bureau of Mines, the Federal Energy Administration, and the U.S. Energy Research and Development Administration. For additional data on transportation, see section 21; on fuels, see section 25; and on energy-related housing characteristics, see section 26.

The EIA, in its *Annual Energy Review*, provides statistics and trend data on energy supply, demand, and prices. Information is included on petroleum and natural gas, coal, electricity, hydroelectric power, nuclear power, solar, wood, and geothermal energy. Among its annual reports are *Annual Energy Review*, *Electric Power Annual*, *Natural Gas Annual*, *Petroleum Supply Annual*, *State Energy Data Report*, *State Energy Price and Expenditure Report*, *Financial Statistics of Selected Electric Utilities*, *Residential Energy Consumption Survey*, *Performance Profiles of Major Energy Producers*, *Typical Electric Bills*, *Historical Plant Cost and Annual Production Expenses for Selected Electric Plants*, *Annual Energy Outlook*, and *International Energy Annual*. These various publications contain State, national, and international data on production of electricity, net summer capability of generating plants, fuels used in energy production, energy sales and consumption, hydroelectric power, construction costs and production expenses of power plants, and depreciation practices. The EIA also issues the *Monthly Energy Review*, which presents current supply, disposition, and price data, and monthly publications on petroleum, coal, natural gas, and electric power. Data on residential energy consumption, expenditures, and conservation activities are available from EIA's Residential Energy Consumption Survey and are published triennially in *Residential Energy Consumption Survey: Consumption and Expenditures*, and *Residential Energy Consumption Survey: Housing Characteristics*, and several other reports.

The Edison Electric Institute's monthly bulletin and annual *Statistical Year Book of the Electric Utility Industry for the Year* contain data on the distribution of electric energy by public utilities; information on the electric power supply, expansion of electric generating facilities, and the manufacture of heavy electric power equipment is presented in the annual Year End Summary of the Electric Power Situation in the United States. The American Gas Association, in its monthly and quarterly bulletins and its yearbook, *Gas Facts*, presents data on gas utilities, including sales, revenues, customers, prices, and other financial and operating statistics. A wide range of petroleum statistics are provided in the American Petroleum Institute publication *Basic Petroleum Data Book*.

**Btu conversion factors.**—Various energy sources are converted from original units (e.g., short tons, cubic feet, barrels, kilowatthours) to the thermal equivalent using British thermal units (Btu). A Btu is the amount of energy required to raise the temperature of 1 pound of water 1 degree Fahrenheit (F) at or near 39.2 degrees F. Factors are calculated annually from the latest final annual data available; some are revised as a result. The following list provides conversion factors used in 1990 for production and consumption, in that order, for various fuels: Petroleum, 5,800 and 5,449 mil. Btu per barrel; total coal, 21,827 and 21,344 mil. Btu per short ton; and natural gas (dry), 1,031 Btu per cubic foot for both. The factors for the production of nuclear power and geothermal power were 10,724 and 21,096 Btu per kilowatthour, respectively. The fossil fuel steam-electric power plant generation factor of 10,331 Btu per kilowatthour was used for hydroelectric power generation and for wood and waste, wind, photovoltaic, and solar thermal energy consumed at electric utilities.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

## No. 944. Total Horsepower of All Prime Movers: 1960 to 1989

[In millions, except percent. As of January, except as noted. Prior to 1960, excludes Alaska and Hawaii, except as noted. Prime movers are mechanical engines and turbines, and work animals, which originally convert fuels or force (as wind or falling water) into work and power. Electric motors, which obtain their power from prime movers, are excluded to avoid duplication. See also *Historical Statistics, Colonial Times to 1970*, series S 1-14]

YEAR	Total horse- power	AUTOMOTIVE <sup>1 2</sup>		NONAUTOMOTIVE							
		Total	Percent of total	Total	Facto- ries <sup>3 4</sup>	Mines <sup>3 4</sup>	Rail- roads <sup>5</sup>	Merchant ships and sailing vessels <sup>4</sup>	Farms	Electric central sta- tions <sup>2</sup>	Air- craft <sup>5 6</sup>
1960 . . . . .	11,008	10,367	94.2	641	42	35	47	24	240	217	37
1965 . . . . .	15,096	14,306	94.8	790	48	40	44	24	272	307	55
1970 . . . . .	20,408	19,325	94.7	1,083	54	45	54	22	290	435	183
1975 . . . . .	25,100	23,752	94.6	1,348	60	47	62	22	318	654	185
1976 . . . . .	25,732	24,339	94.6	1,393	61	47	64	22	324	692	184
1977 . . . . .	26,469	25,025	94.5	1,444	62	47	62	23	328	728	194
1978 . . . . .	27,379	25,892	94.6	1,487	63	48	64	25	<sup>6</sup> 335	754	198
1979 . . . . .	28,162	26,617	94.5	1,545	63	48	62	26	342	803	201
1980 . . . . .	28,922	27,362	94.6	1,564	64	48	63	28	345	806	210
1981 . . . . .	29,507	27,909	94.6	1,598	64	48	65	29	345	835	212
1982 . . . . .	30,495	28,852	94.6	1,643	64	48	64	29	352	854	232
1983 . . . . .	31,337	29,662	94.7	1,675	64	47	62	29	356	877	240
1984 . . . . .	31,819	30,117	94.7	1,702	65	47	61	30	359	886	254
1985 . . . . .	32,529	30,792	94.7	1,737	65	47	58	29	358	912	268
1986 . . . . .	32,680	30,893	94.6	1,767	65	47	58	29	358	942	270
1987 . . . . .	33,266	31,488	94.7	1,778	65	47	53	29	357	958	269
1988 . . . . .	34,200	32,415	94.8	1,785	65	47	53	28	356	969	267
1989 . . . . .	36,570	34,729	95.0	1,841	65	47	50	28	356	1,028	267

<sup>1</sup> Includes passenger cars, trucks, buses, and motorcycles. <sup>2</sup> As of July 1. <sup>3</sup> Beginning 1965, data are estimates. <sup>4</sup> This is an extensions of trends, since government agencies, suspended compilation of these power capacity statistics. <sup>5</sup> Beginning 1965, not strictly comparable with earlier years. <sup>6</sup> Includes private planes and commercial airlines. <sup>7</sup> Includes Alaska and Hawaii. <sup>8</sup> Includes estimates of about 3.0 million hp in farm animals and 30,000 in windmills.

Source: John A. Waring, Arlington, VA, unpublished estimates.

## No. 945. Energy Production and Consumption, by Major Source: 1960 to 1990

[Btu=British thermal unit. For Btu conversion factors, see text, section 19. See also *Historical Statistics, Colonial Times to 1970*, series M 76-92]

YEAR	Total production (quad. Btu)	PERCENT OF PRODUCTION				Total consumption (quad. Btu)	PERCENT OF CONSUMPTION				Consumption/production ratio
		Coal	Petroleum <sup>1</sup>	Natural gas <sup>2</sup>	Other <sup>3</sup>		Coal	Petroleum <sup>1</sup>	Natural gas <sup>2</sup>	Other <sup>3</sup>	
1960	41.5	26.1	36.0	34.0	3.9	43.8	22.5	45.5	28.3	3.8	1.06
1965	49.3	26.5	33.5	35.8	4.3	52.7	22.0	44.1	29.9	4.0	1.07
1970	62.1	23.5	32.9	38.9	4.7	66.4	18.5	44.4	32.8	4.3	1.07
1971	61.3	21.5	32.7	40.5	5.3	67.9	17.1	45.0	33.1	4.8	1.11
1972	62.4	22.6	32.1	39.7	5.6	71.3	16.9	46.2	31.9	5.0	1.14
1973	62.1	22.5	31.4	39.9	6.2	74.3	17.5	46.9	30.3	5.3	1.20
1974	60.8	23.1	30.5	38.9	7.4	72.5	17.5	46.1	30.0	6.5	1.19
1975	59.9	25.0	29.6	36.8	8.6	70.5	17.9	46.4	28.3	7.4	1.18
1976	59.9	26.1	28.8	36.4	8.6	74.4	18.3	47.3	27.4	7.1	1.24
1977	60.2	26.2	29.0	36.4	8.5	76.3	18.2	48.7	26.1	7.0	1.27
1978	61.1	24.4	30.2	35.6	9.9	78.1	17.6	48.6	25.6	8.1	1.28
1979	63.8	27.5	28.4	35.0	9.1	78.9	19.1	47.1	26.2	7.7	1.24
1980	64.8	28.7	28.2	34.2	8.9	76.0	20.3	45.0	26.9	7.8	1.17
1981	64.4	28.5	28.2	34.2	9.1	74.0	21.5	43.2	26.9	8.4	1.15
1982	63.9	29.2	28.7	32.0	10.2	70.8	21.6	42.7	26.1	9.6	1.11
1983	61.2	28.2	30.0	30.6	11.2	70.5	22.5	42.6	24.6	10.2	1.15
1984	65.8	29.9	28.6	30.7	10.7	74.1	23.0	41.9	25.0	10.1	1.13
1985	64.8	29.8	29.3	29.6	11.3	74.0	23.6	41.8	24.1	10.4	1.14
1986	64.2	30.4	28.6	29.0	12.0	74.2	23.3	43.4	22.5	10.9	1.16
1987	64.8	31.1	27.3	29.7	11.9	76.8	23.4	42.8	23.1	10.7	1.19
1988	66.0	31.4	26.2	29.9	12.4	80.2	23.5	42.7	23.1	10.7	1.22
1989	66.1	32.3	24.4	30.2	13.1	81.3	23.3	42.1	23.8	10.8	1.23
1990	<sup>4</sup> 67.6	33.5	22.9	29.9	13.8	<sup>5</sup> 81.5	23.4	41.3	23.8	11.5	1.21

<sup>1</sup> Production includes crude oil and lease condensate. Consumption includes domestically produced crude oil, natural gas liquids, and lease condensate, plus imported crude oil and products. <sup>2</sup> Production includes natural gas liquids; consumption excludes natural gas liquids. <sup>3</sup> Comprised of hydropower, nuclear power, geothermal energy and other. <sup>4</sup> Represents peak year for U.S. energy production. <sup>5</sup> Represents peak year for U.S. energy consumption.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

## No. 946. Energy Supply and Disposition, by Type of Fuel: 1970 to 1990

[In quadrillion British thermal units (Btu). For Btu conversion factors, see text, section 19]

TYPE OF FUEL	1970	1973	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990
<b>Production</b> <sup>1</sup>	<b>62.1</b>	<b>62.1</b>	<b>59.9</b>	<b>64.8</b>	<b>63.9</b>	<b>61.2</b>	<b>65.8</b>	<b>64.8</b>	<b>64.2</b>	<b>64.8</b>	<b>66.0</b>	<b>66.1</b>	<b>67.6</b>
Crude oil	20.4	19.5	17.7	18.2	18.3	18.4	18.9	19.0	18.4	17.7	17.3	16.1	15.5
Natural gas liquids	2.5	2.6	2.4	2.3	2.2	2.2	2.3	2.2	2.2	2.2	2.3	2.2	2.2
Natural gas	21.7	22.2	19.6	19.9	18.3	16.5	17.9	16.9	16.5	17.1	17.5	17.8	18.1
Coal	14.6	14.0	15.0	18.6	18.6	17.3	19.7	19.3	19.5	20.1	20.7	21.3	22.6
Nuclear electric power	0.2	0.9	1.9	2.7	3.1	3.2	3.6	4.2	4.5	4.9	5.7	5.7	6.2
Hydro electric power	2.6	2.9	3.2	2.9	3.3	3.5	3.3	2.9	3.0	2.6	2.3	2.8	2.9
Geothermal and other	(Z)	(Z)	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
<b>Net trade</b> <sup>4</sup>	<b>-5.7</b>	<b>-12.7</b>	<b>-11.8</b>	<b>-12.2</b>	<b>-7.5</b>	<b>-8.3</b>	<b>-9.0</b>	<b>-7.9</b>	<b>-10.4</b>	<b>-11.9</b>	<b>-13.2</b>	<b>-14.2</b>	<b>-13.8</b>
Exports	2.7	2.1	2.4	3.7	4.6	3.7	3.8	4.2	4.1	3.9	4.4	4.7	(NA)
Coal	1.9	1.4	1.8	2.4	2.8	2.0	2.2	2.4	2.3	2.1	2.5	2.7	(NA)
Imports	8.4	14.7	14.1	16.0	12.1	12.0	12.8	12.1	14.4	15.8	17.6	18.7	(NA)
Crude oil	2.8	6.9	8.7	11.2	7.4	7.1	7.3	6.8	9.0	10.1	11.0	12.5	(NA)
<b>Consumption</b> <sup>5</sup>	<b>66.4</b>	<b>74.3</b>	<b>70.6</b>	<b>76.0</b>	<b>70.8</b>	<b>70.5</b>	<b>74.1</b>	<b>73.9</b>	<b>74.2</b>	<b>76.8</b>	<b>80.2</b>	<b>81.3</b>	<b>81.5</b>
Petroleum products	29.5	34.8	32.7	34.2	30.2	30.1	31.1	30.9	32.2	32.9	34.2	34.2	33.6
Natural gas	21.8	22.5	19.9	20.4	18.5	17.4	18.5	17.8	16.7	17.7	18.6	19.4	19.4
Coal	12.3	13.0	12.7	15.4	15.3	15.9	17.1	17.5	17.3	18.0	18.8	18.9	19.1
Nuclear power	0.2	0.9	1.9	2.7	3.1	3.2	3.6	4.1	4.5	4.9	5.7	5.7	6.2
Hydro electric power	2.7	3.0	3.2	3.1	3.6	3.9	3.7	3.4	3.4	3.1	2.6	2.9	2.9
Geothermal and other	(Z)	(Z)	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2

NA Not available. Z Less than 50 trillion. <sup>1</sup> Represents peak year for U.S. energy production. <sup>2</sup> Includes lease condensate. <sup>3</sup> Dry marketed gas. <sup>4</sup> Exports minus imports. <sup>5</sup> Represents peak year for U.S. energy consumption. <sup>6</sup> Includes industrial generation of hydropower and net electricity imports.

## No. 947. Selected Energy Indicators—Summary: 1970 to 1990

[Btu=British thermal unit. For Btu conversion factors, see text, section 19. Minus sign (-) indicates decrease]

ITEM	1970	1973	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990
<b>AVERAGE ANNUAL PERCENT CHANGE</b> <sup>1</sup>													
Gross national product <sup>2</sup>	3.0	5.2	-1.3	3.4	2.5	3.6	6.8	3.4	2.7	3.4	4.5	2.5	0.9
Energy production, total <sup>3</sup>	4.7	-0.6	-1.6	1.6	-0.8	-4.2	7.8	-1.6	-0.8	0.9	1.9	0.1	2.3
Crude oil <sup>4</sup>	4.3	-2.7	-4.5	0.6	0.9	0.5	2.5	0.7	-3.2	-3.8	-2.4	-8.7	-4.1
Natural gas	6.6	-0.1	-7.4	-0.9	-7.4	-9.4	8.5	-5.7	-2.6	3.5	2.5	1.5	1.5
Coal	2.3	-0.7	6.5	4.4	1.4	-7.5	14.3	-2.0	1.0	3.2	3.2	2.9	5.9
Energy consumption, total <sup>3</sup>	4.7	4.2	-2.8	1.5	-4.3	-0.5	5.1	-0.2	0.4	3.5	4.4	1.4	0.1
Petroleum products	4.9	5.7	-2.2	0.9	-5.3	-0.6	3.3	-0.4	4.1	2.1	4.0	-0.1	-1.6
Natural gas (dry)	6.7	-0.8	-8.2	0.5	-7.1	-6.2	6.6	-3.7	-6.3	6.2	4.8	4.5	0.2
Coal	1.2	7.4	(Z)	3.9	-3.7	3.8	7.4	2.4	1.2	4.3	4.7	0.5	0.6
<b>PER CAPITA</b> <sup>6</sup> (mil. Btu)													
Energy production	304	293	278	285	275	261	278	271	266	266	269	266	269
Energy consumption	327	351	327	384	305	301	313	310	308	316	328	328	325
Energy consumption per dollar of GNP <sup>2</sup> (1,000 Btu)	27.5	27.1	26.2	23.8	22.4	21.5	21.2	20.4	20.0	20.0	20.0	19.8	19.6

Z Less than .05 percent. <sup>1</sup> Represents annual average for period of intervals shown; for 1960, change from 1955. Percent change derived from Btu values. For explanation of average annual percent change, see Guide to Tabular Presentation. <sup>2</sup> Gross national product in constant (1982) dollars, see tables 698 and 700. <sup>3</sup> Includes types of fuel or power, not shown separately. <sup>4</sup> Includes lease condensate. <sup>5</sup> Based on resident population estimated as of July 1.

## No. 948. Energy Imports and Exports, by Type of Fuel: 1970 to 1989

[In quadrillion of Btu. For definition of Btu, see text, Section 19]

TYPE OF FUEL	1970	1973	1975	1979	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>Net imports:</b> <sup>1</sup>													
Coal	-1.93	-1.42	-1.74	-1.70	-2.39	-2.77	-2.01	-2.12	-2.39	-2.19	-2.05	-2.45	-2.58
Natural Gas (dry)	0.77	0.98	0.9	1.24	0.96	0.9	0.89	0.79	0.9	0.69	0.94	1.22	1.31
Petroleum	6.92	12.98	12.51	16.93	13.50	9.05	9.08	9.89	8.95	11.53	12.53	14.01	15.15
Other <sup>2</sup>	-0.04	0.14	0.08	0.27	0.18	0.28	0.36	0.40	0.41	0.35	0.48	0.36	0.14
<b>Imports:</b>													
Coal	(Z)	(Z)	0.02	0.05	0.03	0.02	0.03	0.03	0.05	0.06	0.04	0.05	0.07
Natural Gas (dry)	0.85	1.06	0.98	1.30	1.01	0.95	0.94	0.85	0.95	0.75	0.99	1.30	1.38
Petroleum	7.47	13.47	12.95	17.93	14.66	10.78	10.65	11.43	10.61	13.20	14.16	15.75	16.98
Other <sup>2</sup>	0.07	0.20	0.16	0.33	0.28	0.35	0.41	0.45	0.49	0.43	0.56	0.46	0.30
<b>Exports:</b>													
Coal	1.94	1.43	1.76	1.75	2.42	2.79	2.04	2.15	2.44	2.25	2.09	2.50	2.65
Natural Gas (dry)	0.07	0.08	0.07	0.06	0.05	0.05	0.06	0.06	0.06	0.06	0.05	0.07	0.07
Petroleum	0.55	0.49	0.44	1.00	1.16	1.73	1.57	1.54	1.66	1.67	1.63	1.74	1.84
Other <sup>2</sup>	0.11	0.06	0.08	0.06	0.09	0.06	0.05	0.05	0.08	0.07	0.07	0.10	0.16

Z Less than .005 quadrillion Btu. <sup>1</sup> Net imports equals imports minus exports. Minus sign (-) denotes an excess of exports over imports. <sup>2</sup> Coal coke and small amounts of electricity transmitted across U.S. borders with Canada and Mexico. Source of tables 946-948: U.S. Energy Information Administration, *Annual Energy Review*, and *Monthly Energy Review*.

## No. 949. Energy Consumption—End-Use Sector and Selected Source, by State: 1988

[in trillions of Btu, except as indicated. For Btu conversion factors, see text, section 19. For composition of regions, see fig. 1, inside front cover]

REGION, DIVISION, AND STATE	Total <sup>1</sup>	Per capita <sup>2</sup> (mil. Btu)	Per cent change, 1987-1988	END-USE SECTOR				SOURCE				
				Residential	Commercial	Industrial	Transportation	Petroleum	Natural gas (dry)	Coal	Hydropower	Nuclear power
<b>United States</b> . . . . .	<b>80,246</b>	<b>327</b>	<b>4.5</b>	<b>16,371</b>	<b>12,642</b>	<b>29,045</b>	<b>22,187</b>	<b>34,223</b>	<b>18,562</b>	<b>18,886</b>	<b>2,639</b>	<b>5,661</b>
<b>Northeast</b> . . . . .	<b>12,536</b>	<b>248</b>	<b>3.3</b>	<b>3,291</b>	<b>2,601</b>	<b>3,188</b>	<b>3,459</b>	<b>6,384</b>	<b>2,292</b>	<b>2,064</b>	<b>544</b>	<b>1,273</b>
<b>New England</b> . . . . .	<b>3,063</b>	<b>236</b>	<b>3.8</b>	<b>894</b>	<b>645</b>	<b>588</b>	<b>939</b>	<b>1,944</b>	<b>361</b>	<b>184</b>	<b>167</b>	<b>349</b>
Maine . . . . .	372	309	13.2	85	53	113	122	258	3	7	61	54
New Hampshire . . . . .	243	224	0.2	73	39	54	77	180	13	33	19	2
Vermont . . . . .	129	232	5.4	35	24	26	44	74	5	(2)	38	44
Massachusetts . . . . .	1,346	229	1.9	399	315	215	418	848	217	117	32	12
Rhode Island . . . . .	216	218	4.0	66	45	44	62	121	32	4	7	2
Connecticut . . . . .	757	234	3.9	239	169	136	216	463	91	23	10	239
<b>Middle Atlantic</b> . . . . .	<b>9,473</b>	<b>252</b>	<b>3.2</b>	<b>2,397</b>	<b>1,956</b>	<b>2,800</b>	<b>2,520</b>	<b>4,440</b>	<b>1,931</b>	<b>1,880</b>	<b>377</b>	<b>924</b>
New York . . . . .	3,586	200	2.8	1,025	995	692	874	1,835	813	333	372	260
New Jersey . . . . .	2,286	296	1.5	524	452	524	786	1,273	425	81	42	257
Pennsylvania . . . . .	3,601	300	4.8	848	509	1,384	860	1,332	693	1,466	7	407
<b>Midwest</b> . . . . .	<b>19,860</b>	<b>332</b>	<b>5.8</b>	<b>4,630</b>	<b>3,149</b>	<b>7,265</b>	<b>4,814</b>	<b>7,004</b>	<b>4,675</b>	<b>6,682</b>	<b>134</b>	<b>1,554</b>
<b>East North Central</b> . . . . .	<b>13,985</b>	<b>332</b>	<b>5.6</b>	<b>3,272</b>	<b>2,184</b>	<b>5,356</b>	<b>3,172</b>	<b>4,638</b>	<b>3,371</b>	<b>4,713</b>	<b>31</b>	<b>1,148</b>
Ohio . . . . .	3,785	348	3.8	858	582	1,535	810	1,149	838	1,475	2	91
Indiana . . . . .	2,478	446	4.1	449	272	1,198	558	801	464	1,292	5	1
Illinois . . . . .	2,577	308	6.6	882	664	1,255	775	1,240	963	720	1	743
Michigan . . . . .	3,753	298	6.9	719	436	911	698	954	766	832	8	181
Wisconsin . . . . .	1,392	268	8.1	364	230	457	341	494	320	394	15	123
<b>West North Central</b> . . . . .	<b>5,875</b>	<b>331</b>	<b>6.2</b>	<b>1,358</b>	<b>965</b>	<b>1,909</b>	<b>1,642</b>	<b>2,365</b>	<b>1,304</b>	<b>1,969</b>	<b>103</b>	<b>406</b>
Minnesota . . . . .	1,315	305	8.5	321	192	455	347	507	296	304	4-10	132
Iowa . . . . .	942	333	7.4	223	139	348	232	337	241	306	7	34
Missouri . . . . .	1,511	294	4.6	394	287	354	475	639	254	547	15	96
North Dakota . . . . .	203	467	1.9	54	36	152	69	118	30	370	23	-
South Dakota . . . . .	203	284	5.1	54	32	52	65	106	25	34	54	-
Nebraska . . . . .	536	334	8.0	127	114	135	160	221	120	139	14	73
Kansas . . . . .	1,057	423	5.0	185	165	413	294	438	348	269	(2)	71
<b>South</b> . . . . .	<b>33,089</b>	<b>391</b>	<b>4.2</b>	<b>5,764</b>	<b>4,315</b>	<b>14,230</b>	<b>8,778</b>	<b>14,143</b>	<b>8,324</b>	<b>7,936</b>	<b>271</b>	<b>2,116</b>
<b>South Atlantic</b> . . . . .	<b>12,319</b>	<b>290</b>	<b>4.3</b>	<b>2,842</b>	<b>2,143</b>	<b>3,510</b>	<b>3,822</b>	<b>5,294</b>	<b>1,452</b>	<b>3,766</b>	<b>82</b>	<b>1,547</b>
Delaware . . . . .	230	349	3.6	47	32	88	63	142	30	69	-	-
Maryland . . . . .	1,240	268	3.0	325	173	399	344	510	178	301	14	126
District of Columbia . . . . .	174	283	0.8	36	75	32	30	42	33	1	-	-
Virginia . . . . .	1,840	306	4.0	431	361	458	590	792	170	343	4-2	226
West Virginia . . . . .	778	415	6.0	131	86	413	148	268	132	915	10	-
North Carolina . . . . .	1,947	300	3.8	457	320	594	576	774	157	515	30	313
South Carolina . . . . .	1,143	330	1.9	231	157	486	269	376	115	302	7	438
Georgia . . . . .	2,038	322	4.4	434	303	608	692	831	331	699	21	163
Florida . . . . .	2,929	237	6.1	750	636	432	1,110	1,559	306	611	2	281
<b>East South Central</b> . . . . .	<b>5,667</b>	<b>369</b>	<b>4.8</b>	<b>1,114</b>	<b>642</b>	<b>2,376</b>	<b>1,535</b>	<b>2,126</b>	<b>871</b>	<b>2,216</b>	<b>127</b>	<b>284</b>
Kentucky . . . . .	1,401	376	5.9	277	174	569	381	522	191	822	25	-
Tennessee . . . . .	1,714	350	1.9	376	180	697	461	581	221	611	47	42
Alabama . . . . .	1,614	393	4.8	295	189	756	374	579	243	653	55	139
Mississippi . . . . .	938	358	9.0	166	99	354	319	444	216	130	-	103
<b>West South Central</b> . . . . .	<b>15,103</b>	<b>562</b>	<b>4.0</b>	<b>1,808</b>	<b>1,530</b>	<b>8,344</b>	<b>3,421</b>	<b>6,723</b>	<b>6,001</b>	<b>1,984</b>	<b>62</b>	<b>285</b>
Arkansas . . . . .	790	330	10.4	164	103	297	226	309	219	219	29	96
Louisiana . . . . .	3,450	783	1.2	291	242	2,212	705	1,531	1,506	212	-	148
Oklahoma . . . . .	1,280	396	2.3	244	192	511	334	426	611	269	21	-
Texas . . . . .	9,583	569	4.8	1,109	993	5,324	2,156	4,457	3,665	1,264	12	41
<b>West</b> . . . . .	<b>14,722</b>	<b>290</b>	<b>4.2</b>	<b>2,685</b>	<b>2,579</b>	<b>4,322</b>	<b>5,134</b>	<b>6,695</b>	<b>3,272</b>	<b>2,203</b>	<b>1,693</b>	<b>717</b>
<b>Mountain</b> . . . . .	<b>4,279</b>	<b>321</b>	<b>5.4</b>	<b>814</b>	<b>835</b>	<b>1,297</b>	<b>1,334</b>	<b>1,678</b>	<b>881</b>	<b>2,045</b>	<b>288</b>	<b>253</b>
Montana . . . . .	334	415	4.9	58	50	142	84	144	43	181	84	-
Idaho . . . . .	355	354	5.6	74	69	127	86	113	42	10	70	-
Wyoming . . . . .	377	786	2.2	36	41	216	84	137	87	446	8	-
Colorado . . . . .	902	273	3.5	206	228	195	273	339	229	311	18	7
New Mexico . . . . .	524	347	4.8	73	100	157	194	218	185	266	1	-
Arizona . . . . .	898	258	4.7	196	199	175	328	352	129	309	80	246
Utah . . . . .	534	316	12.2	96	85	201	152	206	118	338	6	-
Nevada . . . . .	355	337	6.9	75	63	84	133	169	48	184	21	-
<b>Pacific</b> . . . . .	<b>10,443</b>	<b>279</b>	<b>3.7</b>	<b>1,871</b>	<b>1,744</b>	<b>3,025</b>	<b>3,800</b>	<b>5,017</b>	<b>2,391</b>	<b>158</b>	<b>1,405</b>	<b>464</b>
Washington . . . . .	1,807	389	6.5	359	294	640	513	706	151	99	707	64
Oregon . . . . .	880	318	4.2	193	156	250	280	350	89	3	372	68
California . . . . .	6,970	246	2.1	1,255	1,206	1,797	2,712	3,482	1,859	51	315	332
Alaska . . . . .	520	991	10.3	40	52	276	152	218	289	4	10	-
Hawaii . . . . .	266	243	13.3	24	36	62	143	261	3	1	1	-

- Represents zero. Z Less than .05 trillion Btu. <sup>1</sup> Sources of energy includes geothermal, wood and waste, and net interstate sales of electricity, including losses, not shown separately. <sup>2</sup> Based on estimated resident population as of July 1. <sup>3</sup> Includes 8.6 trillion Btu of net imports of coal coke not allocated by State. <sup>4</sup> Minus sign (-) indicates when amount of energy expended exceeds amount of energy consumed.

Source: U.S. Energy Information Administration, *State Energy Data Report, 1990-1988*.

**No. 950. Primary Energy Consumption, by End-Use Sector: 1960 to 1989**

[Btu—British thermal unit. For residential and commercial, industrial, and transportation, represents consumption of fossil fuels only. For Btu conversion factors, see text, section 19]

YEAR	Total consumption (quad. Btu)	Residential and commercial (quad. Btu)	Industrial and miscellaneous (quad. Btu)	Transportation (quad. Btu)	Electricity generation (quad. Btu)	PERCENT OF TOTAL			
						Residential and commercial	Industrial and miscellaneous	Transportation	Electricity generation
1960	43.8	8.8	16.3	10.6	8.2	20.1	37.2	24.2	18.7
1970	66.4	12.1	21.9	16.0	16.3	18.2	33.0	24.1	24.5
1973	74.3	12.3	23.6	18.5	19.9	16.6	31.8	24.9	26.8
1975	70.6	11.6	20.4	18.2	20.3	16.4	28.9	25.8	28.8
1979	78.9	11.5	22.8	20.4	24.1	14.6	28.9	25.9	30.5
1980	76.0	10.7	21.0	19.7	24.5	14.1	27.6	25.9	32.2
1981	74.0	10.0	19.7	19.5	24.8	13.5	26.6	26.4	33.5
1982	70.8	10.1	17.4	19.0	24.3	14.3	24.6	26.8	34.3
1983	70.5	9.7	16.7	19.1	24.9	13.8	23.7	27.1	35.3
1984	74.1	10.1	18.2	19.8	25.9	13.6	24.6	26.7	35.0
1985	74.0	9.8	17.5	20.1	26.5	13.2	23.6	27.2	35.8
1986	74.2	9.6	17.3	20.7	26.6	12.9	23.3	27.9	35.8
1987	76.8	9.7	18.2	21.3	27.6	12.7	23.7	27.7	35.9
1988	80.2	10.4	19.0	22.1	28.6	12.9	23.7	27.6	35.7
1989	81.2	10.6	19.3	22.1	29.2	13.2	23.7	27.2	35.9

Source: U.S. Energy Information Administration, *Annual Energy Review*.

**No. 951. Energy Expenditures and Average Fuel Prices, by Source and Sector: 1970 to 1988**

[For definition of Btu, see text, section 19. End-use sector and electric utilities exclude expenditures and prices on energy sources such as hydropower, solar, wind, and geothermal. Also excludes expenditures for reported amounts of energy consumed by the energy industry for production, transportation, and processing operations]

SOURCE AND SECTOR	1970	1973	1975	1980	1982	1983	1984	1985	1986	1987	1988
<b>EXPENDITURES</b> (mil. dol.)											
Total <sup>1 2</sup>	82,577	111,613	171,788	373,887	424,813	415,744	433,568	435,617	381,300	393,303	406,054
Natural gas	10,891	13,933	20,061	51,061	68,292	72,000	77,169	72,938	59,702	58,019	61,089
Petroleum products <sup>2</sup>	48,087	65,302	103,864	238,396	242,375	221,463	225,917	223,369	174,583	186,176	187,713
Motor gasoline	31,596	39,667	59,446	124,408	130,305	115,816	114,438	118,044	91,526	99,809	103,211
Distillate fuel oil	6,253	9,524	15,680	40,797	44,087	41,841	44,864	43,611	34,954	37,240	38,362
Jet fuel	1,440	2,000	4,192	13,923	14,974	13,940	15,064	14,747	10,505	11,448	11,322
Residual fuel	2,047	4,667	10,378	21,573	17,632	14,098	14,381	11,461	7,467	7,958	7,087
Coal	4,593	6,229	13,047	22,648	26,427	27,051	29,050	29,719	27,914	27,590	28,371
Electricity sales	23,351	33,780	50,680	98,098	127,394	134,746	142,438	149,242	151,806	154,692	162,074
Residential sector	20,082	27,075	36,845	68,827	86,834	92,352	96,157	98,728	96,627	97,814	103,205
Commercial sector	10,667	15,104	22,834	46,881	61,242	64,943	69,379	70,301	68,311	68,687	71,706
Industrial sector	16,458	23,531	41,173	94,505	102,961	101,405	108,993	105,269	90,252	89,833	90,167
Transportation sector <sup>2</sup>	35,370	45,903	70,937	163,674	173,776	157,044	159,039	161,318	126,110	136,970	140,976
Motor gasoline	30,525	38,598	57,992	121,809	127,949	113,843	112,044	115,201	89,404	97,527	100,988
Electric utilities	4,316	7,817	16,396	37,435	41,311	41,336	43,378	42,558	35,792	36,681	37,435
<b>AVERAGE FUEL PRICES</b> (dol. per mil. Btu)											
All sectors	1.65	2.02	3.33	6.91	8.53	8.47	8.36	8.43	7.36	7.37	7.28
Residential sector	2.12	2.73	3.83	7.55	9.92	10.85	10.86	11.12	10.97	10.83	10.87
Commercial sector	1.97	2.56	4.09	7.88	10.44	11.05	11.29	11.72	11.40	11.05	10.87
Industrial sector	0.83	1.08	2.20	4.71	6.14	6.30	6.21	6.10	5.37	5.16	4.96
Transportation sector	2.31	2.57	4.02	8.61	9.43	8.44	8.24	8.25	6.23	6.59	6.55
Electric utilities	0.32	0.46	0.96	1.75	2.01	1.98	1.97	1.85	1.55	1.51	1.45

<sup>1</sup> Includes electricity sales; excludes electricity generation. <sup>2</sup> Includes sources or fuel types not shown separately.

Source: U.S. Energy Information Administration, *State Energy Price and Expenditure Report*, annual.

## No. 952. Energy Expenditures—End-Use Sector and Selected Source, by State: 1988

[In millions of dollars, except as indicated. End-use sector and electric utilities exclude expenditures on energy sources such as hydropower, solar, wind, and geothermal. Also excludes expenditures for reported amounts of energy consumed by the energy industry for production, transportation, and processing operations]

REGION, DIVISION, AND STATE	Total <sup>1</sup>	Per capita <sup>2</sup> (dol.)	Percent change, 1987- 1988	END-USE SECTOR				SOURCE				
				Resi- dential	Com- mercial	Indus- trial	Trans- portation	Petroleum products		Natural gas	Coal	Elec- tricity sales
								Total	Gas- oline			
<b>U.S. . . .</b>	<b>3406,054</b>	<b>1,652</b>	<b>3.1</b>	<b>103,205</b>	<b>71,706</b>	<b>90,167</b>	<b>140,976</b>	<b>187,713</b>	<b>103,211</b>	<b>61,089</b>	<b>28,371</b>	<b>162,074</b>
<b>Northeast . . .</b>	<b>76,921</b>	<b>1,520</b>	<b>2.4</b>	<b>23,848</b>	<b>17,047</b>	<b>12,565</b>	<b>23,460</b>	<b>35,583</b>	<b>18,197</b>	<b>11,214</b>	<b>3,207</b>	<b>32,505</b>
<b>N.E. . . .</b>	<b>20,619</b>	<b>1,590</b>	<b>4.8</b>	<b>6,415</b>	<b>4,122</b>	<b>2,903</b>	<b>7,178</b>	<b>11,417</b>	<b>5,863</b>	<b>2,023</b>	<b>336</b>	<b>8,083</b>
ME . . .	2,204	1,828	11.8	582	296	408	918	1,486	659	18	18	755
NH . . .	1,687	1,555	4.1	548	260	297	582	939	507	73	59	732
VT . . .	902	1,616	5.3	261	166	132	343	520	281	25	1	358
MA . . .	8,915	1,514	2.0	2,755	1,982	1,152	3,025	4,750	2,466	1,174	194	3,489
RI . . .	1,436	1,446	2.6	464	281	208	484	767	410	187	11	494
CT . . .	5,475	1,694	7.2	1,805	1,137	706	1,826	2,955	1,540	546	53	2,255
<b>M.A. . . .</b>	<b>56,302</b>	<b>1,496</b>	<b>1.5</b>	<b>17,433</b>	<b>12,925</b>	<b>9,662</b>	<b>16,282</b>	<b>24,166</b>	<b>12,334</b>	<b>9,191</b>	<b>2,871</b>	<b>23,967</b>
NY . . .	23,422	1,308	1.6	7,839	6,905	2,638	6,040	9,829	5,019	4,091	539	10,707
NJ . . .	13,991	1,813	0.9	3,893	2,987	2,283	4,828	6,898	3,231	2,087	139	5,266
PA . . .	18,889	1,574	1.8	5,701	3,033	4,741	5,414	7,439	4,084	3,013	2,193	7,994
<b>Midwest . . .</b>	<b>102,477</b>	<b>1,712</b>	<b>3.3</b>	<b>27,632</b>	<b>16,995</b>	<b>25,452</b>	<b>32,396</b>	<b>42,924</b>	<b>25,285</b>	<b>18,997</b>	<b>10,126</b>	<b>38,562</b>
<b>E.N.C. . . .</b>	<b>72,479</b>	<b>1,721</b>	<b>3.0</b>	<b>19,890</b>	<b>12,204</b>	<b>18,754</b>	<b>21,632</b>	<b>28,589</b>	<b>17,162</b>	<b>14,565</b>	<b>7,682</b>	<b>27,648</b>
OH . . .	19,047	1,753	2.2	5,169	3,250	4,964	5,665	7,240	4,569	3,688	2,260	7,650
IN . . .	11,052	1,988	2.6	2,669	1,425	3,514	3,444	4,359	2,340	1,921	2,040	3,994
IL . . .	19,665	1,693	1.6	5,641	3,763	4,828	5,433	7,565	4,436	3,934	1,320	7,997
MI . . .	15,199	1,645	4.6	4,242	2,587	3,769	4,602	6,114	3,849	3,507	1,460	5,398
WI . . .	7,516	1,555	5.9	2,169	1,179	1,679	2,488	3,311	1,988	1,515	602	2,609
<b>W.N.C. . . .</b>	<b>29,998</b>	<b>1,689</b>	<b>4.1</b>	<b>7,742</b>	<b>4,791</b>	<b>6,698</b>	<b>10,764</b>	<b>14,335</b>	<b>8,123</b>	<b>4,432</b>	<b>2,444</b>	<b>10,914</b>
MN . . .	6,756	1,568	7.8	1,791	903	1,570	2,492	3,247	2,006	1,052	378	2,432
IA . . .	4,820	1,703	4.2	1,310	699	1,212	1,598	2,155	1,261	874	391	1,731
MO . . .	8,324	1,619	3.7	2,349	1,536	1,397	3,042	3,819	2,327	1,090	752	3,375
ND . . .	1,425	2,136	0.8	287	175	467	496	693	364	103	424	406
SD . . .	1,115	1,562	3.0	300	159	199	456	634	380	102	43	374
NE . . .	2,732	1,704	4.6	643	520	504	1,064	1,377	706	439	122	915
KS . . .	4,826	1,933	0.3	1,062	799	1,349	1,616	2,410	1,099	772	334	1,681
<b>South . . .</b>	<b>151,245</b>	<b>1,787</b>	<b>2.7</b>	<b>35,432</b>	<b>22,946</b>	<b>38,974</b>	<b>53,892</b>	<b>72,632</b>	<b>38,414</b>	<b>19,908</b>	<b>12,453</b>	<b>61,711</b>
<b>S.A. . . .</b>	<b>67,463</b>	<b>1,590</b>	<b>3.2</b>	<b>18,428</b>	<b>11,920</b>	<b>12,141</b>	<b>24,975</b>	<b>31,128</b>	<b>18,961</b>	<b>5,792</b>	<b>6,202</b>	<b>30,879</b>
DE . . .	1,223	1,853	5.6	332	190	258	443	668	347	119	122	500
MD . . .	6,941	1,500	2.1	1,969	963	1,426	2,583	3,305	2,115	864	473	2,780
DC . . .	1,049	1,711	0.3	227	421	153	247	291	202	187	1	576
VA . . .	9,763	1,624	3.0	2,559	1,772	1,412	4,021	4,962	2,936	702	538	3,966
WV . . .	3,160	1,684	0.9	696	415	1,060	990	1,486	781	435	1,319	1,068
NC . . .	10,841	1,671	2.6	3,020	1,727	2,206	3,887	4,842	3,016	663	913	5,229
SC . . .	5,825	1,681	0.5	1,510	855	1,679	1,782	2,284	1,394	479	527	2,955
GA . . .	10,911	1,721	4.3	2,742	1,851	2,291	4,027	4,715	2,859	1,508	1,221	4,608
FL . . .	17,750	1,439	4.7	5,373	3,726	1,656	6,995	8,575	5,311	825	1,088	9,197
<b>E.S.C. . . .</b>	<b>26,910</b>	<b>1,753</b>	<b>2.8</b>	<b>6,109</b>	<b>3,227</b>	<b>7,731</b>	<b>9,843</b>	<b>12,251</b>	<b>6,990</b>	<b>2,726</b>	<b>3,313</b>	<b>11,456</b>
KY . . .	6,674	1,791	5.0	1,397	782	2,022	2,473	3,142	1,722	637	1,034	2,746
TN . . .	8,558	1,747	1.2	1,940	917	2,582	3,119	3,697	2,317	747	822	3,976
AL . . .	7,284	1,775	1.2	1,770	927	2,125	2,462	3,152	1,824	828	1,223	3,040
MS . . .	4,394	1,677	5.5	1,002	601	1,002	1,789	2,280	1,127	516	234	1,694
<b>W.S.C. . . .</b>	<b>56,872</b>	<b>2,116</b>	<b>2.1</b>	<b>10,895</b>	<b>7,799</b>	<b>19,102</b>	<b>19,074</b>	<b>29,253</b>	<b>12,463</b>	<b>11,390</b>	<b>2,938</b>	<b>19,376</b>
AR . . .	4,014	1,675	4.6	1,038	560	937	1,478	1,835	1,108	633	349	1,572
LA . . .	11,322	2,569	1.7	1,826	1,352	4,805	3,539	6,107	1,862	2,203	333	3,431
OK . . .	5,232	1,618	0.0	1,354	918	958	2,001	2,373	1,454	1,307	404	2,048
TX . . .	36,304	2,157	2.2	6,677	4,969	12,602	12,056	18,938	8,039	7,247	1,852	12,325
<b>West . . .</b>	<b>75,297</b>	<b>1,485</b>	<b>4.4</b>	<b>16,294</b>	<b>14,715</b>	<b>13,064</b>	<b>31,225</b>	<b>36,577</b>	<b>21,317</b>	<b>10,966</b>	<b>2,585</b>	<b>29,756</b>
<b>Mt. . . .</b>	<b>21,488</b>	<b>1,612</b>	<b>3.8</b>	<b>4,864</b>	<b>4,327</b>	<b>3,738</b>	<b>8,561</b>	<b>10,042</b>	<b>6,126</b>	<b>2,663</b>	<b>2,304</b>	<b>8,763</b>
MT . . .	1,457	1,810	3.5	275	210	360	612	781	425	149	104	522
ID . . .	1,572	1,567	3.5	332	269	382	589	752	449	168	17	635
WY . . .	1,323	2,756	2.8	176	177	448	521	665	267	131	391	466
CO . . .	4,594	1,392	0.7	1,088	1,079	612	1,815	2,058	1,405	817	337	1,717
NM . . .	2,479	1,642	1.9	483	554	378	1,064	1,281	756	321	313	823
AZ . . .	5,616	1,612	3.8	1,519	1,274	750	2,074	2,293	1,548	488	440	2,887
UT . . .	2,648	1,507	6.6	564	441	501	1,043	1,193	736	376	451	895
NV . . .	1,899	1,802	10.8	427	323	307	843	1,009	542	213	251	718
<b>Pac. . . .</b>	<b>53,809</b>	<b>1,440</b>	<b>4.7</b>	<b>11,430</b>	<b>10,388</b>	<b>9,326</b>	<b>22,664</b>	<b>26,535</b>	<b>15,191</b>	<b>8,303</b>	<b>281</b>	<b>20,993</b>
OR . . .	6,929	1,489	6.0	1,482	1,066	1,315	3,066	3,564	1,974	551	161	2,800
CA . . .	4,255	1,537	4.8	895	699	848	1,812	2,166	1,263	388	8	1,693
AK . . .	39,553	1,396	4.4	8,594	8,110	6,771	16,078	18,568	11,300	7,145	99	15,574
HI . . .	1,491	2,840	3.7	253	265	153	820	1,016	228	187	11	361
	1,581	1,443	6.1	206	248	239	888	1,221	426	32	2	565

<sup>1</sup> Includes sources not shown separately. <sup>2</sup> Total expenditures are the sum of purchases for each source (including electricity sales) less electric utility purchases of fuel. <sup>3</sup> Based on estimated resident population as of July 1. <sup>4</sup> Includes net imports of coal coke not shown separately by State.

Source: U.S. Energy Information Administration, *State Energy Price and Expenditure Report*, annual.

### No. 953. Residential Energy Consumption, Expenditures, and Average Prices, 1980 to 1987, and by Region, 1987

[For period April to March for 1980-1985; January to December for 1987. Excludes Alaska and Hawaii in 1980. Covers occupied units only. Excludes household usage of gasoline for transportation and the use of wood or coal. Based on Residential Energy Consumption Survey; see Appendix III. For composition of regions, see fig. 1, inside front cover. Btu=British thermal unit; see text, section 19]

TYPE OF FUEL	Unit	1980	1981	1982	1983	1985	1987				
							Total	North-east	Mid-west	South	West
CONSUMPTION											
Total	Quad. Btu.	9.74	9.32	9.51	8.62	9.04	9.13	2.37	2.73	2.61	1.42
Avg. per household	Mil. Btu	126	114	114	103	105	101	124	123	84	78
Natural gas	Quad. Btu.	5.31	4.94	5.39	4.77	4.98	4.83	1.03	1.83	1.09	0.88
Electricity	Quad. Btu.	2.42	2.46	2.48	2.42	2.48	2.76	0.44	0.61	1.22	0.48
Fuel oil, kerosene	Quad. Btu.	1.71	1.55	1.33	1.14	1.26	1.22	0.87	0.16	0.17	0.02
Liquid petroleum gas	Quad. Btu.	0.31	0.36	0.31	0.29	0.31	0.32	0.02	0.13	0.12	0.05
EXPENDITURES											
Total	Bil. dol	63.2	74.8	85.0	87.8	97.0	97.7	24.3	25.0	33.4	15.0
Avg. per household	Dollars	815	917	1,022	1,048	1,123	1,080	1,276	1,124	1,081	819
Natural gas	Bil. dol	17.8	19.3	24.5	27.1	29.8	26.1	6.7	9.0	6.1	4.4
Electricity	Bil. dol	32.6	40.1	45.9	48.4	54.5	61.6	12.3	14.1	25.1	10.0
Fuel oil, kerosene	Bil. dol	10.7	12.5	11.8	9.6	9.6	7.2	5.1	1.0	1.1	0.1
Liquid petroleum gas	Bil. dol	2.1	2.9	2.7	2.7	3.1	2.8	0.2	1.0	1.1	0.4
AVERAGE PRICE											
Total	Dol./mil.Btu	6.49	8.03	8.93	10.18	10.73	10.71	10.26	9.18	12.82	10.53
Natural gas	Dol./mil.Btu	3.36	3.90	4.55	5.67	5.97	5.41	6.45	4.93	5.53	5.05
Electricity	Dol./mil.Btu	13.46	16.32	18.51	19.98	21.94	22.34	27.78	23.09	20.61	20.70
Fuel oil, kerosene	Dol./mil.Btu	6.29	8.04	8.89	8.42	7.64	5.89	5.79	5.97	6.29	6.10
Liquid petroleum gas	Dol./mil.Btu	6.71	7.92	8.74	9.42	9.91	8.91	13.24	7.58	9.56	9.30

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey*. Not conducted in 1984 and 1986.

### No. 954. Residential Energy Consumption and Expenditures, by Type of Fuel and Selected Household Characteristic: 1987

[For period January through December 1987. Quad.=quadrillion. See headnote, table 953]

CHARACTERISTIC	CONSUMPTION (Btu's)					EXPENDITURES				
	Total <sup>1</sup> (quad.)	Avg. per house- hold <sup>1</sup> (mil.)	Nat- ural gas (quad.)	Elec- tricity (quad.)	Fuel oil <sup>2</sup> (quad.)	Total <sup>1</sup> (bil. dol.)	Avg. per house- hold <sup>1</sup> (dol.)	Nat- ural gas (bil. dol.)	Elec- tricity (bil. dol.)	Fuel oil <sup>2</sup> (bil. dol.)
<b>Total households</b>	<b>9.13</b>	<b>101</b>	<b>4.83</b>	<b>2.76</b>	<b>1.22</b>	<b>97.7</b>	<b>1,080</b>	<b>28.1</b>	<b>61.6</b>	<b>7.2</b>
Single family detached	6.32	115	3.30	1.97	0.80	67.6	1,226	17.5	43.1	4.8
Single family attached	0.53	99	0.29	0.16	0.07	6.0	1,135	1.7	3.8	0.5
2-4 unit building	0.94	93	0.61	0.20	0.13	9.1	905	3.4	4.9	0.8
5 or more unit building	0.96	64	0.51	0.28	0.17	10.1	681	2.8	6.5	0.8
Mobile home	0.39	76	0.12	0.16	0.05	4.8	948	0.6	3.3	0.3
<b>Year house built:</b>										
1939 or earlier	2.59	120	1.53	0.48	0.51	23.7	1,105	8.4	11.7	3.0
1940-1949	0.85	104	0.48	0.22	0.13	8.6	1,042	2.7	4.9	0.7
1950-1959	1.43	110	0.79	0.38	0.22	14.6	1,121	4.2	8.7	1.3
1960-1969	1.63	100	0.92	0.50	0.18	17.4	1,060	5.1	11.0	1.0
1970-1974	0.92	95	0.49	0.31	0.07	10.2	1,062	2.5	6.8	0.4
1975-1979	0.90	86	0.34	0.44	0.08	11.9	1,131	1.7	9.3	0.5
1980-1984	0.53	71	0.20	0.28	0.02	7.3	984	1.1	5.8	0.1
1985 or later	0.27	71	0.10	0.15	0.01	4.0	1,049	0.5	3.3	(B)
<b>Heating and cooling degree day zones:</b>										
Less than 2,000 CDD and- More than 7,000 HDD	0.94	110	0.42	0.23	0.21	8.8	1,030	2.1	4.8	1.2
5,500-7,000 HDD	3.26	126	2.09	0.89	0.44	30.0	1,156	10.6	16.3	2.6
4,000-5,499 HDD	2.34	107	1.09	0.67	0.51	24.9	1,138	6.6	14.9	2.9
Less than 4,000 HDD	1.38	77	0.73	0.53	0.05	16.6	931	4.1	11.5	0.4
More than 2,000 CDD and less than 4,000 HDD	1.20	74	0.51	0.64	0.01	17.4	1,068	2.8	14.2	0.1
<b>1987 family income:</b>										
Less than \$5,000	0.51	83	0.30	0.13	0.05	5.1	818	1.6	2.8	0.3
\$5,000-\$9,999	1.03	90	0.57	0.26	0.16	10.1	881	3.0	5.8	0.9
\$10,000-\$14,999	1.15	91	0.62	0.31	0.16	11.7	927	3.3	6.9	0.9
\$15,000-\$19,999	0.83	92	0.45	0.24	0.11	8.7	967	2.4	5.3	0.7
\$20,000-\$24,999	0.84	96	0.42	0.27	0.12	9.1	1,038	2.2	5.9	0.7
\$25,000-\$34,999	1.80	99	0.81	0.52	0.22	17.7	1,091	4.4	11.5	1.3
\$35,000-\$49,999	1.50	112	0.77	0.51	0.19	16.8	1,257	4.2	11.2	1.1
\$50,000 or more	1.67	129	0.90	0.52	0.22	18.6	1,440	4.9	12.1	1.3

B Base figure too small to meet statistical standards for reliability of derived figure. <sup>1</sup> Includes liquid petroleum gas, not shown separately. <sup>2</sup> Includes kerosene. <sup>3</sup> CDD=Cooling degree day; HDD=Heating degree day.  
Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey, 1987*.

# **No. 955. Average Residential Energy Consumption and Expenditures of All Fuels Used, by Main Heating Fuel Type and Household Characteristic: 1987**

[For period January through December 1987. See headnote, table 953]

HOUSEHOLD CHARACTERISTIC	CONSUMPTION PER HOUSEHOLD (mil. Btu)					EXPENDITURES PER HOUSEHOLD (dollars)				
	All households <sup>1</sup>	Households using as main heating fuel—				All households <sup>1</sup>	Households using as main heating fuel—			
		Natural gas	Electricity	Fuel oil <sup>2</sup>			Natural gas	Electricity	Fuel oil <sup>2</sup>	
			With air-conditioning	Without air-conditioning				With air-conditioning	Without air-conditioning	
<b>Total households . . .</b>	<b>101</b>	<b>118</b>	<b>56</b>	<b>46</b>	<b>126</b>	<b>1,080</b>	<b>1,073</b>	<b>1,103</b>	<b>772</b>	<b>1,280</b>
<b>Region:</b>										
Northeast . . . . .	124	139	53	54	135	1,276	1,313	1,188	1,200	1,294
Midwest . . . . .	123	132	69	75	123	1,124	1,096	1,257	1,273	1,271
South . . . . .	84	111	57	39	104	1,081	1,110	1,108	720	1,185
West . . . . .	78	92	51	41	92	819	834	913	605	892
<b>Type:</b>										
Single-family detached . .	115	132	71	63	139	1,226	1,213	1,374	1,068	1,425
Single-family attached . .	99	113	54	38	142	1,135	1,112	1,096	708	1,424
2-4 unit building . . . .	93	102	44	41	121	905	896	898	694	1,159
5 or more unit building . .	64	78	36	30	97	681	665	709	482	793
Mobile home . . . . .	76	96	57	43	88	948	885	1,101	768	1,031
<b>Year house built:</b>										
1939 or earlier . . . . .	120	132	53	48	137	1,105	1,093	1,017	802	1,312
1940 to 1949 . . . . .	104	113	54	46	122	1,042	1,037	1,098	865	1,166
1950 to 1959 . . . . .	110	118	58	47	129	1,121	1,100	1,089	805	1,301
1960 to 1967 . . . . .	100	110	59	39	114	1,080	1,069	1,075	660	1,163
1970 to 1974 . . . . .	95	117	59	43	106	1,062	1,068	1,126	618	1,194
1975 to 1979 . . . . .	86	116	59	49	128	1,131	1,142	1,138	841	1,402
1980 to 1984 . . . . .	71	97	53	49	89	984	941	1,082	828	1,028
1985 or later . . . . .	71	109	52	40	108	1,049	965	1,110	886	1,052
<b>1987 family income:</b>										
Less than \$5,000 . . . . .	83	105	41	32	97	818	862	753	552	904
\$5,000-\$9,999 . . . . .	90	103	49	35	110	881	871	912	622	1,016
\$10,000-\$14,999 . . . . .	91	106	45	41	114	927	930	843	661	1,126
\$15,000-\$19,999 . . . . .	92	107	43	46	124	967	938	872	833	1,235
\$20,000-\$24,999 . . . . .	96	111	59	52	112	1,036	1,004	1,075	852	1,158
\$25,000-\$34,999 . . . . .	99	117	54	45	121	1,091	1,084	1,094	770	1,218
\$35,000-\$49,999 . . . . .	112	131	63	57	147	1,257	1,239	1,285	985	1,488
\$50,000 or more . . . . .	129	145	75	59	172	1,440	1,417	1,463	923	1,759

<sup>1</sup> Includes households using liquid petroleum gas, not shown separately. <sup>2</sup> Includes kerosene.

# **No. 956. Residential Energy Expenditures, by Type of End Use and Household Characteristic: 1987**

[For period January through December 1987. See headnote, table 953]

CHARACTERISTIC	EXPENDITURES (bil. dol.)					EXPENDITURES PER HOUSEHOLD (dollars)				
	All end uses	End use				All end uses	End use			
		Space heating <sup>1</sup>	Air-conditioning <sup>2</sup>	Water heating <sup>1</sup>	Other <sup>3</sup>		Space heating <sup>1</sup>	Air-conditioning <sup>2</sup>	Water heating <sup>1</sup>	Other <sup>3</sup>
<b>Total households . . .</b>	<b>97.7</b>	<b>31.7</b>	<b>9.8</b>	<b>13.9</b>	<b>42.3</b>	<b>1,080</b>	<b>350</b>	<b>109</b>	<b>154</b>	<b>467</b>
<b>Type:</b>										
Single-family detached . .	67.6	21.5	7.0	9.2	29.9	1,226	391	127	187	542
Single-family attached . .	6.0	2.1	0.6	0.8	2.5	1,135	404	111	148	472
2-4 unit building . . . . .	9.1	3.4	0.6	1.3	3.8	905	338	60	131	376
5 or more unit building . .	10.1	3.1	1.3	1.7	4.1	881	206	85	114	276
Mobile home . . . . .	4.8	1.5	0.4	0.9	2.0	948	297	74	180	397
<b>Year house built:</b>										
1939 or earlier . . . . .	23.7	9.7	1.2	3.3	9.6	1,105	452	55	152	446
1940 to 1949 . . . . .	8.6	2.9	0.7	1.3	3.7	1,042	357	82	152	450
1950 to 1959 . . . . .	14.6	4.7	1.4	2.0	6.5	1,121	360	111	152	498
1960 to 1969 . . . . .	17.4	5.3	2.2	2.4	7.5	1,060	324	133	145	459
1970 to 1974 . . . . .	10.2	3.1	1.2	1.5	4.5	1,062	320	120	154	468
1975 to 1979 . . . . .	11.9	3.3	1.7	1.7	5.2	1,131	310	163	158	500
1980 to 1984 . . . . .	7.3	1.7	1.0	1.2	3.4	984	230	130	162	463
1985 or later . . . . .	4.0	1.0	0.5	0.7	1.8	1,049	258	137	183	472
<b>1987 family income:</b>										
Less than \$5,000 . . . . .	5.1	1.9	0.3	0.8	2.0	818	312	55	135	316
\$5,000-\$9,999 . . . . .	10.1	3.7	0.7	1.6	4.1	881	324	63	139	354
\$10,000-\$14,999 . . . . .	11.7	4.0	0.9	1.8	4.9	927	319	75	145	388
\$15,000-\$19,999 . . . . .	6.7	2.9	0.7	1.3	3.7	967	323	83	148	414
\$20,000-\$24,999 . . . . .	9.1	2.9	0.9	1.3	4.0	1,038	330	105	152	452
\$25,000-\$34,999 . . . . .	17.7	5.5	2.0	2.5	7.7	1,091	341	121	153	475
\$35,000-\$49,999 . . . . .	16.8	5.0	1.9	2.3	7.6	1,257	374	142	171	570
\$50,000 or more . . . . .	18.6	5.7	2.3	2.2	8.4	1,440	440	179	171	650

<sup>1</sup> Heating from the primary and secondary heating equipment. <sup>2</sup> Cooling by refrigeration; does not include dehumidifiers, evaporative coolers, or fans not connected to air-conditioning equipment. <sup>3</sup> Appliance usage; includes fans in central, forced-air furnaces.

Source of tables 955 and 956: U.S. Energy Information Administration, *Residential Energy Consumption Survey, 1987*.



### No. 957. Commercial Buildings—Energy Consumption and Expenditures, by Major Fuel Type Used: 1986

[Covers buildings using one or more major fuel. Excludes industrial buildings predominantly residential buildings, and buildings of less than 1,000 sq. ft. Based on a sample survey of building representatives and energy suppliers therefore subject to sampling variability. For characteristics of commercial buildings, see tables in the Construction and Housing section. Tril.=trillion]

ITEM	Unit	All major fuels	Elec- tricity	Natural gas	Fuel oil	Pro- pane	District Heat
Number of buildings using the fuel	1,000	3,992	3,965	2,214	534	344	77
Square footage of floorspace	Million	56,825	56,508	37,263	11,005	3,213	4,625
Square footage per building	1,000	14.2	14.3	16.8	20.6	9.3	59.7
Energy consumed, total	Tril. Btu	5,040	2,390	1,723	442	63	422
Energy consumed per building	Mill. Btu	1,262	603	778	827	184	5,446
Energy consumed per square foot of floorspace	1,000 Btu	89	42	46	40	20	91
Energy consumed per employee	Mill. Btu	69	33	35	28	18	52
Expenditures, total	Mill. dol.	60,762	47,186	8,355	2,059	543	2,620
Expenditures per building	\$1,000	15.2	11.9	3.8	3.9	1.6	33.8
Expenditures per square foot of floorspace	Dollars	1.07	0.84	0.22	0.19	0.17	0.57
Expenditures per million Btu of energy consumed	Dollars	12.06	19.74	4.85	4.66	8.59	6.21

Source: U.S. Energy Information Administration, *Nonresidential Buildings Energy Consumption Survey: Commercial Buildings, Consumption and Expenditure, 1986*.

### No. 958. Commercial Buildings—Energy Consumption and Expenditures: 1986

[Covers buildings using one or more major fuel. Excludes industrial buildings, predominantly residential buildings, and buildings of less than 1,000 sq. ft. Based on a sample survey of building representatives and energy suppliers therefore subject to sampling variability. For characteristics of commercial buildings, see tables in Section 26. For composition of regions, see fig. 1, inside front cover]

BUILDING CHARACTERISTIC	ALL BUILDINGS USING ANY MAJOR FUEL		CONSUMPTION (tril. Btu)			EXPENDITURES (mil. dol.)		
	Number (1,000)	Square feet (mil.)	Major fuel, total <sup>1</sup>	Elec- tricity	Natural gas	Major fuel, total <sup>1</sup>	Elec- tricity	Natural gas
<b>All buildings</b>	<b>3,992</b>	<b>56,825</b>	<b>5,040</b>	<b>2,390</b>	<b>1,723</b>	<b>60,762</b>	<b>47,186</b>	<b>8,355</b>
<b>Region:</b>								
Northeast	639	11,506	1,046	430	244	14,362	10,886	1,472
Midwest	1,036	15,728	1,603	584	742	15,848	10,869	3,400
South	1,517	18,882	1,485	867	426	17,945	14,856	1,958
West	800	10,708	906	510	311	12,607	10,575	1,524
<b>Year constructed:</b>								
1900 or before	179	2,294	129	42	54	1,376	891	278
1901 to 1920	237	3,520	274	96	109	3,559	2,597	521
1921 to 1945	596	8,077	666	201	254	6,698	4,233	1,324
1946 to 1960	843	9,410	754	302	308	8,717	6,428	1,495
1961 to 1970	716	11,352	1,252	615	435	14,741	11,574	2,038
1971 to 1973	238	4,290	474	226	158	5,418	4,175	755
1974 to 1979	557	8,186	739	438	196	9,837	8,326	912
1980 to 1983	342	5,179	388	254	102	5,632	4,862	520
1984 to 1986	286	4,517	354	216	106	4,783	4,100	510
<b>Principal activity within building:</b>								
Assembly	572	7,305	401	164	157	5,009	3,707	811
Education	241	7,292	635	179	254	5,782	3,606	1,189
Food sales/services	303	1,993	411	220	159	5,417	4,374	805
Health care	52	2,107	457	132	205	3,824	2,287	884
Lodging	137	2,785	311	120	105	3,330	2,251	523
Mercantile/services	1,280	12,781	1,002	536	332	13,231	10,781	1,706
Office	10	8,532	1,010	641	258	14,777	12,884	1,178
Public order and safety	63	678	86	30	25	720	475	133
Warehouse	491	8,558	466	252	143	5,620	4,537	722
Other	94	1,704	169	83	46	2,013	1,568	204
Vacant	160	2,090	92	35	38	1,040	715	200
<b>Square footage:</b>								
1,001 to 5,000	2,113	5,943	719	376	248	10,133	8,175	1,316
5,001 to 10,000	901	6,638	598	278	236	7,647	5,962	1,206
10,001 to 25,000	541	8,873	724	312	305	8,374	6,265	1,519
25,001 to 50,000	239	8,551	662	312	191	7,856	6,060	967
50,001 to 100,000	118	8,217	640	303	220	7,445	5,720	1,057
100,001 to 200,000	51	7,128	577	249	180	6,153	4,514	848
Over 200,000	29	11,475	1,120	560	343	13,154	10,489	1,441

<sup>1</sup> Includes fuel oil, propane, and purchased steam, not shown separately.

Source: U.S. Energy Information Administration, *Nonresidential Buildings Energy Consumption Survey: Commercial Buildings, Consumption and Expenditure, 1986*.

**No. 959. Fossil Fuel Prices in Current and Constant (1982) Dollars: 1970 to 1989**

[In cents per million British thermal units (Btu), except as indicated. All fuel prices taken as close to the point of production as possible. See text, section 19, for explanation of Btu conversions from mineral fuels. Minus sign (-) indicates decrease]

FUEL	1970	1973	1975	1979	1980	1982	1983	1984	1985	1986	1987	1988	1989, prel.
<b>CURRENT DOLLARS</b>													
Composite <sup>1</sup>	31.7	39.8	82.5	141.7	204.2	275.8	270.1	264.6	251.2	165.3	170.0	153.3	166.6
Crude oil	54.8	67.1	132.2	217.9	372.2	491.7	451.8	446.2	415.3	215.7	265.5	216.9	273.3
Natural gas	15.4	20.1	40.2	108.1	144.8	222.2	232.3	239.9	225.7	174.8	150.2	152.4	154.2
Bituminous coal	26.2	36.5	83.9	105.3	109.4	122.1	117.2	115.9	114.8	108.2	104.9	100.8	96.5
Anthracite coal	48.8	61.7	149.5	177.2	185.9	214.0	230.0	208.7	204.2	191.1	188.9	189.8	189.1
<b>CONSTANT (1982) DOLLARS</b>													
Composite <sup>1</sup>	75.5	80.4	138.4	180.3	238.3	275.8	260.0	245.7	225.9	145.1	144.8	126.4	131.9
Crude oil	130.5	135.6	222.9	277.2	434.3	491.7	434.6	414.3	373.5	189.4	226.1	178.8	216.4
Natural gas	36.7	40.6	67.8	137.5	169.0	222.2	223.6	222.7	203.0	153.5	127.9	125.6	122.1
Bituminous coal	62.4	73.7	141.5	134.0	127.7	122.1	112.8	107.6	103.2	95.0	89.4	83.1	76.4
Anthracite coal	116.2	124.6	252.1	225.4	216.9	214.0	221.4	193.8	183.6	167.8	160.9	156.5	149.7
GNP price deflator <sup>3</sup> (1982=100)	42.0	49.5	59.3	78.6	85.7	100.0	103.9	107.7	110.9	113.9	117.4	121.3	126.3

<sup>1</sup> Weighted by relative importance of individual fuels in total fuels production. <sup>2</sup> Includes lignite. <sup>3</sup> GNP=Gross national product; see text, section 15.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

**No. 960. World Energy Consumption, by Region and Energy Source: 1960 to 1988**

[In tons of coal equivalent. Metric ton=1.1023 short tons. Kilogram=2.205 pounds. See text, section 31 for general comments about the data]

REGION AND ENERGY SOURCE	COMSUMPTION (mil. metric tons)					PER CAPITA (kilograms)				PERCENT DISTRIBUTION			
	1960	1970	1980	1987	1988	1960	1970	1980	1988	1960	1970	1980	1988
<b>World, total</b>	<b>3,924</b>	<b>6,440</b>	<b>8,544</b>	<b>9,655</b>	<b>10,013</b>	<b>1,302</b>	<b>1,748</b>	<b>1,919</b>	<b>1,959</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
North America <sup>1</sup>	1,589	2,502	2,796	2,812	2,822	5,951	7,825	7,480	7,011	40.7	38.9	32.7	29.2
United States	1,454	2,217	2,364	2,366	2,458	8,047	10,811	10,386	10,015	37.1	34.4	27.7	24.5
South America	79	143	251	232	297	535	749	1,046	1,042	2.0	2.2	2.9	3.0
Europe	1,039	1,720	2,145	2,192	2,190	2,443	3,745	4,433	4,418	26.5	26.7	25.1	21.9
Asia	514	903	1,579	2,140	2,265	276	386	607	752	13.1	14.0	18.5	22.6
Japan	96	333	435	445	480	1,025	3,246	3,726	3,921	2.4	5.2	5.1	4.8
Soviet Union	595	999	1,473	1,862	1,954	2,777	4,132	5,549	6,888	15.2	15.5	17.2	19.5
Oceania	41	71	105	130	134	2,597	3,675	4,572	5,189	1.0	1.1	1.2	1.3
<b>Energy source:</b>													
Solid fuels	1,940	2,159	2,632	3,168	3,299	644	586	591	645	49.4	33.5	30.8	32.9
Liquid fuels	1,306	2,835	3,778	3,771	3,922	433	770	848	794	33.3	44.0	44.2	39.1
Natural gas	593	1,292	1,834	2,249	2,302	197	351	412	449	15.1	20.1	21.5	23.0
Electricity	84	154	301	466	490	28	42	68	95	2.1	2.4	3.5	5.0

<sup>1</sup> Includes Central America.

Source: Statistical Office of the United Nations, New York, NY, *Energy Statistics Yearbook*, annual. (Copyright.)

**No. 961. World Primary Energy Production, by Region and Type: 1973 to 1988**

[In quadrillion Btu. Btu=British thermal units. For Btu conversion factors, see source]

REGION AND TYPE	1973	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
<b>World total</b>	<b>244.8</b>	<b>245.0</b>	<b>287.3</b>	<b>286.6</b>	<b>281.7</b>	<b>280.0</b>	<b>282.1</b>	<b>296.8</b>	<b>304.2</b>	<b>314.0</b>	<b>321.9</b>	<b>333.1</b>
North America	73.3	71.1	78.2	80.5	80.9	81.3	78.9	84.6	84.1	82.8	84.1	86.0
United States	62.0	59.8	63.7	64.7	64.3	63.8	61.1	65.7	64.6	64.0	64.6	65.4
Central and South America	12.9	10.6	12.2	12.1	12.1	12.0	12.2	13.1	13.4	14.1	14.1	15.0
Western Europe	19.6	21.4	27.4	28.7	29.7	30.7	31.9	32.4	35.0	35.8	36.5	36.8
Eastern Europe and Soviet Union	51.4	55.9	66.1	69.2	69.7	72.2	74.2	76.5	78.6	81.5	83.5	85.2
Middle East	46.6	43.5	48.5	42.2	36.7	29.5	27.3	27.7	25.7	30.6	32.1	36.4
Africa	14.8	13.3	18.1	17.4	15.1	15.4	16.1	17.5	18.4	18.1	18.5	19.4
Far East and Oceania	26.2	29.3	36.7	36.5	37.5	38.9	41.5	45.1	49.0	51.1	53.1	54.2
Crude oil	117.8	111.6	131.8	127.6	119.5	113.9	113.4	116.2	114.7	119.5	120.4	125.4
Natural gas	43.2	43.9	51.6	52.8	54.2	53.7	54.1	59.1	61.4	62.6	65.6	67.1
Natural gas liquids	4.2	4.4	5.2	5.5	5.8	5.8	5.8	6.1	6.2	6.5	6.9	7.2
Coal	63.8	66.3	74.6	75.0	75.2	76.4	78.5	82.2	86.1	88.3	90.4	93.0
Hydroelectric power	13.5	15.0	17.6	18.2	18.4	18.9	19.8	20.4	20.7	20.9	21.1	21.3
Nuclear electric power	2.2	3.9	6.7	7.5	8.5	9.3	10.6	12.8	15.2	16.3	17.6	19.1

Source: U.S. Energy Information Administration, *International Energy Annual*.

## No. 962. U.S. Foreign Trade in Selected Mineral Fuels: 1970 to 1989

[Btu=British thermal units. For Btu conversion factors, see text, section 19. Minus sign (-) indicates an excess of imports over exports. See also *Historical Statistics, Colonial Times to 1970*, series M 100, 101, 127, 128, 140, 141, 178, and 181]

MINERAL FUEL	1970	1973	1975	1979	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>NATURAL GAS</b>													
Imports:													
Bil. cu. ft.	820.8	1,032.9	953.0	1,253.4	984.8	933.3	919.8	843.1	949.7	750.4	992.5	1,293.8	1,378.0
Tril. Btu.	846	1,060	978	1,300	1,006	950	942	847	952	748	992	1,296	1,381
Exports:													
Bil. cu. ft.	69.8	77.2	72.7	55.7	48.7	51.7	54.6	54.8	55.3	61.3	54.0	73.6	70.0
Tril. Btu.	72	79	74	56	49	52	55	55	56	62	55	75	71
Net trade:													
Bil. cu. ft.	-751.0	-955.7	-880.3	-1,197.7	-936.0	-881.6	-865.1	-788.3	-894.4	-689.2	-938.5	-1,220.2	-1,308.0
Tril. Btu.	-774	-981	-904	-1,243	-957	-898	-887	-792	-896	-686	-937	-1,221	-1,309
<b>CRUDE OIL</b>													
Imports:													
Mill. barrels	483	1,184	1,498	2,380	1,926	1,273	1,215	1,254	1,168	1,525	1,706	1,869	2,120
Tril. Btu.	2,814	6,887	8,721	13,825	11,195	7,418	7,079	7,302	6,814	8,892	10,067	11,027	12,513
Exports:													
Mill. barrels	5	1	2	86	105	86	60	66	75	56	55	57	52
Tril. Btu.	29	4	12	497	609	500	348	384	432	326	319	329	300
Net trade:													
Mill. barrels	-478	-1,183	-1,496	-2,294	-1,821	-1,187	-1,155	-1,188	-1,093	-1,469	-1,651	-1,812	-2,068
Tril. Btu.	-2,785	-6,883	-8,709	-13,328	-10,586	-6,918	-6,731	-6,918	-6,382	-8,566	-9,748	-10,698	-12,214
<b>PETROLEUM PRODUCTS</b>													
Imports:													
Mill. barrels	765	1,099	712	707	603	593	629	736	681	747	731	840	792
Tril. Btu.	4,656	6,578	4,227	4,108	3,463	3,359	3,568	4,131	3,796	4,199	4,095	4,890	4,622
Exports:													
Mill. barrels	89	84	74	86	94	211	210	198	211	230	224	242	262
Tril. Btu.	520	482	427	505	551	1,224	1,217	1,161	1,225	1,344	1,311	1,412	1,533
Net trade:													
Mill. barrels	-676	-1,015	-638	-621	-509	-382	-419	-538	-470	-516	-507	-598	-531
Tril. Btu.	-4,136	-6,097	-3,800	-3,603	-2,912	-2,135	-2,351	-2,970	-2,571	-2,855	-2,784	-3,478	-3,068
<b>COAL</b>													
Imports:													
1,000 sh. tons	36	127	940	2,059	1,194	742	1,271	1,286	1,952	2,212	1,747	2,134	2,851
Tril. Btu.	1	3	24	51	30	19	32	32	49	55	44	53	71
Exports:													
1,000 sh. tons	71,733	53,587	66,309	66,042	91,742	106,277	77,772	81,482	92,880	85,518	79,607	95,023	100,815
Tril. Btu.	1,936	1,425	1,761	1,753	2,421	2,787	2,045	2,151	2,438	2,248	2,093	2,499	2,653
Net trade:													
1,000 sh. tons	71,697	53,460	65,369	63,983	90,548	105,535	76,501	80,196	90,728	83,306	77,860	92,889	97,964
Tril. Btu.	1,935	1,422	1,738	1,702	2,391	2,768	2,013	2,119	2,389	2,193	2,049	2,446	2,581

<sup>1</sup> Beginning 1979, includes strategic petroleum reserve imports.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

## No. 963. Daily International Flow of Crude Oil, by Area: 1987

[In thousands of barrels per day]

EXPORTING AREA	Total	IMPORTING AREA							
		North America		Central and South America	Western Europe	Eastern Europe	Middle East and Africa	Japan	Other Far East and Oceania
		U.S.	Canada						
World total . . . . .	24,476	4,674	400	1,676	8,651	2,044	1,125	3,090	2,816
United States . . . . .	151	(X)	17	131	-	-	-	-	3
North America, except U.S. . . . .	1,957	1,210	17	102	409	-	39	168	13
Central and South America . . . . .	1,413	706	46	444	172	-	18	5	22
Western Europe . . . . .	2,597	375	218	4	1,965	12	23	-	-
Eastern Europe and Soviet Union . . . . .	2,699	-	-	96	976	1,459	57	1	110
Middle East . . . . .	9,800	985	59	663	2,891	464	771	2,102	1,865
Africa . . . . .	3,826	997	43	175	2,218	92	185	16	98
Far East and Oceania . . . . .	2,034	401	-	61	20	17	32	798	705

- Represents zero. X Not applicable. <sup>1</sup> Includes shipments to Puerto Rico and Virgin Islands.

Source: U.S. Energy Information Administration, *International Energy Annual*.

## No. 964. Crude Oil Imports Into U.S., by Country of Origin: 1970 to 1989

(In millions of barrels. Barrels contain 42 gallons)

COUNTRY OF ORIGIN	1970	1973	1975	1979	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>Total</b>	<b>483</b>	<b>1,184</b>	<b>1,498</b>	<b>2,380</b>	<b>1,926</b>	<b>1,273</b>	<b>1,215</b>	<b>1,254</b>	<b>1,168</b>	<b>1,525</b>	<b>1,706</b>	<b>1,869</b>	<b>2,132</b>
Canada	245	365	219	99	73	78	100	125	171	208	222	249	230
Mexico	-	(Z)	26	160	186	235	280	241	261	227	220	227	261
Norway	-	-	5	28	53	37	24	41	11	19	25	23	46
Trinidad-Tobago	(Z)	22	42	45	42	34	30	32	36	34	27	26	27
United Kingdom	-	-	-	72	63	161	133	138	102	116	111	93	58
<b>OPEC<sup>1</sup></b>	<b>222</b>	<b>767</b>	<b>1,171</b>	<b>1,866</b>	<b>1,414</b>	<b>633</b>	<b>540</b>	<b>553</b>	<b>479</b>	<b>771</b>	<b>876</b>	<b>987</b>	<b>1,222</b>
Algeria	2	44	96	222	167	33	64	71	31	28	42	21	22
Ecuador	-	17	21	11	6	12	21	17	20	23	8	12	29
Gabon	-	-	10	15	9	14	21	21	19	9	13	6	18
Indonesia	26	73	138	139	115	82	115	111	107	108	96	68	58
Iran	12	79	102	108	3	13	18	4	10	7	36	-	-
Iraq	-	2	(Z)	32	10	1	4	5	17	29	30	126	161
Kuwait	12	15	1	2	10	1	3	9	1	10	26	29	57
Libya	17	49	81	234	200	8	-	-	-	-	-	-	-
Nigeria	17	164	272	390	308	186	110	76	102	160	193	222	282
Qatar	-	3	7	11	8	3	-	1	-	4	-	-	-
Saudi Arabia	15	169	256	492	458	194	117	113	48	226	234	330	407
United Arab Emirates	23	26	43	103	63	30	7	33	13	14	21	8	7
Venezuela	98	126	144	107	57	56	60	93	112	152	178	161	181
Other	16	30	35	110	95	95	108	124	109	150	225	264	288

- Represents zero. Z Less than 500,000 barrels. <sup>1</sup>Organization of Petroleum Exporting Countries.Source: 1970-1975, U.S. Bureau of Mines, *Minerals Yearbook and Mineral Industry Surveys*; 1979-1980, U.S. Energy Information Administration, *Petroleum Statement*, annual; thereafter, U.S. Energy Information Administration, *Petroleum Supply Annual*.

## No. 965. Crude Oil and Refined Products—Summary: 1973 to 1990

(Barrels of 42 gallons. Data are averages)

YEAR AND QUARTER	CRUDE OIL (1,000 bbl. per day)				REFINED OIL PRODUCTS (1,000 bbl. per day)				Total oil imports <sup>2</sup> (1,000 bbl. per day)	CRUDE OIL STOCKS <sup>3</sup> (mil. bbl.)	
	Input to refin- eries	Domestic produc- tion	Imports		Exports	Domestic demand	Imports	Exports		Total	Stra- tegic reserve
			Total <sup>1</sup>	Stra- tegic reserve							
1973	12,431	9,208	3,244	(X)	2	17,308	3,012	229	6,256	242	(X)
1974	12,133	8,774	3,477	(X)	3	16,653	2,635	218	6,112	265	(X)
1975	12,442	8,375	4,105	(X)	6	16,322	1,951	204	6,056	271	(X)
1976	13,416	8,132	5,287	(X)	8	17,461	2,026	215	7,313	285	(X)
1977	14,602	8,245	6,615	21	50	18,431	2,193	193	8,807	348	7
1978	14,739	8,707	6,356	162	158	18,847	2,008	204	8,363	376	67
1979	14,648	8,552	6,549	67	235	18,513	1,937	236	8,456	430	91
1980	13,481	8,597	5,263	44	287	17,056	1,646	258	6,909	466	108
1981	12,470	8,572	4,396	256	228	16,058	1,599	367	5,996	594	230
1982	11,774	8,649	3,488	165	236	15,296	1,625	579	5,113	644	294
1983	11,685	8,688	3,329	234	164	15,231	1,722	575	5,051	723	379
1984	12,044	8,879	3,426	197	181	15,726	2,011	541	5,437	796	451
1985	12,002	8,971	3,201	118	204	15,726	1,866	577	5,067	814	493
1986	12,716	8,680	4,178	48	154	16,281	2,045	631	6,224	843	512
1987	12,854	8,349	4,674	73	151	16,665	2,004	613	6,678	890	541
1988	13,246	8,140	5,107	51	155	17,283	2,295	661	7,402	890	580
1989	13,401	7,613	5,843	56	142	17,325	2,217	717	8,061	921	580
1st qtr	13,019	7,767	5,333	75	167	17,726	2,581	665	7,914	895	564
2d qtr	13,422	7,737	5,818	64	171	16,889	2,126	688	7,944	909	570
3d qtr	13,833	7,512	6,269	55	88	16,869	2,042	713	8,310	912	575
4th qtr	13,315	7,442	5,940	30	143	17,824	2,134	802	8,073	922	579
1990: <sup>4</sup>											
1st qtr	13,290	7,460	6,063	27	122	17,025	2,396	682	8,459	938	581
2d qtr	13,368	7,190	6,309	42	115	16,973	2,216	641	8,525	965	585

X Not applicable. <sup>1</sup> Includes Strategic Petroleum Reserve. <sup>2</sup> Crude oil (including Strategic Petroleum Reserve imports) plus refined products. <sup>3</sup> End of year or quarter. <sup>4</sup> Preliminary.Source: U.S. Energy Information Administration, *Monthly Energy Review*, April 1990.

**No. 966. Strategic Petroleum Reserve: 1977 to 1990**

[Million barrels, except as noted. The Strategic Petroleum Reserve is a stock of petroleum maintained by the Federal Government for use during periods of major supply interruption]

YEAR	Crude oil imports	Domestic crude oil deliveries	STOCKS AT YEAREND			Days of net petroleum imports <sup>3</sup>
			Quantity <sup>1</sup>	Percent of crude oil stocks <sup>2</sup>	Percent of total petroleum stocks	
1977	7.54	40.37	7.46	2.1	0.6	1
1980	16.07	1.30	107.80	23.1	7.7	17
1981	93.30	28.79	230.34	38.8	15.5	43
1982	60.19	3.79	293.83	45.7	20.5	68
1983	85.29	0.42	379.09	52.4	26.1	88
1984	72.04	0.05	450.51	56.6	28.9	96
1985	43.12	0.17	493.32	60.6	32.5	115
1986	17.56	1.21	511.57	60.7	32.1	94
1987	26.52	2.69	540.65	60.8	33.6	91
1988	18.76	(Z)	559.52	62.9	35.0	85
1989	20.35	-	578.86	62.9	36.7	81
1990	9.77	-	585.69	64.5	36.1	83

- Represents zero. Z Less than .005 million barrels. <sup>1</sup> Stocks do not include imported quantities in transit to Strategic Petroleum Reserve terminals, pipeline fill, and above ground storage. <sup>2</sup> Including lease condensate stocks. <sup>3</sup> Derived by dividing end-of-year strategic petroleum reserve stocks by annual average daily net imports of all petroleum. Calculated prior to rounding. <sup>4</sup> The quantity of domestic fuel oil which was in storage prior to injection of foreign crude oil.

Source: U.S. Energy Information Administration, *Annual Energy Review* and *Petroleum Supply Monthly*. Also *Petroleum Supply Annual*.

**No. 967. World Petroleum Consumption, by Major Consuming Country: 1970 to 1990**

[Million barrels per day. OECD = Organization for Economic Cooperation Development. For a complete list of OECD countries, see Section 31]

COUNTRY	1970	1973	1975	1980	1983	1984	1985	1986	1987	1988	1989	1990 <sup>1</sup>
World, total . . .	48.47	56.47	55.35	63.14	58.86	59.92	59.94	61.46	62.73	(NA)	(NA)	(NA)
OECD countries, total .	33.22	39.61	36.60	38.60	33.79	34.50	34.27	35.28	35.91	37.09	37.61	37.55
United States . . . . .	14.70	17.31	16.32	17.06	15.23	15.73	15.73	16.28	16.67	17.28	17.33	16.92
Australia . . . . .	0.51	0.59	0.60	0.59	0.59	0.61	0.63	0.63	0.64	0.67	( <sup>2</sup> )	( <sup>2</sup> )
Canada . . . . .	1.49	1.71	1.72	1.87	1.45	1.47	1.50	1.51	1.55	1.69	1.76	1.72
France . . . . .	1.89	2.42	2.14	2.26	1.84	1.75	1.78	1.77	1.79	1.80	1.66	1.86
West Germany . . . .	2.43	2.92	2.52	2.71	2.32	2.32	2.34	2.50	2.42	2.42	2.28	2.32
Italy . . . . .	1.84	2.15	1.94	1.93	1.75	1.65	1.72	1.74	1.86	1.84	1.94	1.87
Japan . . . . .	3.85	5.07	4.50	4.96	4.40	4.58	4.38	4.44	4.48	4.75	4.98	5.28
Spain . . . . .	0.56	0.74	0.84	0.99	1.01	0.91	0.85	0.88	0.90	0.96	( <sup>2</sup> )	( <sup>2</sup> )
United Kingdom . . .	2.09	2.30	1.87	1.73	1.53	1.85	1.63	1.65	1.60	1.70	1.75	1.81
Other OECD . . . . .	3.87	4.41	4.16	4.50	3.67	3.63	3.72	3.90	4.00	3.99	( <sup>2</sup> )	( <sup>2</sup> )
Brazil . . . . .	0.51	0.77	0.87	1.16	1.01	1.07	1.13	1.30	1.32	1.35	(NA)	(NA)
China . . . . .	0.62	1.12	1.36	1.77	1.73	1.74	1.78	1.92	2.08	2.13	(NA)	(NA)
Mexico . . . . .	0.50	0.61	0.74	1.27	1.43	1.48	1.53	1.47	1.52	1.53	(NA)	(NA)
U.S.S.R. . . . .	5.30	6.57	7.47	9.00	8.95	8.91	8.95	8.98	9.00	8.86	(NA)	(NA)

NA Not available. <sup>1</sup> Preliminary. Represents average of January through April. <sup>2</sup> Included in OECD total.

Source: U.S. Energy Information Administration, *Annual Energy Review*, and *Monthly Energy Review*, August 1990 issue.

**No. 968. Energy Producing Companies—Selected Financial and Investment Indicators: 1978 to 1988**

[Based on data from major publicly-owned domestic crude oil producing companies which either had at least one percent of domestic production or reserves of oil, natural gas, coal, or uranium, or at least one percent of refining capacity or petroleum product sales. There were 26 companies during 1978 through 1982; 25 in 1983; 22 during 1984 through 1987; and 23 in 1988]

ITEM	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
<b>INCOME STATEMENT (bil. dol.)</b>											
Operating revenues . . . . .	294.8	392.6	518.6	575.7	549.7	511.0	517.4	492.5	378.5	417.4	419.8
Operating expenses . . . . .	265.0	345.8	455.9	520.8	504.2	462.8	467.3	444.2	354.4	383.7	381.6
Operating income . . . . .	29.8	46.8	62.7	54.8	45.5	48.2	50.1	48.3	24.0	33.7	38.2
Pretax income . . . . .	30.2	48.6	66.9	60.0	45.2	47.4	47.6	43.6	20.6	25.0	34.3
Net income . . . . .	13.9	23.5	31.0	30.0	21.8	21.9	21.3	17.4	9.2	11.3	22.3
Funds from operations . . . .	31.2	45.4	59.0	61.6	60.4	60.7	63.6	63.5	53.1	51.6	57.8
<b>BALANCE SHEET (bil. dol.)</b>											
Net property, plant, and equipment . . . . .	138.1	159.3	188.9	224.9	265.5	278.4	292.4	297.7	291.1	297.6	293.6
Net investment in place <sup>2</sup> . . . . .	148.1	169.9	202.6	240.8	282.5	296.3	309.1	315.4	310.0	316.4	309.6
Total assets . . . . .	237.1	282.8	333.0	372.5	411.9	421.8	442.9	438.4	427.0	443.6	437.8
<b>RATIOS (percent)</b>											
Net income to operating revenues . . . . .	4.7	6.0	6.0	5.2	4.0	4.3	4.1	3.5	2.4	2.7	5.3
Net income to total assets . . . . .	5.9	8.3	9.3	8.0	5.3	5.2	5.0	4.0	2.2	2.5	5.1
Net income to stockholders' equity . . . . .	12.8	18.8	21.1	18.1	11.9	11.4	12.1	10.5	5.6	6.8	13.5
Long-term debt to stockholders' equity <sup>3</sup> . . . .	35.6	33.7	31.5	32.2	37.1	34.8	49.5	54.3	56.0	57.6	56.6
Long-term debt to total assets <sup>3</sup> . . . . .	16.3	14.9	13.9	14.3	16.6	15.9	20.6	20.5	21.6	21.5	21.3

<sup>1</sup> The sum of net income, depreciation, depletion and amortization, deferred taxes, dry hole expenses, etc. <sup>2</sup> Composed of net property, plant and equipment plus investment and advances to unconsolidated subsidiaries. <sup>3</sup> Long-term debt includes amounts applicable to capitalized leases.

Source: U.S. Energy Information Administration, *Performance Profiles of Major Energy Producers*, annual.

### No. 969. Petroleum and Coal Products Corporations—Sales, Net Profit, and Profit Per Dollar of Sales: 1975 to 1989

[Represents SIC group 29. Profit rates are averages of quarterly figures at annual rates. Beginning 1986, excludes estimates for corporations with less than \$250,000 in assets]

ITEM	Unit	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Sales	Bil. dol.	121.8	242.7	333.2	376.1	357.1	312.7	338.4	320.9	226.5	248.3	252.2	265.3
Net profit:													
Before income taxes	Bil. dol.	13.3	32.2	39.1	35.3	27.8	27.1	24.5	17.7	9.8	14.2	27.3	23.7
After income taxes	Bil. dol.	9.3	21.9	25.5	23.7	19.7	19.3	17.2	12.7	8.8	10.9	21.2	19.5
Depreciation <sup>1</sup>	Bil. dol.	5.6	9.5	11.6	13.7	16.3	17.5	20.7	22.1	21.9	20.3	20.0	18.5
Profits per dollar of sales:													
Before income taxes	Cents	10.9	13.3	11.7	9.4	7.8	8.7	7.2	5.5	4.1	5.8	10.8	9.0
After income taxes	Cents	7.6	9.0	7.7	6.3	5.5	6.2	5.1	4.0	3.8	4.5	8.5	7.4
Profits on stockholders' equity:													
Before income taxes	Percent	17.9	30.0	30.7	25.6	18.7	17.8	14.3	11.7	6.8	10.1	19.2	17.8
After income taxes	Percent	12.5	20.4	20.0	17.2	13.2	12.7	10.0	8.5	6.1	7.7	14.9	14.6

<sup>1</sup> Includes depletion and accelerated amortization of emergency facilities.

Source: Through 1981, U.S. Federal Trade Commission and, beginning 1982, U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*.

### No. 970. Major Petroleum Companies—Financial Data Summary: 1973 to 1989

[Data represent a composite of approximately 42 major worldwide petroleum companies aggregated on a consolidated, total company basis]

ITEM	1973	1975	1979	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>FINANCIAL DATA (bil. dol.)</b>												
Net income	11.8	11.6	32.8	32.9	21.1	20.6	22.7	19.4	10.8	15.0	24.6	24.1
Depreciation, depletion, etc.	10.5	11.3	24.9	32.5	37.2	37.4	45.3	53.0	43.7	45.0	34.3	35.0
Cash flow <sup>1</sup>	22.3	22.8	57.7	65.4	58.3	58.1	68.0	72.4	54.5	60.0	58.9	59.1
Dividends paid	4.0	4.7	8.0	9.3	10.6	10.5	11.6	12.0	12.1	12.4	14.0	14.9
Net internal funds available for investment or debt repayment	18.3	18.1	49.7	56.1	47.7	47.6	56.4	60.4	42.4	47.6	44.9	44.2
Capital and exploratory expenditures	16.3	26.9	51.1	62.1	67.8	50.7	57.5	58.3	38.3	50.1	62.4	59.4
Long-term capitalization	102.9	121.1	196.9	211.4	243.8	240.0	285.7	272.1	279.9	282.2	287.8	290.2
Long-term debt	22.5	28.9	48.1	49.8	62.6	61.0	95.8	93.5	95.5	86.4	86.5	91.6
Preferred stock	0.4	0.4	0.9	2.0	3.5	3.5	5.2	3.3	3.7	4.1	4.5	4.6
Common stock and retained earnings <sup>3</sup>	80.0	91.9	147.9	159.6	177.7	175.5	184.7	175.3	180.7	189.7	194.8	194.0
Excess of expenditures over cash income <sup>4</sup>	-2.0	8.9	1.4	6.0	20.1	3.1	1.1	-2.1	3.0	-2.5	17.5	15.2
<b>RATIOS<sup>5</sup> (percent)</b>												
Long-term debt to long-term capitalization <sup>4</sup>	22.0	23.8	24.4	23.6	25.7	25.4	33.5	34.4	34.1	31.3	30.8	31.6
Net income to total average capital	12.0	10.0	17.8	17.0	8.6	8.8	8.6	7.0	4.0	4.6	8.6	8.3
Net income to average common equity	15.6	13.1	24.0	22.5	11.5	12.0	12.5	10.8	6.2	7.3	12.8	12.4

<sup>1</sup> Generally represents internally-generated funds from operations. Sum of net income and noncash charges such as depreciation, depletion, and amortization. <sup>2</sup> Cash flow minus dividends paid. <sup>3</sup> Includes common stock, capital surplus, and earned surplus accounts after adjustments. <sup>4</sup> Capital and exploratory expenditures plus dividends paid minus cash flow. <sup>5</sup> Represents approximate year-to-year comparisons because of changes in the makeup of the group due to mergers and other corporate changes.

Source: Carl H. Pforzheimer & Co., New York, NY, *Comparative Oil Company Statements, 1989-1988*, and earlier reports.

### No. 971. Electric Utility Sales and Average Prices, by End-Use Sector: 1970 to 1989

[Prior to 1980, covers Class A and B privately-owned electric utilities; thereafter, Class A utilities whose electric operating revenues were \$100 million or more during the previous year]

YEAR	SALES (bil. kWh)				AVERAGE PRICE OF ELECTRICITY SOLD (cents per kWh)							
	Total <sup>1</sup>	Residential	Commercial	Industrial	Current dollars				Constant (1982) dollars <sup>2</sup>			
					Total <sup>1</sup>	Residential	Commercial	Industrial	Total <sup>1</sup>	Residential	Commercial	Industrial
1970	1,392	466	307	571	1.67	2.22	2.08	1.02	3.98	5.29	4.95	2.43
1973	1,713	579	388	686	1.96	2.54	2.41	1.25	3.96	5.13	4.87	2.53
1975	1,747	588	403	688	2.92	3.51	3.45	2.07	4.92	5.92	5.82	3.49
1976	1,855	606	425	754	3.09	3.73	3.69	2.21	4.90	5.91	5.85	3.50
1977	1,948	645	447	786	3.42	4.05	4.09	2.50	5.08	6.02	6.08	3.71
1978	2,018	674	461	809	3.69	4.31	4.36	2.79	5.11	5.97	6.04	3.86
1979	2,071	683	473	842	3.99	4.64	4.68	3.05	5.08	5.90	5.95	3.88
1980	2,094	717	488	815	4.73	5.36	5.48	3.69	5.52	6.25	6.39	4.31
1981	2,147	722	514	826	5.46	6.20	6.29	4.29	5.81	6.60	6.69	4.56
1982	2,086	730	526	745	6.13	6.86	6.86	4.95	6.13	6.86	6.86	4.95
1983	2,151	751	544	776	6.30	7.18	7.02	4.96	6.06	6.91	6.76	4.77
1984	2,286	780	583	838	6.25	7.15	7.13	4.83	5.80	6.64	6.62	4.48
1985	2,324	794	606	837	6.44	7.39	7.27	4.97	5.81	6.66	6.56	4.48
1986	2,369	819	631	831	6.44	7.42	7.20	4.93	5.85	6.51	6.32	4.33
1987	2,457	850	660	858	6.37	7.45	7.08	4.77	5.43	6.35	6.03	4.06
1988	2,578	893	699	886	6.35	7.48	7.04	4.70	5.23	6.17	5.80	3.87
1989	2,634	904	724	915	6.44	7.64	7.21	4.72	5.10	6.05	5.71	3.74

<sup>1</sup> Includes other sectors not shown separately. <sup>2</sup> Based on the GNP implicit price deflator; see table 779.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

# **No. 972. Electric Utility Industry-Electric Energy Net Generation, and Net Summer Capability by Type of Prime Mover, and Consumption of Fuels: 1970 to 1989**

[Net Generation for calendar years; other data as of December 31. See also *Historical Statistics, Colonial Times to 1970*, series S 32-52, S 78-82, and S 86-107]

ITEM	Unit	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
<b>NET GENERATION</b>											
Total .....	Bil. kWh .....	1,532	1,918	2,286	2,310	2,416	2,470	2,487	2,572	2,704	2,779
Average annual change .....	Percent .....	7.3	4.5	3.5	0.3	4.5	2.2	0.7	3.4	5.0	2.7
Net generation, kWh per kW of net summer capability <sup>2</sup> .....	Rate .....	4,554	3,903	3,952	3,720	3,805	3,771	3,741	3,816	3,990	4,062
Investor owned .....	Bil. kWh .....	1,183	1,487	1,783	1,764	1,849	1,918	1,928	2,022	(NA)	(NA)
Percent of total utilities .....	Percent .....	77.2	77.5	78.0	76.4	76.5	77.7	77.5	78.6	(NA)	(NA)
Publicly owned .....	Bil. kWh .....	349	431	503	546	567	552	559	550	(NA)	(NA)
Municipal .....	Bil. kWh .....	71	82	87	73	75	74	79	86	(NA)	(NA)
Federal .....	Bil. kWh .....	186	221	235	258	254	233	225	205	(NA)	(NA)
Cooperatives and other .....	Bil. kWh .....	91	128	182	215	239	245	255	258	(NA)	(NA)
Source of energy:											
Coal .....	Percent .....	46.0	44.6	51.0	54.8	55.9	57.2	56.2	57.4	57.4	56.2
Nuclear .....	Percent .....	1.4	9.0	11.0	12.7	13.6	15.5	16.6	17.7	19.5	19.1
Oil .....	Percent .....	12.0	15.1	10.8	6.3	5.0	4.1	5.5	4.6	5.5	5.7
Gas .....	Percent .....	24.3	15.6	15.1	11.9	12.3	11.8	10.0	10.6	9.3	9.5
Hydro .....	Percent .....	16.2	15.6	12.1	14.4	13.3	11.4	11.7	9.7	8.2	9.5
Type of prime mover: <sup>4</sup>											
Hydro .....	Bil. kWh .....	248	300	276	332	321	281	291	250	223	264
Steam conventional <sup>5</sup> .....	Bil. kWh .....	1,240	1,414	1,726	1,661	1,742	1,778	1,756	1,837	1,921	1,945
Gas turbine and internal combustion .....	Bil. kWh .....	22	28	28	17	17	16	15	18	22	29
Steam nuclear .....	Bil. kWh .....	22	173	251	294	328	384	414	455	527	529
Other .....	Bil. kWh .....	1	3	6	9	9	11	12	12	12	11
<b>NET SUMMER CAPABILITY</b>											
Total <sup>6</sup> .....	Mill. kW .....	336	491	579	621	635	655	665	674	678	684
Average annual change .....	Percent .....	7.2	7.6	3.3	2.4	2.2	3.1	1.5	1.4	0.5	0.9
Hydro .....	Mill. kW .....	64	78	82	84	85	89	89	90	90	91
Steam conventional <sup>7</sup> .....	Mill. kW .....	248	333	397	425	431	437	441	440	442	444
Gas turbine .....	Mill. kW .....	13	37	43	43	44	44	43	44	44	45
Steam nuclear .....	Mill. kW .....	7	37	52	63	70	79	85	94	95	98
Internal combustion .....	Mill. kW .....	4	5	5	5	5	5	5	5	5	5
Geothermal and other .....	Mill. kW .....	(Z)	1	1	1	1	2	2	2	2	2
<b>NUMBER OF PRIME MOVERS</b>											
Prime movers, total <sup>8</sup> .....	Number .....	9,717	(NA)	11,084	(NA)	(NA)	(NA)	10,611	10,406	(NA)	(NA)
Hydro .....	Number .....	3,108	(NA)	3,275	(NA)	(NA)	(NA)	3,489	3,488	(NA)	(NA)
Steam conventional .....	Number .....	2,813	(NA)	2,862	(NA)	(NA)	(NA)	2,536	2,437	(NA)	(NA)
Gas turbine .....	Number .....	658	(NA)	1,447	(NA)	(NA)	(NA)	1,439	1,408	(NA)	(NA)
Steam nuclear .....	Number .....	16	(NA)	74	(NA)	(NA)	(NA)	99	109	(NA)	(NA)
Internal combustion .....	Number .....	3,118	(NA)	3,410	(NA)	(NA)	(NA)	2,988	2,917	(NA)	(NA)
<b>CONSUMPTION OF FUELS</b>											
Net generation by fuel <sup>9</sup> .....	Bil. kWh .....	1,284	1,818	2,010	1,978	2,095	2,189	2,196	2,322	2,481	2,515
Average annual change <sup>1</sup> .....	Percent .....	7.7	4.6	4.3	-0.5	5.8	4.4	0.3	5.6	6.6	1.4
Coal .....	Bil. kWh .....	704	853	1,162	1,259	1,342	1,402	1,386	1,464	1,541	1,551
Percent of total .....	Percent .....	54.8	52.7	57.8	63.7	64.1	64.0	63.1	63.0	62.1	61.7
Petroleum .....	Bil. kWh .....	184	289	246	144	120	100	137	118	149	158
Gas .....	Bil. kWh .....	373	300	346	274	297	292	249	273	253	264
Nuclear .....	Bil. kWh .....	22	173	251	294	328	384	414	455	527	529
Fuel consumed:											
Total energy equivalent .....	Quad. Btu. ....	13.40	15.19	18.57	17.75	18.53	18.79	18.59	19.37	20.12	20.48
Coal .....	Mill. sh. tons ..	320	406	569	625	664	694	685	718	758	766
Oil .....	Mill. bbl. ....	339	506	421	247	206	174	232	201	250	269
Gas .....	Bil. cu. ft. ....	3,832	3,158	3,682	2,911	3,111	3,044	2,602	2,844	2,636	2,768

NA Not available. Z Less than .5 million kWh. <sup>1</sup> Change from immediate prior year except for 1970, change from 1960. For explanation of average annual percent change, see Guide to Tabular Presentation. <sup>2</sup> Net summer capability is the steady hourly output that generating equipment is expected to supply to system load, exclusive of auxiliary power as demonstrated by test at the time of summer peak demand. <sup>3</sup> Includes small percentage (.5%) from wood and waste, geothermal, and petroleum coke.

<sup>4</sup> A prime mover is the engine, turbine, water wheel, or similar machine which drives an electric generator. <sup>5</sup> Fossil fuels only.

<sup>6</sup> Includes wind, solar thermal, and photovoltaic, not shown separately. <sup>7</sup> Includes fossil steam, wood, and waste. <sup>8</sup> Each prime mover type in combination plants counted separately. Includes geothermal, wind, and solar, not shown separately.

<sup>9</sup> Includes small amounts of wood, waste, wind, geothermal, solar thermal, and photovoltaic.

Source: 1970, U.S. Federal Power Commission, *Electric Power Statistics*, and press releases; thereafter, U.S. Energy Information Administration, 1975 and 1980, *Power Production, Fuel Consumption, and Installed Capacity Data-Annual*, and unpublished data; thereafter, *Electric Power Annual*, *Annual Energy Review*, and unpublished data.

### No. 973. Electric Utility Industry—Capability, Peak Load, and Capacity Margin: 1970 to 1989

[Excludes Alaska and Hawaii. Capability represents the maximum kilowatt output with all power sources available and with hydraulic equipment under actual water conditions, allowing for maintenance, emergency outages, and system operating requirements. Capacity margin is the difference between capability and peak load]

YEAR	CAPABILITY AT THE TIME OF—				NON-COINCIDENT PEAK LOAD		CAPACITY MARGIN			
	Summer peak load (1,000 kW)		Winter peak load <sup>1</sup> (1,000 kW)		Summer	Winter <sup>1</sup>	Summer		Winter <sup>1</sup>	
	Amount	Change from prior year <sup>2</sup>	Amount	Change from prior year <sup>2</sup>			Amount (1,000 kW)	Percent of capa- bility	Amount (1,000 kW)	Percent of capa- bility
1970	326,900	26,600	339,050	27,600	274,650	248,550	52,250	16.0	90,500	26.7
1975	479,300	34,900	492,450	25,050	356,800	331,100	122,500	25.6	161,350	32.9
1976	498,750	19,450	511,000	18,550	370,900	349,850	127,850	25.6	161,150	31.5
1977	516,000	17,250	537,600	26,600	396,350	360,200	119,650	23.2	177,400	33.0
1978	545,700	29,700	561,550	23,950	408,050	383,100	137,650	25.2	178,450	31.8
1979 <sup>3</sup>	544,506	(X)	554,525	(X)	398,424	368,876	146,082	26.8	185,649	33.5
1980	558,237	13,731	572,195	17,670	427,058	384,567	131,179	23.5	187,628	32.8
1981	572,219	13,982	586,569	14,374	428,295	397,800	143,924	25.2	188,769	32.2
1982	586,142	13,923	598,066	11,497	414,909	373,985	171,233	29.2	224,081	37.5
1983	596,449	10,307	612,453	14,387	447,526	410,779	148,923	25.0	201,674	32.9
1984	604,240	7,791	622,125	9,673	451,150	436,374	153,090	25.3	185,751	29.9
1985	621,597	17,357	636,475	14,350	460,503	423,660	161,094	25.9	212,815	33.4
1986	633,291	11,694	646,721	10,246	476,993	422,857	156,298	24.7	223,864	34.6
1987	648,118	14,827	662,977	16,256	496,185	448,277	151,933	23.4	214,700	32.4
1988	661,580	13,462	676,940	13,963	529,460	466,533	132,120	20.0	210,407	31.1
1989	669,352	7,772	(NA)	(NA)	523,432	496,378	145,920	21.8	(NA)	(NA)

X Not applicable. NA Not available. <sup>1</sup> Prior to 1973, data was for the month of December. <sup>2</sup> For 1970 and 1975, change from 1969 and 1974, respectively. <sup>3</sup> Beginning 1979, data are not entirely comparable with prior years due to change in data source.

Source: Edison Electric Institute, Washington, DC, *Statistical Yearbook of the Electric Utility Industry*, annual.

### No. 974. Electric Energy—Net Generation, 1980 to 1989, and Installed Generating Capacity, 1980 and 1988, by State

[Capacity as of Dec. 31. Covers utilities for public use]

DIVISION AND STATE	NET GENERATION (bil. kWh)				INSTALLED CAPACITY (mil. kW)		DIVISION AND STATE	NET GENERATION (bil. kWh)				INSTALLED CAPACITY (mil. kW)	
	1980	1988	1989		1980	1988		1980	1988	1989		1980	1988
			Total	Per- cent from coal						Total	Per- cent from coal		
U.S. ....	2,286.4	2,704.3	2,778.6	55.8	613.5	723.9	VA	34.3	45.2	43.4	55.5	11.7	13.6
N.E. ....	78.2	93.4	97.4	17.7	21.1	22.6	WV	70.8	81.3	82.9	99.1	15.2	15.2
ME	7.9	9.5	11.6	-	2.4	2.4	NC	72.1	78.4	87.1	58.0	15.6	20.9
NH	6.0	7.0	7.1	43.1	1.6	1.4	SC	41.9	65.2	67.0	35.5	11.7	16.3
VT	3.8	5.0	4.8	0.0	0.9	1.1	GA	63.3	82.4	92.4	68.6	16.3	21.7
MA	34.8	34.7	39.2	30.9	9.6	10.0	FL	95.9	124.1	124.3	47.8	29.0	36.0
RI	1.0	0.8	0.5	-	0.3	0.3	E.S.C.	214.1	228.9	243.4	71.4	53.3	61.9
CT	24.7	36.4	34.3	6.1	6.3	7.4	KY	57.1	76.4	70.8	93.6	13.6	16.6
M.A.	260.5	317.8	326.0	42.8	78.4	83.7	TN	60.2	60.0	74.0	62.6	15.9	18.2
NY	108.6	124.7	130.1	19.4	31.4	33.2	AL	78.3	67.5	77.6	67.8	18.2	19.9
NJ	29.4	40.2	41.1	20.4	12.6	14.6	MS	18.5	25.1	21.1	41.4	5.5	7.2
PA	122.5	152.9	154.8	68.4	34.4	35.9	W.S.C.	313.1	355.8	362.8	49.4	84.7	104.5
E.N.C.	397.0	465.2	482.6	73.7	107.9	121.4	AR	19.7	33.8	33.4	55.7	7.2	9.8
OH	110.2	124.0	131.3	89.6	27.4	27.6	LA	45.7	56.8	52.7	34.3	12.9	18.2
IN	70.6	84.0	88.6	98.6	17.1	21.5	OK	44.6	44.0	44.5	54.2	11.3	13.6
IL	103.4	123.3	126.8	40.3	29.9	36.9	TX	203.0	221.2	232.3	51.0	53.3	62.9
MI	74.8	88.9	91.5	73.9	22.7	24.2	Mt.	158.8	239.5	235.4	78.3	35.8	51.9
WI	37.8	45.0	44.4	71.7	10.7	11.2	MT	15.5	24.8	25.8	62.5	3.2	4.9
W.N.C.	168.2	215.0	213.7	74.9	49.0	58.2	ID	9.5	6.7	8.9	-	2.0	2.1
MN	31.5	40.3	38.6	67.5	8.8	9.4	WY	22.4	39.1	36.8	98.0	4.1	5.9
IA	21.8	27.7	27.8	85.5	7.3	8.5	CO	23.6	30.9	32.3	91.1	6.1	7.3
MO	48.9	59.7	59.4	83.8	13.8	16.6	NM	24.7	26.4	28.3	89.8	5.0	5.6
ND	15.8	27.4	25.7	92.5	3.4	4.7	AZ	36.9	61.6	53.1	60.9	9.4	15.9
SD	8.6	7.9	7.0	34.2	2.2	2.6	UT	12.1	29.6	30.5	97.3	2.1	5.2
NE	16.3	20.6	21.1	54.9	5.1	5.7	NV	14.1	20.3	19.7	78.2	3.9	5.0
KS	25.1	31.4	34.2	66.9	8.3	10.7	Pac	278.8	262.4	275.3	3.4	71.9	82.8
S.A.	417.8	526.3	541.9	61.3	111.5	136.9	WA	92.3	83.6	86.1	9.9	23.0	23.3
DE	6.7	9.0	8.5	59.9	1.6	1.9	OR	36.6	41.0	45.0	1.0	8.5	10.4
MD	32.2	40.4	35.8	66.1	9.2	10.4	CA	140.3	126.0	131.9	-	37.8	45.9
DC	0.7	0.5	0.7	-	1.2	0.9	AK	3.1	4.2	4.4	6.9	1.1	1.7
							HI	6.5	7.6	7.9	-	1.4	1.5

- Represents or rounds to zero.

Source: U.S. Energy Information Administration, 1980, *Power Production, Fuel Consumption, and Installed Capacity Data*, annual; thereafter, *Electric Power Annual*, *Electric Power Monthly*, December 1989 issue, and *Inventory of Power Plants in the United States*, annual.



### No. 975. Electric Utility Generating Units and Nameplate Capacity, by Prime Mover: 1970 to 1987

[Capacity as of Dec. 31. Several generating units of one or more prime movers may be located at a generating plant. For definition of prime mover, see table 972, footnote 4]

TYPE AND SIZE OF PRIME MOVER	INVESTOR OWNED						PUBLICLY OWNED					
	Number of units			Nameplate capacity (mil. kW)			Number of units			Nameplate capacity (mil. kW)		
	1970	1980	1987	1970	1980	1987	1970	1980	1987	1970	1980	1987
<b>Total</b> .....	<b>5,398</b>	<b>6,145</b>	<b>5,677</b>	<b>257.3</b>	<b>481.6</b>	<b>552.8</b>	<b>4,319</b>	<b>4,939</b>	<b>4,729</b>	<b>79.1</b>	<b>140.3</b>	<b>165.3</b>
Steam, conventional .....	1,943	1,987	1,669	216.8	364.8	389.3	870	875	768	37.8	64.6	81.9
Under 100,000 kW .....	1,209	990	859	45.8	40.6	32.0	753	684	539	12.2	13.5	13.3
100,000-500,000 kW .....	684	758	733	128.0	162.4	166.4	110	164	193	20.4	34.6	43.6
Over 500,000 kW .....	70	239	277	43.2	161.8	190.9	7	27	36	5.2	16.4	25.0
Steam, nuclear .....	15	64	97	5.8	47.1	89.5	1	10	12	1.3	8.6	12.2
Over 500,000 kW .....	7	56	91	4.4	45.4	88.0	1	9	12	1.3	8.5	12.2
Hydro .....	2,036	2,088	2,155	19.1	24.8	29.2	1,072	1,207	1,333	36.1	53.7	56.8
Gas turbine .....	587	1,171	1,122	14.0	42.1	41.8	71	276	286	1.0	9.7	10.6
Over 25,000 kW .....	115	519	511	5.7	30.0	30.4	-	127	138	1.0	7.1	8.0
Internal combustion .....	813	839	802	1.5	1.7	1.4	2,305	2,571	2,315	2.9	3.8	3.7
Under 5,000 kW .....	797	812	576	1.3	1.4	1.1	2,279	2,484	2,207	2.7	3.1	2.9
Over 5,000 kW .....	16	27	26	0.2	0.4	0.3	26	87	108	0.3	0.7	0.8
Other .....	4	16	32	0.1	1.0	1.8	-	-	15	-	-	0.1

- Represents zero. <sup>1</sup> Includes geothermal, wind, and solar.

Source: U.S. Energy Information Administration, unpublished data.

### No. 976. Electric Energy Sales, by Class of Service, 1970 to 1989, and by State, 1989

[In billions of kilowatthours]

REGION, DIVISION, AND STATE	Total <sup>1</sup>	Residential	Commercial	Industrial	REGION, DIVISION, AND STATE	Total <sup>1</sup>	Residential	Commercial	Industrial
1970 .....	1,392.3	466.3	306.7	570.9	Nebraska .....	17.5	6.7	5.1	4.3
1973 .....	1,712.9	579.2	388.3	686.1	Kansas .....	25.8	9.0	8.7	7.7
1975 .....	1,747.1	588.1	403.0	687.7	<b>South</b> .....	<b>1,093.0</b>	<b>406.8</b>	<b>271.1</b>	<b>381.6</b>
1980 .....	2,094.4	717.5	488.2	815.1	<b>South Atlantic</b> .....	<b>519.4</b>	<b>206.0</b>	<b>146.5</b>	<b>150.1</b>
1981 .....	2,147.1	722.3	514.3	825.7	Delaware .....	8.1	2.6	2.2	3.2
1982 .....	2,086.4	729.5	526.4	744.9	Maryland .....	58.8	20.5	15.0	22.4
1983 .....	2,151.0	750.9	543.8	776.0	Dist. of Columbia .....	0.0	0.0	0.0	0.0
1984 .....	2,278.4	777.7	578.3	840.6	Virginia .....	73.4	29.2	20.2	16.0
1985 .....	2,309.5	791.0	609.0	824.5	West Virginia .....	23.0	7.7	5.0	10.2
1986 .....	2,350.8	817.7	641.5	808.3	North Carolina .....	87.9	32.5	22.5	31.1
1987 .....	2,457.3	850.4	660.4	858.2	South Carolina .....	53.5	17.3	11.1	24.3
1988 .....	2,578.1	892.9	699.1	896.5	Georgia .....	76.7	28.1	21.4	26.3
<b>1989, total</b> .....	<b>2,633.8</b>	<b>904.5</b>	<b>723.8</b>	<b>914.8</b>	Florida .....	138.1	68.1	49.1	16.7
<b>Northeast</b> .....	<b>411.8</b>	<b>135.8</b>	<b>139.2</b>	<b>121.4</b>	<b>East South Central</b> .....	<b>219.9</b>	<b>76.7</b>	<b>35.2</b>	<b>103.4</b>
<b>New England</b> .....	<b>104.7</b>	<b>38.0</b>	<b>37.1</b>	<b>27.4</b>	Kentucky .....	57.2	16.8	8.9	29.1
Maine .....	11.5	4.0	2.6	4.6	Tennessee .....	75.4	28.8	9.3	36.4
New Hampshire .....	9.1	3.6	2.0	3.5	Alabama .....	57.9	19.7	10.5	27.1
Vermont .....	4.7	1.8	1.5	1.4	Mississippi .....	29.5	11.5	6.5	10.9
Massachusetts .....	45.7	15.8	18.3	10.4	<b>West South Central</b> .....	<b>353.6</b>	<b>124.1</b>	<b>89.4</b>	<b>126.0</b>
Rhode Island .....	6.4	2.4	2.4	1.4	Arkansas .....	25.3	9.7	5.8	9.1
Connecticut .....	27.3	10.5	10.3	6.2	Louisiana .....	61.6	20.4	13.3	24.7
<b>Middle Atlantic</b> .....	<b>307.1</b>	<b>97.6</b>	<b>102.0</b>	<b>93.9</b>	Oklahoma .....	37.5	14.2	10.1	11.3
New York .....	129.2	38.3	47.1	32.1	Texas .....	229.2	79.8	60.2	82.8
New Jersey .....	63.3	20.7	26.5	15.7	<b>West</b> .....	<b>501.4</b>	<b>160.0</b>	<b>155.8</b>	<b>165.6</b>
Pennsylvania .....	114.6	38.6	28.5	46.1	<b>Mountain</b> .....	<b>155.4</b>	<b>48.3</b>	<b>46.2</b>	<b>52.4</b>
<b>Midwest</b> .....	<b>827.7</b>	<b>202.2</b>	<b>157.9</b>	<b>246.3</b>	Montana .....	12.9	3.4	2.7	6.5
<b>East North Central</b> .....	<b>444.5</b>	<b>134.6</b>	<b>109.1</b>	<b>184.2</b>	Idaho .....	17.7	5.7	4.6	7.1
Ohio .....	129.9	38.6	30.0	56.9	Wyoming .....	11.4	1.7	2.0	7.5
Indiana .....	72.6	22.2	15.8	33.9	Colorado .....	29.8	9.5	13.2	6.3
Illinois .....	109.1	32.3	30.9	38.4	New Mexico .....	13.5	3.4	4.5	4.7
Michigan .....	84.9	25.2	20.1	36.3	Arizona .....	40.4	15.2	13.1	9.6
Wisconsin .....	48.0	16.2	12.3	18.7	Utah .....	14.9	4.1	4.4	5.6
<b>West North Central</b> .....	<b>183.2</b>	<b>67.5</b>	<b>48.8</b>	<b>62.1</b>	Nevada .....	14.8	5.2	3.8	5.2
Minnesota .....	45.8	14.7	7.8	22.6	<b>Pacific</b> .....	<b>346.0</b>	<b>111.7</b>	<b>107.4</b>	<b>113.2</b>
Iowa .....	28.6	10.4	6.6	10.8	Washington .....	87.7	28.5	17.0	38.6
Missouri .....	52.0	20.8	17.6	12.8	Oregon .....	41.9	15.1	11.5	14.8
North Dakota .....	7.1	3.1	1.6	2.2	California .....	204.4	64.2	74.9	55.8
South Dakota .....	6.3	2.9	1.4	1.7	Alaska .....	4.1	1.6	1.9	0.4
					Hawaii .....	8.0	2.2	2.1	3.6

<sup>1</sup> Includes other service, not shown separately.

Source: U.S. Energy Information Association, *Electric Power Monthly*, December 1989 issue.

## No. 977. Electric Utilities—Generation, Sales, Revenue, and Customers: 1970 to 1989

[Sales and revenue are to and from ultimate customers]

CLASS	Unit. . .	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988, prel.	1989, prel.
Generation <sup>1</sup>	Bil. kWh	1,532	1,918	2,286	2,241	2,310	2,416	2,470	2,487	2,572	2,704	2,781
Sales <sup>2</sup>	Bil. kWh	1,391	1,733	2,126	2,100	2,160	2,281	2,308	2,355	2,435	2,549	2,609
Residential or domestic	Bil. kWh	448	586	734	733	750	783	793	820	846	885	896
Percent of total	Percent	32.2	33.8	34.5	34.9	34.7	34.3	34.4	34.8	35	35	34
Commercial <sup>3</sup>	Bil. kWh	313	418	524	517	546	578	606	629	658	696	719
Industrial <sup>4</sup>	Bil. kWh	573	662	794	770	783	835	820	819	844	878	903
Revenue	Bil. dol.	22.1	46.9	95.5	121.6	129.6	143.1	149.2	152.5	155.7	162.5	168.0
Residential or domestic	Bil. dol.	9.4	18.8	37.6	47.2	51.2	56.1	58.6	60.9	63.0	66.3	68.2
Percent of total	Percent	42.7	40.1	39.4	38.8	39.5	39.2	39.3	39.9	40.5	40.8	40.6
Commercial <sup>3</sup>	Bil. dol.	6.3	13.5	27.4	34.2	37.1	41.3	44.1	45.4	46.7	49.1	51.3
Industrial <sup>4</sup>	Bil. dol.	5.4	12.7	27.3	35.9	36.6	40.8	41.4	40.9	40.6	41.8	43.0
Ultimate customers, Dec. 31 <sup>2</sup>	Million	72.5	81.8	92.7	95.3	97.0	99.4	101.6	103.0	104.6	106.0	108.0
Residential or domestic	Million	64.0	72.6	82.2	84.4	85.8	87.9	89.8	91.0	92.4	93.6	95.3
Commercial <sup>3</sup>	Million	7.9	8.6	9.7	10.0	10.3	10.6	10.9	11.1	11.4	11.6	11.9
Industrial <sup>4</sup>	Million	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Avg. kWh used per customer	1,000	19.4	21.4	23.2	22.2	22.5	23.2	22.9	23.1	23.5	24.0	24.3
Residential	1,000	7.1	8.2	9.0	8.7	8.8	9.0	8.9	9.1	9.2	9.5	9.5
Commercial <sup>3</sup>	1,000	40.0	49.0	54.5	52.3	53.8	55.2	56.1	57.2	58.4	60.1	61.2
Avg. annual bill per customer	Dollar	307	579	1,040	1,285	1,349	1,453	1,482	1,494	1,501	1,532	1,567
Residential	Dollar	149	262	462	563	602	644	658	675	688	708	722
Commercial <sup>3</sup>	Dollar	804	1,580	2,848	3,452	3,660	3,940	4,080	4,127	4,147	4,239	4,366
Avg. revenue per kWh sold	Cents	1.59	2.70	4.49	5.79	6.00	6.27	6.47	6.47	6.39	6.37	6.44
Residential	Cents	2.10	3.21	5.12	6.44	6.83	7.17	7.39	7.43	7.45	7.49	7.61
Commercial <sup>3</sup>	Cents	2.01	3.23	5.22	6.61	6.80	7.14	7.27	7.22	7.10	7.05	7.14
Industrial <sup>4</sup>	Cents	0.95	1.92	3.44	4.66	4.68	4.88	5.04	4.99	4.82	4.76	4.76

<sup>1</sup> Source: 1970-1975, U.S. Federal Power Commission; thereafter, U.S. Energy Information Administration, *Monthly Energy Review*, February 1989. <sup>2</sup> Includes other types not shown separately. <sup>3</sup> Small light and power. <sup>4</sup> Large light and power. Source: Except as noted, Edison Electric Institute, Washington, DC, *Statistical Yearbook*.

## No. 978. Electric Utilities—Balance Sheet and Income Account of Privately Owned Companies: 1970 to 1988

[In billions of dollars. As of Dec. 31. See also *Historical Statistics, Colonial Times to 1970*, series S 133-146 and V 197-212]

ITEM	CLASS A AND B INVESTOR-OWNED ELECTRIC UTILITIES <sup>1</sup>				MAJOR-INVESTOR-OWNED ELECTRIC UTILITIES <sup>2</sup>							
	1970	1975	1980	1981	1981	1982	1983	1984	1985	1986	1987	1988
<b>COMPOSITE BALANCE SHEET</b>												
Assets and other debits	87.4	157.1	260.0	286.0	285.1	315.0	342.4	375.6	404.7	426.1	446.3	454.3
Electric utility plant <sup>3</sup>	93.3	160.7	266.9	292.7	291.6	321.2	347.9	364.7	396.9	419.5	434.6	449.4
Depreciation and amortization	20.3	31.9	55.5	61.5	61.1	67.6	74.3	77.1	85.1	93.9	103.2	113.5
Net electric utility plant	73.1	128.8	211.5	231.2	230.5	253.6	273.6	287.5	311.8	325.6	331.4	335.9
Other utility plant	9.0	11.7	14.8	15.7	16.7	17.5	17.6	19.9	21.2	23.1	24.6	
Depreciation and amortization	2.1	3.1	4.5	4.9	4.9	5.3	5.8	6.1	6.5	7.2	7.8	8.5
Net other utility plant	6.9	8.6	10.3	10.8	10.8	11.4	11.8	12.1	14.0	15.2	16.1	
Total utility plant	102.3	172.4	281.7	308.4	307.3	337.9	365.5	395.3	431.1	455.9	475.7	493.0
Depreciation and amortization	22.3	35.0	60.0	66.4	66.0	72.9	80.0	82.0	97.4	107.7	119.7	131.3
Net total utility plant	79.9	137.4	221.7	242.0	241.3	265.0	285.4	307.3	333.8	348.2	357.0	361.6
Other property and investments	1.7	4.5	6.5	7.9	7.9	9.1	10.3	10.8	12.1	13.5	15.8	15.2
Current and accrued assets	5.3	13.5	26.2	28.7	28.6	31.7	33.3	37.9	39.4	38.4	40.9	39.1
Deferred debits	0.4	1.7	5.5	7.3	7.3	9.3	13.4	19.3	19.4	26.1	32.9	38.3
Liabilities and other credits <sup>4</sup>	87.4	157.1	260.0	286.0	285.1	315.0	342.4	375.3	404.7	426.1	446.3	454.3
Capital stock	20.8	37.8	59.3	63.9	63.7	70.3	75.9	79.0	82.8	81.6	79.9	80.7
Other paid-in capital	4.4	11.5	21.5	24.0	23.9	27.7	31.0	34.0	36.3	38.4	40.3	40.4
Retained earnings	9.4	14.7	22.7	25.0	24.8	27.9	31.9	37.1	41.1	46.0	48.0	47.1
Subsidiary earnings <sup>5</sup>	(X)	0.6	1.1	1.3	1.3	1.6	1.7	1.9	2.2	2.3	2.6	2.5
Long-term debt	41.9	70.8	105.3	115.5	115.2	124.0	131.6	140.6	152.7	157.2	158.4	160.7
Current and accrued liabilities	7.3	13.7	26.3	28.4	28.1	28.6	29.5	32.0	32.0	34.0	39.3	38.4
Deferred credits and operating reserves	0.9	2.7	9.8	11.5	11.0	15.1	16.8	19.0	20.9	22.4	25.6	28.1
Deferred income taxes <sup>6</sup>	2.2	5.4	14.1	16.7	16.6	19.4	23.6	28.1	32.7	39.6	45.9	50.2
<b>COMPOSITE INCOME ACCOUNTS</b>												
Electric operating revenues	19.8	44.6	87.1	102.3	101.7	109.3	116.7	128.3	135.3	138.3	138.5	143.9
Electric operating expenses	15.3	36.1	73.4	86.0	85.5	91.1	98.2	105.5	111.1	110.2	111.8	115.3
Net electric operating revenues	4.5	8.5	13.6	16.3	16.2	18.1	20.5	22.8	24.1	28.1	27.0	28.6
Other utility operating income	0.4	0.5	0.7	0.9	0.7	0.9	0.9	1.1	1.2	1.1	1.1	1.2
Total utility operating income	4.9	9.0	14.4	17.0	17.0	19.1	21.4	24.0	25.3	27.2	28.1	29.8
Other income	0.8	2.2	3.6	4.4	4.4	5.3	6.5	6.8	7.4	7.2	6.6	5.0
Total income	5.7	11.3	18.0	21.4	21.3	24.4	28.0	30.8	32.7	34.4	34.8	34.8
Income deductions	2.3	5.1	7.3	8.7	8.7	8.4	10.1	11.1	14.0	14.0	15.6	18.8
Net income	3.4	6.1	10.7	12.7	12.7	15.0	17.9	19.7	18.7	20.4	19.0	16.0

X Not applicable. <sup>1</sup> There were 197 utilities of this type in 1981. <sup>2</sup> There were 181 utilities of this type in 1987. <sup>3</sup> Includes construction work in progress. <sup>4</sup> Includes contributions in aid of construction through 1970. <sup>5</sup> Unappropriated undistributed. <sup>6</sup> Cumulative. Beginning 1975, includes net extraordinary income.

Source: 1970-1975, U.S. Federal Power Commission and 1979-1980, U.S. Energy Information Administration, *Statistics of Privately Owned Electric Utilities in the United States*, annual; thereafter, U.S. Energy Information Administration, *Financial Statistics of Selected Electric Utilities*, annual.

**No. 979. Nuclear Power Plants—Number, Capacity, and Generation: 1965 to 1989**

ITEM	1965	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990, prel.
Operable generating units <sup>1</sup>	6	18	54	70	77	80	86	95	100	107	108	110	111
Net summer capacity <sup>1, 2</sup> (mil. kW)	0.8	7.0	37.2	51.7	59.9	63.0	69.7	79.4	85.2	93.6	94.7	98.2	99.6
Electricity generated (bil. kWh)	4	22	173	251	283	294	328	384	414	455.3	527	529.4	576.8
Percent of total electric utility generation	0.4	1.4	9.0	11.0	12.6	12.7	13.6	15.5	16.6	17.7	19.5	19.0	20.6
Capacity factor <sup>3</sup>	(NA)	(NA)	56.0	56.4	56.7	54.4	56.3	57.9	56.9	57.4	63.5	62.2	66.1

NA Not available. <sup>1</sup> As of yearend. <sup>2</sup> Net summer capacity is the peak steady hourly output that generating equipment is expected to supply to system load, exclusive of auxiliary and other powerplant, as demonstrated by test at the time of summer peak demand. <sup>3</sup> Weighted average of monthly capacity factors. Monthly factors are derived by dividing actual monthly generation by the maximum possible generation for the month (hours in month times net maximum dependable capacity).

Source: U.S. Energy Information Administration, *Annual Energy Review*.

**No. 980. Commercial Nuclear Power Generation, by Country: 1970 to 1989**

[Generation for calendar years; other data as of December. Excludes Communist countries]

COUNTRY	REACTORS				ELECTRICITY GENERATED <sup>1</sup> (bil. kWh)				GROSS CAPACITY (1,000 kW)			
	1970	1980	1985	1989	1970	1980	1985	1989	1970	1980	1985	1989
Total	64	208	297	353	73.9	617.8	1,264.4	1,659.1	15,186	128,847	225,417	289,433
U.S.	15	74	89	110	23.2	265.2	399.1	555.2	5,211	56,529	80,327	103,643
Argentina	-	1	2	2	-	2.3	4.8	5.0	-	357	1,005	1,005
Belgium	1	3	7	7	0.3	12.5	34.5	41.2	11	1,744	5,709	5,718
Brazil	-	-	1	1	-	-	3.4	1.6	-	-	657	657
Canada	1	9	15	18	0.9	40.4	62.9	83.2	220	5,588	10,332	12,919
China: Taiwan	-	2	6	6	-	8.2	28.7	28.3	-	1,272	5,146	5,146
Great Britain	27	33	37	40	26.5	37.2	59.6	71.3	4,783	9,012	12,280	15,273
Finland	-	4	4	4	-	7.0	18.8	18.8	-	2,296	2,400	2,400
France	4	22	44	55	5.7	61.2	224.0	303.9	1,806	15,412	38,595	54,755
India	2	4	5	6	2.2	2.9	4.4	4.0	400	860	1,095	1,330
Italy	3	4	3	2	3.3	2.2	7.0	0.0	631	1,490	1,330	1,132
Japan	3	22	33	38	3.3	81.0	152.0	185.3	828	15,117	24,686	29,445
Netherlands	1	2	2	2	0.4	4.2	3.9	4.0	55	529	540	540
Pakistan	-	1	1	1	-	0.1	0.3	(Z)	-	137	137	137
South Africa	-	-	2	2	-	-	5.7	11.7	-	-	1,930	1,930
South Korea	-	1	4	9	-	3.5	16.5	47.4	-	587	2,866	7,616
Spain	1	3	8	10	0.9	5.2	28.0	56.1	160	1,117	5,812	7,857
Sweden	1	8	12	12	(Z)	26.7	58.6	65.6	12	5,770	9,915	10,243
Switzerland	1	4	5	5	1.9	14.3	22.4	22.8	364	2,034	3,079	3,079
West Germany	4	11	16	22	5.3	43.7	125.7	149.5	907	8,996	16,912	23,944
Yugoslavia	-	-	1	1	-	-	4.1	4.1	-	-	664	664

- Represents zero. Z Less than 50 million kWh.

Source: McGraw-Hill, Inc., New York, NY, *Nucleonics Week*, January issues. (Copyright.)

**No. 981. Uranium Supply, Enrichment, and Discharged Commercial Reactor Fuel: 1970 to 1989**

[Years ending Dec. 31, except as noted. For additional data on uranium, see Section 25 on mining. For explanation of kilogram, see weights and measures]

ITEM	Unit	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
<b>URANIUM CONCENTRATE</b>											
Production	Mil. lb.	25.81	23.20	43.70	21.16	14.88	11.31	13.51	12.99	13.13	13.80
Exports	Mil. lb.	4.20	1.00	5.80	3.30	2.20	5.30	1.60	1.00	3.30	2.90
Imports	Mil. lb.	-	1.40	3.60	8.20	12.50	11.70	13.50	15.10	15.80	13.00
Delivered price	Dol./lb.	(NA)	10.50	26.00	38.21	32.65	31.43	30.01	27.37	25.65	19.56
<b>ENRICHMENT</b>											
Enriched product <sup>1</sup>	Mil. Swu <sup>2</sup>	5.10	9.92	10.69	<sup>3</sup> 8.46	<sup>4</sup> 11.2	<sup>4</sup> 10.2	<sup>4</sup> 8.6	<sup>4</sup> 8.1	<sup>4</sup> 9.9	<sup>4</sup> 11.9
For domestic customers	Mil. Swu <sup>2</sup>	3.74	4.36	6.89	<sup>3</sup> 4.69	<sup>4</sup> 5.8	<sup>4</sup> 6.0	<sup>4</sup> 4.9	<sup>4</sup> 4.4	<sup>4</sup> 6.3	<sup>4</sup> 7.6
For foreign customers	Mil. Swu <sup>2</sup>	1.36	5.56	3.80	<sup>3</sup> 3.77	<sup>4</sup> 5.4	<sup>4</sup> 4.2	<sup>4</sup> 3.7	<sup>4</sup> 4.7	<sup>4</sup> 3.6	<sup>4</sup> 4.3
Sales	Mil. dol.	(NA)	376	1,379	2,329	<sup>4</sup> 1,457	<sup>4</sup> 1,403	<sup>4</sup> 1,085	<sup>4</sup> 921	<sup>4</sup> 1,094	<sup>4</sup> 1,320
<b>DISCHARGED COMMERCIAL REACTOR FUEL<sup>3</sup></b>											
Annual discharge	Metric tons	82	499	1,193	1,224	1,257	1,330	1,431	1,615	(NA)	(NA)
Inventory, yearend	Metric tons	118	1,538	6,434	9,749	11,006	12,481	13,881	(NA)	(NA)	(NA)
On-site storage	Metric tons	(NA)	(NA)	(NA)	9,300	10,642	11,953	13,267	(NA)	(NA)	(NA)
Off-site storage	Metric tons	(NA)	(NA)	(NA)	449	364	528	614	(NA)	(NA)	(NA)

- Represents zero. NA Not available. <sup>1</sup> Based on sales. <sup>2</sup> Separative work units. The standard measure of enrichment services is based on operating tails assay in effect at the time the enriched product was placed in inventory. Jan.-Sept. only. <sup>3</sup> Fiscal years. <sup>4</sup> Uranium content. Source: Nuclear Assurance Corporation, Atlanta, GA. <sup>5</sup> Reprocessed fuel not included as inventory.

Source: Except as noted, U.S. Energy Information Administration, *Annual Energy Review*, *Uranium Industry Annual* and unpublished data.

### No. 982. Nuclear Power Plants—Number of Units and Net Summer Capability, 1988, and Net Generation, 1989, by State

DIVISION AND STATE	Number of units, 1988	NET SUMMER CAPABILITY, 1988		NET GENERATION, 1989		DIVISION AND STATE	Number of units, 1988	NET SUMMER CAPABILITY, 1988		NET GENERATION, 1989	
		Total (mil. kW)	Percent of total <sup>1</sup>	Total (mil. kW)	Percent of total <sup>1</sup>			Total (mil. kW)	Percent of total <sup>1</sup>	Total (mil. kW)	Percent of total <sup>1</sup>
U.S. ....	108	94.7	14.0	529,355	19.1	VA. ....	4	3.4	26.5	-	-
N. Eng. ....	8	5.4	24.4	118,171	27.9	WV. ....	-	-	-	2,719	7.6
ME. ....	1	0.8	35.8	33,126	34.0	NC. ....	5	4.7	23.5	-	-
NH. ....	-	-	-	6,942	59.7	SC. ....	7	6.3	42.8	14,264	32.9
VT. ....	1	0.5	45.0	-	-	GA. ....	3	2.6	13.4	-	-
MA. ....	2	0.8	8.5	3,607	75.8	FL. ....	5	3.7	11.4	29,212	33.5
RI. ....	-	-	-	3,015	7.7	E. So. Cent. ....	8	8.3	14.3	40,780	60.9
CT. ....	4	3.2	45.1	-	-	KY. ....	-	-	-	24,961	27.0
Mid. Atl. ....	18	16.3	21.2	19,563	57.1	TN. ....	2	2.3	13.5	20,916	16.8
NY. ....	6	4.8	15.4	85,045	26.1	AL. ....	5	4.8	25.7	34,854	14.4
NJ. ....	4	3.9	28.6	22,847	17.6	MS. ....	1	1.1	16.4	-	-
PA. ....	8	7.7	23.8	23,032	56.0	W. So. Cent. ....	5	5.0	5.0	15,603	21.1
E. No. Cent. ....	23	20.1	18.2	39,166	25.3	AR. ....	2	1.7	17.7	11,524	14.9
OH. ....	2	2.0	7.9	159,837	23.0	LA. ....	2	2.0	11.9	7,826	37.2
IN. ....	-	-	-	119,641	24.8	OK. ....	-	-	-	31,225	8.6
IL. ....	13	12.6	38.7	12,661	9.6	TX. ....	1	1.3	2.1	8,844	26.5
MI. ....	5	4.0	17.8	-	-	Mt. ....	4	3.9	7.9	12,391	23.5
WI. ....	3	1.5	14.0	74,820	59.0	MT. ....	-	-	-	-	-
W. No. Cent. ....	8	5.5	10.4	21,312	23.3	ID. ....	-	-	-	9,990	4.3
MN. ....	3	1.5	17.7	10,848	24.5	WY. ....	-	-	-	52,316	10.2
IA. ....	1	0.5	6.4	40,196	18.8	CO. ....	1	0.2	3.1	8,380	3.6
MO. ....	1	1.1	7.5	10,926	28.3	NM. ....	-	-	-	-	-
ND. ....	-	-	-	3,139	11.3	AZ. ....	3	3.7	25.4	-	-
SD. ....	-	-	-	8,344	14.1	UT. ....	-	-	-	-	-
NE. ....	2	1.3	23.1	-	-	NV. ....	-	-	-	529	1.6
KS. ....	1	1.1	11.9	-	-	Pac. ....	8	7.8	9.4	-	-
So. Atl. ....	26	22.4	17.7	8,077	38.3	WA. ....	1	1.1	4.6	7,850	14.8
DE. ....	-	-	-	9,709	28.4	OR. ....	1	1.1	9.8	-	-
MD. ....	2	1.7	17.2	199,031	17.3	CA. ....	6	5.6	12.6	-	-
DC. ....	-	-	-	132,852	24.5	AK. ....	-	-	-	43,936	16.0
						HI. ....	-	-	-	6,118	7.1

- Represents zero. <sup>1</sup> For total capability and generation, see table 974.

Source: U.S. Energy Information Administration, *Electric Power Monthly*, December 1989 issue, and *Inventory of Power Plants in the United States 1988*.

### No. 983. Privately Owned Gas Utility Industry—Balance Sheet and Income Account: 1970 to 1988

[In millions of dollars. The gas utility industry consists of pipeline and distribution companies. Excludes operations of companies distributing gas in bottles or tanks. See also *Historical Statistics, Colonial Times to 1988*, series S 205-218]

ITEM	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
<b>COMPOSITE BALANCE SHEET</b>										
Assets, total <sup>1</sup>	34,929	50,286	75,851	100,499	98,933	104,478	104,008	109,390	121,667	123,820
Total utility plant <sup>2</sup>	38,541	49,384	67,071	82,038	83,118	88,121	91,606	93,540	99,933	106,017
Depreciation and amortization	10,696	16,779	26,162	34,208	35,542	36,377	36,776	41,162	44,423	47,054
Utility plant (net)	27,845	32,605	40,909	47,380	47,576	51,744	54,830	52,378	55,510	58,963
Investment and fund accounts	3,024	9,198	15,530	21,531	21,872	23,871	21,850	25,660	31,552	28,111
Current and accrued assets	3,674	7,543	17,243	27,571	25,367	24,771	21,477	21,025	23,402	24,836
Deferred debts <sup>2</sup>	386	940	2,169	3,567	4,118	4,092	5,851	8,633	9,658	10,364
Liabilities, total <sup>1</sup>	34,929	50,286	75,851	100,499	98,933	104,478	104,008	109,390	121,667	123,820
Capitalization, total <sup>1</sup>	28,646	39,044	51,382	65,040	64,458	65,799	66,660	68,312	69,875	74,753
Capital stock	12,965	18,500	29,315	38,488	38,959	39,517	39,902	38,212	39,898	43,889
Long-term debts	15,681	19,544	22,067	26,552	25,499	26,282	26,758	28,100	29,977	30,864
Current and accrued liabilities	4,832	8,158	18,119	25,150	23,043	26,125	23,855	26,664	33,735	31,005
Deferred income taxes <sup>3</sup>	788	2,052	4,149	6,537	7,000	7,769	8,363	9,901	10,685	11,292
Other liabilities and credits	663	1,032	2,201	3,772	4,432	4,785	5,130	6,513	7,372	6,770
<b>COMPOSITE INCOME ACCOUNT</b>										
Operating revenues, total	16,380	30,550	85,918	116,096	115,491	103,945	80,978	69,566	69,754	70,363
Operating expenses <sup>4</sup>	14,306	27,480	81,789	110,142	109,165	96,320	75,470	64,409	64,696	64,262
Operation and maintenance	11,636	22,957	74,508	100,495	98,953	88,572	66,032	56,054	57,032	55,990
Federal, State, and local taxes	1,569	2,763	4,847	6,508	7,146	6,590	6,133	5,179	4,241	4,843
Operating income	2,074	3,070	4,129	5,954	6,326	5,625	5,506	5,157	5,058	6,101
Utility operating income	2,159	3,221	4,471	6,303	6,647	6,030	5,943	5,452	5,202	6,274
Income before interest charges <sup>1</sup>	2,457	4,137	6,929	8,717	9,068	7,636	7,085	6,845	7,472	8,784
Net income <sup>1</sup>	1,427	2,502	4,194	5,158	5,619	3,785	3,980	2,971	3,352	4,641
Dividends	1,006	1,509	2,564	3,638	4,471	4,060	3,882	3,453	3,151	3,113

<sup>1</sup> Beginning 1975, not comparable with 1970 due to Federal Power Commission ruling requiring adoption of the equity method in reporting earnings of subsidiaries. <sup>2</sup> Includes capital stock discount and expense and reacquired securities. <sup>3</sup> Includes reserves for deferred income taxes. <sup>4</sup> Includes expenses not shown separately.

Source: American Gas Association, Arlington, VA, *Gas Facts*, annual. (Copyright.)

## No. 984. Gas Utility Industry—Summary: 1970 to 1989

[Covers natural, manufactured, mixed, and liquid petroleum gas. Based on questionnaire mailed to all privately and municipally owned gas utilities in U.S., except those with annual revenues less than \$25,000. See also *Historical Statistics, Colonial Times to 1970*, series S 190-204.]

ITEM	Unit	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
<b>Customers</b>	<b>1,000</b>	<b>41,482</b>	<b>44,555</b>	<b>47,223</b>	<b>48,799</b>	<b>49,325</b>	<b>49,971</b>	<b>50,704</b>	<b>51,576</b>	<b>52,422</b>	<b>53,356</b>
Residential	1,000	38,097	40,950	43,489	44,894	45,367	45,929	46,583	47,362	48,133	48,980
Commercial	1,000	3,131	3,367	3,498	3,676	3,730	3,816	3,892	3,980	4,069	4,161
Industrial and other	1,000	254	237	236	229	228	228	229	234	220	215
<b>Sales<sup>2</sup></b>	<b>Tril. Btu</b>	<b>16,044</b>	<b>14,863</b>	<b>15,413</b>	<b>12,858</b>	<b>13,162</b>	<b>12,616</b>	<b>11,125</b>	<b>10,543</b>	<b>10,705</b>	<b>10,551</b>
Residential	Tril. Btu	4,923	4,991	4,826	4,450	4,628	4,513	4,381	4,385	4,695	4,798
Percent of total	Percent	30.7	33.6	31.3	34.6	35.2	35.8	39.4	41.6	43.9	45.5
Commercial	Tril. Btu	2,007	2,387	2,453	2,298	2,396	2,338	2,239	2,156	2,306	2,323
Industrial	Tril. Btu	8,439	6,837	7,957	5,970	5,981	5,635	4,338	3,848	3,544	3,242
Other	Tril. Btu	674	648	177	140	147	130	167	155	160	188
<b>Revenues<sup>2</sup></b>	<b>Mill. dol.</b>	<b>10,283</b>	<b>19,101</b>	<b>48,303</b>	<b>65,837</b>	<b>67,496</b>	<b>63,293</b>	<b>51,201</b>	<b>45,492</b>	<b>46,162</b>	<b>47,493</b>
Residential	Mill. dol.	5,207	8,445	17,432	26,173	27,485	26,864	24,759	23,622	24,828	26,172
Percent of total	Percent	50.8	44.2	36.1	39.8	40.7	42.4	48.4	51.9	53.8	55.1
Commercial	Mill. dol.	1,620	3,302	8,183	12,659	13,205	12,722	11,274	10,271	10,681	11,077
Industrial	Mill. dol.	3,181	6,745	22,215	26,315	26,094	23,086	14,495	11,069	10,113	9,660
Other	Mill. dol.	274	608	473	690	712	621	673	530	538	584
<b>Prices per mil. Btu<sup>3</sup></b>	<b>Dollars</b>	<b>0.64</b>	<b>1.29</b>	<b>3.13</b>	<b>5.12</b>	<b>5.13</b>	<b>5.02</b>	<b>4.60</b>	<b>4.32</b>	<b>4.31</b>	<b>4.50</b>
Residential	Dollars	1.06	1.69	3.61	5.88	5.94	5.95	5.65	5.39	5.29	5.45
Commercial	Dollars	0.81	1.38	3.34	5.51	5.51	5.44	5.04	4.77	4.63	4.77
Industrial	Dollars	0.38	0.99	2.79	4.41	4.36	4.10	3.34	2.88	2.85	2.98
<b>Gas mains mileage</b>	<b>1,000</b>	<b>913</b>	<b>980</b>	<b>1,052</b>	<b>1,095</b>	<b>1,102</b>	<b>1,119</b>	<b>1,134</b>	<b>1,151</b>	<b>1,169</b>	<b>1,185</b>
Field and gathering	1,000	66	68	84	92	94	94	94	94	92	91
Transmission	1,000	252	263	266	273	272	271	271	274	276	276
Distribution	1,000	595	649	702	730	736	754	769	784	801	818
<b>Construction expenditures</b>	<b>Mill. dol.</b>	<b>2,506</b>	<b>2,466</b>	<b>5,350</b>	<b>4,078</b>	<b>4,645</b>	<b>5,671</b>	<b>5,342</b>	<b>5,328</b>	<b>6,166</b>	<b>7,341</b>
Transmission	Mill. dol.	1,019	590	1,583	1,065	1,301	1,562	1,448	1,295	1,568	2,081
Distribution	Mill. dol.	913	910	1,869	1,845	2,266	2,577	2,920	3,055	3,389	3,980
Production and storage	Mill. dol.	370	831	1,546	746	543	965	383	251	268	276

<sup>1</sup> Annual average. <sup>2</sup> Excludes sales for resale. <sup>3</sup> For definition, see text, section 19. <sup>4</sup> Includes general.

Source: American Gas Association, Arlington, VA, *Gas Facts*, annual. (Copyright.)

## No. 985. Gas Utility Industry—Customers, Sales, and Revenues, by State: 1989

[See headnote, table 984. For definition of Btu, see text, section 19]

DIVISION AND STATE	CUSTOMERS <sup>1</sup>		SALES <sup>3</sup> (mil. Btu)		REVENUES <sup>3</sup> (mil. dol.)		DIVISION AND STATE	CUSTOMERS <sup>1</sup>		SALES <sup>3</sup> (mil. Btu)		REVENUES <sup>3</sup> (mil. dol.)	
	Total <sup>2</sup>	Residential	Total <sup>2</sup>	Residential	Total <sup>2</sup>	Residential		Total <sup>2</sup>	Residential	Total <sup>2</sup>	Residential	Total <sup>2</sup>	Residential
<b>U.S.</b>	<b>53,356</b>	<b>48,981</b>	<b>10,551</b>	<b>4,798</b>	<b>47,493</b>	<b>26,172</b>	<b>VA</b>	<b>653</b>	<b>587</b>	<b>124</b>	<b>55</b>	<b>672</b>	<b>359</b>
<b>N. Eng.</b>	<b>2,018</b>	<b>1,828</b>	<b>400</b>	<b>178</b>	<b>2,289</b>	<b>1,278</b>	<b>WV</b>	<b>381</b>	<b>349</b>	<b>64</b>	<b>39</b>	<b>305</b>	<b>205</b>
ME	16	12	4	1	21	5	<b>NC</b>	<b>551</b>	<b>485</b>	<b>131</b>	<b>39</b>	<b>625</b>	<b>253</b>
NH	83	72	15	7	94	48	<b>SC</b>	<b>360</b>	<b>321</b>	<b>93</b>	<b>21</b>	<b>419</b>	<b>136</b>
VT	23	20	6	2	31	14	<b>GA</b>	<b>1,382</b>	<b>1,275</b>	<b>202</b>	<b>99</b>	<b>1,043</b>	<b>602</b>
MA	1,217	1,110	256	108	1,371	754	<b>FL</b>	<b>474</b>	<b>431</b>	<b>282</b>	<b>14</b>	<b>879</b>	<b>102</b>
RI	207	189	30	18	190	125	<b>E. So. Cent.</b>	<b>2,451</b>	<b>2,202</b>	<b>487</b>	<b>190</b>	<b>2,036</b>	<b>974</b>
CT	472	425	89	42	582	332	<b>KY</b>	<b>676</b>	<b>611</b>	<b>118</b>	<b>67</b>	<b>519</b>	<b>309</b>
<b>Mid. Atl.</b>	<b>8,788</b>	<b>8,088</b>	<b>1,422</b>	<b>839</b>	<b>8,303</b>	<b>5,427</b>	<b>TN</b>	<b>654</b>	<b>569</b>	<b>163</b>	<b>50</b>	<b>846</b>	<b>233</b>
NY	4,156	3,853	574	366	3,643	2,526	<b>AL</b>	<b>711</b>	<b>653</b>	<b>118</b>	<b>47</b>	<b>540</b>	<b>286</b>
NJ	2,163	1,946	382	195	2,108	1,248	<b>MS</b>	<b>410</b>	<b>369</b>	<b>88</b>	<b>26</b>	<b>331</b>	<b>146</b>
PA	2,469	2,289	466	278	2,552	1,653	<b>W. So. Cent.</b>	<b>5,856</b>	<b>5,358</b>	<b>1,730</b>	<b>401</b>	<b>5,566</b>	<b>2,091</b>
<b>E. No. Cent.</b>	<b>11,816</b>	<b>10,855</b>	<b>2,328</b>	<b>1,500</b>	<b>11,038</b>	<b>7,470</b>	<b>AR</b>	<b>554</b>	<b>491</b>	<b>92</b>	<b>44</b>	<b>398</b>	<b>213</b>
OH	2,950	2,720	563	373	2,794	1,920	<b>LA</b>	<b>979</b>	<b>914</b>	<b>226</b>	<b>59</b>	<b>781</b>	<b>342</b>
IN	1,421	1,295	278	158	1,376	854	<b>OK</b>	<b>890</b>	<b>802</b>	<b>204</b>	<b>73</b>	<b>643</b>	<b>324</b>
IL	3,507	3,212	709	468	3,120	2,150	<b>TX</b>	<b>3,433</b>	<b>3,151</b>	<b>1,208</b>	<b>205</b>	<b>3,843</b>	<b>1,212</b>
MI	2,733	2,531	536	375	2,558	1,826	<b>Mt.</b>	<b>3,255</b>	<b>2,949</b>	<b>527</b>	<b>255</b>	<b>2,253</b>	<b>1,271</b>
WI	1,205	1,097	242	128	1,190	720	<b>MT</b>	<b>196</b>	<b>173</b>	<b>42</b>	<b>20</b>	<b>158</b>	<b>80</b>
<b>W. No. Cent.</b>	<b>4,642</b>	<b>4,184</b>	<b>914</b>	<b>472</b>	<b>3,748</b>	<b>2,147</b>	<b>ID</b>	<b>129</b>	<b>111</b>	<b>17</b>	<b>9</b>	<b>78</b>	<b>43</b>
MN	1,033	935	244	119	989	542	<b>WY</b>	<b>123</b>	<b>109</b>	<b>24</b>	<b>12</b>	<b>102</b>	<b>56</b>
IA	781	698	168	80	668	373	<b>CO</b>	<b>1,077</b>	<b>965</b>	<b>166</b>	<b>91</b>	<b>719</b>	<b>423</b>
MO	1,309	1,207	220	129	980	614	<b>NM</b>	<b>257</b>	<b>239</b>	<b>52</b>	<b>29</b>	<b>253</b>	<b>156</b>
ND	97	85	20	10	86	46	<b>AZ</b>	<b>611</b>	<b>564</b>	<b>114</b>	<b>28</b>	<b>443</b>	<b>187</b>
SD	116	103	23	12	95	54	<b>UT</b>	<b>485</b>	<b>432</b>	<b>78</b>	<b>49</b>	<b>336</b>	<b>233</b>
NE	481	419	98	46	388	204	<b>NV</b>	<b>387</b>	<b>358</b>	<b>33</b>	<b>17</b>	<b>164</b>	<b>93</b>
KS	825	738	141	76	542	315	<b>Pac.</b>	<b>9,661</b>	<b>9,087</b>	<b>1,659</b>	<b>605</b>	<b>7,171</b>	<b>3,274</b>
<b>So. Atl.</b>	<b>4,869</b>	<b>4,429</b>	<b>1,084</b>	<b>358</b>	<b>4,989</b>	<b>2,241</b>	<b>WA</b>	<b>479</b>	<b>421</b>	<b>136</b>	<b>38</b>	<b>523</b>	<b>209</b>
DE	94	86	22	8	107	49	<b>OR</b>	<b>347</b>	<b>302</b>	<b>53</b>	<b>23</b>	<b>269</b>	<b>139</b>
MD	829	764	134	70	735	439	<b>CA</b>	<b>8,721</b>	<b>8,265</b>	<b>1,427</b>	<b>528</b>	<b>6,220</b>	<b>2,968</b>
DC	146	131	33	13	205	96	<b>AK</b>	<b>80</b>	<b>69</b>	<b>40</b>	<b>13</b>	<b>120</b>	<b>49</b>
							<b>HI</b>	<b>34</b>	<b>31</b>	<b>3</b>	<b>1</b>	<b>39</b>	<b>9</b>

<sup>1</sup> Averages for the year. <sup>2</sup> Includes other service, not shown separately. <sup>3</sup> Excludes sales for resale.

Source: American Gas Association, Arlington, VA, *Gas Facts*, annual. (Copyright.)

**No. 986. Wood Energy Consumption, by Region and Sector: 1980 to 1987**

[In trillions of Btu, except percent. For composition of regions, see fig. 1, inside front cover. NA Not available]

YEAR	Total	Percent of total energy consumption	REGION				SECTOR			
			North-east	Midwest	South	West	Residential	Industrial	Commercial	Electric utilities
1980	2,483	3.2	386	329	1,380	388	859	1,600	21	4
1981	2,412	3.2	389	331	1,291	402	869	1,519	21	3
1982	2,395	3.3	351	339	1,334	372	837	1,434	22	2
1983	2,556	3.5	369	318	1,471	396	925	1,606	22	3
1984	2,633	3.4	349	341	1,482	461	923	1,679	22	9
1987	2,437	7.0	350	474	1,147	467	852	1,576	(NA)	9

**No. 987. Households That Burn Wood: 1980 to 1987**

[Based on Residential Energy Consumption Survey; see Appendix III]

ITEM	Unit	HOUSEHOLDS THAT BURN WOOD					HOUSEHOLDS THAT BURN WOOD AS MAIN HEATING FUEL				
		1980	1981	1982	1984	1987	1980	1981	1982	1984	1987
Number of households	Millions	21.6	22.8	21.4	22.9	22.5	4.7	5.3	5.6	6.4	5.0
Percent of all households	Percent	26.4	27.4	25.6	26.6	24.8	5.8	6.4	6.7	7.5	5.6
Number of cords burned	Millions	42.7	44.0	48.6	49.0	42.6	22.4	24.7	28.7	29.4	23.5
Average number per household	Number	2.0	1.9	2.3	2.1	1.9	4.7	4.6	5.1	4.6	4.7
Median number per household	Number	0.7	1.0	1.0	1.0	0.7	3.3	3.0	4.0	4.0	4.0
Wood energy consumption	Tril. Btu	854	881	971	981	853	448	493	574	589	470

Source of tables 986 and 987: U.S. Energy Information Administration, *Annual Energy Review*.**No. 988. Water Power—Developed and Undeveloped Capacity, by Division: 1950 to 1989**[In millions of kilowatts. As of Dec. 31. Excludes Alaska and Hawaii for 1950 and all capacity of reversible equipment at pumped storage projects. Also excludes capacity precluded from development due to wild and scenic river legislation. For composition of division, see fig. 1, inside front cover. See also *Historical Statistics, Colonial Times to 1970*, series S 160-175]

DIVISION	DEVELOPED INSTALLED CAPACITY							ESTIMATED UNDEVELOPED CAPACITY						
	1950	1960	1970	1980	1985	1988	1989	1950	1960	1970	1980	1985	1988	1989
U.S.	18.7	33.2	52.0	64.4	68.8	71.3	71.8	87.6	114.2	128.0	129.9	76.4	75.8	75.2
New England	1.2	1.5	1.5	1.5	1.7	1.9	1.9	3.3	2.9	3.3	4.7	4.4	4.5	4.5
Middle Atlantic	1.7	2.5	4.3	4.3	4.5	4.8	4.8	6.6	7.6	4.5	5.1	5.4	5.8	5.2
East North Central	0.9	0.9	0.9	0.9	1.1	1.1	1.1	2.3	3.0	1.6	2.0	1.8	1.7	1.7
West North Central	0.6	1.6	2.7	2.8	2.9	3.1	3.1	5.8	6.4	4.4	3.4	3.1	3.1	3.1
South Atlantic	2.8	3.8	5.3	5.9	6.5	6.6	6.7	8.2	8.4	9.6	9.6	7.4	7.2	7.1
East South Central	2.7	3.8	5.2	5.6	5.9	5.9	5.9	4.7	4.6	3.8	3.3	2.7	2.4	2.4
West South Central	0.5	0.9	1.9	2.3	2.3	2.4	2.4	3.6	3.9	3.3	4.7	5.4	4.9	4.8
Mountain	2.3	4.6	6.2	7.4	8.1	8.5	8.9	23.4	23.6	26.7	34.2	19.4	19.4	19.3
Pacific	6.0	13.6	23.9	33.7	35.8	37.1	36.8	29.8	53.8	70.9	62.9	26.8	26.9	27.0

Source: U.S. Federal Energy Regulatory Commission (formerly U.S. Federal Power Commission), *Hydroelectric Power Resources of the United States, Developed and Undeveloped*, January 1, 1988; and unpublished data.**No. 989. Solar Collector Shipments, by Type, End-Use, and Market Sector: 1975 to 1988**

[In thousands of square feet, except number of manufacturers. Solar collector is a device for intercepting sunlight, converting the light to heat, and carrying the heat to where it will be either used or stored. 1985 data are not available]

YEAR	Number of manufacturers	Total shipments <sup>1</sup>	COLLECTOR TYPE		END USE			MARKET SECTOR		
			Low temperature	Medium temperature, special, other	Pool heating	Hot water	Space heating	Residential	Commercial	Industrial
1975	131	3,743	3,026	717	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1976	186	5,801	3,876	1,925	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1977	321	10,312	4,743	5,569	6,334	1,713	1,699	7,978	1,680	105
1978	340	10,860	5,872	4,988	5,970	2,513	1,736	6,095	1,848	263
1979	349	14,251	8,395	5,857	8,551	2,958	1,722	11,387	2,015	314
1980	233	19,398	12,233	7,165	12,029	4,790	1,688	16,077	2,417	488
1981	203	20,133	8,677	11,456	9,781	7,204	2,017	15,773	2,561	1,518
1982	265	18,821	7,476	11,145	7,035	7,444	2,367	13,729	3,789	560
1983	203	16,828	4,853	11,975	4,839	9,323	2,082	11,780	3,039	1,665
1984	224	16,419	4,479	11,939	4,427	8,930	2,370	13,980	2,091	289
1986 <sup>2</sup>	97	4,862	3,751	1,111	3,494	1,181	127	4,131	703	13
1987 <sup>2</sup>	58	4,114	3,157	957	3,111	964	23	3,775	305	11
1988 <sup>2</sup>	50	4,059	3,326	732	3,304	726	7	3,796	255	7

NA Not available. <sup>1</sup> Includes other end uses and market sectors not shown separately. <sup>2</sup> Declines between 1984 and 1988 are primarily due to the expiration of the Federal energy tax credit and industry consolidation.Source: U.S. Energy Information Administration, *Solar Collector Manufacturing Activity*, annual.



## Section 20 Science and Technology

This section presents statistics on scientific, engineering, and technological resources, with emphasis on patterns of research and development (R&D) funding and on scientific, engineering, and technical personnel, education, and employment. Also included are statistics on space program outlays and accomplishments. Principal sources of these data are the National Science Foundation (NSF) and the National Aeronautics and Space Administration (NASA).

NSF gathers data chiefly through recurring surveys. Current NSF publications containing data on funds for research and development and on scientific and engineering personnel include the *Science Resources Studies Highlights* summaries series; Detailed Statistical Tables; and annual, biennial, triennial, and special reports. Titles or the areas of coverage of these reports include the following: *Science and Engineering Indicators*; *National Patterns of R&D Resources*; *Science and Engineering Personnel-A National Overview*; *Women and Minorities in Science and Engineering*; science and technology data presented in chart and tabular form in a pocket-size publication; *International Science and Technology Data Update*; profiles on human resources and funding in individual fields of science and engineering; *Federal Funds for Research and Development*; *Federal R&D Funding by Budget Function*; *Federal Support to Universities, Colleges, and Selected Nonprofit Institutions*; *Scientific and Engineering Facilities at Universities and Colleges*; *Geographic Distribution of Industrial R&D Expenditures*; *Research and Development in Industry*; R&D funds and graduate enrollment and support in academic science and engineering; characteristics of doctoral scientists and engineers and of recent graduates in the United States; *U.S. Scientists and Engineers*; and scientists, engineers, and technicians in manufacturing, nonmanufacturing, and trade and regulated industries. Statistical surveys in these areas pose problems of concept and definition and the data should, therefore, be regarded as broad estimates rather than precise quantitative statements. See sources for details.

The National Science Board's biennial *Science and Engineering Indicators* contains data and analyses of international and domestic science and technology, including measures of inputs and outputs. *The Budget of the United States Government*, published by the U.S. Office of Management and Budget, contains summary financial data on Federal R&D programs.

**Research and development outlays.**—NSF defines research as a "systematic and intensive study directed toward a fuller knowledge of the subject studied" and development as "the systematic use of scientific knowledge directed toward the production of useful materials, devices, systems, methods, or processes." National coverage of R&D expenditures is developed primarily from periodic surveys in four principal economic sectors: (1) *Government*, made up primarily of Federal executive agencies; (2) *industry*, consisting of manufacturing and nonmanufacturing firms and the federally funded research and development centers (FFRDCs) they administer; (3) *universities and colleges*, composed of universities, colleges, and their affiliated institutions, agricultural experiment stations, and associated schools of agriculture, and FFRDCs administered by educational institutions; and (4) *other nonprofit institutions*, consisting of such organizations as private philanthropic foundations, nonprofit research institutes, voluntary health agencies, and FFRDCs administered by nonprofit organizations. The R&D funds reported consist of current operating costs, including planning and administration costs, except as otherwise noted. They exclude funds for routine testing, mapping and surveying, collection of general-purpose data, dissemination of scientific information, and training of scientific personnel.

**Scientists, engineers, and technicians.**—Scientists and engineers are defined as persons engaged in scientific and engineering work at a level requiring a knowledge of sciences equivalent at least to that acquired through completion of a 4-year college course. Technicians are defined as persons engaged in technical work at a level requiring knowledge acquired through a technical institute, junior college, or other type of training less extensive than 4-year college training. Craftsmen and skilled workers are excluded.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

**No. 990. Research and Development (R&D)—Outlays: 1955 to 1989**

[Includes basic research, applied research, and development. Defense-related outlays comprise all research and development spending by Dept. of Defense, including space activities, and a portion of Department of Energy funds. Space-related outlays are those of the National Aeronautics and Space Administration; they exclude space activities of other Federal agencies, estimated at less than 5 percent of all space research and development spending. Minus sign (-) indicates decrease]

YEAR OR PERIOD	CURRENT DOLLARS (bil. dol.)			CONSTANT (1982) DOLLARS <sup>1</sup>		ANNUAL PERCENT CHANGE <sup>3</sup>		PERCENT OF TOTAL R&D OUTLAYS					
	Total	Defense space related	Other	Total (bil. dol.)	Percent of GNP <sup>2</sup>	Current dollars	Constant dollars	Federally funded defense/space-related			Other outlays		
								Total	Defense	Space	Total	Non-federal	Federal
1955	6.2	3.0	3.1	22.8	1.5	9.4	6.1	49	48	1	51	43	8
1960	13.5	7.4	6.1	43.6	2.6	9.4	7.5	55	52	3	44	35	9
1961	14.3	8.0	6.3	45.8	2.7	5.9	4.9	56	50	6	44	35	9
1962	15.4	8.5	6.9	48.2	2.7	7.5	5.2	55	48	7	45	36	9
1963	17.1	9.4	7.7	52.6	2.8	10.8	9.2	55	41	14	45	34	11
1964	18.9	10.6	8.3	57.2	2.9	10.5	8.8	56	37	19	43	34	9
1965	20.0	10.8	9.2	59.4	2.8	6.3	3.8	54	33	21	46	35	11
1966	21.8	11.4	10.5	62.6	2.8	9.0	5.5	52	33	19	48	36	12
1967	23.1	11.3	11.8	64.4	2.8	6.0	2.9	49	35	14	51	38	13
1968	24.6	11.8	12.8	65.5	2.8	6.3	1.6	48	35	13	52	39	13
1969	25.6	11.5	14.1	64.7	2.7	4.2	-1.2	45	34	11	55	42	13
1970	26.1	11.2	14.9	62.4	2.6	2.0	-3.5	43	33	10	57	43	14
1971	26.7	10.9	15.7	60.4	2.4	2.1	-3.2	41	32	9	59	44	15
1972	28.5	11.7	16.8	61.4	2.3	6.7	1.7	41	32	9	59	44	15
1973	30.7	11.7	19.0	62.4	2.3	7.9	1.7	38	30	8	62	47	15
1974	32.9	12.2	20.7	61.5	2.2	7.0	-1.5	37	30	7	63	49	14
1975	35.2	13.0	22.2	59.9	2.2	7.2	-2.6	37	29	8	64	49	15
1976	39.0	14.0	25.0	62.1	2.2	10.8	3.8	36	28	8	65	49	16
1977	42.8	15.0	27.8	63.7	2.1	9.6	2.4	35	28	7	66	50	16
1978	48.1	15.9	32.2	66.8	2.1	12.5	4.9	33	27	6	67	50	17
1979	54.9	17.6	37.3	70.1	2.2	14.1	4.9	32	26	6	69	51	18
1980	62.6	18.8	43.8	73.2	2.3	13.9	4.5	30	25	5	70	53	17
1981	71.9	21.6	50.3	76.6	2.4	14.8	4.6	30	25	5	70	54	16
1982	80.0	25.6	54.4	80.0	2.5	11.3	4.4	32	27	5	68	54	14
1983	89.1	28.5	60.6	85.7	2.6	11.4	7.2	32	28	4	68	54	14
1984	101.1	33.4	67.7	93.8	2.7	13.5	9.4	33	29	4	67	55	12
1985	113.7	38.7	75.1	102.4	2.8	12.5	9.2	34	30	4	66	54	12
1986	119.9	40.8	79.1	105.2	2.8	5.4	2.7	34	30	4	66	54	12
1987	127.3	40.7	86.6	108.3	2.8	6.2	3.0	32	28	4	68	54	14
1988	135.2	43.3	92.0	111.4	2.8	6.2	2.9	32	28	4	68	54	14
1989, est.	142.0	46.9	95.1	112.1	2.7	5.0	0.6	33	28	5	67	54	13

<sup>1</sup> Based on GNP implicit price deflator. <sup>2</sup> GNP ... Gross National Product. <sup>3</sup> Change from prior year shown; 1955 change from 1954.

Source: U.S. National Science Foundation, *National Patterns of R&D Resources: 1990*, and unpublished data.

**No. 991. Research and Development (R&D)—Source of Funds and Performance Sector: 1970 to 1989**

[In millions of dollars. See headnote, table 992]

YEAR	Total	SOURCE OF FUNDS				PERFORMANCE SECTOR					
		Federal Govt.	Industry	Univ., col-leges	Other <sup>1</sup>	Federal Govt.	Industry	Univ., col-leges	Associated FFRDC's <sup>2</sup>	Other <sup>1</sup>	
<b>Current dollars:</b>											
1970	26,134	14,891	10,444	462	337	4,079	18,067	2,335	737	916	
1975	35,213	18,109	15,820	749	535	5,354	24,187	3,409	987	1,276	
1980	62,582	29,452	30,914	1,316	900	7,632	44,505	6,049	2,246	2,150	
1981	71,851	33,405	35,947	1,540	959	8,426	51,810	6,829	2,486	2,300	
1982	80,001	36,574	40,694	1,719	1,014	9,141	58,650	7,306	2,479	2,425	
1983	89,126	40,829	45,252	1,918	1,127	10,582	65,268	7,864	2,737	2,675	
1984	101,116	45,635	52,203	2,091	1,187	11,572	74,800	8,594	3,150	3,000	
1985	113,745	52,070	57,979	2,356	1,340	12,945	84,239	9,663	3,523	3,375	
1986	119,863	54,629	61,074	2,772	1,388	13,535	88,179	10,904	3,895	3,350	
1987	127,316	58,508	64,088	3,135	1,585	13,413	94,117	12,080	4,206	3,500	
1988	135,231	62,136	67,855	3,437	1,803	14,281	99,422	13,422	4,531	3,575	
1989, est.	142,000	65,850	70,350	3,850	1,950	15,800	103,000	14,450	4,850	3,900	
<b>Constant (1982) dollars: <sup>3</sup></b>											
1970	62,403	35,632	24,851	1,114	807	9,833	42,986	5,629	1,777	2,179	
1975	59,882	30,985	26,679	1,302	916	9,308	40,781	5,926	1,716	2,151	
1980	73,222	34,547	36,067	1,553	1,055	9,006	51,919	7,138	2,650	2,508	
1981	76,623	35,686	38,260	1,652	1,024	9,040	55,140	7,327	2,667	2,448	
1982	80,001	36,574	40,694	1,719	1,014	9,141	58,650	7,306	2,479	2,425	
1983	85,741	39,249	43,569	1,840	1,083	10,152	62,842	7,545	2,626	2,576	
1984	93,768	42,281	48,455	1,933	1,099	10,696	69,433	7,943	2,912	2,785	
1985	102,396	46,825	52,254	2,112	1,205	11,606	75,925	8,664	3,159	3,042	
1986	105,159	47,868	53,655	2,421	1,216	11,820	77,472	9,522	3,401	2,943	
1987	108,317	49,728	54,586	2,657	1,347	11,367	80,168	10,237	3,564	2,981	
1988	111,434	51,175	55,947	2,827	1,485	11,744	81,977	11,038	3,726	2,948	
1989, est.	112,080	51,957	55,550	3,035	1,538	12,454	81,333	11,390	3,823	3,080	

<sup>1</sup> Nonprofit institutions. <sup>2</sup> University associated federally-funded R&D centers. <sup>3</sup> Based on gross national product implicit price deflator.

Source: U.S. National Science Foundation, *National Patterns of R&D Resources: 1990*.



### No. 992. Research and Development (R&D) Funds, by Performance Sector and Source: 1970 to 1989

[In millions of dollars, except percent. Data primarily on calendar year basis—calendar year data for industry and other nonprofit institutions combined with Federal and university fiscal year data. Data refer, in general, to natural sciences including engineering, and to social sciences in all but industry sector. Excludes capital expenditures data. Expenditures at associated federally funded research and development centers administered by industry and other nonprofit institutions included in totals of respective sectors. See also *Historical Statistics, Colonial Times to 1970*, series W 109-125]

PERFORMANCE SECTOR AND SOURCE OF FUNDS	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989, est.
<b>Total R&amp;D</b> <sup>1</sup>	<b>26,134</b>	<b>62,582</b>	<b>80,001</b>	<b>89,126</b>	<b>101,116</b>	<b>113,745</b>	<b>119,863</b>	<b>127,316</b>	<b>135,231</b>	<b>142,000</b>
In 1982 dollars <sup>2</sup>	62,403	73,222	80,001	85,741	93,768	102,396	105,159	108,317	111,434	112,080
Percent Federal as source	57.0	47.1	45.7	45.8	45.1	45.8	45.8	46.0	45.9	46.4
Percent of gross national product	2.6	2.3	2.5	2.6	2.7	2.8	2.8	2.8	2.8	2.7
Federal Government	4,079	7,632	9,141	10,582	11,572	12,945	13,535	13,413	14,281	15,800
Industry	18,067	44,505	58,650	65,268	74,800	84,239	88,179	94,117	99,422	103,000
Federal funds	7,779	14,029	18,545	20,680	23,396	27,196	28,247	31,311	32,959	34,200
Industry funds	10,288	30,476	40,105	44,588	51,404	57,043	59,932	62,806	66,463	68,800
Universities and colleges	2,335	6,049	7,306	7,864	8,594	9,663	10,904	12,080	13,422	14,450
Federal funds	1,647	4,095	4,759	4,980	5,417	6,056	6,702	7,328	8,165	8,600
Industry funds	81	238	339	389	474	561	717	807	892	1,000
University and college funds <sup>3</sup>	462	1,316	1,719	1,918	2,091	2,356	2,772	3,135	3,437	3,850
Other nonprofit institutions funds <sup>3</sup>	165	400	489	577	612	690	773	810	928	1,000
Universities and colleges, associated federally funded R&D centers	737	2,246	2,479	2,737	3,150	3,523	3,895	4,206	4,531	4,850
Other nonprofit institutions	916	2,150	2,425	2,675	3,000	3,375	3,350	3,500	3,575	3,900
Federal funds	649	1,450	1,650	1,850	2,100	2,350	2,250	2,250	2,200	2,400
Industry funds	95	200	250	275	325	375	425	475	500	550
Other	172	500	525	550	575	650	675	775	875	950
<b>Total research, basic and applied</b> <sup>2</sup>	<b>9,269</b>	<b>22,265</b>	<b>28,927</b>	<b>32,316</b>	<b>35,733</b>	<b>40,008</b>	<b>44,120</b>	<b>46,756</b>	<b>49,357</b>	<b>52,170</b>
In 1982 dollars <sup>2</sup>	22,198	26,122	28,927	31,066	33,108	35,980	38,667	39,741	40,651	41,184
Percent Federal as source	60.1	55.3	52.1	52.4	51.5	51.4	47.1	47.8	47.5	47.9
Federal Government	1,904	3,666	4,194	4,710	4,764	5,056	5,160	5,438	5,338	5,900
Industry	4,029	9,775	14,227	16,150	18,373	21,117	23,787	24,820	25,856	26,750
Federal funds	1,207	2,190	3,341	4,104	4,700	5,836	5,209	5,694	5,902	6,150
Industry funds	2,822	7,585	10,886	12,046	13,673	15,281	18,578	19,126	19,954	20,600
Universities and colleges	2,223	5,712	6,903	7,438	8,172	9,211	10,385	11,498	12,779	13,740
Federal funds	1,563	3,895	4,534	4,755	5,217	5,858	6,477	7,078	7,890	8,300
Industry funds	56	221	315	362	441	522	667	751	830	930
University and college funds <sup>3</sup>	449	1,224	1,599	1,784	1,945	2,191	2,578	2,916	3,196	3,580
Other nonprofit institutions funds <sup>3</sup>	155	372	455	537	569	642	663	753	863	930
Universities and colleges, associated federally funded R&D centers	485	1,627	1,923	2,198	2,479	2,584	2,633	2,705	2,919	3,170
Other nonprofit institutions	628	1,465	1,680	1,820	1,945	2,040	2,155	2,295	2,465	2,610
Federal funds	409	930	1,075	1,180	1,250	1,250	1,300	1,325	1,400	1,450
Industry funds	77	160	200	220	260	300	340	380	400	440
Other	142	395	405	420	435	490	515	590	665	720
<b>Total basic research</b>	<b>3,531</b>	<b>8,410</b>	<b>10,415</b>	<b>11,618</b>	<b>12,883</b>	<b>14,178</b>	<b>16,570</b>	<b>17,780</b>	<b>18,460</b>	<b>19,880</b>
In 1982 dollars <sup>2</sup>	8,483	9,896	10,415	11,157	11,922	12,731	14,498	15,091	15,193	15,678
Percent of total R&D	13.5	13.4	13.0	13.0	12.7	12.5	13.8	14.0	13.7	14.0
Percent Federal as source	70.0	70.1	68.1	66.8	65.8	64.7	60.3	61.2	61.3	61.6
Federal Government	559	1,182	1,465	1,690	1,861	1,923	2,019	2,046	2,050	2,350
Industry	602	1,325	1,904	2,223	2,608	2,862	4,046	4,149	3,988	4,050
Federal funds	158	290	381	463	476	489	550	757	633	650
Industry funds	444	1,035	1,523	1,760	2,132	2,373	3,496	3,392	3,355	3,400
Universities and colleges	1,796	4,019	4,864	5,288	5,709	6,539	7,476	8,343	8,870	9,800
Federal funds	1,296	2,852	3,392	3,538	3,816	4,341	4,866	5,372	5,661	6,000
Industry funds	40	142	196	236	282	342	445	505	544	615
University and college funds <sup>3</sup>	350	786	993	1,164	1,246	1,436	1,722	1,960	2,099	2,370
Other nonprofit institutions funds <sup>3</sup>	110	239	283	350	365	420	443	506	566	615
Universities and colleges, associated federally funded R&D centers	269	1,124	1,317	1,472	1,675	1,749	1,859	2,012	2,222	2,450
Other nonprofit institutions	305	760	865	945	1,030	1,105	1,170	1,230	1,330	1,430
Federal funds	189	450	535	600	650	675	700	700	750	800
Industry funds	44	95	115	125	150	170	200	220	230	250
Other	72	215	215	220	230	260	270	310	350	380
<b>Total development</b>	<b>16,865</b>	<b>40,317</b>	<b>51,074</b>	<b>56,810</b>	<b>65,383</b>	<b>73,737</b>	<b>75,743</b>	<b>80,560</b>	<b>85,874</b>	<b>89,830</b>
In 1982 dollars <sup>2</sup>	40,206	47,100	51,074	54,675	60,660	66,416	66,493	68,578	70,782	70,916
Percent of total R&D	64.5	64.4	63.8	63.7	64.7	64.8	63.2	63.3	63.5	63.3
Percent Federal as source	55.3	42.5	42.1	42.0	41.6	42.7	44.7	45.0	45.1	45.5

<sup>1</sup> Basic research, applied research, and development. <sup>2</sup> Based on gross national product implicit price deflator. <sup>3</sup> Includes State and local government funds received by these institutions and used for research and development. <sup>4</sup> Includes estimates for independent nonprofit hospitals and voluntary health agencies.

Source: U.S. National Science Foundation, *National Patterns of R&D Resources: 1990*.

**No. 993. Funds for Research and Development—Performance Sector by State: 1987**

[In millions of dollars. See headnote, table 992. Data may differ slightly due to revisions not available on the State level]

REGION, DIVISION, AND STATE	Total	Indus- try	Federal govern- ment	Univer- sities and col- leges <sup>1</sup>	Other non- profit <sup>2</sup>	REGION, DIVISION, AND STATE	Total	Indus- try	Federal govern- ment	Univer- sities and col- leges <sup>1</sup>	Other non- profit <sup>2</sup>
<b>U.S. . . .</b>	<b>127,862</b>	<b>94,282</b>	<b>13,413</b>	<b>16,284</b>	<b>3,883</b>	<b>VA . . . .</b>	<b>2,561</b>	<b>1,342</b>	<b>884</b>	<b>207</b>	<b>129</b>
<b>Northeast . .</b>	<b>32,120</b>	<b>25,654</b>	<b>1,561</b>	<b>3,792</b>	<b>1,112</b>	<b>WV . . . .</b>	<b>188</b>	<b>87</b>	<b>57</b>	<b>44</b>	<b>1</b>
<b>N.E. . . .</b>	<b>11,340</b>	<b>8,324</b>	<b>862</b>	<b>1,482</b>	<b>671</b>	<b>NC . . . .</b>	<b>2,219</b>	<b>1,741</b>	<b>130</b>	<b>314</b>	<b>35</b>
ME . . . .	79	41	5	17	15	SC . . . .	649	523	12	96	18
NH . . . .	161	94	19	48	(2)	GA . . . .	1,429	1,001	96	324	8
VT . . . .	283	247	4	32	(2)	FL . . . .	3,123	2,133	719	252	19
MA . . . .	7,772	5,492	576	1,073	632	<b>E.S.C. . .</b>	<b>3,903</b>	<b>2,534</b>	<b>864</b>	<b>461</b>	<b>43</b>
RI . . . .	554	234	240	66	15	KY . . . .	356	249	27	78	2
CT . . . .	2,474	2,216	18	231	9	TN . . . .	941	649	126	153	13
<b>M.A. . . .</b>	<b>20,780</b>	<b>17,330</b>	<b>700</b>	<b>2,310</b>	<b>441</b>	AL . . . .	2,352	1,592	584	153	23
NY . . . .	8,403	6,559	160	1,351	333	MS . . . .	234	44	127	58	5
NJ . . . .	6,728	6,141	255	323	9	<b>W.S.C. . .</b>	<b>6,526</b>	<b>4,914</b>	<b>433</b>	<b>1,107</b>	<b>71</b>
PA . . . .	5,631	4,630	284	619	98	AR . . . .	195	135	24	36	1
<b>Midwest . .</b>	<b>28,821</b>	<b>24,224</b>	<b>1,387</b>	<b>2,994</b>	<b>217</b>	LA . . . .	321	134	35	149	3
<b>E.N.C. . .</b>	<b>21,984</b>	<b>18,429</b>	<b>1,237</b>	<b>2,170</b>	<b>148</b>	OK . . . .	534	384	34	99	17
OH . . . .	4,936	3,569	991	329	47	TX . . . .	5,462	4,261	341	811	49
IN . . . .	2,197	1,944	64	188	1	<b>West . . .</b>	<b>36,902</b>	<b>27,387</b>	<b>3,075</b>	<b>5,773</b>	<b>686</b>
IL . . . .	5,369	4,284	73	942	70	<b>Mt. . . .</b>	<b>7,067</b>	<b>4,484</b>	<b>854</b>	<b>1,632</b>	<b>117</b>
MI . . . .	7,922	7,415	87	397	23	MT . . . .	55	7	15	30	(2)
WI . . . .	1,549	1,217	22	303	7	ID . . . .	532	488	15	25	4
<b>W.N.C. . .</b>	<b>6,837</b>	<b>5,795</b>	<b>150</b>	<b>824</b>	<b>68</b>	WY . . . .	36	4	8	17	7
MN . . . .	2,533	2,242	26	222	42	CO . . . .	1,705	1,261	133	238	73
IA . . . .	540	343	20	177	(2)	NM . . . .	2,388	993	421	963	11
MO . . . .	2,174	1,905	46	207	16	AZ . . . .	1,145	845	83	207	10
ND . . . .	120	60	20	39	1	UT . . . .	1,034	809	99	121	5
SD . . . .	23	4	6	12	1	NV . . . .	168	57	77	28	6
NE . . . .	158	62	22	72	2	<b>Pac. . . .</b>	<b>29,835</b>	<b>22,923</b>	<b>2,221</b>	<b>4,141</b>	<b>549</b>
KS . . . .	1,288	1,179	9	94	6	WA . . . .	3,523	3,071	122	238	93
<b>South . . .</b>	<b>27,685</b>	<b>16,556</b>	<b>6,913</b>	<b>3,648</b>	<b>468</b>	OR . . . .	474	294	32	132	16
<b>S.A. . . .</b>	<b>17,256</b>	<b>9,208</b>	<b>5,615</b>	<b>2,080</b>	<b>354</b>	CA . . . .	25,557	19,475	2,011	3,849	422
DE . . . .	(3) <sup>(1)</sup>	(3) <sup>(1)</sup>	3	32	3	AK . . . .	86	10	23	30	13
MD . . . .	4,609	1,350	2,507	710	41	HI . . . .	159	73	33	57	5
DC . . . .	(3) <sup>(1)</sup>	(3) <sup>(1)</sup>	1,208	85	100	Undistributed	2,333	361	477	76	1,419

Z Less than \$0.5 million. <sup>1</sup> Distribution by States includes R&D performed in only Doctoral degree granting institutions; data shown by region and division includes R&D performed in all institutions. <sup>2</sup> For other sector, funds distributed by State include only Federal obligations to organizations in the nonprofit sector (\$2,081 million) and all State governments' intramural R&D performance (\$383 million). Nonprofit R&D performance using non-Federal funds are undistributed. <sup>3</sup> For the industry sector, reported data fall within the range specified, but have been withheld by the Census Bureau to avoid disclosing individual company operations. Range for state total is R&D performance of Federal government, universities and colleges, and other sector, plus the low and high ends of the industry R&D performance range. <sup>4</sup> Between \$884 and \$1,030 million. <sup>5</sup> Between \$846 and \$992 million. <sup>6</sup> Between \$1,432 and \$1,578 million. <sup>7</sup> Between \$39 and \$185 million.

Source: U.S. National Science Foundation, *National Patterns of R&D Resources: 1989*.**No. 994. Federal Obligations for Research and Development, by Agency in Current and Constant (1982) Dollars: 1975 to 1990**

[In millions of dollars, except percent. For fiscal years ending in year shown; see text, section 9. Includes those agencies with obligations of \$1 billion dollars or more in 1990. See *Historical Statistics, Colonial Times to 1970*, series W 142, for total R&D expenditures]

AGENCY	1975	1980	1983	1984	1985	1986	1987	1988	1989, est.	1990, est.
<b>CURRENT DOLLARS</b>										
<b>Obligations, total <sup>1</sup></b>	<b>19,039</b>	<b>29,830</b>	<b>38,712</b>	<b>42,225</b>	<b>46,380</b>	<b>51,412</b>	<b>55,253</b>	<b>56,935</b>	<b>61,902</b>	<b>66,084</b>
Dept. of Defense . . . .	9,013	13,981	22,993	25,373	29,792	32,938	35,232	35,415	37,630	40,242
Dept. of Health and Human Services . . . .	2,281	3,780	4,353	4,831	5,451	5,658	6,606	7,158	7,888	8,376
National Aeronautics and Space Administration . . . .	3,064	3,234	2,662	2,822	3,327	3,420	3,787	4,330	5,688	6,870
Dept. of Energy . . . .	2,047	4,754	4,537	4,674	4,966	4,688	4,757	5,036	5,479	5,282
National Science Foundation . . . .	595	882	1,062	1,203	1,346	1,353	1,471	1,533	1,664	1,881
Dept. of Agriculture . . . .	420	688	848	866	943	929	948	1,017	1,049	1,045
<b>CONSTANT (1982) DOLLARS <sup>2</sup></b>										
<b>Obligations, total <sup>1</sup></b>	<b>33,098</b>	<b>35,202</b>	<b>37,140</b>	<b>39,028</b>	<b>43,359</b>	<b>44,898</b>	<b>46,823</b>	<b>46,822</b>	<b>48,794</b>	<b>49,954</b>
Dept. of Defense . . . .	15,668	16,499	22,059	23,452	26,711	28,764	29,856	29,125	29,662	30,419
Dept. of Health and Human Services . . . .	3,965	4,461	4,176	4,465	4,887	4,941	5,598	5,887	6,218	6,331
National Aeronautics and Space Administration . . . .	5,327	3,816	2,554	2,608	2,983	2,986	3,209	3,561	4,484	5,193
Dept. of Energy . . . .	3,559	5,610	4,352	4,320	4,452	4,094	4,031	4,142	4,319	3,993
National Science Foundation . . . .	1,034	1,041	1,019	1,112	1,206	1,182	1,246	1,261	1,311	1,422
Dept. of Agriculture . . . .	730	811	813	801	845	811	803	836	827	790

<sup>1</sup> Includes other agencies, not shown separately. <sup>2</sup> See footnote 1, table 990.Source: U.S. National Science Foundation, *Federal Funds for Research and Development*, annual.

### No. 995. Federal Funding for Research and Development, by Selected Budget Function, in Current and Constant (1982) Dollars: 1980 to 1991

[In millions of dollars. For fiscal years ending in year shown; see text, section 9. Excludes R&D plant. Represents budget authority. Functions shown are those for which \$1 billion or more was authorized for 1991. See *Historical Statistics, Colonial Times to 1970*, series W 126, for total obligations]

FUNCTION	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990, est.	1991, est.
<b>CURRENT DOLLARS</b>											
<b>Total</b> <sup>1</sup>	<b>29,739</b>	<b>36,115</b>	<b>38,768</b>	<b>44,214</b>	<b>49,887</b>	<b>53,249</b>	<b>57,069</b>	<b>59,106</b>	<b>62,115</b>	<b>63,805</b>	<b>68,278</b>
8 functions, percent of total	96.5	97.9	98.1	98.1	98.3	98.3	98.2	98.3	98.2	98.4	98.3
National defense	14,946	22,070	24,936	29,287	33,698	36,926	39,152	40,099	40,642	39,877	41,421
Health	3,694	3,869	4,298	4,779	5,418	5,565	6,556	7,076	7,773	8,358	8,793
Space research and technology	2,738	2,584	2,134	2,300	2,725	2,894	3,398	3,683	4,555	5,577	7,556
General science	1,233	1,359	1,502	1,676	1,862	1,873	2,042	2,160	2,373	2,499	2,813
Energy	3,603	3,012	2,578	2,581	2,389	2,286	2,053	2,126	2,419	2,991	2,761
Natural resources and environment	999	965	952	963	1,059	1,062	1,133	1,160	1,255	1,362	1,408
Transportation	887	791	876	1,040	1,030	917	908	896	1,064	1,144	1,342
Agriculture	585	693	745	762	836	815	822	882	907	949	1,010
<b>CONSTANT (1982) DOLLARS</b> <sup>2</sup>											
<b>Total</b> <sup>1</sup>	<b>35,094</b>	<b>36,115</b>	<b>37,194</b>	<b>40,866</b>	<b>44,728</b>	<b>46,502</b>	<b>48,362</b>	<b>48,608</b>	<b>48,962</b>	<b>48,231</b>	<b>49,624</b>
National defense	17,637	22,070	23,923	27,070	30,213	32,247	33,179	32,977	32,036	30,144	30,105
Health	4,359	3,869	4,123	4,417	4,858	4,860	5,556	5,819	6,127	6,318	6,391
Space research and technology	3,231	2,584	2,047	2,126	2,443	2,527	2,880	3,029	3,590	4,216	5,492
General science	1,455	1,359	1,441	1,549	1,669	1,636	1,730	1,776	1,871	1,889	2,044
Energy	4,252	3,012	2,473	2,386	2,142	1,996	1,740	1,748	1,807	2,261	2,007
Natural resources and environment	1,179	965	913	890	949	927	960	954	989	1,030	1,023
Transportation	1,047	791	840	961	923	801	769	737	839	865	975
Agriculture	690	693	715	704	750	712	697	725	715	717	734

<sup>1</sup> Includes other functions, not shown separately. <sup>2</sup> See footnote 1, table 990.

Source: U.S. National Science Foundation, *Federal R&D Funding by Budget Function*, annual.

### No. 996. National Research and Development (R&D) Expenditures as a Percent of Gross National Product, by Country: 1975 to 1989

YEAR	TOTAL R&D					NON DEFENSE R&D <sup>1</sup>				
	United States	France	West Germany	Japan	United Kingdom	United States	France	West Germany	Japan	United Kingdom
1975	2.2	1.8	2.2	2.0	2.1	1.6	1.5	2.1	2.0	1.5
1980	2.3	1.8	2.4	2.2	(NA)	1.7	1.4	2.3	2.2	(NA)
1985	2.8	2.3	2.8	2.8	2.3	2.0	1.8	2.5	2.8	1.6
1987	2.8	2.3	2.8	2.8	2.3	2.0	1.8	2.7	2.8	1.7
1988	2.8	2.3	2.8	2.9	2.2	2.0	1.8	2.6	2.9	1.7
1989	2.7	(NA)	(NA)	(NA)	(NA)	1.9	(NA)	(NA)	(NA)	(NA)

NA Not available. <sup>1</sup> Estimated.

Source: U.S. National Science Foundation, *Science Indicators*, biennial; *National Patterns of R&D Resources: 1990*; and *International Science and Technology Data Update*, annual.

### No. 997. Research and Development (R&D) Expenditures in Science and Engineering at Universities and Colleges in Current and Constant (1982) Dollars: 1981 to 1988

[In millions of dollars]

CHARACTERISTIC	1981	1985	1987	1988	CHARACTERISTIC	1981	1985	1987	1988
<b>CURRENT DOLLARS</b>					<b>CONSTANT (1982) DOLLARS</b>				
<b>Total</b>	<b>6,829</b>	<b>9,663</b>	<b>12,080</b>	<b>13,422</b>	<b>Total</b>	<b>7,327</b>	<b>8,664</b>	<b>10,237</b>	<b>11,038</b>
Basic research	4,578	6,539	8,343	8,870	Basic research	4,911	5,863	7,070	7,294
Applied R&D	2,252	3,124	3,737	4,552	Applied R&D	2,416	2,801	3,167	3,744
Source of funds:					Source of funds:				
All governments	5,107	6,804	8,349	9,287	All governments	5,479	6,100	7,075	7,638
Institutions' own funds	995	1,609	2,114	2,314	Institutions' own funds	1,067	1,442	1,792	1,903
Industry	294	561	807	892	Industry	315	503	684	734
Other	434	690	810	928	Other	466	619	686	763
Fields:					Fields:				
Physical sciences	765	1,144	1,382	1,532	Physical sciences	821	1,026	1,171	1,260
Environmental sciences	550	702	828	891	Environmental sciences	590	629	702	733
Mathematical sciences	87	128	178	199	Mathematical sciences	93	115	151	163
Computer sciences	132	281	372	410	Computer sciences	141	252	316	337
Life sciences	3,689	5,272	6,476	7,236	Life sciences	3,958	4,727	5,488	5,951
Psychology	127	158	188	214	Psychology	137	142	160	176
Social sciences	366	380	499	550	Social sciences	393	340	423	452
Other sciences	145	185	271	308	Other sciences	155	166	229	253
Engineering	968	1,414	1,885	2,084	Engineering	1,039	1,267	1,597	1,714

<sup>1</sup> See footnote 1, table 990.

Source: U.S. National Science Foundation, *Survey of Scientific and Engineering Expenditures at Universities and Colleges*, annual.

**No. 998. Federal Obligations to Universities and Colleges: 1970 to 1988**

[In millions of dollars, except percent. For fiscal years ending in year shown; see text, section 9. Total and nonscience/engineering activities for 1981-1983 are estimates based on revised student aid data from the Dept. of Education. Minus sign (-) indicates decrease]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
<b>CURRENT DOLLARS</b>											
<b>Federal obligations, total</b>	<b>3,237</b>	<b>4,547</b>	<b>8,299</b>	<b>8,641</b>	<b>8,777</b>	<b>9,345</b>	<b>10,039</b>	<b>10,972</b>	<b>11,619</b>	<b>13,433</b>	<b>14,073</b>
Annual percent change <sup>1</sup>	6.5	1.5	9.1	4.1	1.6	6.5	7.4	9.3	5.9	15.6	4.8
Academic science/engineering obligations	2,188	2,806	4,791	5,063	5,180	5,681	6,308	7,258	7,431	8,564	9,132
Percent of total	67.6	61.7	57.7	58.6	59.0	60.8	62.8	66.2	64.0	63.8	64.9
Research and development	1,447	2,246	4,161	4,411	4,554	5,024	5,449	6,246	6,457	7,239	7,717
Research and development plant	45	45	38	28	31	38	50	114	106	230	203
Other science/engineering activities	696	515	593	624	594	619	809	898	868	1,095	1,212
Nonscience/engineering activities	1,049	1,741	3,508	3,578	3,597	3,664	3,731	3,714	4,188	4,870	4,941
<b>CONSTANT (1982) DOLLARS<sup>2</sup></b>											
<b>Federal obligations, total</b>	<b>7,802</b>	<b>7,905</b>	<b>9,793</b>	<b>9,271</b>	<b>8,777</b>	<b>8,965</b>	<b>9,279</b>	<b>9,837</b>	<b>10,147</b>	<b>11,384</b>	<b>11,573</b>
Annual percent change <sup>1</sup>	0.6	-8.0	0.3	-5.3	-5.3	2.1	3.5	6.0	3.1	12.2	1.7
Academic science/engineering obligations	5,273	4,878	5,654	5,432	5,180	5,450	5,830	6,507	6,489	7,257	7,510
Percent of total	67.6	61.7	57.7	58.6	59.0	60.8	62.8	66.2	64.0	63.8	64.9
Research and development	3,487	3,905	4,910	4,732	4,554	4,820	5,036	5,600	5,839	6,135	6,346
Research and development plant	108	78	45	30	31	36	46	102	92	195	167
Other science/engineering activities	1,678	895	699	670	594	594	748	805	758	928	997
Nonscience/engineering activities	2,529	3,027	4,139	3,839	3,597	3,515	3,449	3,330	3,658	4,127	4,063

<sup>1</sup> Percent change from immediate prior year. <sup>2</sup> See footnote 1, table 990.

Source: U.S. National Science Foundation, *Survey of Federal Support to Universities, Colleges, and Selected Nonprofit Institutions*, annual.

**No. 999. Federal R&D Obligations to Selected Universities and Colleges: 1981 to 1988**

[For fiscal years ending in year shown; see text, section 9. For the top 45 institutions receiving Federal R&D funds in 1988. Awards to the administrative offices of university systems are excluded from totals for individual institutions because that allocation of funds is unknown, but those awards are included in "total all institutions"]

MAJOR INSTITUTION RANKED BY TOTAL 1988 FEDERAL R&D OBLIGATIONS	OBLIGATIONS (\$1,000)				RANK			
	1981	1985	1987	1988	1981	1985	1987	1988
<b>Total, all institutions<sup>1</sup></b>	<b>4,410,931</b>	<b>6,246,161</b>	<b>7,239,490</b>	<b>7,717,052</b>	<b>(X)</b>	<b>(X)</b>	<b>(X)</b>	<b>(X)</b>
45 institutions, percent of total	62.5	61.5	61.9	61.7	(X)	(X)	(X)	(X)
Johns Hopkins University	363,429	297,374	374,656	431,593	1	1	1	1
Stanford University	106,073	174,961	201,049	211,092	3	3	2	2
Massachusetts Institute of Technology	146,035	189,558	188,430	187,558	2	2	3	3
University of Washington	99,965	146,179	164,882	181,393	4	4	4	4
University of California—Los Angeles	94,945	128,211	147,795	154,547	5	5	6	5
University of Michigan	73,999	108,035	134,933	148,446	11	11	7	6
University of California—San Francisco	64,814	98,536	124,811	147,553	15	16	12	7
University of California—San Diego	91,403	103,633	151,768	139,149	6	13	5	8
Columbia University—Main Division	83,659	127,331	130,724	139,108	9	6	10	9
Yale University	73,526	109,227	132,909	135,421	12	10	9	10
Cornell University	72,671	119,966	128,695	134,568	13	8	11	11
University of Wisconsin—Madison	86,918	124,604	134,021	131,186	8	7	8	12
Harvard University	87,830	109,414	123,301	125,242	7	9	13	13
University of Pennsylvania	76,136	103,119	109,531	120,029	10	15	15	14
University of Minnesota	72,001	103,272	119,746	119,831	14	14	14	15
University of California—Berkeley	64,065	106,710	96,748	106,153	16	12	18	16
University of Colorado	46,146	71,424	87,999	105,772	22	23	21	17
Pennsylvania State University	47,099	76,726	94,572	105,243	21	19	19	18
University of Southern California	49,221	89,706	104,295	99,399	20	17	16	19
University of Illinois—Urbana	53,583	83,122	96,769	95,748	19	18	17	20
Washington University	54,170	71,978	89,055	95,388	17	22	20	21
University of Rochester	42,983	70,379	85,674	94,885	25	25	22	22
Duke University	44,287	69,169	84,622	92,763	23	26	23	23
University of NC at Chapel Hill	38,447	63,105	81,473	85,266	30	27	25	24
University of Chicago	53,992	71,194	82,769	84,668	18	24	24	25
University of Texas at Austin	43,756	72,379	76,495	84,400	24	21	26	26
New York University	40,636	74,577	75,986	79,516	28	20	27	27
University of Pittsburgh	38,512	58,620	72,236	79,380	29	28	28	28
Carnegie—Mellon University	21,915	48,872	69,454	74,577	57	38	29	29
University of Iowa	35,300	55,117	63,479	72,309	34	31	33	30
Yeshiva University	42,590	56,988	65,028	66,835	27	29	30	31
California Institute of Technology	32,959	55,083	57,122	65,982	40	32	36	32
University of Arizona	36,308	49,740	64,351	65,258	33	37	32	33
Baylor College of Medicine	35,062	45,837	56,255	63,117	35	45	39	34
Case Western Reserve University	33,744	47,994	56,774	62,989	38	40	37	35
Ohio State University	42,899	56,065	64,550	62,946	26	30	31	36
University of Massachusetts	22,418	46,046	57,926	62,300	55	44	35	37
University of Alabama—Birmingham	29,970	44,093	62,240	59,933	44	46	34	38
Vanderbilt University	27,426	39,909	54,653	58,389	49	48	40	39
University of Miami	28,956	33,709	49,547	58,241	46	59	46	40
University of Utah	38,163	50,938	56,590	56,686	31	36	38	41
University of Florida	30,845	47,716	52,888	55,748	43	41	43	42
University of California—Davis	31,757	43,156	50,289	55,239	42	47	44	43
University of Maryland—College Park	27,313	51,073	48,728	54,072	50	35	48	44
Boston University	27,019	46,152	53,381	53,930	51	43	41	45

X Not applicable. <sup>1</sup> Includes other institutions, not shown separately.

Source: U.S. National Science Foundation, *Federal Support to Universities and Colleges and Selected Non-Profit Institutions*, annual.

**No. 1000. Funds for Performance of Industrial Research and Development (R&D), by Source of Funds and Selected Industries, in Current and Constant (1982) Dollars: 1970 to 1988**

[In millions of dollars. Covers basic research, applied research, and development. See also *Historical Statistics, Colonial Times to 1970*, series W 144-160]

1972 SIC code	INDUSTRY	1970	1975	1980	1983	1984	1985	1986	1987	1988
(X)	CURRENT DOLLARS									
(X)	<b>Total funds</b>	<b>18,067</b>	<b>24,187</b>	<b>44,505</b>	<b>65,268</b>	<b>74,800</b>	<b>84,239</b>	<b>88,179</b>	<b>94,117</b>	<b>99,422</b>
28	Chemicals and allied products	1,773	2,727	4,636	7,185	7,927	8,540	8,843	9,878	10,774
13,29	Petroleum refining and extraction	515	693	1,552	(D)	(D)	(D)	(D)	1,897	1,958
35	Machinery	1,729	3,196	5,901	9,027	10,504	12,216	(D)	(D)	(D)
36	Electrical equipment	4,220	5,105	9,175	12,681	13,778	14,432	14,980	16,053	16,744
371	Motor vehicles and motor vehicles equipment	1,591	2,340	4,955	5,318	6,057	6,984	(D)	(D)	(D)
372,376	Aircraft and missiles	5,219	5,713	9,198	15,406	18,858	22,231	21,050	24,488	25,667
38	Professional and scientific instruments	744	1,173	3,029	4,286	4,602	5,013	5,103	5,264	5,561
(X)	All other <sup>2</sup>	2,276	3,240	6,059	(D)	(D)	(D)	(D)	(D)	(D)
(X)	<b>Company funds</b>	<b>10,288</b>	<b>15,582</b>	<b>30,476</b>	<b>44,588</b>	<b>51,404</b>	<b>57,043</b>	<b>59,932</b>	<b>62,806</b>	<b>66,463</b>
28	Chemicals and allied products	1,593	2,490	4,264	6,792	7,738	8,310	8,664	9,685	10,580
13,29	Petroleum refining and extraction	493	(D)	1,401	2,074	2,245	2,194	1,971	1,883	1,937
35	Machinery	1,469	2,687	5,254	7,911	10,721	10,701	10,819	12,132	12,132
36	Electrical equipment	2,008	2,798	5,431	8,158	9,037	9,271	8,767	10,602	11,193
371	Motor vehicles and motor vehicles equipment	1,278	2,022	4,300	4,754	5,384	6,164	7,171	7,267	7,769
372,376	Aircraft and missiles	1,213	1,285	2,570	4,010	4,764	5,649	6,066	5,969	5,852
38	Professional and scientific instruments	550	1,001	2,456	3,816	4,211	4,622	4,752	4,991	5,346
(X)	All other <sup>2</sup>	1,684	(D)	4,800	7,073	7,306	10,132	10,722	10,277	11,654
(X)	CONSTANT (1982) DOLLARS <sup>3</sup>									
(X)	<b>Total funds</b>	<b>42,986</b>	<b>40,781</b>	<b>51,919</b>	<b>62,842</b>	<b>69,433</b>	<b>75,925</b>	<b>77,472</b>	<b>80,168</b>	<b>81,977</b>
28	Chemicals and allied products	4,218	4,598	5,408	6,918	7,358	7,697	7,765	8,414	8,884
13,29	Petroleum refining and extraction	1,225	1,168	1,811	(D)	(D)	(D)	(D)	1,616	1,614
35	Machinery	4,114	5,389	8,684	8,692	9,750	11,010	(D)	(D)	(D)
36	Electrical equipment	10,040	8,607	10,703	12,210	12,789	13,008	13,161	13,674	13,806
371	Motor vehicles and motor vehicles equipment	3,785	3,945	5,780	5,120	5,622	6,295	(D)	(D)	(D)
372,376	Aircraft and missiles	12,417	9,632	10,730	14,833	17,505	20,037	18,494	20,859	21,163
38	Professional and scientific instruments	1,770	1,978	3,534	4,107	4,272	4,518	4,483	4,464	4,585
(X)	All other <sup>2</sup>	5,415	5,463	7,068	(D)	(D)	(D)	(D)	(D)	(D)
(X)	<b>Company funds</b>	<b>24,478</b>	<b>26,272</b>	<b>35,553</b>	<b>42,931</b>	<b>47,716</b>	<b>51,413</b>	<b>52,655</b>	<b>53,497</b>	<b>54,801</b>
28	Chemicals and allied products	3,790	4,198	4,974	6,540	7,181	7,490	7,612	8,250	8,724
13,29	Petroleum refining and extraction	1,173	(D)	1,634	1,997	2,084	1,977	1,732	1,604	1,597
35	Machinery	3,495	4,530	6,129	7,617	9,952	9,645	9,505	10,334	10,003
36	Electrical equipment	4,778	4,718	6,336	7,655	8,389	8,356	8,561	9,031	9,229
371	Motor vehicles and motor vehicles equipment	3,041	3,409	5,016	4,577	4,998	5,556	6,300	6,190	6,406
372,376	Aircraft and missiles	2,886	2,187	2,998	3,861	4,422	5,091	5,329	5,084	4,825
38	Professional and scientific instruments	1,309	1,688	2,865	3,674	3,909	4,168	4,175	4,251	4,408
(X)	All other <sup>2</sup>	4,007	(D)	5,600	6,810	6,782	9,132	9,420	8,754	8,608

D Figure withheld to avoid disclosure of information pertaining to a specific organization or individual. X Not applicable.  
<sup>1</sup> 1972 Standard Industrial Classification. See text, section 13. <sup>2</sup> All other manufacturing and nonmanufacturing. <sup>3</sup> See footnote 1, table 990.

Source: U.S. National Science Foundation, *Research and Development in Industry*, annual.

**No. 1001. R&D Funds as a Percent of Net Sales in R&D—Performing Manufacturing Companies, by Industry: 1970 to 1988**

1972 SIC code	INDUSTRY GROUP	TOTAL R&D FUNDS AS A PERCENT OF NET SALES					COMPANY R&D FUNDS AS A PERCENT OF NET SALES				
		1970	1980	1985	1987	1988	1970	1980	1985	1987	1988
(X)	Total <sup>2</sup>	3.7	3.0	4.4	4.6	4.8	2.2	2.1	3.0	3.1	3.2
20	Food and kindred products <sup>3</sup>	0.5	0.4	(D)	0.6	(D)	0.5	(D)	0.6	0.6	0.5
26	Paper and allied products	0.9	1.0	(D)	(D)	(D)	0.5	(D)	1.0	0.8	0.6
28	Chemicals and allied products	3.9	3.6	5.0	5.3	5.4	3.5	3.3	4.9	5.2	5.3
13,29	Petroleum refining and extraction	1.0	0.6	(D)	1.0	1.1	0.9	0.5	0.9	1.0	1.1
30	Rubber products	2.3	2.2	(D)	(D)	(D)	1.7	(D)	1.8	1.6	1.6
32	Stone, clay, and glass products	1.8	1.4	(D)	2.6	(D)	1.7	1.3	2.3	2.5	2.6
33	Primary metals	0.8	0.7	(D)	0.9	0.8	0.8	0.5	0.9	0.9	0.8
34	Fabricated metal products	1.2	1.4	1.5	1.5	1.6	1.1	1.2	1.4	1.2	1.3
35	Machinery	4.0	5.0	7.6	(D)	(D)	3.4	4.5	6.7	7.1	7.5
36	Electrical equipment	7.3	6.6	7.6	8.2	8.1	3.4	3.9	4.8	5.4	5.4
371	Motor vehicles and motor vehicle equipment	3.5	4.9	3.8	(D)	(D)	2.8	4.2	3.1	3.4	3.4
372,376	Aircraft and missiles	16.2	13.7	14.9	14.7	15.4	3.8	3.8	3.9	3.6	3.5
38	Professional and scientific instruments	5.7	7.5	8.9	7.9	7.7	4.2	6.1	8.3	7.5	7.4

D Figure withheld to avoid disclosure of information pertaining to a specific organization or individual. X Not applicable.  
<sup>1</sup> 1972 Standard Industrial Classification. See text, section 13. <sup>2</sup> Includes all manufacturing industries. <sup>3</sup> Includes tobacco products (SIC 21) for 1985-88.

Source: U.S. National Science Foundation, *Research and Development in Industry*, annual.

### No. 1002. Federal Obligations for Research, by Field of Science in Current and Constant (1982) Dollars: 1980 to 1990

[In millions of dollars. For fiscal years ending in year shown; see text, section 9. See headnote, table 995]

FIELD	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990, est.
<b>CURRENT DOLLARS</b>										
<b>Research, total.</b>	<b>11,597</b>	<b>13,022</b>	<b>14,254</b>	<b>14,979</b>	<b>16,133</b>	<b>16,502</b>	<b>17,940</b>	<b>18,650</b>	<b>20,416</b>	<b>21,091</b>
Basic	4,674	5,482	6,260	7,067	7,819	8,153	8,942	9,474	10,464	11,201
Applied	6,923	7,541	7,993	7,911	8,315	8,349	8,998	9,176	9,951	9,891
Life sciences	4,192	4,746	5,178	5,636	6,363	6,464	7,341	7,725	8,276	8,739
Psychology	199	218	241	267	327	334	370	390	431	449
Physical sciences	2,001	2,500	2,891	2,969	3,046	3,069	3,253	3,317	3,726	3,966
Environmental sciences	1,261	1,148	1,251	1,276	1,404	1,482	1,512	1,607	1,774	1,756
Mathematics and computer sciences	241	350	419	440	575	615	641	643	724	756
Engineering	2,830	3,387	3,517	3,624	3,618	3,739	3,906	3,956	4,364	4,258
Social sciences	524	386	435	436	460	416	480	486	561	589
Other sciences, n.e.c. <sup>1</sup>	350	287	320	331	342	383	438	527	559	580
<b>CONSTANT (1982) DOLLARS<sup>2</sup></b>										
<b>Research, total.</b>	<b>13,686</b>	<b>13,022</b>	<b>13,675</b>	<b>13,845</b>	<b>14,465</b>	<b>14,411</b>	<b>15,203</b>	<b>15,337</b>	<b>16,093</b>	<b>15,943</b>
Basic	5,516	5,482	6,006	6,532	7,010	7,120	7,578	7,791	8,249	8,467
Applied	8,170	7,541	7,669	7,312	7,455	7,291	7,625	7,547	7,844	7,477
Life sciences	4,947	4,746	4,968	5,209	5,705	5,645	6,221	6,352	6,524	6,606
Biological (excluding environmental)	2,160	2,079	2,212	2,369	2,587	2,614	2,968	3,028	3,139	3,210
Environmental biology	271	184	186	231	233	231	245	248	239	244
Agricultural	528	549	542	473	546	527	480	486	471	463
Medical	1,814	1,773	1,849	1,953	2,124	2,061	2,258	2,419	2,499	2,506
Life sciences, n.e.c.	175	161	179	183	214	212	270	173	175	183
Psychology	235	218	231	247	293	292	313	321	340	339
Biological aspects	71	60	61	75	82	79	83	87	95	101
Social aspects	112	98	100	100	128	125	131	123	121	118
Psychological sciences, n.e.c. <sup>1</sup>	52	61	70	72	83	88	99	111	124	120
Physical sciences	2,361	2,500	2,774	2,744	2,731	2,680	2,756	2,728	2,937	2,998
Astronomy	337	276	343	353	372	409	443	387	441	469
Chemistry	536	481	499	560	583	578	577	578	613	611
Physics	1,395	1,611	1,779	1,697	1,628	1,577	1,571	1,624	1,722	1,749
Physical sciences, n.e.c.	92	133	153	133	148	116	167	138	160	169
Environmental sciences	1,488	1,148	1,200	1,179	1,259	1,294	1,281	1,322	1,398	1,327
Atmospheric	483	426	442	401	436	455	469	483	507	506
Geological	474	358	320	332	385	388	374	363	383	384
Oceanography	309	261	330	336	357	375	362	379	385	331
Environmental sciences, n.e.c.	221	104	109	110	81	76	76	96	123	107
Mathematics and computer sciences	284	350	402	407	515	537	543	529	571	571
Mathematics	107	128	128	140	165	161	173	179	187	186
Computer sciences	152	171	206	198	251	264	252	241	269	275
Mathematics and computer sciences, n.e.c. <sup>1</sup>	25	51	69	69	100	112	117	109	114	110
Engineering	3,340	3,387	3,374	3,350	3,244	3,265	3,310	3,254	3,440	3,219
Aeronautical	836	741	787	795	662	677	687	659	729	727
Astronautical	357	291	308	367	381	460	529	473	514	561
Chemical	114	95	139	134	228	215	183	212	229	173
Civil	187	202	181	187	194	177	173	177	170	167
Electrical	610	612	590	582	562	589	666	601	635	548
Mechanical	245	201	256	176	239	207	198	198	193	201
Metallurgy and materials	279	309	319	315	394	389	307	376	402	345
Engineering, n.e.c.	712	935	794	793	584	552	567	557	568	496
Social sciences	618	386	418	403	412	363	407	400	442	445
Anthropology	20	15	12	17	16	12	13	12	12	12
Economics	228	157	159	136	143	115	126	131	131	131
Political science	14	8	11	10	13	10	10	10	12	13
Sociology	84	52	65	65	60	59	63	67	81	89
Social sciences, n.e.c. <sup>1</sup>	272	155	171	175	180	168	196	179	207	200
Other sciences, n.e.c. <sup>1</sup>	413	287	307	305	306	335	371	433	440	438

<sup>1</sup> N.e.c. — Not elsewhere classified. <sup>2</sup> See footnote 1, table 990.

Source: U.S. National Science Foundation, *Federal Funds for Research and Development*, annual.

### No. 1003. Scientists and Engineers Employed in Research and Development: 1970 to 1988

[In thousands of full-time equivalent employees. Data are estimates. Yearly averages for industry sector only. Excludes those employed by State and local government agencies. DOD Dept. of Defense. FFRDC's — federally funded R&D centers]

SECTOR	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988
<b>Total</b>	<b>543.8</b>	<b>651.2</b>	<b>683.3</b>	<b>711.9</b>	<b>751.7</b>	<b>797.8</b>	<b>849.2</b>	<b>896.5</b>	<b>923.3</b>	<b>949.2</b>
Industry (excl. social scientists)	375.6	469.2	498.8	525.4	562.5	603.3	646.8	684.2	703.0	716.8
Universities and colleges, total	79.5	95.9	98.3	99.5	100.4	103.4	108.5	118.0	126.5	135.1
Scientists and engineers	61.3	72.7	73.9	74.5	75.5	77.3	81.1	89.1	95.2	101.8
Graduate students	18.2	23.2	24.4	25.0	24.9	26.1	27.4	28.9	31.3	33.3
Federal Government (incl. DOD)	67.5	58.6	59.2	60.0	61.3	62.1	62.9	63.3	62.3	65.8
Other nonprofit institutions	21.2	27.5	27.0	27.0	27.5	29.0	31.0	31.0	31.5	31.5

<sup>1</sup> Includes professional R&D personnel employed at FFRDC's administered by organizations in their respective sectors.

Source: U.S. National Science Foundation, *National Patterns of R&D Resources: 1990*.

### No. 1004. Research and Development Scientists and Engineers—Average Full-Time-Equivalent Employment and Cost, by Industry: 1975 to 1988

[Data are estimates; on average full-time-equivalent (FTE) basis. See *Historical Statistics, Colonial Times to 1970*, series W 167, for total cost per scientist or engineer]

1972 SIC code	INDUSTRY	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
(X)	EMPLOYED SCIENTISTS										
(X)	Average FTE of scientists										
(X)	and engineers (1,000) <sup>2 3</sup> . . . . .	363.9	469.2	498.8	525.4	582.5	603.3	646.8	684.2	703.0	716.8
28	Chemicals <sup>4</sup> . . . . .	44.8	53.1	58.2	64.5	68.6	70.5	73.5	74.4	74.4	76.6
35	Machinery . . . . .	54.3	65.7	72.6	77.8	83.3	84.4	85.7	93.1	97.4	99.1
36	Electrical equipment <sup>5</sup> . . . . .	81.5	100.7	108.4	109.2	110.9	113.2	115.6	123.1	130.4	136.2
371	Motor vehicles . . . . .	25.7	36.7	32.6	29.5	28.8	27.7	31.3	42.1	48.8	46.6
372,376	Aircraft and missiles . . . . .	67.2	90.6	93.2	97.1	107.3	120.9	137.5	137.5	133.3	139.3
(X)	CONSTANT (1982) DOLLARS <sup>6</sup>										
(X)	Cost per scientist or										
(X)	engineer (\$1,000) <sup>3 7</sup> . . . . .	112.1	110.7	110.6	111.8	111.7	115.1	117.4	113.2	114.1	114.4
28	Chemicals <sup>4</sup> . . . . .	102.7	102.0	102.8	102.5	100.9	104.4	104.8	104.5	113.1	115.9
35	Machinery . . . . .	99.3	104.9	99.9	103.8	104.4	115.6	128.4	(D)	(D)	(D)
36	Electrical equipment <sup>5</sup> . . . . .	105.7	106.3	101.4	100.0	110.1	113.0	112.6	106.9	104.9	101.3
371	Motor vehicles . . . . .	153.6	157.7	156.9	162.6	177.8	196.2	201.1	(D)	(D)	(D)
372,376	Aircraft and missiles . . . . .	143.5	118.5	136.7	148.8	138.3	144.8	145.7	134.5	156.6	152.0

D Withheld to avoid disclosure. X Not applicable. <sup>1</sup> 1972 Standard Industrial Classification; see text, section 13. <sup>2</sup> The mean number of FTE R&D scientists and engineers employed in January of the year shown and the following January. <sup>3</sup> Includes industries not shown separately. <sup>4</sup> Includes allied products. <sup>5</sup> Includes communication. <sup>6</sup> See footnote 1, table 990. <sup>7</sup> Represents the arithmetic mean of the numbers of R&D scientists and engineers reported in each industry for January in two consecutive years divided into total R&D expenditures in each industry.

Source: U.S. National Science Foundation, *Research and Development in Industry*, annual.

### No. 1005. Estimated Characteristics of Employed Scientists and Engineers: 1988

[Percent distribution, except as indicated. Represents total science and engineering employment in the United States]

CHARACTERISTIC	Total	Engi- neers	Life scien- tists	Com- puter spe- cialists	Phys- ical scien- tists	SOCIAL SCIENTISTS					Envi- ron- mental scien- tists	Mathe- matical scientist
						Total	Econo- mists	Other social scien- tists	Psy- cho- logists			
Total <sup>1</sup> (1,000). . . . .	5,286.4	2,718.6	458.6	708.3	312.0	531.0	219.8	311.2	275.9		113.4	168.6
Male . . . . .	83.6	95.5	72.1	69.1	85.1	69.2	79.6	61.8	52.2		89.1	73.3
Female . . . . .	16.4	4.5	27.8	30.9	14.9	30.8	20.4	38.2	47.8		10.8	26.6
White . . . . .	90.1	90.6	90.3	88.3	89.6	88.9	90.7	87.7	92.8		94.4	86.4
Black . . . . .	2.6	1.6	2.1	3.7	2.1	6.1	3.8	7.7	3.7		0.9	5.6
Asian . . . . .	5.1	5.6	4.4	6.6	6.6	2.7	3.2	2.3	1.7		1.4	5.5
Native American . . . . .	0.4	0.5	0.7	0.1	0.2	0.4	0.6	0.2	0.4		0.6	0.1
Hispanic <sup>2</sup> . . . . .	1.8	1.9	2.2	1.2	1.7	1.7	2.1	1.4	1.7		1.9	2.3
Type of employer:												
Industry . . . . .	68.0	79.5	37.9	78.7	56.1	52.5	64.0	44.4	40.7		58.4	42.0
Educational institutions . . . . .	13.5	4.3	35.2	6.6	25.4	24.5	19.0	28.5	31.0		16.0	44.1
Nonprofit organizations . . . . .	3.5	1.5	7.3	2.4	3.3	6.0	2.3	8.7	17.6		1.2	2.0
Federal Government . . . . .	7.5	7.5	10.1	6.5	10.2	5.5	7.8	3.9	2.6		15.6	8.2
Military . . . . .	0.8	1.0	0.4	0.7	0.4	0.4	0.2	0.5	0.2		1.4	0.8
Other government . . . . .	5.1	4.6	7.5	3.6	2.9	9.6	5.2	12.7	6.1		5.6	1.9
Other and unknown . . . . .	1.6	1.7	1.6	1.5	1.8	1.3	1.5	1.2	1.7		1.7	0.9

<sup>1</sup> Includes those not reporting. <sup>2</sup> Persons of Hispanic origin may be of any race. <sup>3</sup> Includes self-employed.

Source: U.S. National Science Foundation, *U.S. Scientists and Engineers: 1988*, and *Women and Minorities in Science and Engineering*, January 1990.

### No. 1006. Professional Scientific, Engineering, and Technical Personnel in the Federal Government, by Occupational Group: 1970 to 1988

[In thousands, except percent. As of October. Excludes health professional personnel]

OCCUPATIONAL GROUP	1970	1980	1985 <sup>1</sup>	1986 <sup>1</sup>	1987 <sup>1</sup>	1988 <sup>1 2</sup>	PERCENT FEMALE					
							1970	1980	1985 <sup>1</sup>	1986 <sup>1</sup>	1987 <sup>1</sup>	1988 <sup>1 2</sup>
Total . . . . .	180.3	206.9	238.0	239.2	240.0	217.6	6.7	9.5	13.8	14.6	15.4	13.8
Scientific personnel . . . . .	77.2	88.0	91.4	89.5	89.1	86.7	8.0	12.7	15.6	16.3	22.7	17.6
Physical sciences . . . . .	29.8	27.6	27.6	27.3	27.1	26.5	6.4	9.5	12.5	13.1	13.9	14.4
Mathematics . . . . .	8.6	11.1	11.0	10.6	10.4	9.8	17.4	19.8	22.8	23.3	23.7	23.4
Life sciences . . . . .	26.9	30.5	33.5	32.5	33.1	33.2	4.1	8.7	12.1	13.0	14.2	15.0
Social sciences . . . . .	6.6	10.5	10.1	10.1	10.1	10.4	16.2	23.3	25.1	25.7	26.3	26.4
Economics . . . . .	4.3	5.9	5.9	5.8	5.6	5.5	11.1	17.4	20.6	21.1	21.3	21.5
Other . . . . .	2.3	4.6	4.2	4.3	4.5	4.9	25.1	30.8	31.5	31.9	32.6	31.9
Geography <sup>3</sup> . . . . .	3.3	4.9	5.7	5.6	4.9	3.6	8.5	14.8	17.0	16.9	18.0	19.2
Psychology . . . . .	2.2	3.3	3.4	3.4	3.5	3.3	13.7	16.8	21.4	22.4	23.6	23.0
Engineering personnel . . . . .	83.0	89.6	105.1	106.2	109.7	108.2	0.5	1.9	5.3	5.8	6.7	7.2
Computer specialists . . . . .	20.1	29.3	41.5	43.5	41.2	22.7	21.1	23.3	31.4	32.8	34.8	31.2

<sup>1</sup> Excludes Post Office. <sup>2</sup> Not comparable with previous years. Excludes employees with less than a bachelor's degree.

<sup>3</sup> Includes statistics. <sup>4</sup> Includes community planning. <sup>5</sup> Includes cartography and land surveying.

Source: U.S. National Science Foundation. Compiled from data supplied by the U.S. Office of Personnel Management.

### No. 1007. Civilian Employment of Scientists, Engineers, and Technicians, by Occupation and Major Industrial Sector: 1988

[In thousands. Based on sample and subject to sampling error. For details, see source]

OCCUPATION	Total <sup>1</sup>	WAGE AND SALARY WORKERS								Self-employed
		Min- ing <sup>2</sup>	Con- struc- tion	Manu- facturing	Trans- por- tation <sup>3</sup>	Trade	FIRE <sup>4</sup>	Services	Government	
<b>Scientists and engineers . . . . .</b>	<b>2,360.5</b>	<b>49.1</b>	<b>24.7</b>	<b>881.5</b>	<b>103.4</b>	<b>59.8</b>	<b>88.1</b>	<b>616.8</b>	<b>398.7</b>	<b>128.0</b>
Scientists . . . . .	949.7	23.0	1.3	166.1	24.4	32.8	72.3	310.7	213.9	96.0
Physical scientists . . . . .	183.6	19.3	0.1	58.4	2.2	2.2	0.2	54.8	39.2	7.0
Life scientists . . . . .	154.3	0.2	(Z)	19.1	0.8	1.9	0.6	59.9	55.3	8.0
Mathematical scientists . . . . .	15.7	(Z)	(Z)	2.1	1.7	(Z)	1.7	4.2	5.9	(Z)
Social scientists . . . . .	193.6	0.4	(Z)	(Z)	1.5	(Z)	10.0	76.1	51.4	54.0
Systems analysts, EDP . . . . .	402.5	3.1	1.2	86.5	18.2	28.7	59.8	115.7	62.1	27.0
Engineers <sup>5</sup> . . . . .	1,410.8	26.1	23.4	715.4	79.0	27.0	15.8	306.1	184.8	32.0
Civil engineers . . . . .	186.4	1.0	8.8	12.1	8.0	0.4	1.1	70.9	77.9	6.0
Electrical/electronics . . . . .	439.1	1.1	4.6	232.2	38.7	14.0	0.9	102.5	37.0	8.0
Mechanical engineers . . . . .	224.5	1.8	4.6	138.6	6.4	6.5	0.9	48.0	13.8	4.0
<b>Engineering and science technicians . . . . .</b>	<b>1,272.9</b>	<b>18.2</b>	<b>24.8</b>	<b>495.1</b>	<b>76.6</b>	<b>84.1</b>	<b>6.2</b>	<b>378.8</b>	<b>164.9</b>	<b>18.0</b>
Electrical/electronics technicians . . . . .	341.2	0.8	5.0	153.9	28.9	63.3	1.6	60.1	26.5	1.0
Engineering technicians . . . . .	381.2	5.4	5.4	137.4	26.4	9.9	0.9	95.0	96.9	3.0
Drafters . . . . .	318.7	4.2	14.4	112.5	18.9	7.8	1.4	130.8	13.5	13.0
Science technicians . . . . .	231.8	7.8	(Z)	91.3	2.4	3.1	2.3	90.9	28.0	1.0
Surveyors . . . . .	99.9	2.8	2.5	(Z)	3.3	(Z)	0.5	60.2	21.9	8.0
Computer programmers . . . . .	518.9	3.3	2.2	100.1	24.6	46.6	77.7	209.2	38.8	16.0

Z Fewer than 50. <sup>1</sup> Includes agriculture, forestry, and fishing not shown separately. <sup>2</sup> Includes oil and gas extraction. <sup>3</sup> Includes communications and public utilities. <sup>4</sup> Finance, insurance, and real estate. <sup>5</sup> Includes kinds of engineers and technicians not shown separately.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, November 1989. (Data collected biennially.)

### No. 1008. Doctoral Scientists and Engineers—Selected Characteristics: 1975 to 1987

[In thousands]

CHARACTERISTIC	1975	1985	1987		CHARACTERISTIC	1975	1985	1987	
			Num- ber	Em- ployed				Num- ber	Em- ployed
<b>Total . . . . .</b>	<b>270.4</b>	<b>424.6</b>	<b>451.4</b>	<b>419.1</b>					
Field:					Race:				
Life scientists . . . . .	68.3	109.9	117.5	107.4	White . . . . .	245.4	377.9	403.4	373.0
Physical scientists . . . . .	58.5	73.1	75.8	68.6	Black . . . . .	2.6	5.9	6.7	6.4
Psychologists . . . . .	31.3	54.9	59.4	56.4	Asian/Pacific Islander . . . . .	13.9	35.5	37.5	36.4
Social scientists . . . . .	38.6	68.5	72.3	65.9	Other and not reported . . . . .	8.4	5.2	3.8	3.4
Economists . . . . .	12.6	19.1	19.6	17.8	Employment status:				
Other social scientists . . . . .	26.0	49.4	52.7	48.0	Full-time employed . . . . .	240.6	371.9	386.8	386.8
Engineers . . . . .	43.5	67.9	71.1	67.8	Part-time employed . . . . .	7.3	16.7	20.0	20.0
Mathematical scientists . . . . .	14.2	17.5	17.8	16.7	Postdoctorates . . . . .	8.2	11.8	12.3	12.3
Computer specialists . . . . .	3.5	15.0	18.6	18.6	Unemployed/seeking . . . . .	2.5	3.4	4.6	(X)
Environmental scientists . . . . .	12.5	18.0	19.0	17.8	Unemployed/not seeking . . . . .	2.4	3.9	4.2	(X)
Sex:					Retired/not employed . . . . .	8.7	16.2	21.8	(X)
Men . . . . .	244.9	360.6	378.0	352.4	Other . . . . .	0.4	0.8	0.8	(X)
Women . . . . .	25.6	64.0	73.4	66.7	Not reported . . . . .	0.5	(X)	1.0	(X)

X Not applicable.

Source: U.S. National Science Foundation, *Characteristics of Doctoral Scientists and Engineers in the United States*, biennial series.

### No. 1009. Graduate Science/Engineering Students in Doctorate-Granting Institutions of Higher Education by Sex, Citizenship, and Enrollment Status: 1975 to 1988

[As of fall. Includes outlying areas]

FIELD OF SCIENCE OR ENGINEERING	TOTAL (1,000)				PERCENT—											
					Female				Part-time				Foreign			
	1975	1980	1987	1988	1975	1980	1987	1988	1975	1980	1987	1988	1975	1980	1987	1988
<b>Total, all surveyed fields . . . . .</b>	<b>293.8</b>	<b>333.7</b>	<b>385.4</b>	<b>391.7</b>	<b>17.8</b>	<b>33.6</b>	<b>36.3</b>	<b>37.3</b>	<b>28.4</b>	<b>30.9</b>	<b>32.1</b>	<b>31.6</b>	<b>22.8</b>	<b>22.5</b>		
Engineering, total . . . . .	64.6	70.1	97.0	97.0	2.9	8.7	12.4	12.8	42.6	40.2	38.0	38.0	33.1	33.1		
Sciences, total . . . . .	206.6	227.1	246.2	250.6	20.2	35.4	39.3	40.1	24.0	26.8	27.2	26.8	21.3	21.0		
Physical sciences . . . . .	24.5	25.4	31.0	31.3	10.9	16.6	21.3	22.3	13.3	12.4	10.7	10.6	32.7	32.4		
Environmental . . . . .	11.0	12.8	13.4	13.0	11.2	22.7	26.1	26.9	18.0	19.8	24.7	25.4	15.7	16.2		
Mathematical sciences . . . . .	14.4	13.6	16.2	16.8	14.7	25.4	29.4	29.3	30.2	31.2	24.0	23.2	35.7	34.5		
Computer sciences . . . . .	7.0	11.4	26.1	27.0	8.5	21.8	23.8	24.5	41.2	48.2	45.1	43.7	28.8	27.8		
Agricultural sciences . . . . .	10.1	11.6	10.3	10.3	11.2	23.5	26.5	27.5	15.5	17.2	16.7	16.8	26.8	26.9		
Biological sciences . . . . .	40.9	42.7	43.6	44.7	24.6	38.0	43.1	44.1	15.0	16.1	14.5	14.2	19.7	19.2		
Psychology . . . . .	26.9	29.4	31.6	32.7	31.0	51.6	61.8	62.6	26.8	26.6	28.0	27.0	4.2	4.1		
Social sciences . . . . .	71.8	80.3	74.0	74.9	21.8	41.3	46.6	47.3	31.1	35.8	37.7	37.3	19.3	19.1		
Health fields, total . . . . .	22.6	36.4	42.1	44.2	37.9	70.8	74.0	75.2	27.7	38.7	47.3	45.2	7.8	7.5		

Source: U.S. National Science Foundation, *Survey of Graduate Science and Engineering Students and Postdoctorates*, annual.



**No. 1010. Doctorates Conferred, by Recipients' Characteristics, 1980 to 1989, and by Selected Science and Engineering Fields, 1989**  
 (In percent, except as indicated)

CHARACTERISTIC	ALL FIELDS		1989									
	1980	1985	All fields <sup>1</sup>	Engineering	Physical sciences <sup>2</sup>	Earth sciences	Mathematics	Computer sciences	Biological sciences <sup>3</sup>	Agricultural	Social sciences <sup>4</sup>	Psychology
<b>Total conferred (1,000)</b> . . . . .	<b>31,020</b>	<b>31,297</b>	<b>34,319</b>	<b>4,536</b>	<b>3,249</b>	<b>736</b>	<b>861</b>	<b>612</b>	<b>4,106</b>	<b>1,088</b>	<b>3,117</b>	<b>3,209</b>
Male . . . . .	69.7	65.7	63.5	91.8	81.1	79.9	81.9	82.5	62.6	79.0	66.9	43.9
Female . . . . .	30.3	34.3	36.5	8.2	18.9	20.1	18.1	17.5	37.4	21.0	33.1	56.1
Median age <sup>5</sup> . . . . .	32.2	33.3	33.8	31.1	29.5	32.2	30.7	32.0	31.2	33.3	34.1	33.7
<b>CITIZENSHIP<sup>6</sup></b>												
<b>Total conferred (1,000)</b> . . . . .	<b>30,156</b>	<b>29,921</b>	<b>31,367</b>	<b>4,138</b>	<b>2,999</b>	<b>678</b>	<b>771</b>	<b>573</b>	<b>3,876</b>	<b>1,006</b>	<b>2,801</b>	<b>2,755</b>
US citizen . . . . .	83.6	78.1	73.9	44.8	65.5	77.7	51.0	58.8	80.0	60.2	63.4	94.4
Foreign citizen . . . . .	16.4	21.9	26.1	55.2	34.5	22.3	49.0	41.2	20.0	39.8	36.6	5.6
<b>RACE/ETHNICITY<sup>7</sup></b>												
<b>Total conferred (1,000)</b> . . . . .	<b>26,512</b>	<b>24,693</b>	<b>24,777</b>	<b>2,214</b>	<b>2,111</b>	<b>557</b>	<b>428</b>	<b>394</b>	<b>3,277</b>	<b>651</b>	<b>1,980</b>	<b>2,652</b>
White <sup>8</sup> . . . . .	84.7	86.2	86.2	77.4	85.7	91.0	86.2	80.5	88.1	87.6	84.4	89.5
Black <sup>8</sup> . . . . .	4.2	4.2	3.8	1.4	1.5	0.7	1.9	0.3	1.6	2.2	5.2	3.6
Asian/Pacific <sup>8</sup> . . . . .	4.2	4.3	5.1	16.2	7.3	4.1	5.6	13.2	6.0	3.5	4.5	2.1
Indian/Alaskan <sup>8</sup> . . . . .	0.3	0.4	0.4	0.3	0.5	1.1	-	0.5	0.2	0.3	0.4	0.4
Hispanic . . . . .	1.8	2.6	2.7	2.1	2.8	1.6	2.6	1.0	2.2	2.8	3.2	3.3
Other/unknown . . . . .	4.9	2.2	1.8	2.5	2.3	1.4	3.7	4.6	1.9	3.7	2.3	1.1

- Represents or rounds to zero. <sup>1</sup> Includes other fields, not shown separately. <sup>2</sup> Astronomy, physics, and chemistry. <sup>3</sup> Biochemistry, botany, microbiology, physiology, zoology, and related fields. <sup>4</sup> Anthropology, sociology, political science, economics, and international relations. <sup>5</sup> For definition of median, see Guide to Tabular Presentation. <sup>6</sup> For those with known citizenship. Includes those with temporary visas. <sup>7</sup> Excludes those with temporary visas. <sup>8</sup> Non-Hispanic.

Source: U.S. National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.

**No. 1011. Nobel Prize Laureates in Chemistry, Physics, and Physiology/Medicine—Selected Countries: 1901 to 1989**

(Presented by location of award-winning research and by date of award)

COUNTRY	1901-1989				1901-1915	1916-1930	1931-1945	1946-1960	1961-1975	1976-1989
	Total	Physics	Chemistry	Physiology/Medicine						
<b>Total</b> . . . . .	<b>400</b>	<b>137</b>	<b>114</b>	<b>149</b>	<b>52</b>	<b>41</b>	<b>49</b>	<b>74</b>	<b>92</b>	<b>92</b>
United States . . . . .	156	54	35	67	3	3	14	38	41	57
United Kingdom . . . . .	69	21	24	24	7	8	11	14	20	9
West Germany <sup>1</sup> . . . . .	57	17	28	12	15	12	11	4	8	7
France . . . . .	22	8	7	7	10	3	2	-	5	2
Soviet Union . . . . .	10	7	1	2	2	-	-	4	3	1
Japan . . . . .	4	3	1	-	-	-	-	-	2	1
Other countries . . . . .	82	27	18	37	15	15	11	13	13	15

- Represents zero. <sup>1</sup> Includes East Germany before 1946.

Source: U.S. National Science Foundation, unpublished data.

**No. 1012. Federal Space Program—Budget Authority, by Agency: 1960 to 1989**

(In millions of dollars, except percent. For fiscal years ending in year shown; see text, section 9. NASA=National Aeronautics and Space Administration)

YEAR	Total	NASA <sup>1</sup>		DEFENSE		Other	YEAR	Total	NASA <sup>1</sup>		DEFENSE		Other
		Total	Percent of total	Total	Percent of total				Total	Percent of total	Total	Percent of total	
1960 . . . . .	1,066	462	43.3	561	52.6	43	1977 . . . . .	5,983	3,440	57.5	2,412	40.3	131
1965 . . . . .	6,956	5,138	73.9	1,574	22.6	244	1978 . . . . .	6,518	3,623	55.6	2,738	42.0	157
1966 . . . . .	6,970	5,065	72.7	1,689	24.2	217	1979 . . . . .	7,244	4,030	55.6	3,036	41.9	178
1967 . . . . .	6,710	4,830	72.0	1,664	24.8	216	1980 . . . . .	8,689	4,680	53.9	3,848	44.3	160
1968 . . . . .	6,529	4,430	67.9	1,922	29.4	177	1981 . . . . .	9,978	4,992	50.0	4,828	48.4	158
1969 . . . . .	5,976	3,822	64.0	2,013	33.7	141	1982 . . . . .	12,441	5,528	44.4	6,679	53.7	234
1970 . . . . .	5,341	3,547	66.4	1,678	31.4	115	1983 . . . . .	15,589	6,328	40.6	9,019	57.9	242
1971 . . . . .	4,741	3,101	65.4	1,512	31.9	127	1984 . . . . .	17,136	6,648	38.8	10,195	59.5	293
1972 . . . . .	4,575	3,071	67.1	1,407	30.8	97	1985 . . . . .	20,167	6,925	34.3	12,768	63.3	474
1973 . . . . .	4,825	3,093	64.1	1,623	33.6	109	1986 . . . . .	21,659	7,165	33.1	14,126	65.2	368
1974 . . . . .	4,640	2,759	59.4	1,766	38.1	116	1987 . . . . .	26,448	9,809	37.1	16,287	61.6	352
1975 . . . . .	4,914	2,915	59.3	1,892	38.5	107	1988 . . . . .	26,373	8,302	31.5	17,679	67.0	392
1976 . . . . .	6,660	4,075	61.2	2,444	36.7	142	1989 . . . . .	30,196	10,616	35.2	19,100	63.3	480

<sup>1</sup> Includes budget authority for the space transportation system of \$3.1 billion in 1982; \$4.1 billion in 1983; and \$4.0 billion in 1984. <sup>2</sup> Includes transition quarter, July 1 to Sept. 30, 1976. <sup>3</sup> Includes \$2.1 billion for replacement of shuttle orbiter Challenger. Estimated.

Source: U.S. National Aeronautics and Space Administration, *Aeronautics and Space Report of the President*, annual. Data from U.S. Office of Management and Budget.

**No. 1013. Space Vehicle Systems—Net Sales and Backlog Orders: 1965 to 1989**

[In millions of dollars. Backlog orders as of Dec. 31. Based on data from major companies engaged in manufacture of aerospace products. Includes parts but excludes engines and propulsion units]

YEAR	NET SALES			BACKLOG ORDERS			YEAR	NET SALES			BACKLOG ORDERS		
	Total	Military	Non-military	Total	Military	Non-military		Total	Military	Non-military	Total	Military	Non-military
1965..	2,449	602	1,847	2,203	503	1,700	1984..	5,225	3,019	2,206	4,624	3,099	1,525
1970..	1,956	1,025	931	1,184	786	398	1985..	6,300	4,241	2,059	6,707	4,941	1,766
1975..	2,119	1,096	1,023	1,304	1,019	285	1986..	6,304	4,579	1,725	8,063	6,028	2,035
1980..	3,483	1,461	2,022	1,814	951	863	1987..	8,051	5,248	2,803	12,393	9,460	2,933
1981..	3,856	1,736	2,120	3,174	2,164	1,010	1988..	8,622	6,190	2,432	10,838	7,880	2,958
1982..	4,749	2,606	2,143	4,337	2,403	1,934	1989..	9,770	6,489	3,281	12,617	9,118	3,499
1983..	4,940	2,420	2,520	4,865	2,733	2,132							

<sup>1</sup> Includes data for non-military missile systems and parts.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, MA-37D, *Aerospace Industry (Orders, Sales, and Backlog)*.

**No. 1014. National Aeronautics and Space Administration—Budget Summary: 1988 to 1990**

[In millions of dollars]

ITEM	1988	1989	1990	ITEM	1988	1989	1990
<b>Appropriations, total . . . .</b>	<b>9,027</b>	<b>10,898</b>	<b>12,297</b>	<b>Space flight, control and data communication programs</b>	<b>3,811</b>	<b>4,464</b>	<b>4,556</b>
<b>Research and development .</b>	<b>3,295</b>	<b>4,267</b>	<b>5,246</b>	Space Shuttle production and operational capability . . . . .	1,088	1,128	1,120
Space science and applications . .	1,576	1,830	2,004	Orbiter . . . . .	329	262	219
Physics and astronomy . . . . .	611	734	861	Propulsion systems . . . . .	595	582	642
Life sciences . . . . .	70	78	106	Launch and mission support . . . .	165	264	259
Planetary exploration . . . . .	329	417	392	Space transportation operations . .	1,810	2,305	2,494
Space applications . . . . .	566	601	645	Flight hardware . . . . .	777	1,113	1,205
Environmental observations . . . .	314	414	439	Flight operations . . . . .	584	686	759
Safety, reliability, and quality assurance . . . . .	14	22	23	Launch and landing operations . .	450	507	530
Commercial programs . . . . .	74	45	57	Expendable launch vehicles . . . .	28	86	142
Space transportation capability development . . . . .	610	681	562	Space and ground network, communications and data systems . . .	884	945	975
Upper stages . . . . .	155	139	85	Space network . . . . .	436	484	531
Engineering and technical base . .	134	155	182	Ground network . . . . .	232	228	234
Space lab . . . . .	67	89	96	Communications and data systems . . . . .	217	233	211
Aeronautics and space technology .	612	769	795	<b>Research and program management . . . . .</b>	<b>1,743</b>	<b>1,892</b>	<b>2,049</b>
Aeronautical research and technology . . . . .	335	404	450	<b>Construction of facilities . . . .</b>	<b>178</b>	<b>275</b>	<b>437</b>
Space research and technology . .	224	296	286	<b>Inspector General . . . . .</b>	<b>(X)</b>	<b>(X)</b>	<b>9</b>
Transatmospheric research and technology . . . . .	53	69	59				
Space station . . . . .	392	900	1,770				
Tracking and data advanced systems . . . . .	18	19	19				

X Not applicable. <sup>1</sup> Includes other items not shown separately.

Source: U.S. National Aeronautics and Space Administration, *NASA News*.

**No. 1015. NASA Outlays for Operational Activities and for Research and Development: 1970 to 1989**

[In millions of dollars, except personnel. For fiscal year ending in year shown; see text, section 9]

YEAR	Total outlays	PERFORMANCE (operations)			PERFORMANCE (R&D)				FACILITIES (R&D)				Personnel (number) <sup>2</sup>
		Total operations	Space flight	Other	Total	Space flight	Space science, applications	Air transport and other	Total R&D	Space flight	Space science, applications <sup>1</sup>	Air transport and other	
1970..	3,753	(3)	(3)	(3)	<sup>3</sup> 3,699	<sup>3</sup> 2,195	<sup>3</sup> 963	<sup>3</sup> 541	54	14	21	19	31,350
1975..	3,266	(3)	(3)	(3)	<sup>3</sup> 3,181	<sup>3</sup> 1,500	<sup>3</sup> 1,076	<sup>3</sup> 606	85	35	9	42	24,333
1980..	4,850	1,245	914	331	3,465	1,642	1,341	482	140	38	5	97	22,613
1983..	6,664	4,018	3,431	587	2,538	596	1,486	456	108	26	-	82	22,246
1984..	7,048	3,317	2,854	463	3,539	1,183	1,667	689	192	44	20	128	21,415
1985..	7,251	4,034	3,310	724	2,970	542	1,834	594	247	70	23	154	21,423
1986..	7,404	3,673	2,947	726	3,432	740	2,101	591	299	107	26	166	21,228
1987..	7,591	4,027	3,250	777	3,250	768	1,583	899	314	119	25	170	21,831
1988..	9,092	4,861	3,845	1,016	3,832	1,037	1,777	1,018	399	130	48	221	21,991
1989..	11,051	5,545	4,622	923	4,975	1,455	2,743	777	531	259	45	227	23,019

- Represents zero. <sup>1</sup> Includes technology. <sup>2</sup> Source: U.S. National Aeronautics and Space Administration, 1970-1985.

*Personnel Management Information Systems (PMIS)*, annual; beginning 1986, *The Civil Service Work Force*, annual.

<sup>3</sup> Performance (operations) included in performance (R&D). <sup>4</sup> Excludes intragovernmental funds, Federal Financing Bank, direct loan principal repayments-\$67 million in 1985.

Source: Except as noted, U.S. Office of Management and Budget, *Budget of the United States Government*, annual, and unpublished data.

### No. 1016. Space Shuttle System Expenditures by NASA in Constant (1982) Dollars: 1973 to 1990

[In millions of dollars. For year ending Sept. 30. These data cannot be used alone to estimate the total shuttle cost. Only operating expenditures correspond to an annual cost in the economic sense, and even those estimates require adjustment for the three-year period over which the cost of a shuttle flight is incurred and reimbursements are received. For details, see source.]

YEAR	Total	D.D.T. and E. <sup>1</sup>	Con- struction	Produc- tion	Opera- tions	YEAR	Total	D.D.T. and E. <sup>1</sup>	Con- struction	Produc- tion	Opera- tions
1973.....	58	-	58	-	-	1982.....	2,932	894	20	1,283	735
1974.....	325	216	109	-	-	1983.....	3,014	-	26	1,635	1,354
1975.....	1,543	1,407	136	-	-	1984.....	3,127	-	73	690	2,364
1976.....	2,619	2,541	79	-	-	1985.....	2,636	-	42	1,376	1,218
1977.....	2,258	2,089	60	109	-	1986.....	2,606	-	-	1,164	1,422
1978.....	2,062	1,898	103	61	-	1987.....	4,165	-	-	2,611	1,553
1979.....	2,251	1,713	42	496	-	1988.....	2,538	-	-	948	1,590
1980.....	2,751	1,339	42	907	463	1989.....	3,084	-	-	943	2,141
1981.....	2,724	1,041	13	1,093	578	1990.....	2,996	-	-	968	2,028

- Represents or rounds to zero. <sup>1</sup> Design, development, testing, and evaluation.

Source: U.S. Congress, Congressional Budget Office, unpublished data.

### No. 1017. Space Shuttle Flights—Summary: 1981 to 1991

FLIGHT NUMBER	Date	Mission/ Orbiter name	Crew size	Days duration	FLIGHT NUMBER	Date	Mission/ Orbiter name	Crew size	Days duration
1.....	4/12/81	Columbia	2	2	24.....	1/12/86	Columbia	7	6
4.....	6/27/81	Columbia	2	7	25.....	1/28/86	Challenger	7	-
2.....	11/12/81	Columbia	2	2	26.....	9/29/88	Discovery	5	4
3.....	3/22/82	Columbia	2	8	27.....	12/2/88	Atlantis	5	4
5.....	11/11/82	Columbia	4	5	29.....	3/13/89	Discovery	5	5
6.....	4/4/83	Challenger	4	5	30.....	5/4/89	Atlantis	5	4
7.....	6/18/83	Challenger	5	6	28.....	8/8/89	Columbia	5	5
8.....	8/30/83	Challenger	5	6	34.....	10/18/89	Atlantis	5	5
9.....	11/28/83	Columbia	6	10	33.....	11/22/89	Discovery	5	5
10.....	2/3/84	Challenger	5	8	32.....	1/9/90	Columbia	5	10
11.....	4/6/84	Challenger	5	7	36.....	2/28/90	Atlantis	5	5
12.....	8/30/84	Discovery	6	6	31.....	4/24/90	Discovery	5	6
13.....	10/5/84	Challenger	7	8	41.....	10/6/90	Discovery	5	4
14.....	11/8/84	Discovery	5	8	38.....	11/15/90	Atlantis	5	4
15.....	1/24/85	Discovery	5	3	35.....	12/2/90	Columbia	7	9
16.....	4/12/85	Discovery	7	7	39.....	3/91	Discovery	7	8
17.....	4/29/85	Challenger	7	7	37.....	4/91	Atlantis	5	5
18.....	6/17/85	Discovery	7	7	40.....	5/91	Columbia	7	9
19.....	7/29/85	Challenger	7	8	43.....	7/91	Discovery	5	9
20.....	8/27/85	Discovery	5	7	44.....	8/91	Atlantis	6	10
21.....	10/3/85	Atlantis	5	4	45.....	11/91	Discovery	5	5
22.....	10/30/85	Challenger	8	7	42.....	12/91	Atlantis	7	7
23.....	11/26/85	Atlantis	7	7					

- Represents zero.

Source: U.S. National Aeronautics and Space Administration, *Payload Flight Assignments NASA Mixed Fleets*, monthly, and *Pocket Statistics*, January, 1990.

### No. 1018. World-Wide Successful Space Launches: 1957 to 1989

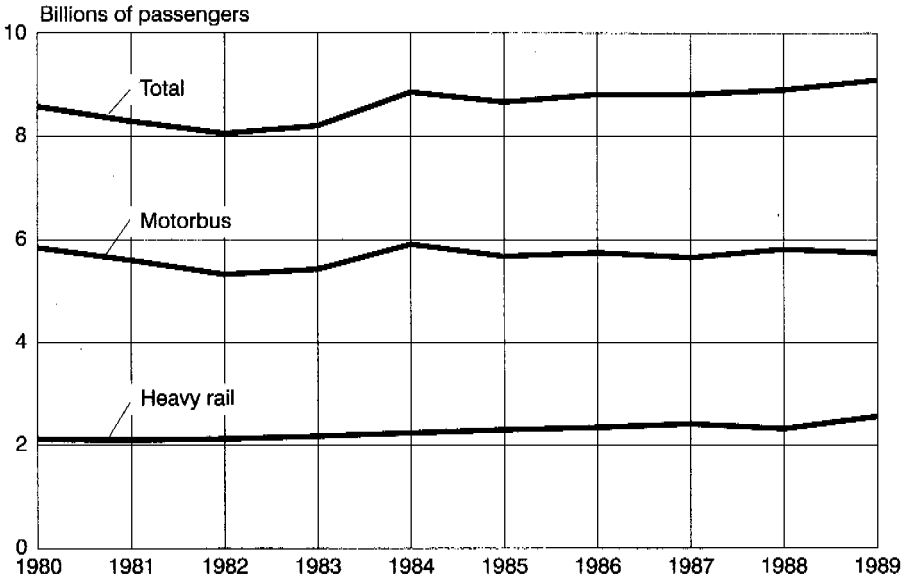
[Criterion of success is attainment of Earth orbit or Earth escape]

COUNTRY	Total	1957- 1959	1960- 1964	1965- 1969	1970- 1974	1975- 1979	1980- 1984	1985	1986	1987	1988	1989
Total.....	3,192	21	268	586	555	607	605	120	103	110	116	101
Soviet Union.....	2,180	6	76	302	405	461	483	97	91	95	90	74
United States.....	905	15	192	279	139	126	93	17	6	8	12	18
Japan.....	38	-	-	-	5	10	12	2	2	3	2	2
European Space Agency.....	30	-	-	-	-	1	8	3	2	2	7	7
India.....	3	-	-	-	-	-	3	-	-	-	-	-
China: Mainland.....	23	-	-	-	2	6	6	1	2	2	4	-
Israel.....	1	-	-	-	-	-	-	-	-	-	1	-

Represents zero. <sup>1</sup> Includes launches in other countries not shown separately.

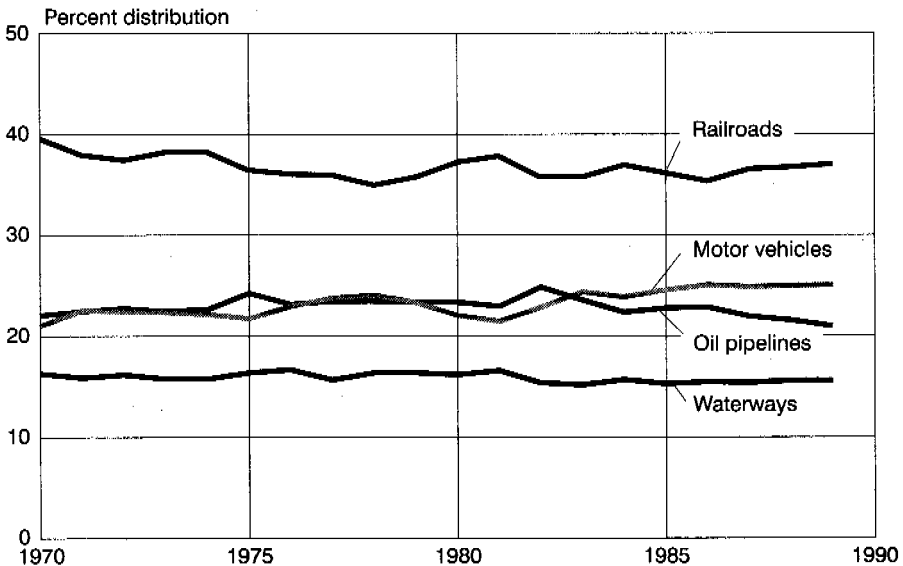
Source: Library of Congress, Congressional Research Service, Science Policy Research Division, *Space Activities of the United States, Soviet Union and Other Launching Countries/Organization: 1957-1989*, March 1990.

Figure 21.1  
**Revenue Passengers Carried by Local  
 Public Transportation: 1980 to 1989**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1056.

Figure 21.2  
**Ton-Miles of Domestic Intercity Freight Traffic,  
 by Type of Transportation: 1970 to 1989**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1021.



## Section 21 Transportation—Land

This section presents statistics on revenues, passenger and freight traffic volume, and employment in various revenue-producing modes of the transportation industry, including motor vehicles, trains, and pipelines. Data are also presented on commuting travel; highway mileage and finances; motor vehicle travel, accidents, sales, and registrations; automobile operating costs; and characteristics of public transit, railroads, and pipelines.

The principal compiler of data on public roads and on operation of motor vehicles is the U.S. Department of Transportation's (DOT) Federal Highway Administration (FHWA). These data appear in FHWA's annual *Highway Statistics* and other publications. The U.S. Interstate Commerce Commission (ICC) presents data on interstate land transport in its publications, the *Annual Report to Congress* and the *Transport Statistics in the United States*, which contain data on railroads and motor carriers subject to ICC regulations.

The U.S. National Highway Traffic Safety Administration issues data on traffic accident deaths and death rates in two annual reports: the *Fact Book* and the *Fatal Accident Reporting System Annual Report*. DOT's Federal Railroad Administration presents data on accidents involving railroads in its annual *Accident/Incident Bulletin*, and the *Rail-Highway Crossing Accident/Incident and Inventory Bulletin*.

Various censuses and surveys conducted by the U.S. Bureau of the Census also provide data. Results of the censuses of transportation are presented in the *Truck Inventory and Use Survey*. The *Annual Survey of Manufactures* and reports of the censuses of manufactures, wholesale and retail trade, and service industries contain statistics on the motor vehicle and equipment industry and on retail, wholesale, and services aspects of this industry. Data on persons commuting to work were collected as part of the 1980 census and are in various census reports.

Data are also presented in many nongovernment publications. Among them are the weekly and annual *Cars of Revenue Freight Loaded* and the annual *Yearbook of Railroad Facts*, both published by the Association of American Railroads, Washington, DC; *Bus Facts*, issued annually by the American Bus Association, Washington, DC; and the *Transit Fact Book*, containing electric railway and motorbus statistics, published annually by the American Public Transit Association, Washington, DC. Useful annual handbooks in the field of transportation are *Motor Vehicle Facts and Figures* and *World Motor Vehicle Data*, issued by the Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI; *Accident Facts*, issued by the National Safety Council, Chicago, IL; and *Transportation in America*, issued by the ENO Foundation for Transportation, Westport, Connecticut.

**Urban and rural highway mileage.**—Beginning 1980, mileage is classified in urban and rural categories, rather than municipal and rural. Urban denotes the Federal-aid legislation definition of an area. Such areas include, as a minimum, a census place with a population of 5,000 to 49,999 or a designated urbanized area with a population of 50,000 or more. These Federal-aid urban areas may extend beyond corporate and census boundaries, and thus are not necessarily coextensive with municipal boundaries. Rural in 1980 refers to non-Federal-aid urban area mileage. Prior to 1980, municipal referred to roads within incorporated places, densely populated New England towns, and certain of the more populous unincorporated areas and rural to non-municipal roads.

**Federal-aid highway systems.**—Federal law provides that Federal funds be matched in varying proportions with State funds for the costs of planning, engineering, right-of-way acquisition, and construction of highways. Other costs, such as maintenance and policing, are borne entirely by the States and local agencies.

Effective July 1, 1976, a uniform road classification system was implemented which shortened the mileage of the highway system and redefined the three main systems of Federal-aid routes. The Federal-aid primary system is comprised of a network of main roads important to interstate, statewide, and regional travel. The system consists of main rural roads and their extensions into or through urban areas. The Federal-aid secondary system consists of rural roads of a more local nature, such as those which connect county seats and the larger population centers not served by the primary system. The Federal-aid urban system is located in urban places of 5,000 or more persons and consists of major urban roads and streets, except those on the primary system.

**Regulatory bodies.**—The ICC, created by the U.S. Congress to regulate transportation in interstate commerce, has jurisdiction over railroads, trucking companies, bus lines, freight forwarders, water carriers, coal slurry pipelines, and transportation brokers. The Federal Energy Regulatory Commission is responsible for setting rates and charges for transportation and sale of natural gas and for establishing rates or charges for transportation.

**Motor carriers.**—For 1960-73, class I for-hire motor carriers of freight were classified by the ICC as those with \$1 million or more of gross annual operating revenue; 1974-79, the class I minimum was \$3 million. Effective January 1, 1980, class I carriers are those with \$5 million or more in revenue. For 1960-68, class I motor carriers of passengers were classified by the ICC as those with \$200,000 or more of gross annual operating revenue; for 1969-76, as those with revenues of \$1 million or more; and since 1977, as those with \$3 million or more. Effective January 1, 1988, class I motor carriers of passengers are those with \$5 million or more in operating revenues; class II less than \$5 million in operating revenues.

**Railroads.**—Railroad companies reporting to the ICC are divided into specific groups as follows: (1) Regular line-haul (interstate) railroads (and their non-operating subsidiaries); (2) switching and terminal railroads; (3) private railroads prior to 1964 (identified by ICC as "circular" because they reported on brief circulars); and (4) unofficial railroads, so designated when their reports are received too late for tabulation. For the most part, the last three groups are not included in the statistics shown here.

For years prior to 1978, class I railroads were those with annual revenues of \$1 million or more for 1950-55; \$3 million or more for 1956-64; \$5 million or more for 1965-75; and \$10 million or more for 1976-77. In 1978, the classification became class I, those having more than \$50 million gross annual operating revenue; class II, from \$10 million to \$50 million; and class III, less than \$10 million. Effective January 1, 1982, the ICC adopted a procedure to adjust the threshold for inflation by restating current revenues in constant 1978 dollars. In 1988, the criteria for class I and class II railroads were \$92.0 million and \$18.4 million, respectively. Also effective January 1, 1982, the ICC adopted a *Carrier Classification Index Survey Form* for carriers not filing annual report form R-1 with the commission. Class II and class III railroads are currently exempted from filing any financial report with the Commission. The form is used for reclassifying carriers.

**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

#### No. 1019. Passenger and Freight Transportation Outlays, by Type of Transport: 1970 to 1989

[In billions of dollars. Freight data include outlays for mail and express. ICC=Interstate Commerce Commission]

TYPE OF TRANSPORT	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989, est.
<b>Total outlays</b> <sup>1</sup>	<b>195.6</b>	<b>297.8</b>	<b>540.9</b>	<b>595.8</b>	<b>586.7</b>	<b>638.7</b>	<b>706.0</b>	<b>755.6</b>	<b>769.9</b>	<b>802.5</b>	<b>865.1</b>	<b>908.8</b>
Passenger, total	114.9	187.4	336.9	373.5	377.7	409.0	455.7	493.5	502.6	520.8	566.8	595.1
Private transportation	99.6	161.3	284.8	317.4	320.6	347.2	387.0	419.3	426.6	440.8	473.9	495.6
Automobiles <sup>2</sup>	97.0	156.6	276.7	308.0	312.4	339.8	378.8	411.0	418.4	432.1	464.4	485.7
New and used cars	32.1	46.0	73.3	82.6	85.7	105.6	125.7	139.3	156.7	149.2	165.6	164.1
Tires, tubes, accessories	7.1	12.4	22.2	24.6	24.9	26.9	27.5	29.4	31.3	33.2	36.8	39.7
Gasoline and oil	29.9	53.9	99.7	111.3	106.3	105.9	106.7	108.9	86.9	90.6	90.4	98.8
Insurance less claims	4.4	4.5	11.5	10.8	11.2	12.5	12.0	11.6	14.8	18.2	19.8	21.0
Interest on debt	4.7	7.3	17.5	21.0	21.8	19.6	25.1	26.7	26.5	29.1	33.7	36.5
Registration and operator's permit fees	1.9	2.3	3.3	3.5	3.8	4.1	4.5	5.3	5.6	5.9	6.2	6.4
Repair, greasing, washing, parking, tolls	13.2	22.1	38.0	41.5	43.5	45.7	50.4	56.8	60.9	66.4	73.5	78.7
Air	2.6	4.7	8.1	9.4	8.2	7.4	8.2	8.3	8.1	8.7	9.4	9.9
For-hire transportation	15.3	26.2	52.2	56.1	57.1	61.8	68.7	74.2	76.0	82.3	92.9	99.4
Local	5.4	10.5	18.5	20.4	21.3	22.3	23.6	27.7	29.0	30.5	33.1	34.7
Bus and transit <sup>3</sup>	1.8	4.7	9.2	10.1	10.3	11.4	11.7	15.1	15.1	15.8	17.4	17.9
School bus	1.2	2.2	3.8	4.7	5.0	5.2	5.8	6.1	6.4	6.8	7.1	7.5
Taxi	2.1	3.4	5.2	5.2	5.6	5.3	5.5	5.6	6.0	6.4	6.9	7.5
Intercity	7.7	12.9	28.4	30.6	30.5	33.5	38.5	39.5	39.8	42.6	48.6	52.4
Air	6.6	11.2	25.1	26.8	28.8	29.7	33.6	35.9	36.4	39.3	44.9	48.5
Rail <sup>6</sup>	0.3	0.6	1.6	1.9	1.8	1.8	1.8	1.6	1.5	1.5	1.6	1.7
Bus	0.8	1.0	1.7	1.8	1.9	2.0	2.0	2.0	1.9	1.8	2.0	2.0
International	2.2	2.7	5.3	5.3	5.4	6.0	6.6	7.0	7.1	9.2	11.2	12.3
<b>Freight, total</b> <sup>4</sup>	<b>83.8</b>	<b>115.5</b>	<b>212.1</b>	<b>234.6</b>	<b>220.9</b>	<b>240.5</b>	<b>262.1</b>	<b>272.3</b>	<b>279.6</b>	<b>292.6</b>	<b>311.5</b>	<b>327.5</b>
Highway	62.5	84.8	155.4	173.3	162.7	180.5	195.6	208.6	214.1	224.7	239.2	254.3
Truck, intercity	33.6	47.4	94.6	100.2	99.9	111.1	120.7	126.2	129.1	136.3	143.2	152.5
Truck, local	28.8	37.3	60.5	72.8	62.5	69.2	74.7	82.2	84.8	89.6	95.8	101.6
Rail	11.9	16.5	27.7	30.5	27.1	27.3	30.5	29.2	27.8	28.4	29.6	29.6
Water	5.1	7.9	14.8	15.7	15.6	16.2	17.8	18.7	19.0	19.1	20.2	20.2
Oil pipeline	1.4	2.2	7.1	7.4	7.9	8.3	8.7	8.9	8.6	8.5	8.6	8.5
Air carrier	1.2	1.8	4.0	4.3	4.4	5.0	6.0	6.8	7.6	8.7	10.2	11.2

<sup>1</sup> Total outlays less than sum of passenger and freight totals, as estimated freight costs included in costs of new cars, gasoline, oil, tires, and tubes have been excluded to prevent duplication. <sup>2</sup> Includes business-owned vehicles. <sup>3</sup> Includes storage and rental. <sup>4</sup> Includes items not shown separately. <sup>5</sup> Includes Federal, State and local government operating subsidies and capital grants. <sup>6</sup> Includes Federal operating subsidies and capital grants for Amtrak.

Source: ENO Foundation for Transportation, Westport, CT, *Transportation in America*, May 1990, with periodic supplements. (Copyright.)

**No. 1020. Employment and Earnings in Transportation, by Industry: 1970 to 1989**

[Annual averages of monthly figures. Based on Current Employment Statistics program; see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series Q 36-42]

SIC <sup>1</sup> code	INDUSTRY	1970	1980	1983	1984	1985	1986	1987	1988	1989
(X)	NUMBER (1,000)									
(X)	<b>Total transportation</b> . . . . .	<b>2,694</b>	<b>2,960</b>	<b>2,743</b>	<b>2,916</b>	<b>3,001</b>	<b>3,056</b>	<b>3,163</b>	<b>3,312</b>	<b>3,450</b>
40	Railroads . . . . .	634	532	376	376	359	332	309	298	294
4011	Class I railroads . . . . .	566	482	348	345	323	294	271	259	252
41	Local and interurban passengers . . . . .	281	265	257	271	278	287	296	312	328
42	Trucking and warehousing . . . . .	1,083	1,280	1,217	1,318	1,363	1,396	1,468	1,552	1,606
44	Water transportation . . . . .	212	211	189	190	185	175	173	172	173
45	Air transportation . . . . .	352	453	455	489	522	567	603	646	697
46	Pipelines, exc. natural gas . . . . .	18	21	20	19	19	18	19	19	19
47	Transportation services . . . . .	115	198	229	253	276	282	296	313	334
(X)	AVERAGE WEEKLY EARNINGS (dol.)									
4011	Class I railroads . . . . .	172	427	542	573	595	608	627	674	693
41	Local and interurban passengers . . . . .	(NA)	217	252	258	261	274	281	293	302
42	Trucking and warehousing . . . . .	159	358	400	407	405	408	414	419	437
46	Pipelines, exc. natural gas . . . . .	189	441	586	597	629	637	644	662	671

NA Not available. X Not applicable. <sup>1</sup> 1987 Standard Industrial Classification, see text, section 13.

Source: U.S. Bureau of Labor Statistics, Bulletin 2370 and *Employment and Earnings*, monthly.

**No. 1021. Volume of Domestic Intercity Freight and Passenger Traffic, by Type of Transport: 1970 to 1989**

[Freight traffic in bil. ton-miles; passenger traffic in bil. passenger-miles. A ton-mile is the movement of 1 ton (2,000 pounds) of freight for the distance of 1 mile. A passenger-mile is the movement of 1 passenger for the distance of 1 mile. Comprises public and private traffic, both revenue and nonrevenue. See also *Historical Statistics, Colonial Times to 1970*, series Q1-22]

TYPE OF TRANSPORT	TRAFFIC VOLUME						PERCENT DISTRIBUTION					
	1970	1975	1980	1985	1988	1989 <sup>1</sup>	1970	1975	1980	1985	1988	1989 <sup>1</sup>
<b>Freight traffic, total</b> . . . . .	<b>1,936</b>	<b>2,066</b>	<b>2,487</b>	<b>2,458</b>	<b>2,779</b>	<b>2,811</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Railroads . . . . .	771	759	932	895	1,028	1,048	39.82	36.74	37.47	36.41	36.99	37.28
Truck:												
ICC truck . . . . .	167	200	242	250	293	299	8.63	9.68	9.73	10.17	10.54	10.64
Non-ICC truck . . . . .	245	254	313	360	406	413	12.65	12.29	12.59	14.65	14.61	14.69
Water:												
Rivers/canals . . . . .	205	243	311	306	353	362	10.59	11.76	12.51	12.45	12.7	12.88
Great Lakes . . . . .	114	99	96	76	85	82	5.89	4.79	3.86	3.09	3.06	2.92
Oil pipelines . . . . .	431	507	588	564	605	597	22.26	24.54	23.64	22.95	21.77	21.24
Domestic airways <sup>2</sup> . . . . .	3.3	3.7	4.8	6.7	9.3	9.8	0.17	0.19	0.19	0.28	0.33	0.35
<b>Passenger traffic, total</b> . . . . .	<b>1,181</b>	<b>1,354</b>	<b>1,557</b>	<b>1,744</b>	<b>1,956</b>	<b>2,014</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Private automobiles . . . . .	1,026	1,171	1,300	1,418	1,574	1,630	86.88	86.48	83.49	81.31	80.47	80.93
Domestic airways <sup>3</sup> . . . . .	119	148	219	291	346	347	10.08	10.93	14.07	16.68	17.69	17.23
Bus <sup>4</sup> . . . . .	25	25	27	24	23	24	2.12	1.85	1.73	1.38	1.18	1.19
Railroads <sup>5</sup> . . . . .	11	10	11	11	13	13	0.93	0.74	0.71	0.63	0.66	0.65

<sup>1</sup> Preliminary. <sup>2</sup> Revenue service only for scheduled and non-scheduled carriers, with small section 418 all-cargo carriers included from 1980. Includes express, mail, and excess baggage. <sup>3</sup> Includes general aviation (mostly private business) flying.

<sup>4</sup> Excludes school and urban transit buses. <sup>5</sup> Includes intercity (Amtrak) and rail commuter service.

Source: Eno Foundation for Transportation, Westport, CT, *Transportation in America*, May 1990, with periodic supplements. (Copyright.)

**No. 1022. Passenger Transportation Arrangement: 1987 to 1989**

[In millions of dollars, except percent. Represents SIC 4722]

SOURCE OF RECEIPTS	1987	1988	1989	OPERATING EXPENSES	1987	1988	1989
<b>Receipts, total<sup>1</sup></b> . . . . .	<b>7,053</b>	<b>7,819</b>	<b>8,654</b>	<b>Expenses, total<sup>1</sup></b> . . . . .	<b>6,002</b>	<b>6,868</b>	<b>7,548</b>
Air carriers . . . . .	3,964	4,472	4,968	Payroll, annual . . . . .	2,594	2,954	3,229
Water carriers . . . . .	349	331	362	Employer contributions <sup>2</sup> . . . . .	318	371	439
Hotels and motels . . . . .	378	443	514	Lease and rental payments . . . . .	595	669	708
Motor coaches . . . . .	311	308	311	Advertising and promotion . . . . .	347	423	472
Railroads . . . . .	37	45	54	Taxes and licenses . . . . .	106	113	126
Rental cars . . . . .	137	143	154	Utilities . . . . .	(S)	265	300
Package tours . . . . .	1,409	1,610	1,758	Depreciation . . . . .	291	262	257
Other . . . . .	468	467	533				

S Figure does not meet publication standards. <sup>1</sup> Receipts for firms primarily engaged in arranging passenger transportation. These estimates exclude receipts of transportation companies (airlines, railroads, etc.). <sup>2</sup> Includes contributions to Social Security and other supplemental benefits.

Source: U.S. Bureau of the Census, *Service Annual Survey*.

**No. 1023. Transportation Accidents, Deaths, and Injuries: 1970 to 1989**

[For related data, see also table 1042, 1065, 1072, and 1081]

YEAR AND CASUALTY	Total (1,000)	TYPE OF TRANSPORT											Hazardous materials <sup>11</sup>
		Motor vehicle (1,000)	Railroad <sup>2</sup>	Air carriers				General aviation <sup>6</sup>	Recreational boating	Gas pipe-lines <sup>8</sup>	Liquid pipe-lines <sup>9</sup>	Water-borne <sup>10</sup>	
				Total	Air-lines <sup>3</sup>	Com-muter air carriers <sup>4</sup>	On demand air carriers <sup>5</sup>						
<b>Accidents:</b>													
1970 . . .	16,013	16,000	8,095	(NA)	(NA)	(NA)	(NA)	(NA)	3,803	1,019	351	(NA)	(NA)
1975 . . .	16,524	16,500	8,041	237	37	48	152	3,995	6,308	1,373	254	3,310	10,951
1980 . . .	17,925	17,900	8,451	228	19	38	171	3,590	5,513	1,996	219	4,624	15,737
1985 . . .	19,348	19,300	3,275	195	22	21	152	2,741	6,237	331	183	3,439	6,014
1989 . . .	(NA)	(NA)	2,898	155	29	18	108	2,202	6,063	257	161	3,270	12,748
<b>Deaths:</b>													
1970 . . .	54.8	52.6	785	(NA)	(NA)	(NA)	(NA)	(NA)	1,418	22	4	(NA)	(NA)
1975 . . .	48.2	44.5	575	221	124	28	69	1,252	1,466	14	7	243	27
1980 . . .	54.5	51.1	584	143	1	37	105	1,239	1,360	11	3	206	19
1985 . . .	47.3	43.8	454	639	526	37	76	950	1,116	28	5	131	8
1989 . . .	(NA)	45.5	523	(NA)	278	31	87	753	896	36	3	79	9
<b>Injuries:</b>													
1970 . . .	2,024	2,000	21,327	(NA)	(NA)	(NA)	(NA)	(NA)	780	347	21	(NA)	(NA)
1975 . . .	1,858	1,800	54,306	109	71	6	32	728	2,136	819	17	97	648
1980 . . .	2,066	2,000	62,246	74	17	14	43	675	2,650	310	15	176	626
1985 . . .	1,705	1,700	31,592	92	33	16	43	517	2,757	121	17	187	253
1989 . . .	(NA)	(NA)	23,450	(NA)	23	4	34	394	3635	78	38	187	312

NA Not available. <sup>1</sup> Data on deaths are from U.S. National Highway Traffic Safety Administration and are based on 30 day definition; see table 1042. Other data are from National Safety Council. <sup>2</sup> Accidents which result in damages to railroad property. Grade crossing accidents are also included when classified as a train accident. Deaths exclude fatalities in railroad-highway grade crossing accidents. <sup>3</sup> Includes scheduled and non-scheduled (charter) air carriers. Represents serious injuries. <sup>4</sup> All scheduled service. Represents serious injuries. <sup>5</sup> All non-scheduled service. Represents serious injuries. <sup>6</sup> 1975 excludes commuter and on-demand air taxis. <sup>7</sup> Accidents resulting in death; injury or requiring medical treatment beyond first aid; damages exceeding \$200; or a person's disappearance. <sup>8</sup> Pipeline accidents/incidents are credited to the year in which they occurred beginning with 1983 data; prior data are credited to the year the accident/incident reports were filed. Fatalities and injuries as reported in annual report. <sup>9</sup> Pipelines carrying hazardous materials, petroleum, and liquid petroleum products. <sup>10</sup> Covers accidents involving commercial vessels which must be reported to U.S. Coast Guard if there is property damage exceeding \$1,500; material damage affecting the seaworthiness or efficiency of a vessel; stranding or grounding; loss of life; or injury causing a person's incapacity for more than 3 days. <sup>11</sup> Accidents, deaths, and injuries involving hazardous materials cover all types of transport. <sup>12</sup> Preliminary.

Source: U.S. Dept. of Transportation, Transportation Systems Center, Cambridge, MA, *Transportation Safety Information Report*, annual.

**No. 1024. Federal Outlays for Transportation, by Function: 1970 to 1990**

[In millions of dollars. For fiscal years ending in year shown; see text, section 9]

FUNCTION	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990, est.
<b>Total outlays . . . . .</b>	55.0	107.0	125.2	125.2	125.2	125.2	125.2	125.2	125.2	272	27,808	28,250
Ground transportation . . . . .										48	17,946	18,377
Air transportation . . . . .										197	6,622	7,412
Water transportation . . . . .										11	2,916	3,321
Other transportation . . . . .	26	74	104	90	99	85	137	140	91	116	124	140

Source: U.S. Office of Management and Budget, *Budget of the United States Government*, annual.

**No. 1025. Expedited Domestic Package Express Volume and Growth: 1977 and 1988**

[Year ended December 31. Represents the activity of domestic package express companies. Companies such as Federal Express Inc. and United Parcel Service Inc. Also includes package express services offered by trucking companies, the postal service, passenger airlines, freight forwarders, couriers, Amtrak, and bus companies. The Department of Transportation defines package express as the transportation of parcels of 150 pounds or less, with overnight or second-day delivery]

EXPEDITED PACKAGE EXPRESS	Unit	1977	1988	Percent change 1977-88	Average annual percent change, 1977-88
<b>Expedited package express, total:</b>					
Shipments . . . . .	Millions . . . .	628	3,176	406.6	40.6
Weight . . . . .	Mil.lbs. . . . .	9,409	37,258	296.0	29.6
Revenue . . . . .	Mil.dol. . . . .	2,487	20,771	741.9	74.2
<b>Air:</b>					
Shipments . . . . .	Millions . . . .	81	544	571.8	57.2
Weight . . . . .	Mil.lbs. . . . .	4,485	8,914	98.7	9.9
Revenue . . . . .	Mil.dol. . . . .	1,384	11,403	724.1	72.4
<b>Surface express:</b>					
Shipments . . . . .	Millions . . . .	547	2,632	381.0	38.1
Weight . . . . .	Mil.lbs. . . . .	4,924	28,344	475.6	47.6
Revenue . . . . .	Mil.dol. . . . .	1,083	9,368	764.8	76.5

Source: U.S. Department of Commerce, *Journal of Commerce*.



### No. 1026. Highway Mileage—Urban and Rural, by Type of Control, and Federal-Aid Highway System: 1970 to 1988

[In thousands, except percent. As of Dec. 31. Beginning 1980, data for urban and rural mileage are not comparable to prior years because of classification changes; see text, section 21. See also *Historical Statistics, Colonial Times to 1970*, series Q 50, 51, and 55]

TYPE AND CONTROL	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
<b>Total mileage</b> <sup>1</sup>	<b>3,730</b>	<b>3,838</b>	<b>3,955</b>	<b>3,853</b>	<b>3,866</b>	<b>3,880</b>	<b>3,892</b>	<b>3,862</b>	<b>3,880</b>	<b>3,874</b>	<b>3,871</b>
Urban mileage <sup>2</sup>	561	639	624	632	641	662	674	691	701	710	739
Under State control	74	84	79	90	103	100	103	111	94	95	96
Under local control	487	555	543	540	536	562	571	578	606	614	642
Rural mileage	3,169	3,199	3,331	3,221	3,226	3,217	3,218	3,171	3,178	3,164	3,132
Percent surfaced <sup>4</sup>	76.1	77.6	77.5	86.1	85.7	86.0	87.5	88.1	88.4	88.4	88.1
Under State control	707	711	702	726	825	817	818	773	704	704	704
Under local control	2,275	2,261	2,270	2,236	2,140	2,138	2,134	2,173	2,243	2,249	2,244
Under Federal control	188	227	262	256	261	262	266	225	231	212	183
Fed.-aid highway system: <sup>6</sup>											
Primary (urban and rural)	272	266	300	298	298	300	300	301	303	302	304
Interstate	32	37	41	42	42	43	43	44	44	44	45
Urban	(X)	65	124	129	134	137	140	144	146	148	147
Secondary	647	643	398	401	402	397	398	398	398	398	400

X Not applicable. <sup>1</sup> Prior to 1980, includes public and nonpublic road mileage; beginning 1981, includes only public road mileage as defined 23 USC 402. <sup>2</sup> Includes 98,000 miles of nonpublic road mileage previously contained in other rural categories. <sup>3</sup> Prior to 1980, represents municipal mileage; see text, section 21. <sup>4</sup> Covers soil-surfaced roads and roads with slag, gravel, stone, bituminous, or concrete surfaces. <sup>5</sup> Incomplete reporting from Alaska, Missouri, and Pennsylvania for control accounts for changes between 1981 and 1982. <sup>6</sup> For definition, see text, section 21. Beginning 1980, data represent actual mileage open to traffic rather than total highway miles carrying interstate traffic.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

### No. 1027. Highway Mileage—Urban, Rural, and Federal-Aid Highway System: 1988

[As of Dec. 31. For definition of urban, rural, and Federal-aid highway system roads, see text, section 21]

STATE	Urban	Rural	FEDERAL-AID HIGHWAY SYSTEM <sup>1</sup>				STATE	Urban	Rural	FEDERAL-AID HIGHWAY SYSTEM <sup>1</sup>			
			Total		Urban	Sec- ondary				Total		Urban	Sec- ondary
			Primary	Inter- state <sup>2</sup>						Primary	Inter- state <sup>2</sup>		
U.S.	739,474	3,131,669	303,698	44,829	147,035	400,081	MO	15,386	104,502	8,170	1,177	2,434	18,062
AL	16,844	73,574	7,825	883	2,781	11,484	MT	2,260	69,211	6,648	1,191	360	4,732
AK	1,760	10,429	2,074	1,089	253	1,951	NE	4,943	87,552	7,675	481	1,055	11,449
AZ	11,515	58,767	4,662	1,162	3,006	3,294	NV	3,053	41,780	2,393	545	559	2,315
AR	7,654	69,440	5,755	542	1,143	7,249	NH	2,402	12,309	1,350	224	727	1,235
CA	71,186	91,376	13,476	2,390	17,610	11,064	NJ	22,433	11,764	1,864	392	5,352	1,723
CO	11,127	66,022	5,222	941	2,297	3,411	NM	4,607	49,331	4,573	999	569	3,936
CT	10,810	8,988	1,607	342	2,957	902	NY	37,542	73,071	9,893	1,501	8,749	6308
DE	1,569	3,818	476	41	311	602	NC	18,571	75,242	5,341	836	2,804	10,297
DC	1,102		192	12	236		ND	1,778	84,533	6,109	570	487	10,577
FL	47,931	56,658	9,444	1,389	4,590	4,391	OH	31,228	82,112	8,145	1,565	7,842	11,649
GA	20,338	87,050	11,336	1,244	3,970	14,008	OK	12,105	99,298	6,240	927	2,975	11,663
HI	1,405	2,676	551	39	322	455	OR	8,695	84,900	5,789	727	1,998	7,811
ID	2,396	58,267	3,274	605	723	4,194	PA	27,702	88,382	11,486	1,528	7,041	7,978
IL	31,577	103,929	11,580	1,939	6,753	12,957	RI	4,378	1,468	466	70	924	203
IN	17,740	73,848	6,089	1,117	4,580	9,593	SC	9,327	54,375	6,461	790	1,174	8,519
IA	8,708	103,780	9,589	782	2,438	13,506	SD	1,759	71,661	6,799	677	162	11,478
KS	8,897	124,068	8,923	870	1,590	22,605	TN	15,092	68,546	7,167	1,062	3,131	5,448
KY	7,597	62,251	4,580	763	1,919	7,320	TX	83,967	216,477	19,956	3,207	7,689	32,600
LA	12,267	46,155	3,895	751	2,166	7,353	UT	5,381	37,554	3,507	911	921	2,644
ME	2,413	19,553	2,374	366	705	2,742	VT	978	13,111	1,440	320	281	1,946
MD	12,019	16,214	2,596	393	2,129	1,907	VA	14,845	52,047	6,452	1,069	3,416	10,203
MA	20,609	13,200	2,778	564	5,906	2,007	WA	16,247	65,299	5,801	763	4,181	7,270
MI	26,996	90,899	8,439	1,211	5,645	17,106	WV	2,974	31,599	2,961	519	783	6,370
MN	13,950	115,694	10,208	905	2,203	16,619	WI	14,264	95,365	9,916	640	2,947	12,960
MS	7,257	64,912	6,446	684	1,721	11,718	WY	1,890	38,612	3,905	914	520	2,267

- Represents zero. <sup>1</sup> Highway mileage open to traffic. <sup>2</sup> Although the interstate system is part of the Federal-aid primary system, its mileage is shown separately.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

**No. 1028. Highway Pavement Condition, by Type of Road System: 1980 to 1988**

[Highway pavement condition is classified by the Present Serviceability Rating (PSR) system (5.0 - 0.1). The reported ranges are defined as: PSR 5.0-3.5, pavements give a first class ride and exhibit few, if any, visible signs of surface wear. Of the quality of new or nearly new pavements. PSR 3.4-2.0, pavements have a riding quality somewhat inferior to that of new pavements or may even be barely tolerable at high speeds. Surfaces may show signs of cracking, substantial patching, and rutting. PSR 1.9-0.1, pavements show extensive wear to the point of needing resurfacing or may even need complete reconstruction]

PAVEMENT CONDITION	INTERSTATE ROAD				ARTERIAL ROAD				COLLECTOR ROAD			
	1980	1985	1987	1988	1980	1985	1987	1988	1980	1985	1987	1988
<b>URBAN AREAS</b>												
Percent of road mileage rated—												
PSR 0.1-1.9 (0.1-2.4) <sup>1</sup>	6	7	7	8	7	5	5	5	9	7	9	9
PSR 2.0-3.4 (2.5-3.4) <sup>1</sup>	26	38	37	37	42	53	53	53	50	58	60	60
PSR 3.5-5.0	68	55	55	55	51	42	42	42	41	35	31	31
<b>RURAL AREAS</b>												
Percent of road mileage rated—												
PSR 0.1-1.9 (0.1-2.4) <sup>1</sup>	5	7	9	9	6	4	3	3	16	10	9	9
PSR 2.0-3.4 (2.5-3.4) <sup>1</sup>	26	33	33	33	46	51	52	50	55	59	57	57
PSR 3.5-5.0	69	60	58	58	48	45	45	47	29	31	34	34

<sup>1</sup> PSR range shown in parentheses applies to Interstate roads only.

**No. 1029. Receipts and Disbursements for Highways, by Type: 1970 to 1990**

[In millions of dollars. Data compiled from reports of State and local authorities. For Federal highway trust fund receipts, disbursements, and balances, see table 511. State data include District of Columbia]

TYPE	1970	1980	1985	1987	1988	1989, prel.	1990, proj.		
							Total <sup>1</sup>	Federal	State
<b>Total receipts</b>	<b>21,747</b>	<b>39,715</b>	<b>61,506</b>	<b>65,534</b>	<b>69,002</b>	<b>72,734</b>	<b>76,033</b>	<b>16,486</b>	<b>38,208</b>
Current income	19,861	37,604	54,957	61,732	64,593	68,296	71,438	16,486	35,708
Imposts on highway users <sup>2</sup>	15,311	22,559	35,599	40,075	41,588	44,304	45,698	13,890	30,456
Other taxes and fees	3,732	11,808	15,127	17,124	18,158	19,166	20,337	1,083	3,302
Investment income and other receipts	818	3,237	4,231	4,533	4,847	4,826	5,403	1,513	1,950
Bond issue proceeds	1,886	2,111	6,549	3,802	4,409	4,438	4,595	-	2,500
Intergovernmental payments	(X)	(X)	(X)	(X)	(X)	(X)	(X)	-14,469	6,318
Funds from (+) or to (-) reserves <sup>4</sup>	912	+2,080	-4,058	-234	-393	-2,018	-2,035	-1,034	-100
Total funds available	20,835	41,795	57,448	65,300	68,609	70,716	73,998	983	44,426
<b>Total disbursements</b>	<b>20,835</b>	<b>41,795</b>	<b>57,448</b>	<b>65,300</b>	<b>68,609</b>	<b>70,716</b>	<b>73,998</b>	<b>983</b>	<b>44,426</b>
Current disbursements	19,583	40,084	54,725	62,615	66,044	68,007	71,163	983	42,829
Capital outlay	11,575	20,337	27,138	30,740	32,982	33,625	35,236	498	25,903
Maintenance and traffic services	4,720	11,445	16,032	18,152	18,969	19,723	20,536	160	8,421
Administration and research	1,275	3,022	4,033	4,973	5,124	5,306	5,639	325	3,069
Law enforcement and safety	1,303	3,824	5,334	5,962	6,142	6,409	6,896	-	3,606
Interest on debt	710	1,456	2,188	2,788	2,827	2,944	3,056	-	1,830
Debt retirement <sup>3</sup>	1,252	1,711	2,723	2,685	2,565	2,709	2,835	-	1,597

- Represents zero. X Not applicable. <sup>1</sup> Includes other levels of government not shown separately. <sup>2</sup> Excludes amounts later allocated for nonhighway purposes. <sup>3</sup> Par value. Excludes issue and redemption of short-term notes or refunding bonds. Premiums and discounts on sale of bonds and accrued interest are included with investment income and other receipts. Redemption premiums and discounts are included with interest on debt. <sup>4</sup> Plus sign (+) indicates net receipt of funds from other levels of government; minus sign (-) indicates net disbursement of funds to other levels.

Source of tables 1028 and 1029: U.S. Federal Highway Administration, *Highway Statistics*, annual, and releases.

**No. 1030. Disbursements of State Highway Funds, by State: 1980 to 1988**

[In millions of dollars. Comprises disbursements from current revenues or loans for construction, maintenance, interest and principal payments on highway bonds, transfers to local units, and miscellaneous. Includes transactions by State toll authorities. Excludes amounts allocated for collection and nonhighway purposes, and bonds redeemed by refunding. See also *Historical Statistics, Colonial Times to 1970*, series Q 90-94]

STATE	1980	1985	1988	STATE	1980	1985	1988	STATE	1980	1985	1988
U.S. . . .	30,049	40,891	47,164	KY . . . .	913	901	1,054	OH . . . .	1,032	1,622	1,745
AL . . . .	517	875	877	LA . . . .	682	879	808	OK . . . .	461	668	722
AK . . . .	274	383	408	ME . . . .	164	238	245	OR . . . .	482	492	625
AZ . . . .	365	778	1,166	MD . . . .	663	988	1,410	PA . . . .	1,557	2,340	2,786
AR . . . .	425	488	459	MA . . . .	704	786	(NA)	RI . . . .	72	139	204
CA . . . .	1,930	3,006	3,474	MI . . . .	997	1,275	1,380	SD . . . .	309	420	569
CO . . . .	411	563	654	MN . . . .	611	980	1,012	TN . . . .	151	211	224
CT . . . .	393	565	818	MS . . . .	468	845	503	TX . . . .	609	800	1,100
DE . . . .	152	234	355	MO . . . .	555	854	948	UT . . . .	1,862	1,825	3,071
DC . . . .	57	142	231	MT . . . .	224	286	239	VT . . . .	241	394	365
FL . . . .	1,261	1,647	2,094	NE . . . .	274	358	409	WA . . . .	894	1,165	1,762
GA . . . .	762	1,115	1,109	NV . . . .	169	241	287	WY . . . .	787	1,040	1,062
HI . . . .	134	137	196	NH . . . .	152	219	256		672	582	559
ID . . . .	153	229	263	NJ . . . .	682	1,229	1,553		468	669	864
IL . . . .	1,652	2,087	2,332	NY . . . .	197	364	462		192	298	239
IN . . . .	688	919	1,065	ND . . . .	1,650	2,022	2,360				
IA . . . .	504	746	766		807	966	1,207				
KS . . . .	440	506	528		143	199					

NA Not available.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

**No. 1031. Federal Grants to State and Local Governments for Highway Trust Fund and Urban Mass Transportation Administration (UMTA), by State: 1989**

[Year ending Sept. 30]

STATE	HIGHWAY TRUST FUND		UMTA		STATE	HIGHWAY TRUST FUND		UMTA		STATE	HIGHWAY TRUST FUND		UMTA	
	Total (mil. dol.)	Per capita <sup>1</sup>	Total (mil. dol.)	Per capita <sup>1</sup>		Total (mil. dol.)	Per capita <sup>1</sup>	Total (mil. dol.)	Per capita <sup>1</sup>		Total (mil. dol.)	Per capita <sup>1</sup>	Total (mil. dol.)	Per capita <sup>1</sup>
U.S.	13,035	52.5	3,510	14.1	KS	152	60.3	5	1.9	ND	66	100.3	2	3.4
AL	288	69.9	15	3.6	KY	177	47.6	21	5.7	OH	429	39.4	100	9.2
AK	192	363.5	1	2.2	LA	245	55.9	40	9.1	OK	217	67.4	9	2.9
AZ	174	48.9	22	6.3	ME	58	47.3	4	3.6	OR	134	47.5	26	9.0
AR	108	44.8	6	2.6	MD	427	91.0	58	12.4	PA	814	67.6	202	16.8
CA	1,010	34.8	529	18.2	MI	236	39.9	142	24.0	RI	110	110.1	8	7.5
CO	203	61.3	31	9.3	MN	327	35.2	55	5.9	SC	184	52.3	11	3.1
CT	348	107.4	51	15.9	MS	290	66.5	33	7.5	SD	101	141.9	2	2.8
DE	44	65.6	9	13.0	MO	110	42.1	6	2.1	TN	190	38.6	22	4.5
DC	71	117.7	260	430.9	MT	228	44.2	56	10.9	TX	930	54.7	122	7.2
FL	550	43.4	77	6.1	NE	107	132.4	2	2.5	UT	176	103.1	9	5.4
GA	360	55.9	48	7.5	NV	110	68.6	6	3.7	VT	49	86.3	1	1.6
HI	75	67.6	14	13.0	NH	71	64.3	4	3.7	WA	382	62.6	36	5.9
ID	111	109.0	2	2.4	NJ	53	48.2	3	2.6	WI	356	74.8	115	24.2
IL	564	48.3	264	22.7	NY	371	48.0	171	22.1	WV	93	50.1	6	3.1
IN	234	41.9	25	4.5	NM	131	85.6	4	2.8	WY	226	46.4	23	4.7
IA	192	67.5	9	3.3	NC	617	34.4	820	45.7		83	174.1	2	3.5
						262	39.8	18	2.8					

<sup>1</sup> Based on Bureau of the Census estimated resident population as of July 1.Source: U.S. Bureau of the Census, *Federal Expenditures by State for Fiscal Year*, annual.**No. 1032. State Gasoline Tax Rates, 1988 and 1989, and Motor Fuel Tax Receipts, 1988**[See also *Historical Statistics, Colonial Times to 1970*, series Q 233-234]

STATE	RATE <sup>1</sup> (cents/gal.)		Re- ceipts, <sup>2</sup> 1988 (mil. dol.)	STATE	RATE <sup>1</sup> (cents/gal.)		Re- ceipts, <sup>2</sup> 1988 (mil. dol.)	STATE	RATE <sup>1</sup> (cents/gal.)		Re- ceipts, <sup>2</sup> 1988 (mil. dol.)
	1988	1989			1988	1989			1988	1989	
Total	21.85	(NA)	17,826	IA	20	20	292	NC	15.7	15.7	624
Federal	9.1	(NA)	(NA)	KS	11	11	168	ND	17	17	72
State	12.75	(NA)	(NA)	KY <sup>8</sup>	15	15	339	OH	14.8	14.8	797
AL	513	513	337	LA	16	16	375	OK <sup>7</sup>	16	16	309
AK	8	8	21	ME	17	16	112	OR	16	16	192
AZ	17	17	327	MD	18.5	18.5	456	PA	12	12	1,004
AR	13.5	13.5	204	MA	11	11	314	RI	15	15	67
CA	9	9	1,279	MI	15	15	687	SC	16	16	290
CO	18	18	305	MN	20	20	425	SD	18	18	72
CT	20	20	301	MS	18	18	262	TN <sup>8</sup>	20	17	506
DE	16	16	62	MO	11	11	346	TX	15	15	1,464
DC	15.5	15.5	28	MT	20	20	103	UT	19	19	160
FL	9.7	9.7	655	NE	18.5	18.2	164	VT	15	13	44
GA	7.5	7.5	325	NV	18	18	128	VA <sup>8</sup>	17.5	17.5	597
HI	11	11	42	NH	14	14	86	WA	18	18	441
ID	18	18	88	NJ	10.5	10.5	384	WV	15.5	10.5	111
IL	13	13	721	NM	14	14	134	WI	20.8	20.9	509
IN	15	15	537	NY	8	8	525	WY	8	8	37

NA Not available. <sup>1</sup> In effect Dec. 31. <sup>2</sup> Represents net receipts. <sup>3</sup> Federal tax includes 0.1 cent per gallon for the leaking underground storage tank fund effective January 1, 1987. <sup>4</sup> Weighted average tax rate. <sup>5</sup> Includes 2 cents per gallon inspection fee. <sup>6</sup> Trucks or combinations with more than 2 axles pay tax of 2 cents per gallon more in Kentucky, and 3.5 cents per gallon more in Virginia. <sup>7</sup> .08 cents per gallon is for inspection fee. <sup>8</sup> Includes 1 cent per gallon inspection fee.

**No. 1033. Public Highway Debt—State and Local Governments: 1970 to 1990**

[In millions of dollars. Long-term obligations. State data are for calendar years; local data for varying fiscal years. Excludes duplicated and interunit obligations. Municipal debt includes other political subdivisions urban in character. See also *Historical Statistics, Colonial Times to 1970*, series Q 136-147]

ITEM	1970	1980	1982	1983	1984	1985	1986	1987	1988 <sup>1</sup>	1989 <sup>2</sup>	1990 <sup>2</sup>
Total debt issued <sup>3</sup>	1,886	2,094	2,915	2,568	3,151	6,074	6,296	3,802	4,261	5,096	4,595
State	1,305	1,128	1,555	1,072	1,715	3,404	3,846	1,927	2,384	3,096	2,500
County and township	174	276	415	475	524	1,387	1,200	451	567	650	580
Municipal	407	690	945	1,019	912	1,283	1,150	1,424	1,310	1,350	1,535
Total debt redeemed <sup>4</sup>	1,252	1,706	2,046	2,172	2,411	2,737	3,132	2,685	2,735	3,471	2,835
State	782	1,022	1,146	1,191	1,507	1,580	1,875	1,625	1,398	2,063	1,587
County and township	152	209	225	303	216	378	432	349	353	375	396
Municipal	318	475	675	678	688	779	825	711	886	1,033	842
Total debt outstanding	19,107	25,851	26,830	27,224	27,964	31,301	34,465	36,565	38,091	39,716	41,476

<sup>1</sup> Preliminary. <sup>2</sup> Projection. <sup>3</sup> Excludes refunding issues. <sup>4</sup> Excludes redemptions by refunding.Source of tables 1032 and 1033: U.S. Federal Highway Administration, *Highway Statistics*, annual.

## No. 1034. Motor Vehicles—Summary: 1970 to 1989

ITEM	Unit	1970	1980	1984	1985	1986	1987	1988	1989
<b>PASSENGER CARS</b>									
Passenger car production	1,000	6,550	6,376	7,773	8,185	7,829	7,099	7,111	6,823
Passenger car factory sales	1,000	6,547	6,400	7,621	8,002	7,516	7,085	7,105	6,807
Passenger car (new), retail sales	1,000	8,405	8,979	10,390	11,042	11,460	10,277	10,626	9,898
Domestic	1,000	7,116	6,581	7,952	8,205	8,215	7,081	7,526	7,073
Subcompact	1,000	1,338	1,604	2,322	1,297	1,325	1,101	1,019	926
Compact	1,000	1,859	1,336	2,563	2,461	2,461	2,389	2,781	2,606
Standard	1,000	5,778	1,358	1,817	1,882	1,888	1,565	1,722	1,629
Intermediate	1,000	1,957	2,484	2,464	2,540	2,026	2,017	1,916	1,916
Imports	1,000	1,285	2,398	2,439	2,838	3,245	3,196	3,100	2,825
<b>TRUCKS</b>									
Truck and bus production	1,000	1,734	1,634	3,151	3,468	3,506	3,826	4,101	4,029
Truck and bus factory sales	1,000	1,692	1,667	3,075	3,357	3,393	3,821	4,121	4,062
Truck and bus retail sales	1,000	1,746	2,232	3,538	3,984	4,031	4,174	4,608	4,483
Light duty (up to 14,000 GVW)	1,000	(NA)	1,964	3,261	3,700	3,786	3,885	4,273	4,171
Med. duty (14,001-26,000 GVW)	1,000	(NA)	92	61	53	51	55	83	73
Heavy duty (over 26,000 GVW)	1,000	126	176	216	231	214	234	251	239
<b>MOTORCYCLES</b>									
Motorcycle registrations, new	1,000	751	838	772	722	631	550	410	294
Motorcycle (new) retail sales	1,000	1,010	1,070	1,305	1,260	1,045	970	710	(NA)
All-terrain vehicles	1,000	(NA)	(NA)	550	550	465	405	290	(NA)
All-terrain vehicle imports	1,000	(NA)	(NA)	635	683	498	317	209	121
Motorcycle imports, total	1,000	1,091	1,120	441	733	550	318	287	(NA)
Value	Mil. dol.	308	1,142	523	783	763	463	512	(NA)
<b>FOREIGN TRADE</b>									
Passenger cars (new), exported	1,000	285	617	616	704	673	633	781	778
Passenger cars (new), imported	1,000	2,013	3,116	3,559	4,398	4,691	4,589	4,450	4,043
Canada	1,000	693	595	1,073	1,145	1,162	927	1,191	1,151
Germany, Federal Republic of	1,000	675	339	335	473	452	378	264	217
Japan	1,000	381	1,992	1,949	2,527	2,619	2,418	2,123	2,052
Trucks (new) exports	1,000	91	166	159	183	205	222	230	189
Trucks (new) imports	1,000	166	747	1,025	1,253	1,351	1,177	938	953
Japan	1,000	27	483	567	800	976	772	542	420
Import value, new passenger cars	Mil. dol.	3,719	16,675	29,264	36,474	45,302	47,858	47,005	44,417
Trucks and buses, new	Mil. dol.	381	1,985	6,541	7,734	8,504	8,729	8,089	8,591
Export value	Mil. dol.	3,871	16,015	20,776	22,820	21,955	24,812	29,519	31,574
Passenger cars (new)	Mil. dol.	822	3,932	4,876	6,027	6,258	6,695	8,318	8,895
Trucks and buses (new)	Mil. dol.	636	2,977	2,479	2,789	2,953	3,375	3,683	3,471
Parts and accessories	Mil. dol.	2,413	9,106	13,421	14,004	12,744	14,742	17,518	19,208
<b>VEHICLES IN USE AND RETIRED</b>									
Cars in use, total	Million	80.4	104.6	112.0	114.7	117.3	119.8	121.5	122.8
Under 3 years	Million	24.4	26.8	22.0	24.8	27.9	28.1	27.8	27.1
3-5 years	Million	24.9	25.5	26.8	23.9	22.7	24.7	27.7	30.5
6-8 years	Million	18.4	25.2	26.8	27.8	26.5	24.4	21.6	20.7
9-11 years	Million	7.7	14.6	17.4	17.2	18.7	21.4	22.4	21.1
12 years and over	Million	4.9	12.5	19.0	21.0	21.5	21.2	22	23.4
Average age	Years	5.6	6.6	7.5	7.6	7.6	7.6	7.6	7.6
Cars retired from use	1,000	7,461	8,405	6,675	7,729	8,442	8,103	8,754	8,981
Trucks in use, total	Million	17.7	35.2	40.1	42.4	44.8	47.3	50.2	53.2
Under 3 years	Million	4.7	8.8	7.2	9.0	11.1	11.9	12.5	12.5
3-5 years	Million	4.3	8.1	8.0	6.3	6.6	8.3	10.3	12.6
6-8 years	Million	3.0	7.4	9.2	10.2	8.9	7.4	5.9	6.3
9-11 years	Million	1.9	4.4	6.2	6.2	6.7	8.0	8.9	7.9
12 years and over	Million	3.9	6.5	9.6	10.7	11.5	11.8	12.6	14.0
Average age	Years	7.3	7.1	8.2	8.1	8.0	8.0	7.9	7.9
Trucks retired from use	1,000	837	1,732	1,602	2,100	2,309	2,364	2,251	2,189
<b>TIRES AND BATTERIES SHIPMENTS</b>									
Tires, passenger car, total	Million	168.6	145.9	201.6	200.9	202.7	210.8	218.8	216.9
Radials	Million	2.9	83.5	156.6	164.7	174.0	187.3	200.2	202.4
Replacement	Million	129.6	106.9	144.6	141.5	144.3	151.9	155.3	153.3
Tires, truck and bus, total	Million	25.7	31.1	40.8	41.1	40.6	44.4	46.0	47.2
Radials	Million	(NA)	3.8	16.0	19.7	21.1	26.0	29.4	30.8
Replacement	Million	16.7	24.4	31.7	32.1	32.4	34.5	33.9	35.4
Batteries, total	Million	46.9	61.7	74.7	74.4	75.7	75.7	80.1	80.3
Replacement automobile batteries	Million	37.9	50.1	59.3	58.7	60.3	59.9	63.5	64.4

NA Not available. <sup>1</sup> Based on data from U.S. Dept. of Commerce. <sup>2</sup> Includes domestic models produced in Canada and Mexico. <sup>3</sup> Source: Board of Governors of the Federal Reserve System, unpublished data. Represents total auto sales data from *Wards Automotive Reports*. Criteria by which each year's car models are grouped into the major size categories vary among those collecting data. Data shown here follow *Automotive News* classifications. Beginning 1987, data from *Wards Automotive Yearbooks*. Beginning 1990, cars produced in U.S. by foreign manufacturers are included. <sup>4</sup> Excludes domestic models produced in Canada. <sup>5</sup> Excludes motorcoaches and light-duty imports from foreign manufacturers. Beginning 1980, includes imports sold by franchised dealers of U.S. manufacturers. Starting in 1986, includes sales of trucks over 10,000 lbs. GVW by foreign manufacturers. <sup>6</sup> Gross vehicle weight (fully loaded vehicle). <sup>7</sup> Source: R. L. Polk & Company, Detroit, MI, *New Motorcycle Registrations by States*, 1970-1986 excludes Oklahoma; 1984, excludes New York. Reproduction prohibited without Polk permission. <sup>8</sup> Estimates by Motorcycle Industry Council Inc., Irvine, CA. Includes all-terrain vehicles and scooters. Excludes mopeds/motorized bicycles. <sup>9</sup> Source: Motorcycle Industry Council Inc., Irvine, CA. Data from U.S. Dept. of Commerce. Excludes mopeds/motorized bicycles and all-terrain vehicles. Excludes moped imports (motorcycle imports less than 51 cc's) from all countries (except Japan). <sup>10</sup> Dutiable value for customs purposes prior to 1980 thereafter, c.i.f. value. <sup>11</sup> 1970, covers assembled vehicles only. Beginning 1980, includes chassis. <sup>12</sup> Includes other countries, not shown separately. <sup>13</sup> Covers assembled and unassembled vehicles. <sup>14</sup> Includes rubber tires and tubes and used vehicles. <sup>15</sup> For years ending June 30. Represents vehicles failing to re-register. <sup>16</sup> Includes original equipment. Also includes exports, not shown separately. Source: The Rubber Manufacturers Association, Inc., Washington, D.C., *RMA Monthly Tire Report*. <sup>17</sup> Source: Battery Council International, Chicago, IL, and U.S. Bureau of the Census.

Source: Except as noted, Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *Motor Vehicle Facts and Figures*, annual; and *World Motor Vehicle Data*, annual.

**No. 1035. Motor—Vehicle Registrations, 1980 to 1989, Vehicle—Miles of Travel, 1988,  
and Drivers Licenses, 1989 by State**

[In thousands, except as indicated. Motor vehicle registrations cover publicly, privately, and commercially owned vehicles. For uniformity, figures have been adjusted to a calendar-year basis as registration years in States differ; figures represent net numbers where possible, excluding re-registrations and nonresident registrations]

STATE	AUTOMOBILES, TRUCKS, AND BUSES <sup>1</sup>					1988			Drivers licenses, 1989 est.	Motor- cycles <sup>1</sup> (incl. official) 1989, est.
	1980	1985	1988	1989, est.		Public road and street mileage (1,000 mi.)	Vehicle miles of travel			
				Total	Automobiles (incl. taxis)		Total (bil.mi.)	Per mile of road (1,000)		
U.S. ....	155,796	171,654	184,397	188,669	144,375	3,871.1	2,025.6	523	164,912	4,376
AL. ....	2,938	3,338	3,881	4,075	3,065	90.4	39.7	439	2,114	48
AK. ....	262	353	362	367	233	12.2	3.8	311	302	8
AZ. ....	1,917	2,235	2,705	2,785	1,993	70.3	34.2	486	2,401	81
AR. ....	1,574	1,384	1,427	1,436	835	77.1	19.2	249	1,695	14
CA. ....	16,873	18,899	21,337	21,657	16,799	162.6	241.6	1,486	19,303	628
CO. ....	2,342	2,759	2,923	2,932	2,132	77.1	27.7	359	2,244	102
CT. ....	2,147	2,465	2,652	2,695	2,535	19.8	26.1	1,318	2,391	54
DE. ....	397	465	512	529	407	5.4	6.4	1,185	475	9
DC. ....	268	326	264	268	252	1.1	3.4	3,091	394	2
FL. ....	7,614	9,865	10,984	11,378	9,014	104.6	105.3	1,007	8,992	184
GA. ....	3,818	4,580	5,196	5,385	3,802	107.4	62.3	580	4,466	75
HI. ....	570	651	705	719	626	4.1	7.4	1,805	642	17
ID. ....	834	854	940	953	609	60.7	8.1	133	718	43
IL. ....	7,477	7,727	7,865	8,081	6,579	135.5	78.5	579	7,335	245
IN. ....	3,826	4,024	4,169	4,265	3,115	91.6	51.1	558	3,794	104
IA. ....	2,329	2,696	2,568	2,613	1,848	112.5	21.9	195	1,915	179
KS. ....	2,007	2,148	2,210	2,237	1,543	133.0	21.2	159	1,733	74
KY. ....	2,593	2,615	2,795	2,841	1,887	69.8	31.6	453	2,398	33
LA. ....	2,779	3,012	2,938	2,984	1,986	58.4	34.7	594	2,606	34
ME. ....	724	840	941	988	770	22.0	11.4	518	879	39
MD. ....	2,803	3,276	2,468	3,539	2,908	28.2	37.5	1,330	3,203	60
MA. ....	3,749	3,738	3,818	3,791	3,292	33.8	43.3	1,281	4,334	58
MI. ....	6,488	6,727	7,141	7,293	5,637	117.9	77.9	661	6,401	200
MN. ....	3,091	3,385	3,210	3,267	2,553	129.6	36.4	281	2,489	117
MS. ....	1,577	1,746	1,787	1,811	1,377	72.2	22.0	305	1,845	25
MO. ....	3,271	3,558	3,794	3,873	2,753	119.9	45.6	380	3,550	60
MT. ....	680	652	723	733	438	71.5	8.1	113	536	26
NE. ....	1,254	1,257	1,328	1,340	886	92.5	13.4	145	1,104	27
NV. ....	655	709	808	835	589	44.8	9.0	201	766	19
NH. ....	704	974	928	976	774	14.7	9.5	646	811	39
NJ. ....	4,761	4,909	5,738	5,894	5,384	34.2	58.7	1,716	5,522	97
NM. ....	1,068	1,176	1,267	1,247	773	53.9	15.3	284	1,058	34
NY. ....	8,002	9,042	9,838	10,184	8,861	110.6	103.7	938	10,255	208
NC. ....	4,532	4,450	5,023	5,201	3,698	93.8	57.9	617	4,510	56
ND. ....	627	655	655	662	388	86.3	5.8	67	432	23
OH. ....	7,771	8,102	8,612	8,820	7,129	113.3	82.0	724	7,393	244
OK. ....	2,583	2,864	2,554	2,581	1,682	111.4	32.4	291	2,254	62
OR. ....	2,081	2,204	2,316	2,367	1,815	93.6	25.2	269	2,196	70
PA. ....	6,926	7,209	7,766	7,922	6,354	116.1	81.2	699	7,779	177
RI. ....	623	610	671	687	566	5.8	5.9	1,017	684	23
SC. ....	1,996	2,222	2,414	2,474	1,849	63.7	31.8	499	2,349	28
SD. ....	601	650	693	707	420	73.4	6.6	90	483	30
TN. ....	3,271	3,754	4,225	4,382	3,509	83.6	44.2	529	3,241	53
TX. ....	10,475	12,444	12,406	12,565	8,523	300.4	156.5	521	11,114	197
UT. ....	992	1,099	1,159	1,188	807	42.9	13.3	310	990	27
VT. ....	347	398	453	473	347	14.1	5.6	397	411	18
VA. ....	3,626	4,253	4,670	4,729	3,637	66.9	57.5	859	4,204	61
WA. ....	3,225	3,526	3,887	4,075	2,883	81.5	41.8	513	3,243	130
WV. ....	1,320	1,143	1,287	1,321	932	34.6	13.9	402	1,313	17
WI. ....	2,941	3,187	3,901	4,043	3,290	109.8	42.5	388	3,288	197
WY. ....	467	500	482	491	291	40.5	5.7	141	357	20

<sup>1</sup> Excludes vehicles owned by military services.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual; and *Selected Highway Statistics and Charts*, annual.

**No. 1036. Motor Vehicles—Registrations, Factory Sales, and Retail Sales: 1960 to 1989**

[Minus sign (-) indicates decrease. For definition of average annual percent change, see Guide to Tabular Presentation. See also *Historical Statistics, Colonial Times to 1970*, series Q 148-155]

YEAR	REGISTRATION <sup>1</sup> (mil.)			Motor-cycle registrations <sup>1</sup> (1,000)	FACTORY SALES (1,000)			RETAIL SALES (1,000)					
	Total cars, trucks, buses	Pas-senger cars <sup>2</sup>	Trucks and buses		Total cars, trucks, buses	Pas-senger cars	Trucks and buses <sup>3</sup>	Passenger cars			Trucks		
								Total	Do-mestic	Imports	Total	Do-mestic	Imports
1960	73.9	61.7	12.2	574	7,869	6,675	1,194	6,641	6,142	499	963	926	37
1965	90.4	75.3	15.1	1,382	11,057	9,306	1,752	9,332	8,763	569	1,553	1,539	14
1967	96.9	80.4	16.5	1,953	8,976	7,437	1,539	8,337	7,568	769	1,545	1,524	21
1968	100.9	83.6	17.3	2,089	10,718	8,822	1,896	9,656	8,625	1,031	1,831	1,807	24
1969	105.1	86.9	18.2	2,316	10,147	8,224	1,923	9,583	8,464	1,118	1,970	1,936	34
1970	108.4	89.2	19.2	2,824	8,239	6,547	1,692	8,405	7,119	1,285	1,811	1,746	65
1971	113.0	92.7	20.3	3,344	10,638	8,585	2,053	10,250	8,681	1,568	2,096	2,011	85
1972	118.8	97.1	21.7	3,760	11,271	8,824	2,447	10,950	9,327	1,623	2,629	2,486	143
1973	125.7	102.0	23.7	4,371	12,637	9,658	2,980	11,439	9,676	1,763	3,148	2,916	232
1974	129.9	104.8	25.1	4,966	10,059	7,331	2,727	8,867	7,454	1,413	2,688	2,512	176
1975	132.9	106.7	26.2	4,964	8,985	6,713	2,272	8,640	7,053	1,587	2,478	2,249	229
1976	138.5	110.2	28.4	4,933	11,480	8,500	2,979	10,110	8,611	1,498	3,181	2,944	237
1977	142.1	112.3	29.8	4,881	12,642	9,201	3,441	11,185	9,109	2,076	3,675	3,352	323
1978	148.4	116.6	31.8	4,868	12,871	9,165	3,706	11,312	9,312	2,000	4,109	3,773	336
1979	151.9	118.5	33.4	5,422	11,456	8,419	3,037	10,671	8,341	2,329	3,480	3,010	470
1980	155.8	121.6	34.2	5,694	8,067	6,400	1,667	8,979	6,581	2,398	2,487	2,001	486
1981	158.3	123.1	35.2	5,831	7,956	6,255	1,701	8,536	6,209	2,327	2,260	1,809	451
1982	159.6	123.7	35.9	5,754	6,855	5,049	1,906	7,982	5,759	2,223	2,560	2,146	414
1983	163.9	126.2	37.7	5,585	9,153	6,739	2,414	9,182	6,795	2,387	3,129	2,658	471
1984	166.2	128.1	38.1	5,480	10,696	7,621	3,075	10,391	7,952	2,439	4,093	3,475	618
1985	171.7	131.9	39.8	5,444	11,359	8,002	3,357	11,042	8,204	2,838	4,682	3,902	780
1986	176.2	135.4	40.8	5,262	10,909	7,516	3,393	11,480	8,215	3,245	4,863	3,921	942
1987	179.0	137.3	41.7	4,886	10,907	7,085	3,821	10,277	7,081	3,196	4,912	4,055	857
1988	184.4	141.3	43.1	4,584	11,225	7,105	4,121	10,626	7,526	3,100	5,149	4,508	641
1989	188.7	144.4	44.3	4,376	10,969	6,807	4,062	9,898	7,073	2,825	4,941	4,403	538

<sup>1</sup> Includes publicly owned vehicles. Excludes military services' vehicles. <sup>2</sup> Includes taxis. <sup>3</sup> Includes standard equipment. <sup>4</sup> Estimate.

Source: Registrations—U.S. Federal Highway Administration, *Selected Highway Statistics and Charts*, annual; sales—Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *MVMA Motor Vehicle Facts and Figures*, annual.

**No. 1037. Motor Vehicle Output and Trade in National Income Accounts: 1970 to 1989**

[In billions of dollars, except percent. Vehicle output equals final dollar sales value of new vehicles, plus net dollar value of used vehicle sales, adjusted for changes in inventories and net balance of vehicle exports and imports]

YEAR	CURRENT DOLLARS							CONSTANT (1982) DOLLARS						
	GNP <sup>1</sup>	Vehicle output				Vehicle		GNP <sup>1</sup>	Vehicle output				Vehicle	
		Total	Per-cent of GNP	Auto	Truck	Export	Import		Total	Per-cent of GNP	Auto	Truck	Export	Import
1970	1,016	36.8	3.6	28.5	8.3	1.4	4.4	2,416	73.2	3.0	53.1	20.1	3.0	11.8
1971	1,103	49.3	4.5	38.9	10.4	1.8	5.9	2,485	93.6	3.8	69.8	23.8	3.5	14.8
1972	1,213	55.0	4.5	41.4	13.6	2.0	6.8	2,809	104.2	4.0	73.9	30.3	4.0	16.0
1973	1,359	63.1	4.6	46.0	17.1	2.7	7.8	2,744	119.4	4.4	82.0	37.4	5.3	17.2
1974	1,473	57.7	3.9	38.8	18.9	3.7	8.8	2,729	103.7	3.8	65.4	38.3	6.7	17.5
1975	1,598	56.7	3.5	40.3	16.4	5.1	8.4	2,895	90.9	3.4	61.8	29.1	8.5	14.9
1976	1,783	78.3	4.4	55.2	23.1	5.4	11.0	2,827	118.0	4.2	80.1	37.9	8.3	18.2
1977	1,991	95.1	4.8	64.3	30.8	5.6	13.3	2,959	135.7	4.6	88.7	47.0	8.1	20.3
1978	2,250	105.1	4.7	68.3	36.8	6.5	17.4	3,115	138.6	4.4	87.3	51.3	8.7	23.7
1979	2,508	104.0	4.1	66.9	37.1	8.0	18.6	3,192	128.1	4.0	80.2	47.9	10.0	22.8
1980	2,732	84.4	3.1	60.1	24.3	7.1	20.9	3,187	95.2	3.0	67.1	28.1	8.1	23.5
1981	3,053	96.6	3.2	69.4	27.2	7.2	22.6	3,249	102.1	3.1	73.3	28.8	7.6	23.4
1982	3,166	94.3	3.0	66.5	27.8	5.4	25.5	3,166	94.3	3.0	66.5	27.8	5.4	25.5
1983	3,406	123.6	3.6	88.6	35.0	6.2	29.5	3,279	119.8	3.7	85.9	33.9	6.0	28.6
1984	3,772	156.3	4.1	105.1	51.2	7.3	38.9	3,501	146.2	4.2	98.5	47.7	6.9	36.7
1985	4,015	172.8	4.3	116.5	56.3	8.8	45.5	3,619	157.4	4.3	106.5	50.9	7.9	41.1
1986	4,232	176.1	4.2	120.6	55.5	9.3	55.4	3,718	154.2	4.1	106.4	47.8	8.0	46.3
1987	4,516	182.6	4.0	119.3	63.3	11.1	58.3	3,845	156.4	4.1	102.3	54.1	9.3	45.5
1988	4,874	197.0	4.0	127.6	69.4	12.9	57.1	4,017	168.3	4.2	109.9	58.4	10.7	43.4
1989	5,201	200.9	3.9	131.3	69.6	13.6	54.7	4,118	166.9	4.1	110.4	56.5	10.8	40.9

<sup>1</sup> For definition of gross national product (GNP), see text, section 14.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

**No. 1038. New Trucks—Retail Sales, by Weight Class and Type: 1980 to 1989**

WEIGHT CLASS AND TYPE	NUMBER (1,000)							PERCENT CHANGE			
	1980	1984	1985	1986	1987	1988	1989	1985-1986	1986-1987	1987-1988	1988-1989
<b>Total</b> .....	<b>2,232</b>	<b>3,538</b>	<b>3,984</b>	<b>4,031</b>	<b>4,174</b>	<b>4,608</b>	<b>4,483</b>	<b>1.2</b>	<b>3.5</b>	<b>10.4</b>	<b>-2.7</b>
<b>Under 6,000 pounds</b> .....	<b>985</b>	<b>2,031</b>	<b>2,408</b>	<b>2,541</b>	<b>2,696</b>	<b>2,928</b>	<b>2,854</b>	<b>5.5</b>	<b>6.1</b>	<b>8.5</b>	<b>-2.4</b>
Utility .....	51	370	429	387	403	445	447	-9.7	4.0	10.5	0.6
Pickup, car type .....	50	26	24	24	15	(2)	-	-1.5	-35.8	-96.9	-100.0
Pickup, conventional .....	545	632	644	582	586	593	600	-9.7	-2.8	4.8	1.2
Pickup, compact .....	254	613	696	757	861	901	840	8.9	13.7	4.7	-6.8
Domestic .....	26	560	625	679	795	848	811	8.5	17.2	6.7	-4.4
Import (U.S. manufactures) .....	229	53	70	79	66	53	29	11.9	-16.7	-18.8	-45.6
Van .....	79	121	115	112	89	47	43	-2.2	-20.5	-47.0	-8.5
Mini van (cargo) .....	(X)	24	103	110	101	105	97	6.6	-8.2	4.0	-7.8
Station wagon (truck chassis) .....	(X)	62	86	98	108	138	138	14.1	11.1	27.6	0.0
Mini passenger carrier .....	(X)	169	301	460	546	692	688	52.8	18.8	26.6	-0.5
<b>6,000 to 10,000 pounds</b> .....	<b>975</b>	<b>1,224</b>	<b>1,280</b>	<b>1,214</b>	<b>1,175</b>	<b>1,333</b>	<b>1,297</b>	<b>-5.2</b>	<b>-3.2</b>	<b>13.4</b>	<b>-2.7</b>
Utility .....	108	103	108	101	91	90	93	-6.4	-9.6	1.2	3.0
Van .....	172	265	261	261	254	302	289	0.1	-2.8	19.0	-4.2
Pickup, conventional .....	546	573	628	582	569	666	663	-7.3	-2.2	17.0	-0.4
Station wagon (truck chassis) .....	39	86	95	98	91	104	100	4.1	-7.5	14.3	-4.2
<b>10,001 pounds and over</b> .....	<b>271</b>	<b>283</b>	<b>295</b>	<b>276</b>	<b>302</b>	<b>349</b>	<b>331</b>	<b>-6.4</b>	<b>9.6</b>	<b>15.3</b>	<b>-5.0</b>

. Represents zero. X Not applicable. Z Less than 500. <sup>1</sup> Discontinued model. <sup>2</sup> Includes vehicles not shown separately.

Source: Motor Vehicle Manufacturers Association, *Motor Vehicle Facts and Figures*, annual.

**No. 1039. New Car Buyers—Characteristics, by Type of Vehicle Purchased: 1990**

[In percent, except as indicated. Based on Newsweek's survey of 33,780 buyers of 1990 new cars. Forty-three percent of new car buyers responded]

CHARACTERISTIC	All cars	Domestic	Asian	European	CHARACTERISTIC	All cars	Domestic	Asian	European
Household income: .....					25-54 years .....	59	54	70	70
Less than \$35,000 .....	31	34	27	7	55 years and over .....	33	38	20	27
\$35,000-\$49,999 .....	22	22	22	10	Median (years) .....	44.6	47.6	40.3	42.9
\$50,000-\$74,999 .....	22	22	23	20	Education: .....				
\$75,000 and over .....	24	22	28	63	High school or less .....	31	37	18	15
Mean (\$1,000) .....	62.6	59.5	65.5	116.4	Some college .....	27	27	28	19
Median (\$1,000) .....	48.1	46.2	50.9	96.0	College grad or more .....	39	34	51	65
Sex: Male .....	56	57	52	62	Occupation: .....				
Female .....	44	43	48	38	Prof./manager .....	64	61	68	84
Age: Under 25 years .....	8	7	10	3	Blue collar .....	15	18	11	5

Source: Newsweek, Inc., New York, NY, *1990 Buyers of New Cars*. (Copyright. All rights reserved. Reprinted by permission.)

**No. 1040. Recreational Vehicles—Number and Retail Value of Shipments: 1970 to 1989**

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
NUMBER (1,000)												
<b>Total</b> .....	<b>380.3</b>	<b>339.6</b>	<b>181.4</b>	<b>239.1</b>	<b>258.0</b>	<b>358.0</b>	<b>398.2</b>	<b>359.2</b>	<b>379.5</b>	<b>400.2</b>	<b>427.3</b>	<b>395.7</b>
Motorized homes .....	30.3	96.6	99.9	135.2	152.5	223.7	257.3	233.5	249.6	255.7	277.1	261.6
Travel trailers .....	138.0	150.6	52.0	63.8	65.5	90.0	92.4	82.9	86.0	92.8	96.9	90.3
Folding camping trailers .....	116.1	48.1	24.5	35.0	34.3	37.5	40.9	35.9	36.5	41.6	42.3	33.9
Truck campers .....	95.9	44.3	5.0	5.1	5.7	6.8	7.6	6.9	7.4	10.1	11.0	9.9
RETAIL VALUE (mil. dol.)												
<b>Total</b> .....	<b>1,122</b>	<b>2,320</b>	<b>1,952</b>	<b>2,775</b>	<b>3,505</b>	<b>6,324</b>	<b>7,610</b>	<b>7,029</b>	<b>7,564</b>	<b>8,400</b>	<b>9,188</b>	<b>9,027</b>
Motorized homes .....	318	1,251	1,381	2,019	2,701	5,099	6,282	5,724	6,155	6,826	7,543	7,420
Travel trailers .....	445	856	485	631	666	1,067	1,157	1,122	1,213	1,331	1,381	1,378
Folding camping trailers .....	175	101	69	105	110	122	145	137	144	167	175	147
Truck campers .....	183	112	17	20	28	36	46	46	53	76	88	81

Source: Recreation Vehicle Industry Association, Reston, VA, *RVs ... A Year-End Report/1989*. Data also in Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *Motor Vehicle Facts and Figures*, annual.

**No. 1041. Motorcycles—Travel, Registration, and Fuel Consumption: 1970 to 1988**

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
Vehicle-miles of travel .....	Million	2,979	5,629	10,214	10,690	9,910	8,780	8,784	9,086	9,397	9,506	10,022
Number of registered vehicles .....	1,000	2,824	4,964	5,694	5,831	5,754	5,585	5,480	5,444	5,199	4,917	4,584
Average travel per vehicle .....	Miles	1,055	1,134	1,794	1,833	1,722	1,568	1,603	1,669	1,807	1,933	2,186
Fuel consumption, total .....	Mil. gal	59.6	112.6	204.3	213.8	198.2	175.2	175.7	181.7	187.9	190.1	200.4
Average per vehicle .....	Gallon	21	23	36	37	34	31	32	33	36	39	44

Source: U.S. Federal Highway Administration, *Highway Statistics Summary to 1985 and Highway Statistics*, annual.

## No. 1042. Motor Vehicle Accidents—Number and Deaths: 1970 to 1989

[See also *Historical Statistics, Colonial Times to 1970*, series Q 208 and Q 224-232]

ITEM	Unit	1970	1972 <sup>1</sup>	1980	1984	1985	1986	1987	1988	1989
Motor vehicle accidents <sup>2</sup>	Million	16.0	17.0	17.9	18.8	19.3	17.7	20.8	20.6	12.8
Cars	Million	23.5	24.5	22.8	25.2	25.6	27.7	25.9	28.2	15.3
Trucks	Million	3.2	3.5	5.5	6.3	6.1	6.1	6.0	6.8	6.5
Motorcycles	1,000	305	343	560	570	480	440	380	370	211
Motor vehicle deaths within 1 yr. <sup>3</sup>	1,000	54.6	56.3	53.2	46.3	45.9	47.9	48.3	48.9	46.9
Noncollision accidents	1,000	15.4	15.8	14.7	12.7	12.6	13.1	5.2	5.2	4.9
Collision accidents:										
With other motor vehicles	1,000	23.2	23.9	23.0	20.0	19.9	20.8	20.7	20.3	19.9
With pedestrians	1,000	9.9	10.3	9.7	8.5	8.5	8.9	7.5	7.3	7.2
With fixed objects	1,000	3.8	3.9	3.7	3.2	3.2	3.3	13.2	14.0	13.1
Deaths within 30 days <sup>4</sup>	1,000	52.6	54.6	51.1	44.3	43.8	46.1	46.4	47.1	45.6
Vehicle occupants	1,000	40.6	41.4	36.8	31.9	31.5	33.7	34.5	35.5	34.9
Pedestrians	1,000	9.0	9.2	8.1	7.0	6.8	6.8	6.7	6.9	6.6
Motorcyclists <sup>5</sup>	1,000	2.3	3.0	5.1	4.6	4.6	4.6	4.0	3.7	3.1
Bicyclists	1,000	0.8	1.0	1.0	0.8	0.9	0.9	0.9	0.9	0.8
Traffic death rates: <sup>4,6</sup>										
Per 100,000 resident population	Rate	25.8	26.2	22.6	18.7	18.4	19.1	19.1	19.2	18.4
Per 100,000 registered vehicles	Rate	47.3	44.5	31.6	25.7	24.8	25.4	25.2	24.9	23.6
Per 100 million vehicle miles	Rate	4.7	4.3	3.3	2.6	2.5	2.5	2.4	2.3	2.2
Per 100,000 licensed drivers	Rate	47.2	46.1	35.2	28.5	27.9	28.9	28.7	28.9	27.6
* Motor vehicle accidents	1,000	22.1	24.9	24.1	30.9	32.5	33.3	33.9	34.2	34.4
Injuries	1,000	4,983	5,190	5,230	4,850	5,044	5,300	5,400	5,500	5,560
Economic loss <sup>7,8</sup>	Bil. dol.	23.5	28.7	57.1	69.0	76.0	80.0	85.0	89.0	93.9

NA Not available. <sup>1</sup> Represents peak year for deaths from motor vehicle accidents. <sup>2</sup> Covers only accidents occurring on the road. <sup>3</sup> Deaths that occur within one year of accident. Includes collision categories not shown separately. <sup>4</sup> Within 30 days of accident. Source: U.S. National Highway Traffic Safety Administration, unpublished data from Fatal Accident Reporting System. <sup>5</sup> Includes motor scooters and motorized bicycles (mopeds). <sup>6</sup> Based on 30-day definition of traffic deaths. <sup>7</sup> Source: Insurance Information Institute, New York, NY, *Insurance Facts*. Estimates based on official reports from a representative cross-section of States. Includes all motor vehicle accidents on and off the road and all injuries regardless of length of disability. 1986 data for economic loss based on information from the National Center for Health Statistics, National Health Survey. <sup>8</sup> Wage loss; legal, medical, hospital, and funeral expenses; insurance administrative costs; and property damage.

Source: Except as noted, National Safety Council, Chicago, IL, *Accident Facts*, annual. (Copyright.)

## No. 1043. Motor Vehicle Deaths by State: 1985 to 1989

[Includes both traffic and nontraffic motor-vehicle deaths. See source for definitions]

STATE	1985	1987	1988	1989	MILEAGE RATE <sup>1</sup>		STATE	1985	1987	1988	1989	MILEAGE RATE <sup>1</sup>	
					1985	1989						1985	1989
U.S.	45,901	48,290	48,900	46,900	2.6	2.3	MO	1,005	1,117	1,103	1,052	2.6	2.3
AL	1,005	1,194	1,023	1,025	2.9	2.4	MT	233	244	198	181	3.1	2.2
AK	124	85	97	84	3.2	2.3	NE	259	310	261	296	2.1	2.2
AZ	942	1,006	944	884	4.4	2.6	NV	297	318	286	307	3.9	3.3
AR	580	669	610	648	3.4	3.3	NH	198	178	168	190	2.6	2.0
CA	5,294	5,745	5,381	5,105	2.6	2.1	NJ	986	1,040	1,051	890	1.9	1.5
CO	628	634	497	522	2.4	1.9	NM	561	591	487	538	4.2	3.5
CT	449	448	486	406	2.0	1.6	NY	2,121	2,430	2,237	2,239	2.3	2.1
DE	119	152	165	118	2.2	1.8	NC	1,553	1,668	1,587	1,464	3.1	2.5
DC	96	115	63	75	3.0	2.2	ND	117	114	104	81	2.2	1.4
FL	2,968	2,957	3,090	3,016	3.4	2.8	OH	1,581	1,757	1,748	1,700	2.1	2.1
GA	1,462	1,696	1,660	1,632	2.7	2.5	OK	781	622	641	655	2.5	2.0
HI	134	144	149	147	2.0	1.9	OR	605	663	677	630	2.8	2.5
ID	288	274	257	238	3.5	2.8	PA	1,817	2,078	1,932	1,877	2.4	2.3
IL	1,594	1,696	1,862	1,748	2.3	2.2	RI	124	142	125	100	2.1	1.7
IN	1,045	1,131	1,104	973	2.6	1.9	SC	943	1,076	1,033	996	3.5	3.2
IA	478	503	556	511	2.4	2.3	SD	142	150	147	151	2.3	2.3
KS	500	512	483	426	2.6	2.1	TN	1,219	1,408	1,266	1,081	3.4	2.3
KY	749	864	840	782	2.6	2.4	TX	3,825	3,338	3,395	3,361	2.7	2.2
LA	1,011	871	923	857	3.0	2.4	UT	335	320	297	303	2.8	2.4
ME	224	240	256	190	2.4	1.7	VT	117	125	128	116	2.5	2.1
MD	766	831	794	750	2.3	2.0	VA	1,021	1,068	1,069	999	2.1	1.7
MA	761	723	726	700	1.9	1.7	WA	786	840	785	781	2.3	1.8
MI	1,605	1,660	1,704	1,633	2.4	2.1	WV	461	504	460	468	3.6	3.3
MN	857	575	615	605	2.0	1.6	WI	777	823	813	817	2.1	1.9
MS	691	802	720	728	3.6	3.3	WY	145	136	155	127	2.7	2.3

<sup>1</sup> Deaths per 100 million vehicle miles.

Source: National Safety Council, Chicago, IL, *Accident Facts*, 1990. (Copyright.)



## No. 1044. Fatal Motor-Vehicle Accidents, by Type of Vehicle: 1980 to 1988

[Based on data from the Fatal Accident Reporting System]

TYPE OF VEHICLE	ACCIDENTS <sup>1</sup>						OCCUPANT FATALITIES					
	1980	1984	1985	1986	1987	1988	1980	1984	1985	1986	1987	1988
<b>Total <sup>2</sup></b>	<b>45,284</b>	<b>38,831</b>	<b>39,195</b>	<b>41,090</b>	<b>41,438</b>	<b>42,130</b>	<b>41,927</b>	<b>36,284</b>	<b>36,043</b>	<b>38,229</b>	<b>38,565</b>	<b>39,170</b>
Passenger cars <sup>3</sup>	31,550	27,745	27,142	28,752	28,945	29,534	27,449	23,621	23,214	24,947	25,132	25,808
Mini-compact	3,263	4,001	3,973	4,346	4,508	4,445	2,986	3,470	3,429	3,647	3,753	3,794
Subcompact	4,875	5,275	5,445	6,006	6,431	6,137	4,158	4,346	4,422	4,770	5,007	4,945
Compact	1,118	2,670	3,445	4,374	5,422	6,122	927	2,081	2,635	3,312	3,943	4,764
Intermediate	5,224	5,976	6,084	6,555	7,166	6,941	3,878	4,287	4,391	4,763	4,917	5,016
Full size	7,026	5,199	4,906	5,094	4,858	4,490	4,831	3,269	2,974	3,191	2,937	2,840
Largest size	10,817	7,334	6,452	6,339	5,934	5,095	6,746	4,160	3,612	3,662	3,160	2,904
Unknown	5,134	2,905	2,699	2,053	2,261	2,378	3,943	2,008	1,751	1,602	1,415	1,515
Motorcycles	4,879	4,378	4,342	4,209	3,781	3,480	4,961	4,431	4,417	4,309	3,834	3,492
Moped, mini bike	180	172	151	250	201	164	183	177	147	257	202	170
Light trucks <sup>2</sup>	10,841	10,255	10,470	11,179	12,004	12,626	6,566	5,773	5,834	6,390	7,008	7,266
Pickup	8,796	8,285	8,375	8,526	8,904	9,629	5,463	4,873	4,886	5,090	5,502	5,880
Van	2,009	1,737	1,807	1,952	2,253	2,378	1,000	764	791	879	1,025	1,001
Medium trucks	1,076	680	654	661	707	683	285	153	157	145	125	125
Heavy trucks	4,036	4,185	4,217	4,152	4,253	4,253	976	920	814	781	724	786
Single-unit <sup>4</sup>	377	271	370	305	396	406	89	83	48	42	57	68
Two-unit <sup>5</sup>	3,396	3,359	3,411	3,351	3,126	3,256	812	758	692	689	625	607
Multi-unit	148	188	182	179	216	253	41	37	31	50	42	43
Buses	329	302	304	282	353	284	46	45	55	39	51	54

<sup>1</sup> Each accident involving multiple types of vehicles is recorded in each category; therefore, the aggregate of all types will exceed the total number of accidents. <sup>2</sup> Includes other types and unknown, not shown separately. <sup>3</sup> Mini-compact wheel base less than 95 in.; subcompact, 95 in. to 99 in.; compact, 100 in. to 104 in.; intermediate, 105 in. to 109 in.; full size, 110-114 in.; and largest size greater than 115 in. <sup>4</sup> Gross vehicle weight greater than 26,000 lbs. <sup>5</sup> Tractor-trailer combination.

Source: U.S. National Highway Traffic Safety Administration, *Fatal Accident Reporting System*, annual.

## No. 1045. Highway Mileage, Vehicle Miles of Travel, Accidents, and Fatalities, 1975 to 1988, and by Type of Highway System, 1988

YEAR AND TYPE OF SYSTEM	Highway mileage (1,000)	Vehicle miles of travel (bil.)	Daily vehicle miles per mile	FATAL ACCIDENTS		NONFATAL INJURY ACCIDENTS		FATALITIES <sup>2</sup>	
				Number	Rate <sup>1</sup>	Number (1,000)	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
1975, total	3,838	1,328	948	39,993	3.01	1,861	140	45,500	3.43
1980, total	3,857	1,527	1,082	45,284	2.96	2,008	131	51,091	3.35
1984, total	3,892	1,720	1,208	39,631	2.30	2,137	124	44,257	2.57
1985, total	3,862	1,774	1,259	39,188	2.21	2,219	125	43,795	2.47
1986, total	3,880	1,838	1,298	41,062	2.23	2,254	123	46,056	2.51
1987, total	3,874	1,924	1,361	41,434	2.15	2,294	119	46,385	2.41
<b>1988, total</b>	<b>3,871</b>	<b>2,026</b>	<b>1,430</b>	<b>42,119</b>	<b>2.08</b>	<b>2,302</b>	<b>114</b>	<b>47,093</b>	<b>2.32</b>
Urban	739	1,208	4,463	17,843	1.48	1,593	132	19,400	1.61
Rural	3,132	818	713	24,276	2.97	710	87	27,693	3.39
Interstate	45	440	26,934	4,506	1.02	162	37	5,127	1.17
Urban	11	259	62,399	2,113	0.82	117	45	2,301	0.89
Rural	33	181	14,873	2,393	1.32	45	25	2,826	1.56
Noninterstate	3,827	1,586	1,132	37,613	2.37	2,140	135	41,966	2.65
Urban	728	949	3,562	15,730	1.66	1,476	155	17,099	1.80
Rural	3,098	636	561	21,883	3.44	664	104	24,867	3.91
Federal-aid highway system	851	1,641	5,269	31,731	1.93	1,529	93	35,624	2.17
Urban	192	975	13,903	14,143	1.45	1,103	113	15,279	1.57
Rural	659	665	2,757	17,558	2.64	427	64	20,345	3.06
Interstate	45	440	26,934	4,506	1.02	162	37	5,127	1.17
Other primary arterial	259	581	6,123	13,125	2.26	506	87	15,000	2.58
Urban	33	272	22,302	3,959	1.45	292	107	4,252	1.56
Rural	226	308	3,733	9,166	2.97	214	69	10,748	3.48
Urban (arterial and collector)	147	445	8,263	8,071	1.82	694	156	8,726	1.96
Secondary (collector)	400	175	1,198	6,029	3.44	167	95	6,771	3.86
Non-Federal-aid highway system	3,020	385	348	10,388	2.70	773	201	11,469	2.96
Urban	548	233	1,160	3,700	1.59	490	211	4,121	1.77
Rural	2,473	152	168	6,688	4.39	283	186	7,348	4.82
Collector	353	80	618	2,281	2.86	91	114	2,527	3.17
Urban	22	25	3,023	289	1.17	19	77	313	1.27
Rural	330	55	456	1,992	3.62	72	130	2,214	4.02
Local	2,657	276	284	7,590	2.75	649	235	8,348	3.03
Urban	517	182	962	3,157	1.73	451	248	3,509	1.93
Rural	2,140	94	120	4,433	4.73	198	212	4,839	5.16

<sup>1</sup> Rate per 100 million vehicle miles of travel. <sup>2</sup> Represents fatalities occurring within 30 days of accident. Excludes nontraffic accidents which, for example, occur outside the rights-of-way or other boundaries of roads that are open for public use.

Source: U.S. Federal Highway Administration, *Fatal and Injury Accident Rates on Public Roads in the United States*, annual.

### No. 1046. Motor Vehicle Safety Defect Recalls, by Domestic and Foreign Manufacturers: 1980 to 1989

[Covers manufacturers reporting to U.S. National Highway Traffic Administration under section 151 of National Traffic and Motor Vehicle Safety Act of 1966, as amended]

MANUFACTURER	Unit	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Motor vehicles:											
Total recall campaigns <sup>1</sup>	Number	167	156	135	140	164	173	174	199	197	237
Domestic	Number	129	128	107	110	127	137	139	150	152	182
Foreign	Number	38	28	28	30	37	36	35	49	45	55
Total vehicles recalled	1,000	4,863	9,405	1,914	6,114	7,220	5,629	2,880	9,091	4,486	7,033
Domestic	1,000	3,939	7,379	1,401	3,090	6,283	4,995	1,731	7,297	3,171	6,070
Vehicles recalled by 4 leading auto manufacturers	1,000	3,730	7,247	1,324	3,021	6,148	4,811	1,382	6,945	<sup>2</sup> 2,900	5,842
Foreign	1,000	924	2,026	513	3,024	937	634	1,149	1,793	1,315	963
Motor vehicle tires:											
Recall campaigns <sup>1</sup>	Number	24	25	17	21	16	19	14	16	12	11
Tires recalled	1,000	7,070	125	131	95	81	28	164	43	214	115

<sup>1</sup> A recall campaign is the notification to the Secretary of the U.S. Dept. of Transportation and to owners, purchasers, and dealers, of a motor vehicle safety defect. <sup>2</sup> Three leading automobile manufacturers.

Source: U.S. National Highway Traffic Safety Administration, *Motor Vehicles Defect Recall Campaigns*, annual.

### No. 1047. Licensed Drivers and Estimated Arrests for Driving Under the Influence, by Age: 1975 and 1986

[Total drivers and arrests in thousands. Represents licensed drivers and arrests for those 16 years old and over]

AGE	1975			1986			Percent change in rate, 1975-86
	Drivers	Arrests	Arrests per 100,000 drivers	Drivers	Arrests	Arrests per 100,000 drivers	
Total	129,671	946	729	158,494	1,792	1,130	55
Percent distribution	100.0	100.0	(X)	100.0	100.0	(X)	(X)
16-17 years old	3.7	1.8	352	2.6	1.5	647	84
18-24 years old	18.9	25.3	979	15.7	28.8	2,075	112
25-29 years old	12.9	15.0	847	13.0	22.0	1,909	125
30-34 years old	10.3	12.2	867	12.2	15.8	1,471	70
35-39 years old	8.5	10.6	909	10.9	11.1	1,158	27
40-44 years old	7.9	9.8	904	8.5	7.2	968	7
45-49 years old	8.0	8.9	812	6.9	4.9	805	-1
50-54 years old	7.9	7.3	675	6.3	3.4	609	-10
55-59 years old	6.8	4.6	490	6.3	2.4	434	-11
60-64 years old	5.7	2.7	347	5.9	1.6	299	-14
65 years old and over	9.5	1.8	141	11.9	1.2	118	-16

X Not applicable.

Source: U.S. Bureau of Justice Statistics, *Drunk Driving, Special Report*.

### No. 1048. Licensed Drivers, Fatal Motor-Vehicle Accidents, and Alcohol Involvement, by Age of Driver: 1989

ITEM	Unit	Total	AGE OF DRIVER							
			16-17 years	18-21 years	22-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65 years and over
Licensed drivers (estimated) <sup>1</sup>	1,000	164,912	4,146	12,248	10,859	41,089	34,126	22,477	18,897	21,070
Percent distribution	Percent	100.0	2.5	7.4	6.6	24.9	20.7	13.6	11.5	12.8
Licensed drivers involved in fatal accidents	Number	60,398	2,900	8,537	5,709	15,919	10,100	6,031	4,200	5,426
Percent distribution	Percent	100.0	4.8	14.1	9.5	26.4	16.7	10.0	7.0	9.0
Drinking drivers involved in fatal accidents	Number	19,256	568	3,210	2,567	6,400	3,161	1,442	762	548
Percent distribution	Percent	100.0	2.9	16.7	13.3	33.2	16.4	7.5	4.0	2.8

<sup>1</sup> Source: U.S. Federal Highway Administration, *Selected Highway Statistics and Charts*, annual.

Source: Except as noted, U.S. National Highway Traffic Safety Administration, unpublished data from the Fatal Accident Reporting System.

**No. 1049. Seat Belt Usage—Young Child Survivors and Fatalities: 1985 to 1989**

[Estimates derived from the Fatal Accident Reporting System (FARS). Based on 7,060 vehicles reported to FARS that had seat, lap, and shoulder belts (model years 1974 and later); had a driver for whom restraint use was reported; and had a young child passenger (under 5 years old) for whom restraint use and type was reported]

AGE AND YEAR	SURVIVORS OF FATAL ACCIDENTS							FATALITIES			
	Estimated use				Percent use			Estimated use			
	Total	Child seat	Adult belt	None used	Total	Child seat	Adult belt	Total	Child seat	Adult belt	None used
Under 1: 1985	240	135	8	97	59.6	56.3	3.3	130	34	2	94
1988	350	229	7	114	67.4	65.5	1.9	186	67	3	116
1989	327	217	7	104	88.3	86.3	2.0	185	55	3	127
1 year old: 1985	339	171	12	156	54.0	50.4	3.5	93	24	4	65
1988	403	216	34	153	62.2	53.7	8.5	119	30	7	82
1989	466	264	37	165	64.6	56.7	7.9	131	37	2	91
2 years old: 1985	420	101	45	274	34.8	24.0	10.7	129	26	15	88
1988	489	176	73	240	50.8	36.0	14.8	132	22	19	91
1989	485	144	74	267	45.1	29.8	15.3	145	21	17	107
3 years old: 1985	414	79	66	269	35.0	19.1	15.9	104	11	1	92
1988	509	89	125	295	42.2	17.6	24.6	138	12	17	108
1989	502	76	149	277	44.8	15.1	29.7	130	17	23	90
4 years old: 1985	374	42	64	268	28.3	11.2	17.1	98	6	10	82
1988	437	44	148	247	43.5	10.1	33.4	117	4	21	92
1989	513	32	165	316	38.5	6.3	32.2	131	9	28	94

Source: U.S. National Highway Traffic Safety Administration, *Lives Saved by Child Restraints from 1982 through December 1988; and unpublished data from the Fatal Accident Reporting.*

**No. 1050. Cost of Owning and Operating an Automobile: 1975 to 1989**

ITEM	Unit	1975	1980	1984	1985	1986	1987	1988	1989
Cost per mile <sup>1</sup>	Cents	18.31	27.95	31.32	27.20	29.59	32.64	33.40	38.20
Cost per 10,000 miles	Dollars	1,831	2,795	3,132	2,720	2,959	3,264	3,341	3,820
Variable cost	Cents/mile	6.45	7.62	7.86	8.04	6.52	7.20	7.60	7.90
Gas and oil	Cents/mile	4.82	5.86	6.19	6.16	4.48	4.80	5.20	5.20
Maintenance	Cents/mile	0.97	1.12	1.04	1.23	1.37	1.60	1.60	1.90
Tires	Cents/mile	0.66	0.64	0.63	0.65	0.67	0.80	0.80	0.80
Fixed cost	Dollars	1,186	2,033	2,346	2,441	2,596	2,782	3,061	3,534
Insurance	Dollars	383	490	505	503	509	535	573	663
License and registration	Dollars	30	82	106	115	130	140	139	151
Depreciation	Dollars	773	1,038	1,207	1,253	1,320	1,506	1,784	2,094
Finance charge	Dollars	(NA)	423	528	570	637	601	565	626

NA Not available. <sup>1</sup> Beginning 1985, not comparable to previous data.

Source: Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *Motor Vehicle Facts and Figures*, annual.

**No. 1051. New Car Prices and Consumer Expenditures per New Car: 1970 to 1989**

[In dollars, except as indicated]

YEAR	CONSUMER EXPENDITURE PER NEW CAR <sup>1</sup>			ESTIMATED AVG. NEW CAR PRICE FOR A 1967 "COMPARABLE CAR" <sup>2</sup>		WEEKS OF MEDIAN FAMILY INCOME TO EQUAL		
	Domestic	Import	Average	With added safety and emissions equipment <sup>3</sup>	Without added safety and emissions equipment <sup>4</sup>	Average new car expend. <sup>4</sup>	Cost of comparable car	
							With added safety and emissions equipment <sup>5</sup>	Without added safety and emissions equipment <sup>6</sup>
1970	3,708	2,648	3,542	3,601	3,459	18.7	19.0	18.2
1975	5,084	4,384	4,950	4,866	4,103	18.8	17.8	15.6
1980	7,608	7,482	7,574	6,863	5,764	18.7	17.0	14.3
1985	11,733	12,875	12,022	8,964	6,958	23.0	17.2	13.3
1988	14,019	15,620	14,485	9,995	7,668	24.3	16.8	12.9
1989	14,939	16,563	15,403	10,248	7,825	24.7	16.4	12.5

<sup>1</sup> Average transaction price per new car. <sup>2</sup> 1967 "average consumer expenditures per new car" plus the value of added safety and emissions equipment, all inflated to current dollars. <sup>3</sup> 1967 average consumer expenditure per new car inflated to current dollars. <sup>4</sup> Average consumer expenditures divided by annual median family income multiplied by 52 weeks. <sup>5</sup> Estimated average new car price of comparable cars with new safety equipment added, divided by annual median family income, multiplied by 52 weeks. This index is a good reflection of price as seen by the car purchasers who would not otherwise buy safety/emissions equipment. <sup>6</sup> Estimated average new car price of comparable cars without new safety and emissions equipment divided by annual median family income, multiplied by 52 weeks. This index is a good reflection of price as seen by purchasers who place full value on new safety/emissions equipment.

Source: Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *Motor Vehicle Facts and Figures*, annual.

**No. 1052. Domestic Motor Fuel Consumption, by Type of Vehicle: 1970 to 1988**

[Comprises all fuel types used for propulsion of vehicles under State motor fuels laws. Excludes Federal purchases for military use. Minus sign (-) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series Q 156-162]

YEAR	FUEL CONSUMPTION					AVG. FUEL CONSUMPTION PER VEHICLE (gal.)			AVG. MILES PER GALLON		
	All vehicles (bil. gal.)	Avg. annual percent change	Cars <sup>2</sup> (bil. gal.)	Buses <sup>3</sup> (bil. gal.)	Trucks <sup>4</sup> (bil. gal.)	Cars <sup>2</sup>	Buses <sup>3</sup>	Trucks <sup>4</sup>	Cars <sup>2</sup>	Buses <sup>3</sup>	Trucks <sup>4</sup>
1970	92.3	5.4	67.8	0.8	23.6	760	2,172	1,257	13.52	5.54	7.85
1975	109.0	2.5	76.4	1.1	31.4	716	2,279	1,217	13.52	5.75	8.99
1980	115.0	-5.9	71.9	1.0	41.9	591	1,926	1,243	15.46	5.95	9.54
1981	114.5	-0.4	71.0	1.1	42.2	576	1,938	1,219	15.94	5.92	9.59
1982	113.4	-0.9	70.1	1.0	42.1	566	1,756	1,191	16.65	5.93	9.80
1983	116.1	2.4	69.9	0.9	45.1	553	1,507	1,229	17.14	5.92	9.77
1984	118.7	2.3	68.7	0.8	49.0	538	1,359	1,308	17.83	5.85	9.83
1985	121.3	2.2	69.3	0.8	51.0	525	1,407	1,302	18.20	5.84	9.79
1986	125.2	3.2	71.4	0.9	52.9	528	1,463	1,320	18.27	5.84	9.81
1987	127.5	1.8	70.6	0.9	55.8	514	1,500	1,357	19.20	5.89	9.87
1988	129.9	1.9	71.7	0.9	57.1	507	1,494	1,343	19.95	5.94	10.17

<sup>1</sup> From prior year, except 1970, change from 1965. <sup>2</sup> Includes taxicabs. <sup>3</sup> Includes school buses. <sup>4</sup> Includes combinations.

Source: U.S. Federal Highway Administration, *Highway Statistics Summary to 1985*, and *Highway Statistics*, annual.

**No. 1053. Household Motor Vehicle Transportation, by Vehicle Model Year: 1989**

[Preliminary. Household vehicles include all motorized vehicles used for personal transportation, excluding motorcycles, mopeds, large trucks, and buses. The reporting unit for 1988 is all households which owned a vehicle at any time during 1988. Based on the Residential Transportation Energy Consumption Survey; subject to sampling variability. For composition of regions, see fig. 1, inside front cover]

HOUSEHOLD CHARACTERISTICS	Households with motor vehicles (mil.)	VEHICLES (millions)					MILES PER GALLON				
		Total	Model year				Average	Model year			
			1974 and earlier	1975 to 1980	1981 to 1985	1986 to 1989		1976 and earlier	1981 or 1982	1986	1988 or 1989
Total	81.3	147.5	13	29	35	23	18.3	12.3	20.7	21.9	22.1
Northeast	15.2	26.6	8	24	40	28	19.6	12.2	21.8	22.3	21.5
Midwest	20.4	37.8	11	32	35	22	18.2	12.2	20.7	21.5	23.0
South	28.3	50.6	12	29	34	24	18.0	12.0	19.7	21.8	21.9
West	17.3	32.5	21	29	30	20	18.0	12.7	21.5	22.3	22.3

Source: U.S. Energy Information Administration, *Household Vehicles Energy Consumption, 1988*

**No. 1054. Household Vehicles—Annual Mileage, Fuel Consumption, and Fuel Expenditures: 1988**

[See headnote, table 1053]

HOUSEHOLD AND VEHICLE CHARACTERISTICS	NUMBER OF—			MILES DRIVEN		GALLONS CONSUMED		FUEL EXPENDITURES	
	Households <sup>1</sup> (millions)	Vehicles (millions)	Vehicles per household	Total (billion)	Percent	Total (billion)	Percent	Total (bil. dol.)	Percent
Total	81.3	147.5	1.8	1,511	100.0	82.4	100.0	81.1	100.0
Metropolitan status:									
Metropolitan	63.0	113.9	1.8	1,171	77.5	62.6	76.0	61.9	76.3
Nonmetropolitan	18.3	33.6	1.8	341	22.5	19.8	24.0	19.2	23.7
Origin of householder: White	71.5	132.2	1.8	1,346	89.0	73.5	89.2	72.3	89.1
Black	7.2	10.6	1.5	115	7.6	6.2	7.5	6.2	7.6
Other	2.6	4.7	1.8	51	3.4	2.8	3.3	2.7	3.3
Family income 1988:									
Less than \$10,000	10.2	13.3	1.3	111	7.4	6.6	8.0	6.4	7.9
\$10,000-\$14,999	11.8	17.0	1.4	153	10.2	9.0	10.9	8.8	10.8
\$15,000-\$19,999	8.3	13.3	1.6	132	8.7	7.3	8.9	7.2	8.9
\$20,000-\$24,999	8.6	15.1	1.7	154	10.2	8.5	10.3	8.3	10.3
\$25,000-\$34,999	16.0	29.2	1.8	297	19.7	16.4	19.9	16.1	19.9
\$35,000-\$49,999	12.9	28.3	2.2	313	20.7	16.5	20.0	16.3	20.1
\$50,000-\$74,999	8.8	20.5	2.3	226	15.0	11.8	14.3	11.6	14.3
\$75,000 or more	4.5	10.8	2.4	124	8.2	6.3	7.7	6.3	7.8

<sup>1</sup> Includes only households with vehicles.

Source: U.S. Energy Information Administration, *Household Vehicles Energy Consumption 1988*.

**No. 1055. Motor Vehicle Travel, by Type of Vehicle, and by Speed: 1970 to 1988**

[Travel in billions of vehicle-miles, except as indicated. Travel estimates based on automatic traffic recorder data. Speed trend data for 1970-1975 were collected by several State highway agencies, normally during summer months; beginning Oct. 1975 all States have monitored speeds at locations on several highway systems as part of 55 mile per hour Speed Limit Monitoring Program. See also *Historical Statistics, Colonial Times to 1970, series Q 199-207*]

YEAR	VEHICLE-MILES OF TRAVEL (bil.)				AVG. MILES PER VEHICLE (1,000)			MOTOR VEHICLE SPEED <sup>2</sup>				
	Total	Cars <sup>1</sup>	Buses	Trucks	Passenger vehicles		Trucks	Vehicles recorded (1,000) <sup>3</sup>	Avg. speed (miles per hour)	Percent of vehicles exceeding—		
					Cars <sup>1</sup>	Buses				55 mph	60 mph	65 mph
1970	1,110	920	4.5	186	10	12	9.9	200	63.8	87	69	44
1975	1,328	1,040	6.1	282	9.3	13.1	10.9	102	57.6	68	27	7
1980	1,527	1,122	6.1	399	8.8	11.5	11.9	667	57.5	66	25	7
1981	1,553	1,142	6.2	405	8.9	11.5	11.7	3,048	57.9	68	30	9
1982	1,595	1,176	5.8	413	9.1	10.4	11.7	4,895	59.0	73	40	14
1983	1,653	1,207	5.2	441	9.1	8.9	12	7,856	59.1	74	41	15
1984	1,720	1,234	4.6	482	9.2	8	12.8	8,067	59.3	75	43	16
1985	1,774	1,270	4.9	500	9.2	8.2	12.7	8,449	59.5	75	44	17
1986	1,834	1,311	5.1	519	9.3	8.5	13	8,549	59.7	76	46	18
1987	1,921	1,365	5.3	551	9.9	8.8	13.4	7,992	59.7	74	46	19
1988	2,025	1,439	5.5	581	10.1	8.9	13.6	7,566	59.5	74	46	19

<sup>1</sup> Includes motorcycles. <sup>2</sup> Represents speed on rural interstate highways. Beginning 1980, for year ending Sept. 30.

<sup>3</sup> Citations issued for 55 mph violations.

Source: U.S. Federal Highway Administration, *Highway Statistics Summary to 1985*, and *Highway Statistics*, annual.

**No. 1056. Passenger Transit Industry—Summary: 1980 to 1989**

[Includes Puerto Rico. Includes aggregate information for all transit systems in the United States. Except as noted, prior-to-1984 data exclude commuter railroad, automated guideway, urban ferry boat, and demand response, as well as most transit systems outside of urbanized areas. Data are noncontinuous between 1983 and 1984. Non-transit services such as taxicab, school bus, unregulated jitney, sightseeing bus, intercity bus, and special application mass transportation systems (e.g., amusement parks, airports, island, and urban park ferries) are excluded. Beginning in 1984, only active vehicles are counted]

ITEM	Unit	1980	1982	1983	1984	1985	1986	1987	1988, prel	1989, prel
Operating systems	Number	1,044	1,036	1,036	4,938	4,972	5,018	5,047	5,036	5,046
Motorbus systems	Number	1,040	1,031	1,031	2,604	2,631	2,655	2,671	(NA)	(NA)
Publicly owned systems	Number	576	581	599	(NA)	1,435	(NA)	(NA)	(NA)	(NA)
Passenger vehicles owned <sup>2,3</sup>	Number	75,388	78,205	78,106	95,603	88,691	95,965	94,910	96,490	96,726
Motorbus <sup>4</sup>	Number	59,411	62,114	62,093	63,497	57,285	61,586	59,689	60,388	60,250
Trolley bus	Number	823	763	686	664	676	680	671	710	725
Heavy rail <sup>2</sup>	Number	9,641	9,815	9,891	9,083	9,326	10,386	10,168	10,539	10,506
Light rail <sup>2</sup>	Number	1,013	1,016	1,013	733	699	697	766	831	755
Commuter rail	Number	4,500	4,497	4,423	4,075	4,035	4,440	4,686	4,649	4,472
Demand response	Number	(NA)	(NA)	(NA)	16,471	15,545	17,063	18,089	18,190	18,942
Total revenue	Mil. dol	6,510	8,044	8,526	11,623	12,195	13,147	14,172	15,415	14,788
Passenger revenue	Mil. dol	2,557	3,077	3,172	4,448	4,575	5,011	5,145	5,505	5,468
Other operating revenue <sup>4</sup>	Mil. dol	248	380	333	781	702	744	786	857	829
Operating assistance	Mil. dol	3,705	4,587	5,022	6,395	6,918	7,393	8,242	9,054	8,490
Federal	Mil. dol	1,094	1,005	827	996	940	912	955	950	868
State and local	Mil. dol	2,611	3,582	4,195	5,399	5,979	6,481	7,286	8,104	7,623
Total expense	Mil. dol	6,711	8,314	8,736	12,957	14,077	15,248	16,185	17,272	17,970
Operating expense	Mil. dol	6,247	7,553	7,956	11,574	12,381	13,410	14,154	15,009	15,691
Transportation	Mil. dol	3,248	3,882	3,931	5,142	5,655	5,874	6,162	6,404	6,755
Maintenance	Mil. dol	1,774	2,168	2,392	3,062	3,972	4,238	4,278	4,564	4,693
Administration	Mil. dol	1,224	1,503	1,634	3,370	3,054	3,298	3,714	4,041	4,223
Reconciling expense	Mil. dol	464	761	780	1,383	1,696	1,837	2,031	2,263	2,299
Capital expenditure, Federal	Mil. dol	2,787	2,544	3,162	2,876	2,510	3,137	2,476	(NA)	(NA)
Vehicle-miles operated	Million	2,287	2,319	2,306	2,750	2,791	2,916	3,113	3,020	3,260
Motorbus	Million	1,677	1,669	1,678	1,845	1,863	1,897	2,076	1,866	2,113
Trolley bus	Million	13	14	15	15	16	15	15	15	15
Heavy rail	Million	385	429	408	436	451	476	490	518	532
Light rail	Million	18	16	16	17	17	17	18	21	21
Commuter rail	Million	179	175	177	168	183	189	189	201	210
Demand response	Million	(NA)	(NA)	(NA)	256	247	307	311	382	349
Passengers carried	Million	8,567	8,052	8,203	8,851	8,659	8,802	8,806	8,893	9,082
Motorbus	Million	5,837	5,324	5,422	5,908	5,675	5,742	5,647	5,807	5,734
Trolley bus	Million	142	151	160	165	142	139	141	136	130
Heavy rail	Million	2,108	2,115	2,167	2,231	2,290	2,333	2,402	2,308	2,542
Light rail	Million	133	136	137	157	132	130	133	154	163
Commuter rail	Million	280	259	262	267	275	306	311	325	330
Demand response	Million	(NA)	(NA)	(NA)	62	59	75	79	82	77
Avg. revenue per passenger	Cents	31.0	39.7	40.2	50.3	52.8	56.9	59.0	62.1	(NA)
Employees, number (avg.)	1,000	187	194	195	263	270	272	283	271	285
Payroll, employee	Mil. dol	3,281	3,731	3,921	5,488	5,843	6,343	6,651	7,075	7,288

NA Not available. <sup>1</sup> Includes systems with combined services including motorbuses, heavy rail cars, light rail cars, trolley coaches, cable cars, and inclined plane cars. Beginning 1984, combined services also include suburban rail cars, urban ferry boats, vanpools, aerial tramways, automated guideways, and demand response vehicles. <sup>2</sup> Beginning 1984, includes active vehicles only. Includes other vehicles not shown separately. <sup>3</sup> Includes other not shown separately. <sup>4</sup> Includes other operating revenue, non-operating revenue, and auxiliary income.

Source: American Public Transit Association, Washington, DC, *Transit Fact Book*, annual.

**No. 1057. Class I Intercity Motor Carriers of Passengers: 1970 to 1988**

[Carriers subject to ICC regulations. See text, section 21. Minus sign (-) indicates deficit. See also *Historical Statistics, Colonial Times to 1970*, series Q 69-75]

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
Carriers reporting <sup>1</sup>	Number.	71	77	48	45	50	45	43	43	29	32	21
Number of employees, average	1,000	34	31	31	31	30	25	25	24	20	(NA)	(NA)
Compensation of employees	Mil. dol	317	383	599	630	646	570	551	518	443	(NA)	(NA)
Operating revenue	Mil. dol	722	942	1,397	1,453	1,447	1,276	1,255	1,233	1,117	1,079	1,122
Passenger revenue	Mil. dol	524	651	947	993	969	876	861	836	765	751	825
Special bus revenue and other	Mil. dol	198	291	215	202	229	180	180	184	155	165	155
Operating expenses	Mil. dol	639	880	1,318	1,381	1,416	1,263	1,254	1,168	1,082	1,081	1,059
Net operating revenue	Mil. dol	83	61	79	72	30	7	1	65	35	-2	63
Ordinary income:												
Before income taxes	Mil. dol	88	83	107	88	35	16	53	65	50	-11	(NA)
After income taxes	Mil. dol	52	56	90	61	37	26	43	53	36	-21	(NA)
Passenger vehicles in service	1,000	13.3	9.7	8.6	8.4	8.1	7.3	7.0	6.4	8.3	(NA)	(NA)
Vehicle-miles, passenger	Million	871	835	781	732	717	591	585	567	493	(NA)	(NA)
Revenue passengers carried	Million	174	147	134	114	112	94	89	88	74	82	55
Expense per vehicle-mile	Dollar	0.73	1.05	1.69	1.89	1.98	2.17	2.14	2.06	2.18	(NA)	(NA)

NA Not available. <sup>1</sup> Excludes carriers preponderantly in local or suburban service and carriers engaged in transportation of both property and passengers. <sup>2</sup> Regular route, intercity and local.

Source: U.S. Interstate Commerce Commission, 1970, *Transport Statistics in the United States*, Part 7, and 1975-1987, Part 2, annual.

**No. 1058. Intercity Bus Lines—Summary of Operations: 1970 to 1987**

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987
Operating companies	Number.	1,000	950	1,200	1,330	1,470	1,520	(NA)	(NA)	(NA)	(NA)	3,550
Buses	1,000	22.0	20.5	21.3	21.4	21.7	20.9	20.4	20.1	20.1	19.1	18.4
Miles of highway served (Dec. 31)	1,000	267	274	280	279	276	273	270	266	263	257	249
Employees (Dec. 31)	1,000	50	47	48	49	50	48	45	44	43	41	39
Bus miles, total	Million	1,209	1,126	1,153	1,162	1,151	1,115	1,027	1,016	997	945	914
Revenue passengers	Million	401	351	368	370	370	359	352	352	353	346	333
Charter and tour passengers	Million	92	145	185	195	204	206	209	(NA)	(NA)	(NA)	(NA)
Revenue passenger-miles	Billion	25.3	25.4	27.7	27.4	268	27.3	25.4	25.2	23.8	22.5	21.9
Operating revenue, all services	Mil. dol	901	1,172	1,664	1,943	2,097	2,070	1,953	1,914	1,898	1,838	1,717
Operating expenses	Mil. dol	812	1,103	1,572	1,811	1,982	2,013	1,938	1,896	1,839	1,781	1,669
Net operating revenue <sup>3</sup>	Mil. dol	89	69	92	132	115	57	15	18	59	57	48

NA Not available. <sup>1</sup> Includes duplication between carriers. <sup>2</sup> Operating companies only. <sup>3</sup> Before income taxes.

Source: American Bus Association, Washington, DC, *Bus Facts*, annual; and *Annual Report*.

**No. 1059. Warehousing Services—Revenues, Expenses, and Payroll: 1985 to 1988**

[In millions of dollars]

SIC <sup>1</sup> code	KIND OF BUSINESS	OPERATING REVENUES		OPERATING EXPENSES		ANNUAL PAYROLL	
		1985	1988	1985	1988	1985	1988
42	Motor frgt transport and warehousing srvs <sup>2</sup>	86,842	106,745	82,855	101,460	26,973	32,377
421	Trucking, local and long distance	82,212	101,042	78,819	96,443	25,576	30,710
422	Public warehousing	4,415	5,498	3,847	4,836	1,322	1,510
4221	Farm product warehousing and storage	518	637	457	546	(D)	(D)
4222	Refrigerated warehousing	1,007	1,246	872	1,069	313	362
4224	Household goods warehousing, storage	233	259	200	209	53	66

D Data do not meet publication standards because of high sampling error or high imputation rate. <sup>1</sup> Standard Industrial Classification. <sup>2</sup> Includes SIC 4231 and 4225,6 not shown separately.

Source: U.S. Bureau of the Census, *Current Business Reports*, 1988 *Motor Freight Transportation and Warehousing Survey*

**No. 1060. Trucking Costs and Rates for Fresh Fruit and Vegetables: 1980 to 1989**

[Dollars per box, except as indicated]

SELECTED ITEMS	1980	1982	1983	1984	1985	1986	1987	1988	1989
Truck costs for fleet operators <sup>1</sup> (dollars per mile)	0.97	1.11	1.13	1.15	1.17	1.14	1.17	1.18	1.23
Truck rates by commodity and origin/destination: <sup>2</sup>									
Lettuce <sup>3</sup> , California to New York City	3.36	3.62	3.62	3.65	3.62	3.75	3.83	3.69	3.76
Citrus and vegetables, Southern California to New York City	2.77	2.91	2.98	3.18	3.06	3.16	3.23	3.14	3.2
Apples, Washington to New York City	3.09	3.20	3.41	3.19	3.20	3.21	3.28	3.30	3.31

<sup>1</sup> Truck costs developed by Office of Transportation, USDA. <sup>2</sup> Average rates reported by Agricultural Marketing Service, Market News Service, USDA, for the first week of the month. <sup>3</sup> January to April: Imperial Valley, California to New York City; May to December: Salinas, California, to New York City.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Food Cost Review*, 1989.

**No. 1061. Trucking Services—Operating Revenues, Operating Expenses, and Equipment, by Type of Carrier: 1985 to 1988**

[In millions of dollars, except as indicated. Data cover SIC group 421. Estimates include both regulated and nonregulated carriers; excluded are non-employers (i.e., firms with no paid employees) and private fleets operated as auxiliary establishments to nontransportation companies. Some unpublished estimates may be derived from this table by subtraction, but such figures are subject to high sampling variability and should be used with caution.]

ITEM	ALL CARRIERS			SPECIALTY FREIGHT CARRIERS			GENERAL FREIGHT CARRIERS		
	1985	1987	1988	1985	1987	1988	1985	1987	1988
<b>Operating revenues:</b>									
Total	76,996	86,801	94,265	25,531	29,308	31,373	51,465	57,493	62,892
Motor carrier	82,212	92,494	101,042	28,807	33,202	35,807	53,405	59,293	65,235
Local trucking	76,996	86,801	94,265	25,531	29,308	31,373	51,465	57,493	62,892
Intercity trucking	16,809	18,603	20,476	8,598	10,854	11,129	8,011	7,749	9,347
Intercity trucking	60,387	68,198	73,789	16,933	18,454	20,244	43,454	49,744	53,545
<b>Operating expenses:</b>									
Total	78,819	88,142	96,443	27,348	31,438	33,551	51,471	56,703	62,892
Annual payroll	25,578	28,257	30,710	7,274	8,089	8,690	18,303	20,168	22,020
Employer contributions to Social Security and other supplemental labor benefits	5,851	6,480	7,167	1,367	1,582	1,702	4,484	4,898	5,465
Purchased fuels	6,414	5,676	6,172	2,059	1,894	2,039	4,354	3,782	4,133
Cost of purchased transportation	(NA)	19,901	21,893	(NA)	8,448	9,060	(NA)	11,454	12,833
Lease and rental payments	1,235	1,679	1,882	474	735	794	761	945	1,088
Cost of insurance	(NA)	3,513	3,945	(NA)	1,454	1,444	(NA)	2,059	2,501
Maintenance and repair costs	(NA)	4,728	5,198	(NA)	1,901	1,972	(NA)	2,827	3,226
Depreciation	3,941	4,585	5,012	1,500	1,821	1,884	2,441	2,764	3,128
Taxes and licenses	1,832	1,867	2,013	582	699	668	1,250	1,169	1,345
Other	(NA)	11,455	12,451	(NA)	4,817	5,298	(NA)	6,638	7,153
<b>Equipment (1,000 units):</b> <sup>2</sup>									
Trucks	216	226	241	(S)	89	103	(S)	137	138
Truck-tractors	469	502	553	167	167	190	302	334	363
Trailers, full and semi	1,011	1,081	1,151	246	290	278	765	791	873

NA Not available. S Data do not meet publication standards.

<sup>1</sup> Includes other revenues not shown separately.

<sup>2</sup> Represents revenue generating freight equipment as of December 31. Includes owned and leased equipment.

Source: U.S. Bureau of the Census, *Current Business Reports, 1987 Motor Freight Transportation and Warehousing Survey*.

**No. 1062. Class I Intercity Motor Carriers of Property, by Carrier: 1975 to 1988**

[See headnote, table 1057. Common carriers are carriers offering regular scheduled service. Contract carriers provide service at request of user. Minus sign (-) indicates loss]

ITEM	Unit	1975	1980	1985	1988	1975	1980	1985	1988
		COMMON CARRIER, GENERAL FREIGHT				COMMON CARRIER OTHER THAN GENERAL FREIGHT			
Carriers reporting	Number	368	298	237	209	330	441	397	360
Number of employees, average	1,000	379	413	376	430	94	101	76	82
Compensation of employees	Mill. dol.	5,726	9,803	10,217	12,074	1,046	1,931	1,783	2,010
Operating revenues	Mill. dol.	11,116	19,725	22,314	25,234	3,907	8,792	7,962	8,344
Intercity freight	Mill. dol.	10,511	19,480	22,080	25,055	3,717	8,339	7,664	8,069
Operating expenses	Mill. dol.	10,571	18,870	21,037	24,000	3,758	8,426	7,752	8,018
Ordinary income before taxes	Mill. dol.	432	701	1,198	1,135	109	230	123	248
Net income	Mill. dol.	225	-72	658	804	65	14	94	194
Total power units, intercity service	1,000	78	102	108	(NA)	69	95	77	(NA)
Trucks, tractors owned in operation, avg	1,000	49	73	82	(NA)	25	33	29	(NA)
Intercity vehicle-miles	Million	6,246	6,547	5,760	5,913	4,776	6,889	5,714	6,263
Tons of intercity revenue freight carried	Million	191	178	136	124	264	324	303	299
		CONTRACT CARRIER OTHER THAN GENERAL FREIGHT				CARRIERS OF HOUSEHOLD GOODS			
Carriers reporting	Number	50	69	64	74	32	28	40	36
Number of employees, average	1,000	10	14	22	30	4	10	11	11
Compensation of employees	Mill. dol.	175	336	630	925	70	157	240	254
Operating revenues	Mill. dol.	453	1,272	1,942	3,026	866	1,824	2,684	3,038
Intercity freight	Mill. dol.	411	1,172	1,792	2,773	765	1,676	2,388	2,336
Operating expenses	Mill. dol.	432	1,207	1,807	2,923	849	1,781	2,635	2,971
Ordinary income before taxes	Mill. dol.	17	48	103	55	32	74	79	33
Net income	Mill. dol.	9	28	69	38	18	42	54	25
Total power units, intercity service	1,000	8	13	16	(NA)	18	25	35	(NA)
Trucks, tractors owned in operation, avg	1,000	5	7	11	(NA)	(2)	1	1	(NA)
Intercity vehicle-miles	Million	454	934	1,227	1,882	688	969	1,171	1,289
Tons of intercity revenue freight carried	Million	21	37	41	69	3	5	7	8

NA Not available. Z Less than 500.

Source: U.S. Interstate Commerce Commission, *Transport Statistics in the United States*, part 2, annual.

**No. 1063. Trucks—Percent Distribution, Operational Characteristics: 1972 to 1987**

[See headnote, table 1064]

CHARACTERISTIC	1972	1977	1982	1987	CHARACTERISTIC	1972	1977	1982	1987
<b>Total</b> .....	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	Purchased used .....	47.8	50.0	51.5	50.1
Major use:					Leased .....	1.9	2.4	2.8	2.6
Agriculture <sup>1</sup> .....	22.6	17.0	12.2	8.5	Fleet size: 1 .....	61.9	71.6	77.8	65.1
Construction .....	8.6	6.7	11.2	10.0	2 to 5 .....	22.0	16.3	10.9	24.9
Manufacturing .....	2.3	1.4	1.7	1.3	6 to 19 .....	8.8	6.6	5.3	5.4
Wholesale and retail trade .....	9.5	7.6	6.8	5.6	20 or more .....	7.8	5.5	6.0	4.6
Personal transportation .....	41.2	54.4	56.7	65.7	Truck type:				
All other .....	16.2	13.0	11.4	8.8	Single-unit .....	95.4	96.8	95.7	96.3
Body type:					Combination .....	4.7	3.2	4.3	3.7
Pickup and panel <sup>2</sup> .....	73.3	84.5	86.4	90.1	Annual miles:				
Platform <sup>3</sup> .....	12.7	6.8	5.1	3.7	Less than 5,000 .....	23.4	23.9	26.0	25.3
Van <sup>4</sup> .....	5.9	3.4	3.2	2.1	5,000 to 9,999 .....	28.1	24.0	25.5	23.4
All other .....	9.1	5.5	5.3	4.0	10,000 to 19,999 .....	33.5	37.0	35.0	34.5
Vehicle size: <sup>5</sup> Light .....	74.0	85.4	89.3	91.9	20,000 to 29,999 .....	8.4	9.2	8.4	10.7
Medium .....	14.3	6.0	3.5	2.3	30,000 miles or more .....	6.8	5.9	5.0	6.1
Light-heavy .....	4.2	3.1	2.4	1.7	Range of operation:				
Heavy-heavy .....	7.6	5.5	4.8	4.1	Local .....	81.3	84.8	76.6	75.6
Year model:					Short-range <sup>6</sup> .....	8.7	8.4	10.3	14.8
1 to 2 years old .....	14.8	17.1	8.9	17.2	Long-range <sup>7</sup> .....	2.4	2.1	3.1	4.5
3 to 4 years old .....	18.9	17.5	16.5	16.5	Off-the-road <sup>8</sup> .....	7.6	4.7	10.0	5.1
4 years or more .....	66.6	65.4	74.6	66.3	Fuel type:				
Vehicle acquisition:					Gasoline .....	87.9	96.0	94.3	93.7
Purchased new .....	50.5	47.6	45.7	47.3	Diesel and LPG .....	4.4	3.9	5.5	6.2
					Not reported .....	7.9	-	0.2	0.1

- Represents zero. <sup>1</sup> Includes forestry and lumbering. <sup>2</sup> Also includes multi-stop, walk-in, mini-van, station wagon, and utility. <sup>3</sup> Includes cattle rack. <sup>4</sup> See footnote 5, table 1064. <sup>5</sup> See footnote 6, table 1064. <sup>6</sup> Includes not reported. <sup>7</sup> Annual miles were imputed, if not reported. <sup>8</sup> Less than 201 miles. <sup>9</sup> 201 miles or more.

**No. 1064. Trucks and Truck—Miles, by Vehicle and Operational Characteristics: 1987**

[Data are based on a stratified probability sample of trucks drawn from current registrations on file with motor vehicle departments in the 50 States and DC]

ITEM	TRUCKS (1,000)		TRUCK—MILES (bil.)		ITEM	TRUCKS (1,000)		TRUCK—MILES (bil.)	
	Total	Excl. pickups, panels	Total	Excl. pickups, panels		Total	Excl. pickups, panels	Total	Excl. pickups, panels
<b>Total</b> .....	<b>44,572</b>	<b>4,886</b>	<b>529.3</b>	<b>102.3</b>	Range of operation:				
Major use:					Local .....	33,685	3,027	350.9	34.8
Agriculture <sup>2</sup> .....	3,819	1,114	39.0	10.3	Short-range <sup>3</sup> .....	6,612	920	108.3	29.2
Construction .....	4,479	997	63.7	12.9	Long-range <sup>4</sup> .....	1,997	490	56.0	36.0
Manufacturing .....	581	241	12.5	7.4	Off-the-road <sup>5</sup> .....	2,278	449	14.1	2.3
Wholesale and retail trade .....	2,507	830	43.3	17.9	Products carried:				
Personal transportation .....	29,292	250	287.0	1.7	Farm products .....	1,558	769	16.2	8.5
All other .....	3,894	1,455	83.8	52.2	Building materials .....	1,141	640	18.6	11.8
Body type:					Mixed cargoes .....	686	325	21.1	15.7
Pickup and panel <sup>3</sup> .....	40,170	484	433.6	6.6	Craftsman's equipment .....	2,476	319	34.5	3.6
Platform <sup>4</sup> .....	1,668	1,668	25.0	25.0	Personal transportation .....	29,290	251	286.9	1.7
Van <sup>5</sup> .....	940	940	42.2	42.2	All other .....	9,422	2,583	152.0	61.1
All other .....	1,794	1,794	28.5	28.5	Hazardous materials				
Vehicle size: <sup>6</sup> Light .....	40,947	1,356	439.3	13.4	carried .....	340	278	14.5	13.5
Medium .....	1,030	939	10.8	9.7	Percent of time:				
Light-heavy .....	766	764	7.6	7.6	Less than 10 percent .....	114	107	7.2	7.1
Heavy-heavy .....	1,829	1,828	71.6	71.6	10 to 25 percent .....	28	19	1.2	1.1
Year model:					26 to 49 percent .....	18	15	0.7	0.6
1 to 2 years old .....	7,678	473	123.6	18.0	50 to 74 percent .....	25	24	1.0	1.0
3 to 4 years old .....	7,338	549	120.5	23.4	75 to 100 percent .....	94	89	2.8	2.7
4 years or more .....	29,543	3,864	285.1	60.8	Types of hazardous				
Vehicle acquisition:					material:				
Purchased new .....	21,087	2,138	292.3	57.9	Flammables liquids .....	198	175	9.3	9.0
Purchased used .....	22,325	2,511	215.2	34.7	Combustible liquids .....	95	95	5.8	5.8
Leased .....	1,160	237	21.8	9.8	Corrosive liquids .....	70	66	4.6	4.5
Fleet size: 1 .....	29,026	1,170	308.7	20.2	Flammable solids .....	29	28	2.3	2.3
2 to 5 .....	11,094	1,547	122.9	18.5	Oxidizers .....	28	28	2.2	2.2
6 to 19 .....	2,397	1,007	40.1	19.8	Flammable gas .....	26	26	2.2	2.2
20 or more .....	2,054	1,163	57.6	43.8	Nonflammable gas .....	26	26	2.2	2.2
Truck type:					Corrosive solids .....	21	21	1.9	1.9
Single-unit .....	42,917	3,587	462.0	38.8	Not reported .....	139	101	5.1	4.5
Combination .....	1,656	1,300	67.3	63.5					

<sup>1</sup> Also excluding mini-vans, utilities, and station wagons. <sup>2</sup> Includes forestry and lumbering. <sup>3</sup> Also includes multi-stop, walk-in, mini-vans, station wagons, and utility trucks. <sup>4</sup> Includes livestock truck. <sup>5</sup> Vans similar to panel trucks are included in panel. <sup>6</sup> Average operating weight (empty-weight of the vehicle plus the average load carried). Light=10,000 lbs. or less; medium=10,001-19,500 lbs.; light-heavy=19,501-26,000 lbs.; and heavy-heavy=26,001 lbs. or more. <sup>7</sup> Includes not reported. <sup>8</sup> Less than 201 miles. <sup>9</sup> 201 miles or more. <sup>10</sup> Detail does not add to totals because items were not applicable or multiple responses were possible.

Source of tables 1063 and 1064: U.S. Bureau of the Census, 1987 Census of Transportation, TC87-T-52.



## No. 1065. Railroads, Class I—Summary: 1970 to 1989

[As of Dec. 31, or calendar year data, except as noted. Compiled from annual reports of class I railroads only, except where noted. Beginning 1983, financial data are not comparable with earlier years due to change in method of accounting for track and related structures. Minus sign (-) indicates deficit. See also *Historical Statistics, Colonial Times to 1970*, series Q 284-312, Q 319, Q 330, Q 356-378, and Q 400-401]

ITEM	Unit	1970	1980	1983	1984	1985	1986	1987	1988	1989
<b>Class I line-hauling companies</b> <sup>1</sup>	Number	71	39	32	29	23	22	18	17	15
<b>Employees</b>	1,000	566	480	342	344	302	276	249	236	228
Compensation	Mil. dol.	5,711	11,318	10,345	11,004	10,563	9,900	9,373	9,301	9,043
Average per hour	Dollars	4.14	10.21	13.29	13.84	14.30	14.75	15.11	15.84	15.76
Average per year	Dollars	10,086	24,659	32,125	34,064	34,991	35,894	37,716	39,431	39,742
<b>Mileage:</b>										
Railroad line owned <sup>3</sup>	1,000	206	179	161	157	155	154	152	150	149
Railroad track owned <sup>4</sup>	1,000	336	290	270	264	257	256	254	251	249
<b>Equipment:</b>										
Locomotives in service	Number	27,077	28,094	24,117	22,548	22,932	20,790	19,358	19,364	19,015
Average horsepower	1,000 lb	1,826	2,302	2,364	2,415	2,469	2,531	2,554	2,579	2,624
Cars in service:										
Passenger train	Number	11,177	4,347	2,610	2,580	2,502	2,307	2,350	2,332	(NA)
Freight train <sup>5</sup>	1,000	1,784	1,711	1,543	1,486	1,422	1,339	1,288	1,239	1,212
Freight cars <sup>6</sup>	1,000	1,454	1,168	1,007	948	867	799	749	725	688
Average capacity <sup>7</sup>	Tons	67.1	78.5	82.4	83.4	83.2	84.1	85.0	86.4	87.8
Aggregate capacity <sup>7</sup>	Mil. tons	95.6	92.7	83.0	80.0	72.2	67.2	63.6	55.9	55.0
Box <sup>8</sup>	1,000	590	347	271	245	216	180	163	144	133
Gondola and hopper <sup>7</sup>	1,000	724	636	577	552	505	473	445	437	423
Other	1,000	140	185	159	151	145	146	141	144	132
<b>Income and expenses:</b>										
Operating revenues	Mil. dol	11,992	28,258	26,729	29,453	27,586	26,204	26,622	27,934	27,956
Operating expenses	Mil. dol	11,478	26,355	24,106	25,800	25,225	24,698	23,678	24,811	25,038
Net revenue from operations	Mil. dol	514	1,902	2,623	3,653	2,361	1,308	2,744	3,123	2,918
Income before fixed charges	Mil. dol	994	2,897	3,608	4,893	3,393	2,480	3,932	4,460	4,162
Provision for taxes	Mil. dol	88	592	851	1,185	860	163	1,051	1,162	1,040
Ordinary income	Mil. dol	227	1,129	1,778	2,654	1,788	747	1,965	2,296	2,009
Net income	Mil. dol	227	1,129	1,797	2,701	1,882	544	2,055	2,382	2,203
Net railway operating income	Mil. dol	486	1,339	1,838	2,537	1,746	507	1,756	1,980	1,894
Total taxes <sup>9</sup>	Mil. dol	1,069	2,585	3,014	3,605	3,169	2,728	3,553	3,871	3,742
Indus. return on net investment	Percent	1.7	4.2	4.3	5.7	4.6	1.3	4.8	6.7	(NA)
Gross capital expenditures	Mil. dol	1,351	3,238	2,985	4,121	4,485	3,645	3,076	3,546	3,865
Equipment	Mil. dol	993	2,280	455	806	965	693	657	1,027	1,171
Roadway and structures	Mil. dol	358	953	2,306	2,938	3,458	2,908	2,314	2,654	2,538
Other	Mil. dol	-	5	224	377	62	44	105	135	156
<b>Balance sheet:</b>										
Total property investment	Mil. dol	38,213	43,923	62,964	63,471	64,241	64,781	166,780	68,550	67,661
Accrued depreciation and amortization	Mil. dol	10,027	10,706	19,480	20,098	19,756	20,940	21,070	21,497	21,481
Net investment	Mil. dol	28,186	33,217	43,483	43,373	44,485	43,841	45,690	47,053	47,370
Shareholder's equity	Mil. dol	17,323	19,860	26,461	27,986	27,605	25,442	25,616	26,467	25,753
Net working capital	Mil. dol	59	897	1,325	1,844	1,084	743	1,241	-190	-2,119
Cash dividends	Mil. dol	421	610	1,085	1,066	1,444	1,376	1,252	1,814	1,910
<b>AMTRAK passenger traffic:</b>										
Passenger revenue	Mil. dol	(NA)	(NA)	515.3	556.7	604.9	633.6	681.1	784.2	893.3
Revenue passengers carried	1,000	(NA)	(NA)	19,469	20,065	20,945	20,165	20,727	21,490	21,394
Revenue passenger miles	Million	(NA)	(NA)	4,343	4,566	4,977	5,015	5,368	5,686	5,912
Averages:										
Revenue per passenger	Dollars	(NA)	(NA)	26.39	28.83	28.88	31.42	32.85	36.49	41.75
Revenue per passenger mile	Cents	(NA)	(NA)	11.83	12.23	12.15	12.63	12.68	13.79	15.11
Trip per passenger	Miles	(NA)	(NA)	223.1	227.6	237.6	248.7	259.0	264.6	276.3
<b>Freight service:</b>										
Freight revenue	Mil. dol	10,922	26,200	25,835	28,472	26,688	25,344	25,797	27,092	27,956
Per ton-mile	Cents	1.43	2.83	3.20	3.08	3.04	2.92	2.73	2.72	2.67
Per ton originated	Dollar	7.36	17.66	19.99	19.92	20.22	19.41	18.80	18.95	19.29
Revenue-tons originated	Million	1,485	1,492	1,293	1,429	1,320	1,087	1,372	1,430	1,402
Revenue-tons carried	Million	2,616	2,434	1,932	2,119	1,985	1,938	1,984	2,045	1,988
Tons carried one mile	Billion	765	919	827	922	877	868	944	996	1,014
Average miles of road operated	1,000	209	179	170	165	161	155	147	141	138
Revenue ton-miles per mile of road	1,000	3,652	5,133	4,876	5,578	5,446	5,587	6,395	7,052	7,373
Revenue per ton-mile	Cents	1.428	2.852	3.119	3.090	3.043	2.921	2.733	2.720	2.689
Train miles	Million	427	428	346	369	347	347	361	379	382
Net ton-miles per train-mile <sup>10</sup>	Number	1,820	2,175	2,432	2,543	2,574	2,552	2,644	2,662	2,683
Net ton-miles per loaded car-mile <sup>10</sup>	Number	44.9	63.5	61.2	62.4	62.7	63.2	64.0	65.5	67.0
Train-miles per train-hour	Miles	20.1	18.2	20.3	21.9	21.9	22.5	22.2	21.5	23.0
Haul per ton, U.S. as a system	Miles	515	616	641	645	664	664	688	697	723
<b>Accident:</b> <sup>11</sup>										
Persons killed	Number	2,255	1,417	1,073	1,247	1,036	1,091	1,165	1,199	1,305
Persons injured	Number	21,327	62,246	34,816	38,570	34,304	26,923	26,033	27,054	26,235

- Represents zero. NA Not available. <sup>1</sup> See text, section 21 for definition of Class I. <sup>2</sup> Average mid-month count. <sup>3</sup> Represents the aggregate length of roadway of all line-haul railroads. Excludes yard tracks, sidings, and parallel lines. (Includes estimate for class II and III railroads.) <sup>4</sup> Includes multiple main tracks, yard tracks, and sidings owned by both line-haul and switching and terminal. (Includes estimate for class II and III railroads.) <sup>5</sup> Excludes Long Island Railroad, which was reclassified. <sup>6</sup> Includes cars owned by all railroads, private car companies, and shippers. <sup>7</sup> Class I railroads only. <sup>8</sup> Includes State income taxes beginning 1980. <sup>9</sup> Includes payroll, income, and other taxes. <sup>10</sup> Revenue and non-revenue freight. <sup>11</sup> Includes highway grade crossing casualties. 1970 not comparable with later years due to change in requirements for reporting injuries.

Source: Association of American Railroads, Washington, DC, *Railroad Facts, Statistics of Railroads of Class I*, annual, and *Analysis of Class I Railroads*, annual. Accident data: U.S. Federal Railroad Administration, *Accident Bulletin*, annual.

### No. 1066. Railroads, Class I-Cars of Revenue Freight Loaded, 1970 to 1989, and by Commodity Group, 1988 and 1989

[In thousands. Figures are 52-week totals. N.e.c. = Not elsewhere classified]

YEAR	CARLOADS		COMMODITY GROUP	CARLOADS		COMMODITY GROUP	CARLOADS	
	Total	Piggy-back		1988	1989		1988	1989
1970	27,160	1,450	Coal	5,886	5,977	Metals and products	449	424
1975	23,217	1,308	Metallic ores	567	516	Stone, clay, and glass products	520	509
1980	22,598	1,661	Chemicals, allied products	1,351	1,382	Crushed stone, gravel, sand	771	717
1984	20,257	2,703	Grain	1,583	1,472	Nonmetallic minerals, n.e.c.	509	493
1985	19,574	2,863	Motor vehicles and equipment	984	958	Waste and scrap materials	446	416
1986	19,783	3,279	Pulp, paper, allied products	523	494	Lumber, wood products, n.e.c.	370	332
1987	21,133	3,294	Primary forest products	470	431	Coke	294	275
1988	16,422	(NA)	Food and kindred prod., n.e.c.	463	448	Petroleum product	247	253
1989	16,039	(NA)	Grain mill products	528	513	All other carloads	580	527

NA Not available. <sup>1</sup> Excludes furniture.

Source: Association of American Railroads, Washington, DC, *Weekly Railroad Traffic*, annual.

### No. 1067. Railroads, Class I Line-Haul-Revenue Freight Originated, by Commodity Group: 1970 to 1989

[See *Historical Statistics, Colonial Times to 1970*, series Q 332, for total carloads originated]

COMMODITY GROUP	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989, prel.
<b>Carloads (1,000) <sup>1</sup></b>	<b>27,015</b>	<b>22,930</b>	<b>22,223</b>	<b>18,585</b>	<b>19,013</b>	<b>20,946</b>	<b>19,501</b>	<b>19,587</b>	<b>20,602</b>	<b>21,600</b>	<b>21,226</b>
Coal	5,296	4,844	5,789	5,718	5,276	6,061	5,684	5,433	5,430	5,621	5,672
Farm products	2,374	1,873	1,866	1,566	1,642	1,757	1,494	1,602	1,907	1,977	1,782
Food and kindred products	2,706	2,154	1,767	1,391	1,316	1,234	1,224	1,276	1,326	1,318	1,285
Metallic ores	1,602	1,338	1,258	761	812	1,001	511	508	494	582	523
Chemicals, allied products	1,576	1,313	1,322	1,120	1,216	1,312	1,296	1,287	1,410	1,497	1,497
Nonmetallic minerals	2,204	1,895	1,474	958	1,079	1,204	1,196	1,113	1,188	1,290	1,254
Lumber and wood products	2,048	1,615	1,384	1,002	1,075	1,051	948	965	986	910	843
Transportation equipment	1,059	1,135	1,004	801	954	1,141	1,202	1,148	1,085	1,160	1,141
Pulp, paper, allied products	1,197	1,015	954	765	746	741	703	672	561	646	615
Primary metal products	1,486	796	756	459	440	487	449	389	428	479	452
Stone, clay, and glass products	1,231	906	776	516	543	576	551	530	559	577	565
Waste and scrap materials	805	744	632	409	417	480	429	402	440	471	444
Petroleum and coal products	699	787	596	467	495	529	491	477	520	568	581
Machinery, exc. electrical	200	156	77	43	38	40	35	31	33	40	38
Fabricated metal products	398	244	72	36	33	37	31	26	24	26	27
<b>Tons (mil.) <sup>1</sup></b>	<b>1,484.9</b>	<b>1,395.1</b>	<b>1,492.4</b>	<b>1,268.6</b>	<b>1,292.6</b>	<b>1,429.4</b>	<b>1,319.8</b>	<b>1,305.8</b>	<b>1,372.2</b>	<b>1,429.4</b>	<b>1,402.5</b>
Coal	404.6	407.6	522.1	523.8	493.6	566.6	538.0	517.5	523.3	542.8	551.2
Farm products	134.2	134.4	156.1	133.5	142.2	151.1	127.0	136.4	162.9	169.6	154.4
Food and kindred products	110.1	100.2	91.9	77.0	75.2	72.1	73.5	78.3	81.4	81.0	79.0
Metallic ores	126.7	106.4	105.4	62.6	68.4	85.5	46.9	46.4	44.9	51.9	47.3
Chemicals, allied products	91.6	91.4	108.3	91.2	99.3	107.4	106.4	105.6	115.9	123.3	122.5
Nonmetallic minerals	163.3	150.6	124.8	84.7	96.5	108.2	107.7	101.2	109.4	114.5	110.7
Lumber and wood products	101.9	88.6	85.5	65.9	71.7	69.8	63.2	64.9	66.8	62.0	57.0
Transportation equipment	24.2	27.3	23.9	18.8	22.2	26.1	27.2	25.9	23.9	24.8	24.4
Pulp, paper, allied products	42.5	40.6	42.1	36.4	36.8	37.7	36.2	35.6	35.9	34.7	33.5
Primary metal products	82.2	51.4	52.7	32.0	32.0	36.1	33.6	29.7	33.4	37.8	35.9
Stone, clay, and glass products	71.1	56.8	53.7	36.2	41.6	44.7	43.5	42.1	44.3	46.2	46.5
Waste and scrap materials	39.8	38.2	34.3	22.7	24.5	28.8	25.7	25.0	26.2	30.2	28.3
Petroleum and coal products	36.3	45.8	38.1	31.6	33.6	35.3	32.9	32.8	34.9	38.6	38.5
Machinery, exc. electrical	4.6	3.6	2.0	1.2	0.8	0.9	0.9	0.8	0.8	0.9	0.9
Fabricated metal products	11.3	8.2	2.0	1.0	0.8	0.9	0.8	0.7	0.6	0.7	0.6
<b>Gross revenue (mil. dol.) <sup>1</sup></b>	<b>11,388</b>	<b>15,899</b>	<b>26,938</b>	<b>26,504</b>	<b>26,710</b>	<b>29,866</b>	<b>28,225</b>	<b>27,186</b>	<b>27,657</b>	<b>29,529</b>	<b>29,328</b>
Coal	1,361	2,146	4,956	6,307	5,969	6,962	6,556	6,089	6,087	6,430	6,581
Farm products	1,068	1,472	2,801	2,305	2,374	2,493	1,977	2,007	2,246	2,534	2,444
Food and kindred products	1,363	1,822	2,837	2,604	2,349	2,309	2,256	2,192	2,171	2,198	2,128
Metallic ores	333	458	597	403	450	567	403	375	348	415	397
Chemicals, allied products	1,137	1,681	2,946	2,942	3,078	3,360	3,342	3,342	3,477	3,795	3,788
Nonmetallic minerals	409	596	948	852	834	997	949	839	854	890	868
Lumber and wood products	832	1,066	1,543	1,309	1,527	1,611	1,525	1,563	1,660	1,626	1,500
Transportation equipment	734	1,283	1,917	1,966	2,292	2,859	3,110	2,997	2,866	3,218	3,269
Pulp, paper, allied products	730	977	1,652	1,717	1,671	1,762	1,641	1,572	1,542	1,540	1,514
Primary metal products	813	848	1,332	977	816	955	872	787	863	1,013	972
Stone, clay, and glass products	512	651	1,025	888	908	1,024	960	907	914	965	960
Waste and scrap materials	232	359	513	418	423	496	446	425	474	526	492
Petroleum and coal products	305	573	865	887	844	913	861	800	809	903	917
Machinery, exc. electrical	148	200	176	115	75	81	72	58	57	63	66
Fabricated metal products	210	221	110	71	52	57	48	40	37	38	38

<sup>1</sup> Includes commodity groups and small packaged freight shipments, not shown separately. <sup>2</sup> Except fuels. <sup>3</sup> Except furniture. <sup>4</sup> Except ordnance, machinery, and transport.

Source: 1970-1975, U.S. Interstate Commerce Commission, *Freight Commodity Statistics—Class I Railroads in the United States*, annual; thereafter, Association of American Railroads, Washington, DC, *Freight Commodity Statistics*, annual.

**No. 1068. Railroad Freight—Producer Price Indexes: 1970 to 1989**

[Dec. 1984 = 100. Reflects prices for shipping a fixed set of commodities under specified and unchanging conditions]

COMMODITY	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Total railroad freight</b>	<b>29.1</b>	<b>45.3</b>	<b>75.9</b>	<b>87.4</b>	<b>93.7</b>	<b>95.0</b>	<b>99.3</b>	<b>99.9</b>	<b>100.7</b>	<b>100.1</b>	<b>104.8</b>	<b>106.4</b>
Coal	26.9	44.0	75.8	86.9	95.4	96.5	99.9	100.0	100.7	100.1	104.3	105.3
Farm products	29.7	45.2	75.6	86.3	92.4	94.0	96.7	99.0	99.6	99.3	105.5	108.5
Food products	28.9	44.8	75.2	87.4	93.7	94.8	99.1	100.0	99.9	98.6	103.1	103.9
Metallic ores	26.4	43.2	74.5	86.1	93.9	95.9	99.4	100.2	100.5	99.0	103.9	105.8
Chemicals or allied products	30.0	46.5	75.6	87.1	93.5	94.3	98.7	100.1	101.2	100.8	106.9	110.0
Nonmetallic minerals	25.4	40.5	72.2	86.4	93.3	94.6	98.9	100.1	101.6	101.1	106.1	108.3
Wood or lumber products	28.3	42.8	72.7	85.2	91.4	93.3	98.7	100.0	100.9	100.4	105.3	105.9
Transportation equipment	31.7	50.3	81.7	91.6	94.5	95.6	99.6	100.0	100.8	99.3	105.4	106.4
Pulp, paper, or allied products	31.5	47.1	76.7	88.5	94.7	95.6	99.9	100.0	101.0	100.6	104.0	105.1
Primary metal products	29.9	47.8	77.8	88.5	94.3	95.4	96.7	99.7	100.0	99.7	108.8	112.3
Clay, concrete, glass, or stone products	26.9	43.0	74.2	86.5	93.4	94.4	98.8	100.0	102.2	102.2	107.5	110.5

Source: U.S. Bureau of Labor Statistics, *Producer Price Indexes*, monthly and annual.

**No. 1069. Petroleum Pipeline Companies—Characteristics: 1975 to 1988**

[1975, covers pipeline companies operating in interstate commerce and subject to jurisdiction of Interstate Commerce Commission; thereafter, Federal Energy Regulatory Commission]

ITEM	Unit	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Miles of pipeline, total	1,000	170.7	169.8	172.7	172.8	172.5	167.8	173.9	171.4	170.0	167.9	170.5
Gathering lines	1,000	40.4	36.9	36.3	36.6	35.6	31.0	36.1	35.0	34.2	35.1	34.3
Trunk lines	1,000	130.3	132.9	136.4	134.2	136.9	136.9	137.9	136.4	135.8	132.8	136.2
Total deliveries	Mil. bbl.	9,391	11,140	10,600	10,223	10,181	10,310	10,224	10,745	11,002	11,194	11,484
Crude oil	Mil. bbl.	5,729	6,728	6,405	6,070	5,968	6,020	5,671	6,239	6,286	6,278	6,509
Products	Mil. bbl.	3,662	4,412	4,195	4,153	4,213	4,289	4,552	4,506	4,716	4,917	4,974
Total trunk line traffic	Bil. bbl-miles	2,892	3,577	3,405	3,554	3,442	3,328	3,406	3,342	3,467	3,524	3,619
Crude oil	Bil. bbl-miles	1,551	1,946	1,948	1,813	1,938	1,875	1,855	1,842	1,893	1,932	1,970
Products	Bil. bbl-miles	1,341	1,631	1,458	1,740	1,484	1,452	1,551	1,500	1,573	1,592	1,649
Carrier property value	Mil. dol.	10,740	18,990	19,752	21,250	21,942	22,255	19,397	21,605	22,384	21,353	24,332
Operating revenues	Mil. dol.	1,869	5,781	6,356	6,878	7,140	7,472	7,824	7,461	7,287	7,057	6,861
Net income	Mil. dol.	456	1,648	1,912	2,031	2,162	2,353	2,545	2,431	2,051	2,475	2,505

Source: PennWell Publishing Co., Tulsa, OK, *Oil and Gas Journal*, November 27, 1989, and earlier issues. (Copyright.)

**No. 1070. Major Interstate Natural Gas Pipeline Companies—Summary: 1980 to 1988**

[In 1984, the reporting criteria were changed from that of prior years. The classification of A and B interstate natural gas pipeline companies was changed to major companies and nonmajor companies. Major natural gas pipeline companies are those whose combined sales for resale and natural gas transported or stored for a fee exceed 50 billion cubic feet. They account for more than 85 percent of all interstate natural gas]

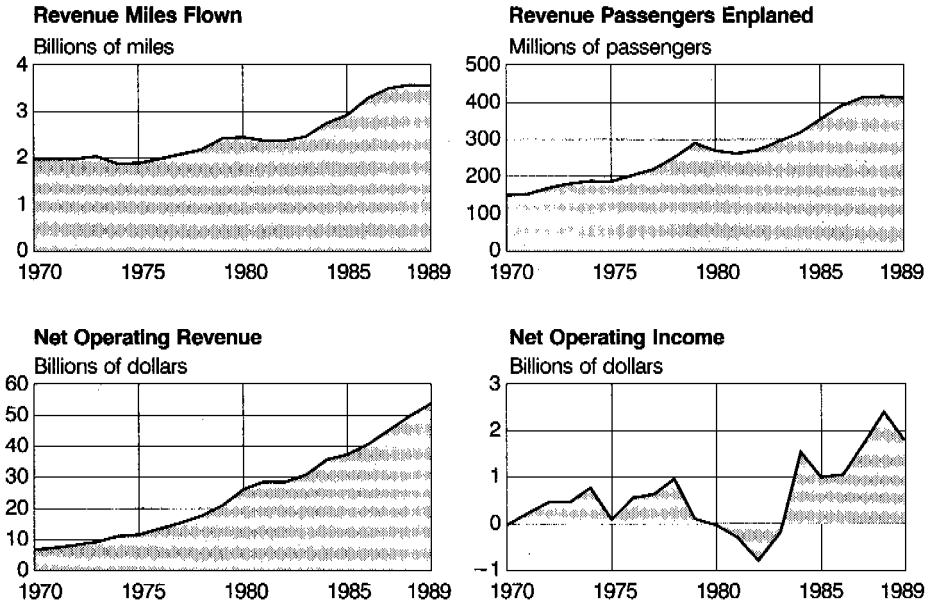
ITEM	Unit	1980	1982	1983	1984	1985	1986	1987	1988
Sales	Tril. cu. ft.	(NA)	14.4	12.9	13.2	11.3	7.8	6.5	6.4
Residential	Tril. cu. ft.	(NA)	0.3	0.3	0.3	0.3	0.2	0.2	0.3
Commercial, industrial	Tril. cu. ft.	(NA)	1.2	1.0	1.2	1.1	0.5	0.4	0.5
For resale	Tril. cu. ft.	(NA)	13.0	11.6	11.6	9.9	7.1	5.8	5.6
Operating revenues	Mil. dol.	(NA)	56,203	56,792	56,326	49,106	33,859	27,565	27,501
From sales	Mil. dol.	(NA)	53,601	53,710	52,529	44,996	29,508	22,942	22,512
Residential	Mil. dol.	(NA)	1,273	1,725	1,927	1,879	1,122	1,094	1,553
Commercial, industrial	Mil. dol.	(NA)	4,453	4,233	5,180	4,466	1,909	1,464	1,544
For resale	Mil. dol.	(NA)	47,776	47,661	45,268	38,545	26,413	20,351	19,420
From transportation of gas to others	Mil. dol.	(NA)	1,259	1,787	1,923	2,272	3,027	3,622	4,059
Other	Mil. dol.	(NA)	1,344	1,296	1,874	1,838	1,325	1,002	929
Operation, maintenance expenses	Mil. dol.	33,303	49,989	49,391	48,411	42,528	27,460	21,794	22,742
Production	Mil. dol.	29,644	44,449	43,516	42,407	36,739	22,208	16,955	17,625
Storage	Mil. dol.	253	405	441	415	418	420	409	436
Transmission	Mil. dol.	2,431	3,629	3,729	3,760	3,409	2,984	2,598	2,589
Distribution	Mil. dol.	28	103	131	131	132	80	80	127
Administrative, general, and other	Mil. dol.	947	1,402	1,576	1,697	1,830	1,768	1,752	1,966
Pipeline mileage:									
Transmission lines	1,000	161.9	178.0	176.7	183.4	189.7	184.6	181.2	191.6
Field lines	1,000	56.6	64.6	63.7	65.2	69.6	64.5	62.9	55.5
Storage	1,000	11.7	6.9	6.5	4.6	4.8	4.6	4.3	4.8

NA Not available. <sup>1</sup> Includes other ultimate customers not shown separately.

Source: U.S. Energy Information Administration, *Statistics of Interstate Natural Gas Pipeline Companies*, annual.

Figure 22.1

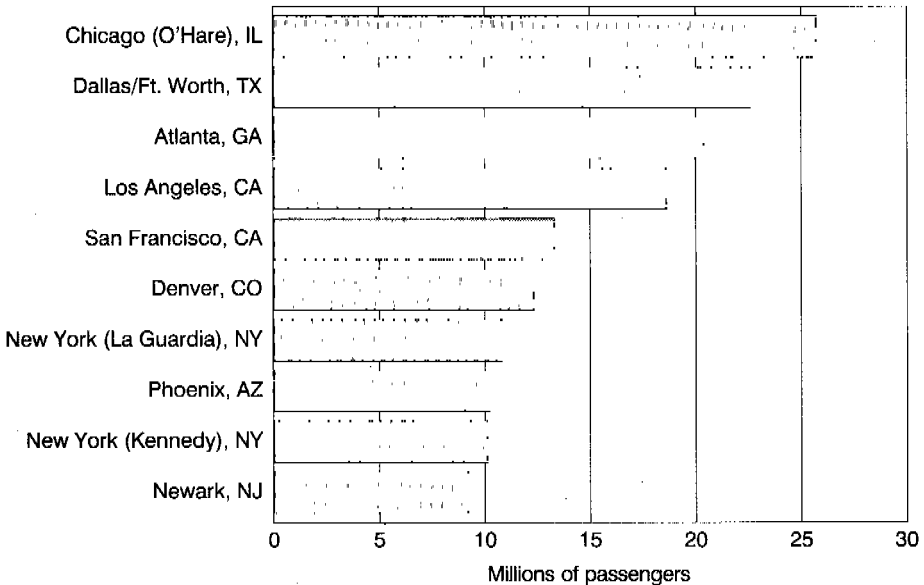
**Domestic Scheduled Operations of Air Carriers: 1970 to 1989**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1072.

Figure 22.2

**Revenue Passengers Enplaned—  
Top 10 Airports: 1989**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1077.



## Section 22

**Transportation—  
Air and Water**

This section presents data on civil air transportation, both passenger and cargo, and on water transportation, including inland waterways, oceanborne commerce, the merchant marine, cargo and vessel tonnages, and shipbuilding. Comparative data on various types of transportation carriers are presented in section 21.

Principal sources of these data are the annual *FAA Statistical Handbook of Aviation* issued by the Federal Aviation Administration (FAA); the annual *Waterborne Commerce of the United States* issued by the Corps of Engineers of the Department of the Army; the monthly and annual issues of *U.S. Waterborne Exports and General Imports*, and the annual *Vessel Entrances and Clearances*, and the monthly *Highlights of U.S. Export and Import Trade*, issued by the Bureau of the Census. In addition, the Bureau of the Census in its commodity transportation survey (part of the census of transportation, taken every five years, for years ending in "2" and "7") provides data on the type, weight, and value of commodities shipped by manufacturing establishments in the United States, by means of transportation, origin, and destination.

Air transportation data are also presented annually by the Air Transport Association of America, Washington, DC in *Air Transport Facts and Figures*. Additional sources of data on water transportation include *Merchant Fleets of the World* issued periodically by the U.S. Maritime Administration; *The Bulletin*, issued monthly by the American Bureau of Shipping, New York; and the *Annual Summary of Merchant Ships Completed in the World* and the *Register Book*, published by Lloyd's Register of Shipping, London, England.

**Civil aviation.**—Federal promotion and regulation of civil aviation have been carried out by the FAA and the Civil Aeronautics Board (CAB). The CAB promoted and regulated the civil air transportation industry within the United States and between the United States and foreign countries. The Board granted licenses to provide air transportation service, approved or disapproved proposed rates and fares, and approved or disapproved proposed agreements and corporate relationships involving air carriers. In December 1984, the CAB ceased to exist as an agency. Some of its functions were transferred to the Department of Transportation (DOT), as outlined below. The responsibility for investigation of aviation accidents resides with the National Transportation Safety Board.

The Office of the Secretary, DOT aviation activities include: negotiation of international air transportation rights, selection of U.S. air carriers to serve capacity controlled international markets, oversight of international rates and fares, maintenance of essential air service to small communities, and consumer affairs. DOT's Research and Special Programs Administration (RSPA) handles aviation information functions formerly assigned to CAB.

The principal activities of the FAA include: The promotion of air safety; controlling the use of navigable airspace; prescribing regulations dealing with the competency of airmen, airworthiness of aircraft, and air traffic control; operation of air route traffic control centers, airport traffic control towers, and flight service stations; the design, construction, maintenance, and inspection of navigation, traffic control, and communications equipment; and the development of general aviation.

The CAB published monthly and quarterly financial and traffic statistical data for the certificated route air carriers. RSPA continues these publications, including both certificated and non-certificated (commuter) air carriers. The FAA publishes annually data on the use of airway facilities; data related to the location of airmen, aircraft, and airports; the volume of activity in the field of non-air carrier (general aviation) flying; and aircraft production and registration.

General aviation comprises all civil flying (including such commercial operations as small demand air taxis, agriculture application, powerline patrol, etc.) but excludes certificated route air carriers, supplemental operators, large-aircraft commercial operators and commuter airlines.

**Air carriers and service.**—The CAB previously issued "certificates of public convenience and necessity" under Section 401 of the Federal Aviation Act of 1958 for scheduled and nonscheduled (charter) passenger services and cargo services. It also issued certificates under Section 418 of the Act to cargo air carriers for domestic all-cargo service only. The DOT Office

of the Secretary now issues the certificates under a "fit, willing, and able" test of air carrier operations. Carriers operating only 60 seat or less aircraft are given exemption authority to carry passengers, cargo, and mail in scheduled and non-scheduled service under Part 298 of the DOT (formerly CAB) regulations. Exemption authority carriers who offer scheduled passenger service to an essential air service point must meet the "fit, willing, and able" test.

**Vessel shipments, entrances, and clearances**—Shipments by dry cargo vessels comprise shipments on all types of watercraft, except tanker vessels; shipments by tanker vessels comprise all types of cargo, liquid and dry, carried by tanker vessels.

A vessel is reported as entered only at the first port which it enters in the United States, whether or not cargo is unloaded at that port. A vessel is reported as cleared only at the last port at which clearance is made to a foreign port, whether or not it takes on cargo. Army and Navy vessels entering or clearing without commercial cargo are not included in the figures.

**Units of measurement**—Cargo (or freight) tonnage and shipping weight both represent the gross weight of the cargo including the weight of containers, wrappings, crates, etc. However, shipping weight excludes lift and cargo vans and similar substantial outer containers. Other tonnage figures generally refer to stowing capacity of vessels, 100 cubic feet being called 1 ton. Gross tonnage comprises the space within the frames and the ceiling of the hull, together with those closed-in spaces above deck available for cargo, stores, passengers, or crew, with certain minor exceptions. Net or registered tonnage is the gross tonnage less the spaces occupied by the propelling machinery, fuel, crew quarters, master's cabin, and navigation spaces. Substantially, it represents space available for cargo and passengers. The net tonnage capacity of a ship may bear little relation to weight of cargo. Deadweight tonnage is the weight in long tons required to depress a vessel from light water line (that is, with only the machinery and equipment on board) to load line. It is, therefore, the weight of the cargo, fuel, etc., which a vessel is designed to carry with safety.

**Historical statistics**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

#### No. 1071. Airline Cost Indexes: 1970 to 1989

[Covers U.S. major and national service carriers. Major carriers have operating revenues of \$1 billion or more; nationals have operating revenues from \$75 million to \$1 billion. Minus sign (-) indicates decrease]

ITEM	INDEX (1972 = 100)									PERCENT DISTRIBUTION OF CASH OPERATING EXPENSES <sup>1</sup>			
	1970	1980	1983	1984	1985	1986	1987	1988	1989	1970	1980	1985	1989
<b>Composite</b> .....	<b>87.8</b>	<b>262.5</b>	<b>309.4</b>	<b>312.3</b>	<b>313.4</b>	<b>293.1</b>	<b>299.5</b>	<b>310.0</b>	<b>329.6</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Labor .....	82.9	211.4	268.6	269.7	277.8	272.1	276.3	286.6	295.4	45.8	35.1	34.9	33.8
Interest <sup>2</sup> .....	99.0	167.2	195.5	205.5	198.8	191.2	184.5	187.9	210.2	3.6	2.9	3.5	2.9
Fuel .....	94.3	770.3	762.0	729.2	689.6	473.6	479.2	457.7	515.4	12.8	29.7	22.3	14.9
Passenger food .....	97.4	153.6	168.9	174.0	167.0	167.7	173.3	182.3	199.9	3.9	2.9	3.2	3.6
Advertising and promotion .....	99.5	141.5	207.1	202.9	203.3	210.4	184.7	197.2	218.0	2.7	1.7	2.3	2.3
Landing fees .....	82.2	192.9	215.2	217.9	217.6	242.6	262.5	276.8	293.8	2.2	1.7	1.7	1.9
Passenger traffic commissions .....	80.2	322.8	445.3	487.4	491.4	499.9	540.8	619.0	679.0	2.6	4.8	7.4	9.7
All other .....	95.5	184.4	223.5	231.9	239.2	245.4	253.2	260.9	271.8	26.4	21.3	24.6	30.9
<b>AVERAGE ANNUAL PERCENT CHANGE <sup>3</sup></b> .....													
Labor .....	(NA)	9.8	7.6	0.4	3.0	-2.1	1.5	3.7	3.1	(X)	(X)	(X)	(X)
Interest <sup>2</sup> .....	(NA)	5.4	3.7	5.1	-3.3	-3.8	-3.5	1.8	11.9	(X)	(X)	(X)	(X)
Fuel .....	(NA)	23.4	-9.5	-4.3	-5.4	-31.3	1.2	-4.5	12.6	(X)	(X)	(X)	(X)
Passenger food .....	(NA)	4.7	3.7	3.0	-4.0	.4	3.3	5.2	9.7	(X)	(X)	(X)	(X)
Advertising and promotion .....	(NA)	3.6	1.7	-2.0	0.2	3.5	-12.2	6.8	10.5	(X)	(X)	(X)	(X)
Landing fees .....	(NA)	8.9	0.4	1.3	-0.1	11.5	8.2	5.4	6.1	(X)	(X)	(X)	(X)
Passenger traffic commissions .....	(NA)	14.9	6.7	9.5	0.8	1.7	8.2	14.5	9.7	(X)	(X)	(X)	(X)
All other .....	(NA)	6.8	3.9	3.8	3.2	2.6	3.2	3.0	4.2	(X)	(X)	(X)	(X)

NA Not available. X Not applicable. <sup>1</sup> Total operating expenses plus interest on long term debt, less depreciation and amortization. <sup>2</sup> Interest on debt. <sup>3</sup> Average change from prior year shown, see Guide to Tabular Presentation.

Source: Air Transport Association of America, Washington, DC, *Air Transport, 1989*, annual; and unpublished data.

No. 1072. Certificated Route Air Carriers—Summary: 1970 to 1989

[As of Dec. 31 or for calendar years. See text, section 22. Operations between conterminous U.S., Puerto Rico, and outlying areas included with international. Minus sign (-) indicates loss. See also *Historical Statistics, Colonial Times to 1970*, series Q 577-590 and Q 624-633]

ITEM	Unit	1970	1978	1980	1985	1986	1987	1988	1989
Domestic operations <sup>1</sup>	Number	35	34	72	86	74	68	66	62
Operating revenue	Mill. dol.	7,131	17,943	26,404	37,629	41,000	45,658	50,187	54,071
Operating expenses	Mill. dol.	7,128	16,948	26,409	36,611	39,934	43,925	47,739	52,260
Net operating income	Mill. dol.	3	995	-5	1,018	1,066	1,733	2,448	1,811
International operations	Number	6	2	(1)	(1)	(1)	(1)	(1)	(1)
Operating revenue	Mill. dol.	1,913	4,332	6,543	8,302	8,621	10,925	13,402	15,076
Operating expenses	Mill. dol.	1,894	4,008	6,766	7,984	8,458	10,226	12,403	15,019
Net operating income	Mill. dol.	19	324	-223	319	163	698	998	57
Employment, total <sup>2</sup>	1,000	297	329	371	355	422	457	481	507
Pilots, copilots, and other flight personnel	1,000	33	36	39	40	46	51	52	52
Flight attendants	1,000	34	48	57	63	68	73	76	78
Mechanics	1,000	48	44	45	43	48	51	55	57
Aircraft and traffic servicing personnel	1,000	84	96	122	101	180	199	212	225
Other	1,000	98	104	108	108	80	84	86	95
Fixed-wing aircraft in operation <sup>3</sup>	Number	2,421	2,345	2,505	2,860	3,799	4,231	4,439	4,477
Turbojet	Number	2,041	2,184	2,336	2,740	3,262	3,573	3,913	3,939
Two-engine	Number	519	579	652	1,235	1,494	1,722	1,944	2,052
Three-engine	Number	631	1,140	1,311	1,277	1,466	1,469	1,542	1,459
Four-engine	Number	891	465	371	228	322	382	427	428
Turboprop	Number	316	155	163	110	416	546	438	447
Piston	Number	64	6	6	10	101	112	88	91
Average available seats: <sup>4,5</sup>	Number	110.4	140	143.1	152.5	153.4	152.9	153.1	152.1
Domestic operations	Number	154.9	244.1	274.5	296.6	292.8	284.6	281.3	277.1
International operations	Number								
Average speed: <sup>5</sup>	MI. per hr.	403	409	405	409	409	413	409	407
Domestic operations	MI. per hr.	482	489	494	497	493	494	488	488
International operations	MI. per hr.								
Jet fuel consumed <sup>6</sup>	Mill. gal	10,083	10,534	11,311	12,603	13,682	14,461	15,094	15,624
Domestic operations	Mill. gal	7,842	8,621	9,218	10,115	11,137	11,557	11,902	12,087
International operations	Mill. gal	2,241	1,913	2,093	2,488	2,545	2,904	3,192	3,537
Revenue-miles flown <sup>5</sup>	Millions	2,426	2,520	2,816	3,320	3,725	3,988	4,141	4,193
Domestic operations	Millions	2,027	2,201	2,471	2,950	3,323	3,529	3,603	3,591
International operations	Millions	399	319	345	370	402	459	538	602
Revenue passengers enplaned <sup>5</sup>	Millions	169	275	297	382	419	448	455	453
Domestic operations	Millions	153	254	273	357	394	417	419	416
International operations	Millions	16	21	24	25	25	31	35	37
Revenue passenger-miles flown <sup>5</sup>	Billions	131.7	226.8	255.2	336.4	366.5	404.5	423.3	432.4
Domestic operations	Billions	104.1	182.7	200.8	270.6	302.1	324.6	329.3	330.0
International operations	Billions	27.6	44.1	54.4	65.8	64.5	79.8	94.0	102.7
Available seat-miles <sup>5</sup>	Billions	265.2	368.7	432.5	547.8	607.4	648.7	676.8	684.4
Domestic operations	Billions	213.2	299.5	346.0	445.8	498.0	527.0	536.7	530.1
International operations	Billions	52.0	69.2	86.5	102.0	109.4	121.8	140.1	154.3
Passenger load factor <sup>5</sup>	Percent	49.7	61.5	59.0	61.4	60.3	62.3	62.5	63.2
Domestic operations	Percent	48.9	61.0	58.0	60.7	60.7	61.8	61.4	62.3
International operations	Percent	53.0	63.7	62.8	64.6	58.9	65.6	67.1	66.6
Revenue passenger-miles per gallon of fuel	Number	13.1	21.5	22.6	26.7	26.8	28.0	28.0	27.7
Domestic operations	Number	13.3	21.2	21.8	26.8	27.1	28.1	27.7	27.3
International operations	Number	12.3	23.1	26.0	26.4	25.3	27.5	29.4	29.0
Average passenger-mile rate: <sup>5,7</sup>	Dollars	0.060	0.085	0.113	0.123	0.112	0.114	0.123	0.131
Domestic operations	Dollars	0.050	0.075	0.075	0.098	0.102	0.098	0.104	0.104
International operations	Dollars	3.515	5.818	5.742	6.020	7.344	8.260	9.632	10.275
Express and freight revenue, ton-miles flown <sup>5</sup>	Millions	2,216	3,505	3,277	3,133	3,990	4,339	4,843	4,916
Domestic operations	Millions	1,299	2,313	2,465	2,887	3,354	3,921	4,789	5,359
International operations	Millions	1,264	1,181	1,342	1,659	1,681	1,756	1,837	1,911
Mail, ton-miles flown <sup>5</sup>	Millions	715	807	949	1,214	1,247	1,313	1,367	1,415
Domestic operations	Millions	549	374	393	445	434	443	470	496
International operations	Millions								

<sup>1</sup> The Airline Deregulation Act of 1978 lifted some restrictions on entering new markets. As a result there is no longer a clear distinction between domestic and international operations. Includes all cargo. Carrier count as of end of year. Revenue and expense data exclude carriers which report system totals only. <sup>2</sup> Scheduled airlines only. Source: Air Transport Association of America, Washington, DC, *Air Transport Facts and Figures*, annual. <sup>3</sup> Excludes those used for crew training and general utility purposes, or held for disposal. Beginning 1980, includes aircraft operated by the scheduled all-cargo certificated route air carriers. Beginning in 1986 also includes large aircraft (passenger seating capacity of more than 30 or a payload of more than 7,500 pounds) operated by commuters and air taxis. <sup>4</sup> Seats per aircraft mile. Passenger seat-miles divided by revenue-miles flown in passenger service. <sup>5</sup> Scheduled services of all certificated route air carriers; includes all cargo. <sup>6</sup> Includes all cargo. Beginning 1980 includes very small amount of gasoline. Beginning 1987, excludes fuel consumption for airlines with a waiver for reporting. <sup>7</sup> Passenger revenues divided by revenue passenger-miles flown.

Source: Except as noted, U.S. Dept. of Transportation, Federal Aviation Administration and Research and Special Programs Administration, *Air Carrier Traffic Statistics*, monthly and *Air Carrier Financial Statistics*, quarterly. Includes data from U.S. National Transportation Safety Board.

**No. 1073. Aircraft in Operation and Aircraft Age, by Type of Aircraft: 1983 to 1989**

[As of January 1. For U.S. domestic and major services. Major carriers have operating revenue of \$1 billion or more; national carriers have operating revenues of \$75 million to \$1 billion]

TYPE OF AIRCRAFT	AIRCRAFT IN OPERATION				MEAN AGE (years) <sup>1</sup>			
	1983	1985	1987	1989	1983	1985	1987	1989
<b>Industry total</b> . . . . .	<b>2,360</b>	<b>2,790</b>	<b>2,816</b>	<b>3,190</b>	<b>10.5</b>	<b>10.8</b>	<b>11.8</b>	<b>12.0</b>
Majors . . . . .	1,953	2,185	2,386	2,850	10.9	11.6	12.0	12.2
Nationals . . . . .	407	605	430	340	8.4	8.0	10.6	10.6
Type of aircraft:								
Boeing 727 <sup>2</sup> . . . . .	1,001	996	993	956	10.5	12.0	13.9	15.5
Boeing 737 . . . . .	270	365	547	698	8.9	9.1	8.8	8.2
Boeing 747 . . . . .	130	136	124	136	10.9	11.8	15.0	15.8
Boeing 757 . . . . .	2	23	73	107	1.0	2.0	2.4	3.6
Boeing 767 . . . . .	14	54	61	111	1.0	2.6	3.9	4.3
Airbus A300/A310 . . . . .	30	134	59	76	3.4	1.9	5.7	5.3
Lockheed L-1011 <sup>2</sup> . . . . .	119	184	107	111	7.3	7.5	11.0	13.0
McDonnell Douglas DC-8 <sup>2</sup> . . . . .	98	72	52	40	15.8	17.2	18.8	20.9
McDonnell Douglas DC-9 <sup>2</sup> . . . . .	541	658	433	455	11.9	9.9	16.7	18.5
McDonnell Douglas DC-10 <sup>2</sup> . . . . .	155	168	161	159	9.1	9.8	12.5	14.6
McDonnell Douglas MD-80 . . . . .	(X)	(X)	206	341	(X)	(X)	3.1	3.9

X Not applicable. <sup>1</sup> For definition of mean, see Guide to Tabular Presentation. <sup>2</sup> No longer in production.

Source: AVMARK, Arlington, VA. Compiled from data by the U.S. Dept. of Transportation and Aviation Information Services Limited, London, England, *The World's Jet and Turboprop Airliner Fleet*.

**No. 1074. Net New Firm Orders Booked for U.S. Civil Jet Transport Aircraft: 1983 to 1989**

[Value in millions of dollars. Minus sign (-) indicates net cancellations]

TYPE OF AIRCRAFT AND CUSTOMER	1983	1984	1985	1986	1987	1988	1989
<b>Total number</b> <sup>1</sup> . . . . .	<b>158</b>	<b>319</b>	<b>468</b>	<b>332</b>	<b>519</b>	<b>956</b>	<b>1,015</b>
U.S. customers . . . . .	89	212	242	134	217	404	507
Foreign customers . . . . .	69	107	226	198	302	552	508
Boeing 737, total . . . . .	82	144	253	106	234	311	397
U.S. customers . . . . .	50	116	146	45	105	173	216
Foreign customers . . . . .	32	28	107	61	129	138	181
Boeing 747, total . . . . .	19	32	37	68	61	57	57
U.S. customers . . . . .	5	-	13	6	15	22	4
Foreign customers . . . . .	14	32	24	62	46	35	53
Boeing 757, total . . . . .	3	22	51	21	44	186	190
U.S. customers . . . . .	-1	21	39	11	18	101	137
Foreign customers . . . . .	4	1	12	10	26	85	53
Boeing 767, total . . . . .	9	12	10	22	42	87	138
U.S. customers . . . . .	-2	-6	4	3	11	32	40
Foreign customers . . . . .	11	18	6	19	31	55	98
McDonnell Douglas MD-11, total . . . . .	-	-	-	-	29	59	38
U.S. customers . . . . .	-	-	-	-	2	11	17
Foreign customers . . . . .	-	-	-	-	27	48	21
McDonnell Douglas MD-80, total . . . . .	44	97	114	112	105	254	195
U.S. customers . . . . .	37	75	37	68	65	65	93
Foreign customers . . . . .	7	22	77	44	40	189	102
<b>Total value</b> . . . . .	<b>4,258</b>	<b>9,624</b>	<b>14,811</b>	<b>13,948</b>	<b>18,737</b>	<b>39,806</b>	<b>47,470</b>
U.S. customers . . . . .	1,530	4,981	7,869	3,394	6,999	16,308	20,304
Foreign customers . . . . .	2,728	4,643	6,942	10,554	11,738	23,498	27,166

- Represents zero. <sup>1</sup> Includes types of aircraft not shown separately.

Source: Aerospace Industries Association of America, Washington, DC, Research Center, Statistical Series 23.

**No. 1075. Worldwide Airline Fatalities: 1970 to 1989**

[Passenger deaths for scheduled air transport operations]

YEAR	Aircraft fatal accidents	Passenger deaths	Death rate <sup>1</sup>	YEAR	Aircraft fatal accidents	Passenger deaths	Death rate <sup>1</sup>
1970 . . . . .	29	700	0.29	1980 . . . . .	22	814	0.14
1971 . . . . .	32	884	0.35	1981 . . . . .	21	362	0.06
1972 . . . . .	41	1,209	0.42	1982 . . . . .	26	764	0.13
1973 . . . . .	29	862	0.27	1983 . . . . .	20	809	0.13
1974 . . . . .	21	1,299	0.38	1984 . . . . .	16	223	0.03
1975 . . . . .	20	467	0.13	1985 . . . . .	22	1,066	0.15
1976 . . . . .	24	734	0.19	1986 <sup>2</sup> . . . . .	22	546	0.06
1977 . . . . .	25	516	0.12	1987 <sup>2</sup> . . . . .	26	901	0.09
1978 . . . . .	31	754	0.15	1988 <sup>2</sup> . . . . .	28	729	0.07
1979 . . . . .	31	877	0.16	1989 <sup>2</sup> . . . . .	28	825	0.08

<sup>1</sup> Rate per 100 million passenger miles flown. <sup>2</sup> Includes USSR which began reporting in 1986. <sup>3</sup> Preliminary.

Source: International Civil Aviation Organization, Montreal, Canada, *Civil Aviation Statistics of the World*, annual.



## No. 1076. Aircraft Accidents and Hijackings: 1975 to 1989

[For years ending December 31]

ITEM	Unit	1975	1980	1984	1985	1986	1987	1988	1989
Aircraft accidents: <sup>1</sup>									
General aviation <sup>2</sup>	Number	3,995	3,590	3,011	2,741	2,580	2,468	2,363	2,167
Fatal	Number	633	618	543	497	473	433	449	420
Rate per 100,000 aircraft hours flown	Rate	2.20	1.69	1.72	1.62	1.61	1.48	1.52	1.40
Fatalities	Number	1,252	1,239	1,039	950	961	811	781	763
Air carrier, all services <sup>3</sup>	Number	(NA)	19	16	22	23	38	32	28
Fatal	Number	(NA)	1	1	7	2	5	3	11
Rate per 1,000,000 aircraft miles flown	Rate	(X)	-	-	0.002	-	0.001	-	0.002
Fatalities	Number	(NA)	1	4	526	4	232	285	278
Air carrier, scheduled services	Number	29	15	13	17	20	32	31	24
Fatal	Number	2	-	1	4	1	4	3	8
Rate per 1,000,000 aircraft miles flown	Rate	0.001	-	0.003	0.001	0.002	0.001	0.001	0.002
Fatalities	Number	122	-	4	197	4	231	285	131
Commuter air carriers <sup>4</sup>	Number	48	38	22	21	15	32	19	18
Fatal	Number	12	8	7	7	2	10	2	5
Rate per 1,000,000 aircraft miles flown	Rate	0.07	0.04	0.02	0.02	0.01	0.03	0.01	0.01
Fatalities	Number	28	37	48	37	4	59	21	31
Air taxis <sup>5</sup>	Number	152	171	146	152	116	98	98	110
Fatal	Number	24	46	23	35	31	30	27	23
Rate per 100,000 aircraft hours flown	Rate	0.95	1.27	0.75	1.26	1.06	1.04	0.95	0.80
Fatalities	Number	69	105	52	76	65	65	58	80
Hijacking incidents, worldwide	Number	25	39	24	35	12	15	17	24
U.S. registered aircraft	Number	12	21	3	4	4	4	3	6
Successful <sup>6</sup>	Number	4	13	2	2	-	-	-	-
Foreign-registered aircraft	Number	13	18	21	31	8	11	14	18
Successful <sup>6</sup>	Number	3	9	16	18	2	5	-	-
Bomb threats:									
U.S. airports	Number	449	268	139	256	238	376	178	487
Explosions	Number	4	1	-	-	-	-	-	-
U.S. worldwide and foreign aircraft in U.S.	Number	1,853	1,179	465	372	401	898	372	479
Explosions	Number	2	1	3	1	1	1	1	2

- Represents or rounds to zero. NA Not available. X Not applicable. <sup>1</sup> Data from National Transportation Safety Board. <sup>2</sup> See text, section 22. <sup>3</sup> U.S. Air Carriers operating under 14 CFR 121. <sup>4</sup> All scheduled service of U.S. Air Carriers operating under 14 CFR 135. <sup>5</sup> All nonscheduled service of U.S. Air Carriers operating under 14 CFR 135. <sup>6</sup> Hijacker controls flight and reaches destination or objective.Source: U.S. Federal Aviation Administration, *FAA Statistical Handbook of Aviation*, annual; and unpublished data. Includes data from U.S. Department of Transportation, Research and Special Programs Administration.

## No. 1077. Top 30 Airports—Traffic Summary: 1989

[In thousands, except percent change. For calendar year. Airports ranked by revenue passengers enplaned, 1989]

AIRPORT	Rank	AIRCRAFT DEPARTURES			REVENUE PASSENGERS ENPLANED		ENPLANED REVENUE TONS		
		Total <sup>1</sup>	Scheduled		Total	Percent change 1980-1989	Total <sup>2</sup>	Freight and express	U.S. mail
			Number	Completed					
<b>All airports <sup>3</sup></b>	(X)	<b>6,648.3</b>	<b>6,804.1</b>	<b>6,586.0</b>	<b>455,263.1</b>	<b>53.4</b>	<b>6,205.0</b>	<b>6,573.7</b>	<b>1,612.0</b>
Atlanta, Hartsfield International	3	235.1	246.4	234.3	20,397.7	2.0	220.5	127.5	93.0
Baltimore/Washington Intl.	28	74.2	76.1	73.3	4,446.1	169.7	37.2	17.3	19.8
Boston, Logan International	12	108.7	110.3	106.5	9,661.3	41.1	141.3	110.9	30.3
Charlotte, Douglas	22	113.8	117.5	113.6	6,903.5	366.4	51.2	34.8	16.4
Chicago, O'Hare	1	317.1	327.5	316.2	25,664.3	33.5	444.2	307.7	136.5
Dallas/Ft. Worth International	2	254.3	257.8	253.4	22,623.1	116.8	217.0	140.1	76.9
Denver, Stapleton International	6	163.4	165.6	162.6	12,320.2	28.1	112.9	70.4	42.5
Detroit, Metro Wayne	11	133.0	136.5	132.3	9,739.3	93.8	74.0	39.8	34.2
Honolulu, International	14	88.6	95.2	84.9	8,943.5	58.2	216.6	186.2	30.4
Houston Intercontinental	20	100.7	102.1	100.2	7,030.0	40.6	80.4	57.6	22.8
Kansas City International	30	66.9	67.9	66.2	4,357.0	66.3	30.6	14.9	15.8
Las Vegas, McCarran Intl.	21	85.8	85.7	84.8	7,026.9	51.8	21.5	11.8	9.8
Los Angeles International	4	202.5	206.0	200.5	18,553.3	31.3	436.6	372.7	63.9
Miami International	15	92.3	94.4	90.0	8,591.9	6.0	232.3	208.9	23.3
Minneapolis/St. Paul International	16	112.8	115.4	112.3	8,460.1	92.9	106.6	65.3	41.3
Newark International	10	129.7	132.3	128.0	9,822.5	133.5	171.5	138.0	33.5
New York, Kennedy International	9	76.3	78.1	75.7	10,061.5	10.5	296.8	227.7	68.6
New York, LaGuardia	7	124.2	126.0	120.8	10,839.8	29.0	65.5	22.2	43.4
Orlando International	18	85.4	86.3	84.0	7,373.4	136.0	41.1	29.5	11.6
Philadelphia International	24	82.9	85.6	82.2	6,247.5	54.0	67.1	45.0	42.1
Phoenix, Sky Harbor International	8	141.1	141.7	140.2	10,166.1	200.8	60.9	42.7	18.2
Pittsburgh, Greater International	17	121.2	123.4	120.4	7,941.0	47.6	44.7	19.0	25.7
St. Louis, Lambert	13	138.6	141.4	137.9	9,396.3	76.6	94.5	46.8	47.7
Salt Lake City International	26	76.1	76.6	76.5	5,244.2	162.6	52.5	35.2	7.9
San Diego Intl., Lindbergh	25	70.7	72.0	70.6	5,317.2	109.6	25.6	17.7	7.3
San Francisco International	5	167.6	172.4	166.7	13,326.1	41.7	245.2	192.6	52.6
Seattle-Tacoma International	19	115.5	118.2	114.5	7,059.8	62.2	137.3	105.3	31.9
Tampa International	29	59.1	60.8	58.7	4,409.3	22.5	36.5	20.6	15.9
Washington Dulles International	27	76.5	79.0	76.1	4,543.5	310.1	81.9	55.7	26.1
Washington National	23	92.0	94.3	90.3	6,895.6	3.7	41.8	8.0	33.8

X Not applicable. <sup>1</sup> Includes completed scheduled and unscheduled. <sup>2</sup> Includes foreign mail, not shown separately.<sup>3</sup> Includes other airports, not shown separately.Source: U.S. Federal Aviation Administration and Research and Special Programs Administration, *Airport Activity Statistics*, annual.

**No. 1078. On-Time Flight Arrivals and Departures at Major U.S. Airports: 1989 and 1990**

[In percent. Quarterly, based on gate arrival and departure times for domestic scheduled operations of major U.S. airlines, per DOT reporting rule effective September 1987. All U.S. airlines with one percent or more of total U.S. domestic scheduled airline passenger revenues are required to report on-time data. A flight is considered on time if it operated less than 15 minutes after the scheduled time shown in the carrier's computerized reservation system. Cancelled and diverted flights are considered late. Excludes flight operations delayed/cancelled due to aircraft mechanical problems reported on FAA maintenance records (4-5% of the reporting airlines' scheduled operations). See source for data on individual airlines]

AIRPORT	ON-TIME ARRIVALS						ON-TIME DEPARTURES					
	1989				1990		1989				1990	
	1st qtr.	2d qtr.	3d qtr.	4th qtr.	1st qtr.	2d qtr.	1st qtr.	2d qtr.	3d qtr.	4th qtr.	1st qtr.	2d qtr.
Total, all airports . . . . .	73.9	78.3	77.0	75.9	75.9	81.0	80.6	84.9	83.7	81.8	81.9	88.2
<b>Total, 30 major airports . . . . .</b>	<b>72.8</b>	<b>77.4</b>	<b>75.7</b>	<b>74.9</b>	<b>74.8</b>	<b>80.0</b>	<b>79.0</b>	<b>83.4</b>	<b>81.5</b>	<b>80.1</b>	<b>80.2</b>	<b>87.0</b>
Atlanta, Hartsfield International . . . . .	79.9	80.7	79.2	78.8	69.8	83.3	85.2	85.9	85.2	83.2	76.5	88.6
Baltimore/Washington International . . . . .	72.4	71.4	69.6	71.9	77.5	83.4	74.6	74.3	73.6	76.1	82.9	89.2
Boston, Logan International . . . . .	79.4	75.6	70.2	72.5	68.1	78.2	83.0	81.7	77.2	77.9	75.8	87.1
Charlotte, Douglas . . . . .	67.5	70.4	66.0	71.4	78.7	87.9	68.0	69.8	65.9	71.5	80.2	90.6
Chicago, O'Hare . . . . .	60.8	70.4	67.1	72.0	69.2	74.7	68.7	77.4	73.2	76.2	74.2	82.1
Dallas/Ft. Worth International . . . . .	72.5	80.3	86.0	84.4	74.8	78.1	76.4	84.5	89.8	87.1	78.3	85.1
Detroit, Metro Wayne . . . . .	69.0	79.3	81.2	77.8	72.1	76.8	76.1	85.8	84.5	83.0	77.5	85.0
Dulles International . . . . .	79.8	81.4	73.8	76.2	75.6	84.4	84.9	86.0	82.5	81.9	80.1	89.7
Houston Intercontinental . . . . .	76.5	80.4	76.8	82.2	83.0	85.4	81.2	84.0	82.4	84.7	85.5	89.4
Kansas City International . . . . .	77.8	81.6	86.1	77.8	73.5	79.9	83.2	86.9	89.2	84.1	82.7	87.4
Las Vegas, McCarran International . . . . .	73.6	79.4	76.3	75.3	76.6	79.8	82.4	87.2	85.6	82.1	83.6	86.5
Los Angeles International . . . . .	78.1	85.3	84.6	79.6	80.9	85.5	84.5	91.4	90.1	85.6	85.6	91.3
Memphis International . . . . .	73.1	77.7	75.3	75.1	78.4	78.1	82.3	85.6	80.9	80.5	84.1	86.0
Miami International . . . . .	80.6	84.6	79.8	80.4	84.8	89.1	85.9	88.7	86.8	86.0	86.1	91.0
Minneapolis/St. Paul International . . . . .	75.3	73.0	72.2	73.9	75.8	84.3	80.7	81.2	80.8	82.6	82.9	86.9
Newark International . . . . .	77.9	83.8	79.5	77.4	81.4	79.7	81.6	88.0	85.6	82.4	83.1	85.4
New York, Kennedy International . . . . .	73.1	71.3	67.5	71.6	71.8	74.3	78.1	79.3	76.8	78.5	80.0	85.0
New York, LaGuardia . . . . .	72.1	71.3	68.9	72.1	73.3	75.3	76.4	74.2	70.6	73.8	79.3	81.2
Orlando International . . . . .	73.5	69.3	64.6	67.0	68.4	76.7	82.3	80.9	77.2	75.5	77.8	85.3
Philadelphia International . . . . .	75.0	76.8	74.4	72.9	73.2	81.3	83.2	85.6	85.3	84.6	83.5	90.7
Phoenix, Sky Harbor International . . . . .	72.9	76.3	70.5	67.6	70.0	75.9	80.1	82.6	77.1	71.4	75.7	84.3
Pittsburgh, Greater International . . . . .	74.2	84.4	84.2	72.5	77.7	84.5	77.6	87.3	88.0	78.0	79.9	88.4
St. Louis, Lambert . . . . .	76.8	78.2	72.4	67.9	76.7	83.0	79.2	80.2	70.8	66.4	76.7	85.9
Salt Lake City International . . . . .	70.0	81.5	82.8	81.2	80.7	81.3	74.8	85.9	86.7	82.4	83.5	85.6
San Diego International, Lindbergh . . . . .	72.6	83.9	84.8	80.5	80.4	84.5	79.6	90.7	89.6	85.4	84.7	91.6
San Francisco International . . . . .	71.9	79.7	77.2	74.4	75.7	79.0	80.1	85.4	81.2	80.2	82.9	87.5
Seattle-Tacoma International . . . . .	61.6	70.3	66.2	65.4	73.8	69.6	75.9	82.3	77.8	78.0	82.5	84.0
Tampa International . . . . .	70.4	77.2	75.4	67.6	69.9	74.3	81.1	87.4	82.0	79.6	82.0	86.9
Washington National . . . . .	75.0	77.0	74.6	72.7	74.6	82.3	83.3	84.4	84.8	83.7	84.4	91.0
	76.6	75.3	74.6	75.4	79.4	83.5	85.8	84.2	83.6	80.2	84.2	89.1

Source: U.S. Department of Transportation, Office of Consumer Affairs, *Air Travel Consumer Report*, monthly.

**No. 1079. Consumer Complaints Against U.S. Airlines: 1987 to 1990**

[Calendar year data, except as indicated. See source for data on individual airlines]

COMPLAINT CATEGORY	COMPLAINTS				PERCENT DISTRIBUTION				RANK			
	1987	1988	1989	1990, Jan.-June	1987	1988	1989	1990, Jan.-June	1987	1988	1989	1990, Jan.-June
<b>Total . . . . .</b>	<b>40,985</b>	<b>21,493</b>	<b>10,553</b>	<b>4,353</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>(X)</b>	<b>(X)</b>	<b>(X)</b>	<b>(X)</b>
Flight problems <sup>1</sup> . . . . .	18,019	8,831	4,111	1,787	44.0	41.1	39.0	41.1	1	1	1	1
Baggage . . . . .	7,438	3,938	1,702	767	18.1	18.3	16.1	17.6	2	2	2	2
Customer service <sup>2</sup> . . . . .	3,888	2,120	1,002	376	9.5	9.9	9.5	8.6	3	3	4	3
Refunds . . . . .	3,313	1,667	1,023	445	8.1	7.8	9.7	10.2	4	4	3	4
Oversales . . . . .	2,122	1,353	607	235	5.2	6.3	5.8	5.4	6	6	6	6
Reservations/ticketing/boarding <sup>3</sup> . . . . .	2,458	1,445	821	297	6.0	6.7	7.8	6.8	5	5	5	5
Smoking . . . . .	888	546	232	47	2.2	2.5	2.2	1.1	8	7	8	9
Fares <sup>4</sup> . . . . .	937	455	341	157	2.3	2.1	3.2	3.6	7	8	7	7
Advertising . . . . .	344	141	89	50	0.8	0.7	0.8	1.1	9	9	9	8
Credit . . . . .	101	35	19	2	0.2	0.2	0.2	0.2	10	11	11	11
Tours . . . . .	90	37	22	9	0.2	0.2	0.2	0.2	11	10	10	10
Other . . . . .	1,387	925	584	181	3.4	4.3	5.5	4.2	(X)	(X)	(X)	(X)

<sup>1</sup> - Represents zero. <sup>2</sup> X Not applicable. <sup>3</sup> Unhelpful employees, inadequate meals or cabin service, treatment of delayed. <sup>4</sup> problems, whether or not airline complied with DOT regulations. <sup>5</sup> Errors in reservations and obtaining tickets. <sup>6</sup> Incorrect or incomplete information about fares, discount etc.

Source: U.S. Dept. of Transportation, Office of Consumer Affairs, *Air Travel Consumer Report*, monthly.

**No. 1080. Commuter/Regional Airline Operations—Summary: 1980 to 1989**

[Calendar year data. Commuter/regional airlines operate primarily aircraft of predominately 60 passengers or less and 18,000 pounds of payload capacity serving short haul and small community markets. Represents operations within all North America by U.S. Regional Carriers. Averages are mean. For definition of mean, see Guide to Tabular Presentation]

ITEM	Unit	1980	1982	1983	1984	1985	1986	1987	1988	1989
Passenger carriers operating	Number	214	215	196	203	179	179	169	163	151
Passengers enplaned	Millions	14.8	18.6	21.8	26.1	26.0	28.4	31.8	35.2	37.4
Average passengers enplaned per carrier	1,000	69.2	86.5	111.2	128.1	152.4	158.4	187.7	213.9	247.4
Revenue passenger miles (RPM)	Billions	1.92	2.61	3.24	4.17	4.41	4.47	5.0	6.04	6.77
Average RPMs per carrier	Millions	8.97	12.14	16.53	20.46	24.64	24.98	29.60	37.05	44.84
Airports served	Number	732	817	854	853	854	824	834	861	817
Average trip length	Miles	129	141	149	160	173	158	158	173	181
Passenger aircraft operated	Number	1,339	1,573	1,545	1,747	1,745	1,806	1,841	1,801	1,907
Average seating capacity (seats)	Number	13.9	15.6	18.1	18.4	19.2	18.4	19.7	20.5	21.8
Fleet flying hours	1,000	1,740	2,180	2,415	2,764	2,854	2,929	2,942	3,078	3,266
Average annual utilization aircraft	Hours	1,299	1,373	1,563	1,582	1,635	1,622	1,598	1,709	1,712

<sup>1</sup> Adjusted to exclude a merger in 1986.

Source: Regional Airline Association, Washington, DC, 1990 Annual Report of the Regional Airline Industry (copyright).

**No. 1081. Civil Flying—Summary: 1970 to 1989**

[As of Dec. 31 or for years ending Dec. 31, except as noted. See also Historical Statistics, Colonial Times to 1970, series Q 604-623]

ITEM	Unit	1970	1980	1983	1984	1985	1986	1987	1988	1989
Airports in operation <sup>1</sup>	Number	11,261	15,161	16,029	16,075	16,318	16,582	17,015	17,327	17,446
Heliports	Number	790	2,336	2,918	2,980	3,120	3,336	3,853	3,913	4,016
Public	Number	4,260	4,814	4,812	4,806	5,861	4,924	4,984	5,043	5,084
Private	Number	7,001	10,347	11,217	11,269	10,457	11,658	12,031	12,284	12,362
Airports with runway lights	Number	3,554	4,738	4,878	4,889	4,941	4,954	4,922	4,890	4,443
Airports with paved runways	Number	3,805	5,833	5,441	5,528	6,721	6,948	7,232	7,429	4,306
Miles (nautical) of Federal airways	1,000	324.7	411.1	364.4	364.8	368.5	332.0	332.8	334.8	368.6
Airport Improvement Program <sup>2</sup>	Mil. dol.	50.5	639.0	321.5	793.3	842.1	1,615.3	918.4	1,278.3	1,271.2
Total civil aircraft <sup>3</sup>	1,000	154.5	259.4	264.9	271.5	274.9	275.7	275.1	272.7	274.8
Active aircraft	1,000	134.5	214.8	217.5	225.3	215.4	224.9	222.4	215.9	(NA)
Air carriers, total <sup>4</sup>	1,000	2.8	3.8	4.2	4.4	4.7	4.9	5.2	5.6	5.7
General aviation aircraft <sup>5</sup>	1,000	131.7	211.0	213.3	220.9	210.7	220.0	217.2	210.3	(NA)
Fixed-wing aircraft:										
Multi-engine:	1,000	18.4	31.7	34.5	35.6	33.6	34.3	33.0	32.2	(NA)
Single-engine:										
4-place and over	1,000	64.6	107.9	107.2	109.9	105.6	109.4	107.5	105.2	(NA)
3-place and less	1,000	44.9	60.5	59.2	62.0	58.8	62.4	63.5	59.6	(NA)
Rotorcraft <sup>6</sup>	1,000	2.2	6.0	6.5	7.1	6.4	6.9	6.3	6.4	(NA)
Balloons, blimps, gliders, etc.	1,000	1.6	5.0	5.9	6.3	6.3	7.0	6.8	6.9	(NA)
Airman certificates held	1,000	1,002	1,195	1,131	1,149	1,105	1,119	1,128	1,143	1,168
Pilot <sup>7</sup>	1,000	733	827	718	722	710	709	700	694	700
Held by women	Percent	4.0	6.4	6.1	6.1	6.1	6.1	6.1	6.1	6.1
Airline transport	1,000	34	70	75	79	83	87	91	97	102
Commercial	1,000	187	183	159	155	152	148	144	143	145
Private	1,000	304	357	319	320	311	306	301	300	293
Student	1,000	196	200	147	150	147	150	146	137	143
Nonpilot <sup>8</sup>	1,000	269	368	413	427	395	410	428	449	468
Ground technicians <sup>9</sup>	1,000	241	321	365	376	341	353	367	385	401
FAA employees: Total	Number	(NA)	55,340	46,993	47,178	47,245	46,809	47,907	49,210	50,977
Air traffic control specialists <sup>10</sup>	Number	(NA)	27,190	22,638	23,234	23,580	23,515	24,132	24,803	24,368
Full performance <sup>11</sup>	Number	(NA)	16,317	15,458	11,031	11,672	12,533	11,617	12,180	12,640
Developmental <sup>11</sup>	Number	(NA)	4,387	15,458	4,848	4,304	3,976	5,462	5,495	5,574
Assistants <sup>11</sup>	Number	(X)	(X)	1,367	1,475	1,465	1,479	1,481	1,283	1,316
Traffic management coordinators <sup>12</sup>	Number	(X)	(X)	(X)	(X)	(X)	(X)	278	347	350
Electronic technicians	Number	(NA)	8,871	7,633	7,229	6,856	6,600	6,788	6,627	6,508
Aviation safety inspectors	Number	(NA)	2,038	1,805	1,945	1,897	2,204	2,350	2,499	2,766
Engineers	Number	(NA)	2,436	2,313	2,419	2,457	2,417	2,579	2,640	2,657
Other	Number	(NA)	14,805	12,604	12,351	12,455	12,073	12,058	12,641	14,678
General aviation: <sup>5</sup>										
Hours flown	Million	26.0	41.0	35.2	36.1	34.1	34.4	33.4	33.6	35.0
Fuel consumed: <sup>13</sup>										
Gasoline	Mil. gal.	362	520	428	462	420	410	402	398	(NA)
Jet fuel <sup>14</sup>	Mil. gal.	415	766	613	739	691	732	672	746	(NA)

NA Not available. X Not applicable. <sup>1</sup> Existing airports, heliports, seaplane bases, etc. recorded with FAA. Includes military airports with joint civil and military use. Includes U.S. outlying areas. Airport-type definitions: Public—publicly owned and under control of a public agency; private—owned by a private individual or corporation. May or may not be open for public use.

<sup>2</sup> Fiscal year data. Does not include System Planning Grants. Includes U.S. outlying areas. 1970-1980 data are obligated Federal funds for the Airport Development Aid Program. 1983-1989 data are appropriated Federal funds under the Airport and Airway Improvement Act of 1982. <sup>3</sup> Registered aircraft that flew 1 or more hours during the year. <sup>4</sup> Includes helicopters. <sup>5</sup> See text, section 22. <sup>6</sup> Includes autogyros; excludes air carrier helicopters. <sup>7</sup> Includes all active pilots. An active pilot is one with a pilot certificate and a valid medical certificate. Also includes pilots who hold only a helicopter, glider, or lighter than air certificate, not shown separately. <sup>8</sup> Includes dispatchers, flight navigators and engineers, and ground technicians—mechanics, parachute riggers, and ground instructors. <sup>9</sup> No medical examinations are required, therefore, data represent all certificates on record and include retired or otherwise inactive technicians. <sup>10</sup> Includes all air traffic control specialists (staff positions, managers, supervisors, and for 1970-1986 traffic management coordinators, not shown separately) and air traffic assistants. <sup>11</sup> Serving in-flight service stations, towers, and centers. <sup>12</sup> Prior to 1987, included in total air traffic control specialists. <sup>13</sup> Source: 1970, U.S. Bureau of Mines; thereafter, FAA General Aviation Activity and Avionics Survey. <sup>14</sup> Includes kerosene-type and naphtha-type jet fuels.

Source: Except as noted, U.S. Federal Aviation Administration, FAA Statistical Handbook of Aviation, annual; and unpublished data. Includes data from U.S. Department of Transportation, Research and Special Programs Administration.

**No. 1082. U.S. Aircraft Shipments, 1970 to 1990, and Projections, 1991**

(Value in millions of dollars)

YEAR	TOTAL		CIVIL						MILITARY	
	Units	Value	Large transports <sup>1</sup>		General Aviation <sup>2</sup>		Helicopters		Units	Value
			Units	Value	Units	Value	Units	Value		
1970	11,632	7,511	311	3,158	7,292	337	495	49	3,534	3,987
1975	16,918	9,355	285	4,006	14,056	1,033	838	266	1,739	4,050
1980	14,660	18,845	383	9,793	11,877	2,486	1,353	674	1,047	5,892
1981	11,860	20,157	388	9,731	9,457	2,920	953	636	1,062	6,870
1982	6,248	19,266	236	6,254	4,266	2,000	587	365	1,159	10,647
1983	4,409	23,012	262	8,493	2,691	1,470	403	303	1,053	12,746
1984	3,931	22,570	188	6,343	2,431	1,681	378	330	936	14,216
1985	3,597	28,988	273	9,051	2,029	1,431	376	505	919	18,001
1986	3,261	35,145	329	10,643	1,495	1,262	330	288	1,107	22,952
1987	3,003	36,008	361	10,585	1,085	1,364	358	277	1,199	23,782
1988	3,133	34,640	422	13,588	1,143	1,918	383	334	1,185	18,800
1989	3,471	30,902	398	15,074	1,535	1,804	515	251	1,023	13,773
1990 <sup>3</sup>	3,215	39,794	524	23,200	1,118	1,921	590	200	983	14,473
1991 <sup>4</sup>	3,211	43,455	610	27,555	1,200	2,075	600	204	801	13,621

<sup>1</sup> Capacity over 70 seats. <sup>2</sup> Includes aircraft kits for exports. <sup>3</sup> Estimated. <sup>4</sup> Forecast.Source: U.S. Department of Commerce, International Trade Administration, *U.S. Industrial Outlook, 1991*.**No. 1083. Employment and Earnings in Aircraft Industries: 1975 to 1989**

(Annual averages of monthly figures)

1987 SIC <sup>1</sup> code	ITEM	Unit	1975	1980	1984	1985	1986	1987	1988	1989
(X)	Employment: Total	1,000	596	746	729	794	856	883	893	907
3721	Aircraft	1,000	293	349	306	326	339	356	369	383
3724	Aircraft engines and engine parts	1,000	126	163	140	148	154	158	156	155
3728	Aircraft equipment, n.e.c. <sup>2</sup>	1,000	84	123	129	143	163	163	160	174
376	Guided missiles, space vehicles, and parts	1,000	93	111	154	177	200	208	208	195
(X)	Average weekly earnings: <sup>3</sup>									
3721	Aircraft	Dollars	256	404	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3724	Aircraft engines and parts	Dollars	247	394	523	542	561	567	582	616
376	Guided missiles, space vehicles, and parts	Dollars	245	378	496	518	517	541	567	589
(X)	Average hourly earnings: <sup>3</sup>									
3721	Aircraft	Dollars	6.21	9.66	12.91	13.18	13.48	13.74	14.18	14.89
3724	Aircraft engines and parts	Dollars	6.04	9.42	12.40	12.85	13.08	13.33	13.80	14.42
376	Guided missiles, space vehicles, and parts	Dollars	6.02	9.22	11.82	12.14	12.20	12.73	13.13	13.70

NA Not available. X Not applicable. <sup>1</sup> 1987 Standard Industrial Classification; see text, section 13. <sup>2</sup> N.e.c.—Not elsewhere classified. <sup>3</sup> For production workers. <sup>4</sup> Excludes lump-sum payments. Earnings which include proration of lump-sum payments were \$13.11 in 1984; \$13.40 in 1985; \$13.80 in 1986; \$14.32 in 1987; \$14.65 in 1988; and \$15.41 in 1989.Source: U.S. Bureau of Labor Statistics, Bulletin 2370 and *Employment and Earnings*, monthly.**No. 1084. Aerospace Industry—Summary, 1980 to 1990, and Projections, 1991**

[For calendar year, except employment and earnings annual averages of monthly figures. Includes Standard Industrial Classification Codes 372 and 376. Industry shipments refer to the total value of all products shipped by establishments classified in that industry. Product shipments refer to the total value of specific products shipped, irrespective of how the establishments which made them are classified]

ITEM	Unit	1980	1983	1984	1985	1986	1987	1988	1989	1990 <sup>1</sup>	1991 <sup>2</sup>
INDUSTRY DATA											
Value of shipments	Mil. dol.	58,483	74,823	77,826	90,795	100,999	103,563	108,678	101,971	119,820	127,642
In 1987 dollars	Mil. dol.	(NA)	(NA)	(NA)	(NA)	(NA)	103,563	111,565	101,864	114,981	119,137
Employment, total	1,000	721	690	693	746	798	809	832	831	814	807
Production workers	1,000	367	341	344	372	400	407	399	397	393	389
Average hourly earnings	Dol.	9.90	13.08	13.24	13.88	14.37	14.92	15.00	(NA)	(NA)	(NA)
Capital expenditures	Mil. dol.	1,923	2,158	3,050	3,784	4,144	3,611	3,401	(NA)	(NA)	(NA)
PRODUCT DATA											
Value of shipments	Mil. dol.	53,296	66,229	70,200	80,625	90,907	97,169	102,620	95,652	112,989	116,232
In 1987 dollars	Mil. dol.	(NA)	(NA)	(NA)	(NA)	(NA)	97,169	105,405	93,846	108,365	108,467

NA Not available. <sup>1</sup> Estimated. <sup>2</sup> Forecast.Source: U.S. Department of Commerce, International Trade Administration, *U.S. Industrial Outlook, 1991*.

**No. 1085. Aerospace—Sales, New Orders, and Backlog: 1970 to 1989**

[In billions of dollars, except as indicated. Reported by establishments in which the principal business is the development and/or production of aerospace products]

ITEM	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989 <sup>1</sup>
Net sales	24.8	29.5	58.4	75.5	83.5	88.9	100.5	105.6	110.3	113.5	121.2
Percent of U.S. Government	66.3	58.7	45.6	55.9	58.8	62.7	63.2	61.9	62.2	60.0	59.0
Complete aircraft and parts <sup>2</sup>	10.4	11.3	22.6	23.2	27.3	28.3	34.2	38.0	37.0	35.7	37.9
Aircraft engines and parts	3.1	3.4	6.9	8.7	8.6	9.1	9.7	9.8	12.0	15.0	15.4
Missiles and space vehicles, parts	5.4	6.3	8.4	5.7	12.7	13.6	16.7	17.5	20.7	21.5	22.6
Other products, services	5.9	8.5	20.5	37.9	34.8	38.0	39.8	40.3	40.5	41.3	45.2
Net, new orders	21.2	29.0	70.4	84.9	91.6	104.9	111.0	110.8	121.2	147.1	176.5
Backlog, Dec. 31	24.7	35.0	90.5	103.5	116.6	132.5	143.0	148.2	158.7	191.5	246.8

<sup>1</sup> Data for 1989 are not comparable with earlier years. Data are being reported for 1989 which were previously not available. The extent of this noncomparability is not known. <sup>2</sup> Except engines sold separately.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA-37D.

**No. 1086. Aerospace Industry Sales, by Product Group and Customer: 1975 to 1991**

[In billions of dollars. Due to reporting practices and tabulating methods, figures may differ from those in table 1085]

ITEM	CURRENT DOLLARS						CONSTANT (1982) DOLLARS <sup>3</sup>					
	1975	1980	1985	1989	1990 <sup>1</sup>	1991 <sup>2</sup>	1975	1980	1985	1989	1990 <sup>1</sup>	1991 <sup>2</sup>
<b>Total sales</b>	<b>29.7</b>	<b>54.7</b>	<b>96.6</b>	<b>117.6</b>	<b>131.4</b>	<b>133.1</b>	<b>56.0</b>	<b>68.1</b>	<b>86.6</b>	<b>101.0</b>	<b>106.3</b>	<b>102.6</b>
<b>PRODUCT GROUP</b>												
Aircraft, total	16.4	31.5	50.5	61.0	69.7	70.2	31.0	39.2	45.3	53.7	56.4	54.1
Civil	6.5	16.3	13.7	22.1	31.4	38.1	12.2	20.3	12.3	16.8	25.4	29.3
Military	10.0	15.2	36.8	38.9	38.3	32.1	18.8	18.9	33.0	36.9	31.0	24.8
Missiles	3.8	6.5	11.4	11.2	10.6	10.1	7.1	8.1	10.3	9.1	8.6	7.8
Space	4.7	7.9	18.6	25.8	29.2	30.6	8.8	9.9	16.6	21.4	23.6	23.5
Related products and services <sup>5</sup>	4.8	8.8	16.1	19.6	21.9	22.2	9.0	11.0	14.4	16.8	17.7	17.1
<b>CUSTOMER GROUP</b>												
Aerospace, total	24.9	45.9	80.5	98	109.5	110.9	47.0	57.1	72.2	84.2	88.6	85.5
DOD <sup>6</sup>	13.1	22.8	53.2	58.5	56.8	48.6	24.8	28.4	47.7	54.1	45.9	37.4
NASA and other agencies	2.8	4.1	6.3	9.6	12.0	13.5	5.4	5.1	5.6	7.0	9.7	10.4
Other customers <sup>8</sup>	8.9	19.0	21.0	29.9	40.8	48.9	16.9	23.6	18.9	23.1	33.0	37.6
Related products and services <sup>5</sup>	4.8	8.8	16.1	19.6	21.9	22.2	9.0	11.0	14.4	16.8	17.7	17.1

<sup>1</sup> Preliminary. <sup>2</sup> Estimate. <sup>3</sup> Based on aerospace composite price deflator supplied by the U.S. International Trade Administration. <sup>4</sup> All civil sales of aircraft (domestic and export sales of jet transports, commuters, business and personal aircraft and helicopters). <sup>5</sup> Electronics, software, and ground support equipment, plus sales of non-aerospace products which are produced by aerospace-manufacturing establishments and which use technology, processes, and materials derived from aerospace products. <sup>6</sup> Department of Defense. <sup>7</sup> National Aeronautics and Space Administration. <sup>8</sup> Includes civil aircraft sales (see footnote 4), commercial space sales, all exports of military aircraft and missiles and related propulsion and parts.

Source: Aerospace Industries Association of America, Inc., Washington, DC, *Aerospace Facts and Figures*, 1990/91.

**No. 1087. U.S. Exports of Aerospace Vehicles and Equipment, 1987 to 1990, and Projections, 1991**

ITEM	NUMBER OF UNITS					VALUE (mil. dol.)				
	1987	1988	1989	1990 <sup>1</sup>	1991 <sup>2</sup>	1987	1988	1989	1990 <sup>1</sup>	1991 <sup>2</sup>
Aerospace vehicles and equipment	(NA)	(NA)	(NA)	(NA)	(NA)	23,452	26,915	32,884	40,957	49,284
Civilian aircraft	1,812	2,784	3,840	4,051	4,641	7,518	10,294	14,257	19,519	24,694
Under 10,000 lbs. empty weight, new	473	619	1,638	1,246	1,400	254	298	265	308	286
10,000-33,000 lbs. empty weight, new	15	24	48	77	92	42	49	164	227	256
Over 33,000 lbs. empty weight, new	170	217	260	300	600	6,377	8,766	13,122	17,878	23,030
Rotocraft, new	240	280	294	364	382	200	219	155	133	140
Other new aircraft, n.e.c.	(NA)	(NA)	(NA)	(NA)	(NA)	141	323	18	12	14
Used, rebuilt, and converted	914	1,644	1,700	2,064	2,167	504	639	533	961	968
Military aircraft	(NA)	(NA)	846	422	432	3,587	2,157	892	1,762	2,090
Aircraft engines and parts	(NA)	(NA)	(NA)	(NA)	(NA)	4,396	5,420	6,629	6,710	7,910
Piston engines and parts	(NA)	(NA)	(NA)	(NA)	(NA)	352	389	438	423	419
Complete engines, new and used	3,099	6,260	8,653	6,424	6,200	57	57	131	115	111
Engine parts	(NA)	(NA)	(NA)	(NA)	(NA)	295	332	307	308	308
Turbine engines and parts	(NA)	(NA)	(NA)	(NA)	(NA)	4,044	5,031	6,191	6,287	7,491
Complete engines, new and used	1,831	2,486	3,917	3,286	4,200	1,322	1,705	2,053	1,835	2,484
Engine parts	(NA)	(NA)	(NA)	(NA)	(NA)	2,722	3,326	4,138	4,452	5,007
Propellers and parts	(NA)	(NA)	(NA)	(NA)	(NA)	47	75	271	310	372
Landing gear and parts	(NA)	(NA)	(NA)	(NA)	(NA)	131	125	273	264	310
Aircraft parts, n.e.c.	(NA)	(NA)	(NA)	(NA)	(NA)	6,497	7,228	8,198	9,421	10,363
Guided missiles and parts	(NA)	(NA)	(NA)	(NA)	(NA)	389	434	732	733	851
Flight simulators	(NA)	(NA)	(NA)	(NA)	(NA)	107	159	206	209	230
Space launch equipment	(NA)	(NA)	(NA)	(NA)	(NA)	457	622	1,042	1,429	1,644
Avionics	(NA)	(NA)	(NA)	(NA)	(NA)	323	401	384	600	820

NA Not available. <sup>1</sup> Estimated. <sup>2</sup> Forecast. <sup>3</sup> N.e.c. — Not elsewhere classified.

Source: U.S. Dept. of Commerce, International Trade Administration, *U.S. Industrial Outlook*, 1991.

**No. 1088. U.S. Receipts and Payments for International Transportation: 1970 to 1989**

[In millions of dollars. Data are international transportation transactions recorded for balance of payment purposes (see table 1385). Receipts include freight on exports carried by U.S.-operated carriers and foreign carrier expenditures in U.S. ports. Payments include freight on imports carried by foreign carriers and U.S. carrier port expenditures abroad. Freight on exports carried by foreign carriers is excluded since such payments are directly or indirectly for foreign account. Similarly, freight on U.S. imports carried by U.S. carriers is a domestic rather than an international transaction. Minus sign (-) indicates excess of payments over receipts. See *Historical Statistics, Colonial Times to 1970*, series U 3 and U 10, for totals]

ITEM	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>Total receipts</b> . . . . .	<b>3,672</b>	<b>14,208</b>	<b>15,491</b>	<b>16,200</b>	<b>17,823</b>	<b>18,997</b>	<b>20,915</b>	<b>23,854</b>	<b>27,710</b>	<b>30,517</b>
Ocean transportation . . . . .	2,256	7,757	7,685	8,133	8,849	8,846	9,169	10,060	11,135	11,628
Export freight earnings . . . . .	604	2,641	2,549	2,881	2,702	2,866	2,610	2,806	2,959	3,065
Freight earnings on shipments between foreign countries . . . . .	209	588	555	575	563	574	578	595	708	755
Port expenditures . . . . .	1,406	4,435	4,468	4,562	5,457	5,274	5,843	6,514	7,315	7,609
Charter hire . . . . .	37	93	113	115	127	132	140	145	153	199
<b>Air transportation</b> . . . . .	<b>1,243</b>	<b>5,946</b>	<b>7,326</b>	<b>7,596</b>	<b>8,459</b>	<b>9,670</b>	<b>10,877</b>	<b>12,809</b>	<b>15,563</b>	<b>17,913</b>
Export freight earnings . . . . .	187	742	762	576	645	706	783	982	1,385	1,719
Passenger fares . . . . .	544	2,591	3,174	3,610	4,014	4,323	5,457	6,866	8,771	10,101
Port expenditures . . . . .	512	2,613	3,390	3,410	3,800	4,641	4,637	4,961	5,407	6,093
Other transportation . . . . .	173	505	480	471	515	481	669	985	1,012	976
<b>Total payments</b> . . . . .	<b>4,058</b>	<b>15,397</b>	<b>16,482</b>	<b>18,225</b>	<b>20,721</b>	<b>22,293</b>	<b>23,381</b>	<b>25,496</b>	<b>27,607</b>	<b>29,313</b>
Ocean transportation . . . . .	2,380	8,447	8,307	8,624	10,560	11,018	11,619	11,649	12,641	12,641
Import freight payments . . . . .	1,444	5,809	5,562	5,827	7,755	8,114	8,636	8,657	9,505	9,483
Passenger fares . . . . .	245	268	290	305	305	320	320	328	328	322
Port expenditures . . . . .	316	1,905	1,957	1,980	1,972	2,048	2,125	2,114	2,244	2,228
Charter hire . . . . .	375	465	498	512	528	536	538	550	564	608
<b>Air transportation</b> . . . . .	<b>1,581</b>	<b>6,705</b>	<b>7,938</b>	<b>9,361</b>	<b>9,918</b>	<b>11,049</b>	<b>11,473</b>	<b>13,515</b>	<b>14,585</b>	<b>16,280</b>
Import freight payments . . . . .	115	562	725	1,066	1,633	1,866	2,051	2,242	2,226	2,197
Passenger fares . . . . .	970	3,339	4,462	5,698	5,573	6,330	6,346	7,083	7,604	8,200
Port expenditures . . . . .	496	2,804	2,731	2,597	2,712	3,053	3,076	4,190	4,755	5,883
Other transportation . . . . .	97	245	237	240	243	226	289	332	381	392
<b>Balance</b> . . . . .	<b>-386</b>	<b>-1,189</b>	<b>-991</b>	<b>-2,025</b>	<b>-2,898</b>	<b>-3,296</b>	<b>-2,466</b>	<b>-1,642</b>	<b>103</b>	<b>1,204</b>

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, June issues, and unpublished data.

**No. 1089. Water Transportation Industry—Summary: 1987**

[For establishments with payroll. Based on the 1987 Census of Transportation; see source for details]

1987 SIC code <sup>1</sup>	KIND OF BUSINESS	Establishments (number)	Revenue (mil. dol.)	Annual payroll (mil. dol.)	First quarter payroll (mil. dol.)	Paid employees <sup>2</sup> (number)
44	<b>Water transportation</b> . . . . .	<b>7,032</b>	<b>20,637.9</b>	<b>4,317.1</b>	<b>1,004.8</b>	<b>169,014</b>
441,2,3,4	Water transportation of freight . . . . .	778	8,938.4	1,352.5	310.2	40,079
441,2	Deep sea foreign and domestic freight . . . . .	470	7,834.3	1,013.3	237.4	28,472
441,2	Deep sea foreign freight . . . . .	273	5,220.8	577.7	128.1	16,787
442,4	Deep sea domestic freight . . . . .	197	2,613.5	435.6	109.3	11,885
443,4	Other water transportation of freight . . . . .	306	2,104.1	339.2	72.8	11,607
443,2	Great Lakes-St. Lawrence Seaway freight . . . . .	24	228.9	54.0	6.9	1,001
444,9	Water transportation of freight, n.e.c. <sup>3</sup> . . . . .	282	1,875.2	285.3	65.9	10,606
448	Water transportation of passengers . . . . .	592	2,342.3	340.6	78.9	19,976
448,2	Ferries . . . . .	101	95.6	29.9	5.1	1,592
448,1,9	Water transportation of passengers, except by ferry . . . . .	491	2,246.7	310.7	73.8	18,384
448,1	Deep sea transportation . . . . .	104	1,933.9	231.4	59.4	13,780
448,9	Water transportation, n.e.c. <sup>3</sup> . . . . .	387	312.8	79.3	14.4	4,604
449	Services incidental to water transportation . . . . .	5,664	8,357.2	2,624.0	615.7	108,959
449,3	Marinas . . . . .	2,641	1,454.6	263.1	52.9	16,433
449,1,2,9	Other services incidental to water transportation . . . . .	3,023	6,902.6	2,360.8	562.9	92,526
449,1	Marine cargo handling . . . . .	851	3,998.3	1,660.9	395.9	62,543
449,2	Towing and tugboat services . . . . .	880	1,482.1	460.1	113.3	20,235
449,9	Water transportation services, n.e.c. <sup>3</sup> . . . . .	1,292	1,422.3	239.9	53.6	9,748

<sup>1</sup> 1987 Standard Industrial Classification Code; see text, section 13.

<sup>2</sup> Paid employees for pay period including March 12.

<sup>3</sup> N.e.c. means not elsewhere classified.

Source: U.S. Bureau of the Census, *1987 Census of Transportation*, Geographic Area Series, TC87-A-1.

**No. 1090. Exports and Imports, by Method of Transport: 1970 to 1988**

[Exports are free alongside ship (f.a.s.) value (see text, section 29) for all years; imports are f.a.s. value for 1980 and customs value for other years. Export data include both domestic and foreign; import data for general imports only. For details, see source]

ITEM	Unit	EXPORTS						IMPORTS					
		1970	1980	1985	1986	1987	1988	1970	1980	1985	1986	1987	1988
All methods <sup>1</sup> . . . . .	Bil. dol.	43.2	220.7	213.1	227.2	252.9	320.4	40.0	240.8	345.3	365.4	405.9	441.3
Vessel . . . . .	Bil. dol.	24.6	120.9	91.7	90.1	98.3	126.0	24.8	165.1	208.4	221.6	244.0	255.8
Air . . . . .	Bil. dol.	6.1	46.1	52.3	63.4	69.0	91.6	3.4	28.0	51.3	62.0	67.0	77.5
Shipping weight: Vessel . . . . .	Bil. lb.	480.5	801.8	700.5	653.3	708.6	797.6	598.4	976.8	797.0	914.2	938.0	1,029.2
Air . . . . .	Bil. lb.	0.9	2.3	1.8	2.1	2.4	3.0	0.6	1.3	2.9	2.8	3.1	3.3

<sup>1</sup> Includes types other than vessel and air and revisions that are not distributed by method of transport.

Source: U.S. Bureau of the Census, *Highlights of U.S. Export and Import Trade*, FT 990, monthly.

### No. 1091. Federal Expenditures for Civil Functions of the Corps of Engineers, United States Army: 1960 to 1989

[In millions of dollars. For fiscal years ending in year shown, see text, section 9. These expenditures represent the work of the Corps of Engineers to plan, design, construct, operate, and maintain civil works projects and activities, particularly in the management and improvement of rivers, harbors, and waterways for navigation, flood control, and multiple purposes. The amounts listed below do not include the expenditure of funds contributed, advanced, or reimbursed by other government agencies or local interests. Includes Puerto Rico and outlying areas]

FISCAL YEAR	Total program <sup>1</sup>	Navigation	Flood control	Multiple purpose	FISCAL YEAR	Total program <sup>1</sup>	Navigation	Flood control	Multiple purpose
1960 . . . . .	873	310	293	270	1982 . . . . .	2,940	1,331	1,083	453
1965 . . . . .	1,169	426	447	283	1983 . . . . .	2,959	1,290	1,088	482
1970 . . . . .	1,128	398	379	331	1984 . . . . .	3,085	1,383	1,154	445
1975 . . . . .	2,070	694	904	439	1985 . . . . .	2,956	1,234	1,187	419
1977 . . . . .	2,340	792	918	594	1986 . . . . .	3,163	1,345	1,300	402
1978 . . . . .	2,645	951	1,069	583	1987 . . . . .	2,937	1,135	1,272	411
1979 . . . . .	2,934	1,083	1,218	577	1988 . . . . .	3,086	1,271	1,271	423
1980 . . . . .	3,061	1,225	1,228	551	1989 . . . . .	3,252	1,395	1,253	462
1981 . . . . .	3,198	1,339	1,273	527					

<sup>1</sup> Includes expenditures which are not associated with a specific purpose (e.g., headquarters staff supervision, management, and administration activities, and some research and development activities).

Source: U.S. Army Corps of Engineers, *Report of Civil Works Expenditures by State and Fiscal Year*, annual.

### No. 1092. Freight Carried on Inland Waterways, by System: 1960 to 1988

[In billions of ton-miles. Excludes Alaska and Hawaii, except as noted. Includes waterways, canals, and connecting channels]

ITEM	1960	1970	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
<b>Total</b> . . . . .	<b>220.3</b>	<b>318.6</b>	<b>424.6</b>	<b>406.9</b>	<b>410.2</b>	<b>351.2</b>	<b>359.0</b>	<b>399.0</b>	<b>381.7</b>	<b>392.6</b>	<b>410.7</b>	<b>438.2</b>
Atlantic coast waterways . . . . .	28.6	28.6	31.9	30.4	28.3	25.4	22.5	24.7	24.8	25.7	25.9	28.1
Gulf coast waterways . . . . .	16.9	28.6	38.1	36.6	35.1	31.8	32.4	36.7	36.5	39.0	37.9	44.6
Pacific coast waterways <sup>1</sup> . . . . .	6.0	8.4	14.1	14.9	14.4	12.8	13.2	20.5	19.9	20.8	22.8	24.5
Mississippi River system <sup>2</sup> . . . . .	69.3	138.5	218.8	228.9	234.4	218.0	223.0	234.6	224.7	239.3	251.6	257.8
Groat Lakes System <sup>3</sup> . . . . .	99.5	114.5	121.7	96.0	98.0	63.2	67.9	62.5	75.8	67.9	72.5	83.1

<sup>1</sup> Includes Alaskan waterways. <sup>2</sup> Comprises main channels and all tributaries of the Mississippi, Illinois, Missouri, and Ohio Rivers. <sup>3</sup> Does not include traffic between foreign ports.

Source: U.S. Army Corps of Engineers, *Waterborne Commerce of the United States*, annual.

### No. 1093. Domestic and Foreign Waterborne Commerce, by Type of Commodity: 1970 to 1988

[In millions of short tons. Domestic trade includes all commercial movements between U.S. ports and on inland rivers, Great Lakes, canals, and connecting channels of U.S., Puerto Rico, and Virgin Islands. Figures may differ from those shown in table 1094 due to minor differences in basic concepts]

COMMODITY	1970		1980		1985		1988			
	Total	Domestic	Total	Domestic	Total	Domestic	Total	Domestic	Foreign	
									Imports	Exports
<b>Net total</b> . . . . .	<b>1,531.7</b>	<b>950.7</b>	<b>1,998.9</b>	<b>1,077.5</b>	<b>1,788.4</b>	<b>1,014.1</b>	<b>2,088.0</b>	<b>1,111.8</b>	<b>549.9</b>	<b>426.3</b>
Petroleum products <sup>1</sup> . . . . .	394.7	287.3	423.2	339.2	368.8	259.0	435.9	288.5	107.0	40.4
Gasoline . . . . .	89.3	88.7	87.3	81.0	94.0	78.0	108.3	85.0	22.2	1.1
Distillate fuel oil . . . . .	78.8	76.9	74.6	72.1	70.0	55.0	78.2	56.4	17.9	3.9
Residual fuel oil . . . . .	170.5	78.8	188.0	141.3	130.0	83.7	152.5	91.9	48.0	12.6
Crude petroleum . . . . .	210.5	116.3	480.2	174.2	357.7	194.7	451.9	199.2	252.5	0.2
Coal and lignite . . . . .	225.4	154.1	256.4	164.1	273.9	179.9	292.3	196.8	0.9	94.6
Nonmetallic minerals <sup>1,2</sup> . . . . .	166.6	132.6	157.1	111.6	150.7	108.5	161.3	116.1	24.9	20.3
Sand and gravel <sup>1</sup> . . . . .	78.4	73.9	65.1	60.8	66.4	62.0	68.9	62.6	4.8	1.5
Limestone . . . . .	42.0	34.1	34.2	23.9	24.5	21.9	37.1	33.1	0.7	3.3
Phosphate rock . . . . .	16.6	5.8	23.7	9.5	19.4	8.4	16.2	5.7	0.7	9.8
Iron and concentrates . . . . .	129.3	75.2	98.4	64.9	72.7	50.0	87.3	60.8	20.9	5.6
Farm products <sup>1</sup> . . . . .	90.4	28.5	216.8	63.4	172.8	60.0	203.9	67.9	6.5	129.5
Corn . . . . .	27.2	11.7	98.6	30.8	76.3	29.0	81.6	32.1	(2)	49.5
Wheat . . . . .	25.0	5.8	53.4	14.3	38.0	10.6	59.1	14.4	0.1	44.6
Soybeans . . . . .	21.2	8.3	39.6	16.1	32.9	14.9	35.6	16.2	(2)	19.4
Chemicals and allied products . . . . .	62.0	39.7	91.9	49.4	108.5	53.3	132.9	66.5	28.8	37.6
Food and kindred products . . . . .	35.0	11.0	54.8	20.4	52.5	17.6	64.2	23.4	12.7	28.1
Lumber and wood products <sup>4</sup> . . . . .	49.9	27.3	52.0	22.7	47.2	18.8	58.3	20.2	5.1	33.0
Primary metal products . . . . .	42.4	10.8	28.9	9.0	33.4	8.5	33.5	10.0	21.1	2.4
Waste and scrap . . . . .	25.9	16.0	31.1	18.8	37.4	23.9	51.9	34.9	2.0	15.0
Other . . . . .	99.7	51.9	108.1	39.8	112.8	40.0	114.6	27.5	67.5	19.6

<sup>1</sup> Less than 50,000. <sup>2</sup> Includes categories not shown separately. <sup>3</sup> Excludes fuels. <sup>4</sup> Includes crushed rock.

<sup>5</sup> Excludes furniture.

Source: U.S. Army Corps of Engineers, *Waterborne Commerce of the United States*, annual.

### No. 1094. Waterborne Imports and Exports—Cargo Tonnage and Value, by Coastal District: 1970 to 1989

[Exports are free alongside ship (f.a.s.) value for all years; imports are f.a.s. value for 1980 and customs value for other years see text, section 29. Includes commodities classified for security reasons as "Special Category" (exports only) and exports by Dept. of Defense (grant-aid shipments), and merchandise shipped in transit through the U.S. See Appendix III]

DISTRICT	CARGO TONNAGE (mil. sh. tons)								VALUE (bil. dol.)							
	1970	1980	1985	1986	1987	1988	1989	1970	1980	1985	1986	1987	1988	1989		
Imports:																
Atlantic	219	183	190	216	224	234	233	15.0	71.5	94.4	97.5	105.8	107.4	109.3		
Gulf	47	243	141	171	184	212	239	2.9	56.4	32.8	27.0	30.5	31.2	36.1		
Pacific	31	56	51	53	56	55	61	5.5	45.0	90.4	104.0	118.4	126.5	140.9		
Great Lakes	26	16	17	14	14	16	18	1.3	1.9	2.8	2.3	2.0	2.5	3.7		
Exports:																
Atlantic	79	117	93	83	78	92	104	11.9	51.0	35.2	36.3	38.7	48.2	56.3		
Gulf	78	163	144	135	155	162	166	6.9	41.5	31.8	29.0	31.6	37.9	40.9		
Pacific	48	78	81	82	95	110	114	4.1	25.2	25.8	26.3	31.9	43.3	50.1		
Great Lakes	36	45	34	32	32	37	37	1.4	4.6	2.4	1.9	2.1	3.2	3.6		

Source: U.S. Bureau of the Census, *U.S. Waterborne Exports and General Imports*, through 1988, FT 985, annual; thereafter TM 985, monthly.

### No. 1095. Vessels Entered and Cleared in Foreign Trade—Net Registered Tonnage, by Flag of Carrier Vessel: 1966 to 1989

[In millions of net tons, except as indicated. Includes Puerto Rico and Virgin Islands. Seaports comprise all ports except Great Lakes ports. See also *Historical Statistics, Colonial Times to 1970*, series Q 507-517]

YEARLY AVERAGE OR YEAR	ALL PORTS					SEAPORTS					
	Number of vessels	Tonnage, all vessels				Tonnage, all vessels			Tonnage, with cargo		
		Total	U.S.	Percent U.S.	Foreign	Total	U.S.	Foreign	Total	U.S.	Foreign
<b>Entered:</b>											
1966-1970 .....	53,459	232	29	12.5	203	206	27	180	157	18	139
1971-1975 .....	53,760	319	30	9.5	290	292	28	264	220	24	196
1976-1980 .....	53,700	458	40	8.7	418	425	38	387	316	30	286
1981-1985 .....	50,124	452	57	12.4	395	424	55	369	277	36	241
1970 .....	53,293	254	26	10.3	226	227	24	209	171	19	152
1975 .....	51,443	355	32	9.9	323	326	30	297	240	26	215
1980 .....	53,645	492	52	10.6	440	460	50	410	310	34	276
1984 .....	49,239	459	53	11.5	406	429	51	378	291	33	258
1985 .....	53,531	451	53	11.7	398	426	52	374	283	34	249
1986 .....	56,859	489	49	10.0	439	463	48	415	310	32	278
1987 .....	59,563	518	48	9.3	470	492	47	445	333	29	304
1988 .....	62,097	556	47	8.5	509	527	46	481	352	30	322
1989 .....	64,946	587	44	7.4	543	558	42	516	367	31	335
<b>Cleared:</b>											
1966-1970 .....	52,415	232	30	12.8	202	206	27	179	122	23	99
1971-1975 .....	53,039	324	31	9.9	293	296	29	267	149	21	127
1976-1980 .....	52,931	453	41	9.1	412	420	38	382	203	26	177
1981-1985 .....	50,291	460	57	12.4	403	432	55	377	251	34	217
1970 .....	52,195	253	27	10.6	226	226	25	201	132	20	112
1975 .....	51,017	363	34	10.3	329	334	31	303	168	23	144
1980 .....	52,928	487	54	11.1	433	456	51	405	246	33	213
1984 .....	49,819	468	54	11.5	414	438	51	387	250	32	218
1985 .....	53,095	461	55	11.9	406	435	53	382	253	36	217
1986 .....	55,710	491	51	10.4	441	466	49	417	246	33	212
1987 .....	58,307	521	49	9.4	472	495	48	447	269	31	238
1988 .....	60,540	561	49	8.7	512	531	47	484	295	31	264
1989 .....	63,042	590	45	7.6	545	561	44	517	304	30	274

Source: U.S. Bureau of the Census, *Vessel Entrances and Clearances*, through 1986, FT 975, annual; thereafter TA 987, annual.

### No. 1096. Domestic Merchant Vessels Completed by U.S. Shipyards: 1970 to 1988

[Vessels of 1,000 gross tons and over. See also *Historical Statistics, Colonial Times to 1970*, series Q 438-48]

TYPE	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Merchant vessels .....	Number .....	13	15	15	10	12	11	13	5	8	5	4	4
Gross tons .....	1,000 .....	342	452	1,149	375	275	337	376	118	172	215	153	153
Cargo .....	Number .....	6	3	4	6	2	6	6	-	4	2	3	3
Gross tons .....	1,000 .....	120	65	53	105	53	221	228	-	113	66	58	58
Deadweight tons .....	1,000 .....	134	71	47	114	73	219	219	-	97	53	63	63
Tankers .....	Number .....	7	12	11	4	10	5	7	5	4	3	1	1
Gross tons .....	1,000 .....	222	387	1,096	270	222	116	148	118	59	149	95	95
Deadweight tons .....	1,000 .....	427	742	1,901	354	358	226	277	210	92	271	209	209

- Represents zero.

Source: U.S. Maritime Administration, *New Ship Construction*, annual.



### No. 1097. United States Flag Merchant Vessels—Number and Vessel Deadweight Tonnage: 1970 to 1989

[Deadweight tonnage in thousands. As of end of fiscal year; see text, section 9. Covers ocean-going vessels of 1,000 gross tons and over engaged in foreign and domestic trade, and inactive vessels. Excludes special types such as tugs, barges, cable ships, fishing trawlers, and vessels employed on Great Lakes. See also *Historical Statistics, Colonial Times to 1970*, series Q 487-502]

ITEM	CARGO <sup>1</sup>						TANKER					
	1970	1980	1985	1987	1988	1989	1970	1980	1985	1987	1988	1989
<b>Number of vessels</b> . . . . .	<b>1,479</b>	<b>553</b>	<b>485</b>	<b>470</b>	<b>432</b>	<b>422</b>	<b>301</b>	<b>310</b>	<b>263</b>	<b>254</b>	<b>251</b>	<b>239</b>
Active:												
Foreign trade . . . . .	354	195	129	97	128	125	32	32	32	38	42	39
Domestic trade . . . . .	70	46	36	40	42	32	175	211	135	130	135	126
Coastwise . . . . .	10	12	4	11	7	7	132	103	24	81	80	82
Noncontiguous . . . . .	43	34	30	29	35	25	35	45	52	49	55	44
Special service . . . . .	146	44	45	37	31	36	42	23	26	25	25	25
Inactive:												
Temporarily . . . . .	41	31	58	60	14	17	22	24	50	38	17	21
Reserve fleet . . . . .	868	237	217	236	217	212	30	20	20	23	32	28
<b>Vessel deadweight tonnage</b> . . . . .	<b>15,445</b>	<b>7,872</b>	<b>8,792</b>	<b>9,040</b>	<b>8,887</b>	<b>8,726</b>	<b>7,835</b>	<b>16,107</b>	<b>15,647</b>	<b>16,074</b>	<b>16,790</b>	<b>15,731</b>
Active:												
Foreign trade . . . . .	4,699	3,826	3,623	2,528	3,861	3,883	1,076	2,793	1,825	2,174	3,495	3,368
Domestic trade . . . . .	850	713	659	881	875	697	4,518	10,546	8,909	8,700	9,464	8,270
Coastwise . . . . .	116	200	108	340	220	203	3,483	3,078	1,028	3,386	3,202	3,429
Noncontiguous . . . . .	482	479	509	541	655	484	870	3,699	5,534	5,314	6,262	4,841
Special service . . . . .	1,741	560	932	796	743	752	1,189	661	747	744	744	750
Inactive:												
Temporarily . . . . .	472	451	1,169	1,748	477	497	691	1,806	3,758	3,530	1,818	2,560
Reserve fleet . . . . .	7,684	2,322	2,409	3,087	2,931	2,897	361	301	408	926	1,269	783

<sup>1</sup> Includes combination passenger and cargo vessels, not shown separately. <sup>2</sup> Prior to 1987 includes intercoastal, not shown separately. <sup>3</sup> Beginning 1987, includes intercoastal.

Source: U.S. Maritime Administration, *Employment Report of the United States Flag Merchant Fleet Ocean-going Vessels 1,000 Gross Tons and Over*, annual.

### No. 1098. Private Shipyards—Summary: 1970 to 1990

[For calendar year, unless noted. See also *Historical Statistics, Colonial Times to 1970*, series Q 449-458 and series Q 467-472]

ITEM	Unit	1970	1980	1983	1984	1985	1986	1987	1988	1989	1990
Employment . . . . .	1,000 . .	133.4	177.3	143.0	142.0	130.3	120.6	120.4	121.0	123.4	<sup>1</sup> 131.4
Production workers . . . . .	1,000 . .	108.5	141.8	112.0	111.0	99.0	90.3	90.8	90.9	88.6	96.1
Value of work done . . . . .	Mil. dol.	2,682	9,269	9,883	8,944	9,358	8,840	8,531	(NA)	(NA)	(NA)
On ships only . . . . .	Mil. dol.	2,594	8,889	9,107	8,308	9,483	8,913	8,377	(NA)	(NA)	(NA)
Value added . . . . .	Mil. dol.	1,616	5,338	5,752	5,206	5,740	5,426	5,227	(NA)	(NA)	(NA)
Building activity:											
Merchant vessels: <sup>2</sup>											
Under construction <sup>3</sup> . . . . .	Number	49	69	21	10	10	7	6	-	-	-
Ordered . . . . .	Number	13	7	4	5	-	-	-	-	-	-
Delivered . . . . .	Number	13	23	15	5	3	1	4	-	-	-
Cancelled . . . . .	Number	-	4	-	-	-	-	2	-	-	-
Under contract <sup>4</sup> . . . . .	Number	49	49	10	10	7	6	-	-	-	-
Naval vessels: <sup>2</sup>											
Under construction <sup>3</sup> . . . . .	Number	108	99	105	111	100	85	79	83	105	98
Ordered . . . . .	Number	6	11	27	11	11	16	20	32	16	(NA)
Delivered . . . . .	Number	32	19	21	22	26	20	16	10	23	(NA)
Under contract <sup>4</sup> . . . . .	Number	82	91	111	100	85	<sup>5</sup> 79	83	105	98	(NA)
Repairs/conversions:											
Commercial ships . . . . .	Mil. dol.	431	1,335	1,419	1,631	852	847	806	(NA)	(NA)	(NA)
Naval ships . . . . .	Mil. dol.	359	1,134	1,689	1,641	2,311	2,008	1,930	(NA)	(NA)	(NA)
Unfinished work: <sup>3</sup>											
Commercial ships . . . . .	Mil. dol.	765	2,070	372	100	450	315	53	-	-	-
Naval ships . . . . .	Mil. dol.	1,719	7,107	12,200	14,003	12,091	9,595	8,265	10,500	16,010	(NA)

- Represents zero. NA Not available. <sup>1</sup> Estimate as of June. <sup>2</sup> Vessels of 1,000 tons or larger. <sup>3</sup> As of Jan. 1. <sup>4</sup> As of Dec. 31. <sup>5</sup> Two ships were cancelled during 1986.

Source: Shipbuilders Council of America, Washington, DC, *Annual Report*, through 1980; thereafter, unpublished data.

**No. 1099. Employees in Government and Private Shipyards: 1960 to 1989**

[In thousands. Annual average employment in establishments primarily engaged in building and repairing all types of ships, barges, canal boats, and lighters of 5 gross tons and over, whether propelled by sail or motor power, or towed by other craft. Includes all full- and part-time employees]

YEAR	Total	Private yards	Navy yards	YEAR	Total	Private yards	Navy yards	YEAR	Total	Private yards	Navy yards
1960.....	208	112	96	1980.....	251	178	73	1985.....	219	138	80
1970.....	216	134	83	1981.....	264	187	77	1986.....	206	131	75
1975.....	217	154	65	1982.....	252	172	80	1987.....	199	124	75
1978.....	243	172	71	1983.....	227	143	84	1988.....	197	124	73
1979.....	244	173	71	1984.....	229	146	83	1989.....	196	126	70

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly, and unpublished data.

**No. 1100. Employment on U.S. Flag Merchant Vessels, 1970 to 1989, and Basic Monthly (January) Wage Scale for Able-Bodied Seamen, 1970 to 1990**

[Employment in thousands. See also *Historical Statistics, Colonial Times to 1970*, series Q 414-416]

YEAR	Employment	YEAR	Employment	YEAR	East coast wage rate <sup>2</sup>	West coast wage rate <sup>2</sup>	YEAR	East coast wage rate <sup>2</sup>	West coast wage rate <sup>2</sup>
1970.....	37.6	1984.....	13.7	1970.....	\$470	\$652	1985.....	\$1,419	\$2,069
1975.....	20.5	1985.....	13.1	1975.....	612	900	1986.....	1,419	2,132
1980.....	19.6	1986.....	11.5	1979.....	865	1,287	1987.....	1,419	2,132
1981.....	18.3	1987.....	10.4	1980.....	967	1,414	1988.....	1,419	2,175
1982.....	16.7	1988.....	10.7	1983.....	1,320	1,862	1989.....	1,448	2,218
1983.....	15.3	1989.....	9.9	1984.....	1,419	2,029	1990.....	1,505	2,218

<sup>1</sup> As of June 30, except beginning 1980, as of Sept. 30. Estimates of personnel employed on merchant ships, 1,000 gross tons and over. Excludes vessels on inland waterways, Great Lakes, and those owned by, or operated for, U.S. Army and Navy, and special types such as cable ships, tugs, etc. <sup>2</sup> Basic monthly wage, over and above subsistence (board and room); excludes overtime and fringe pay benefits. West coast incorporates extra pay for Saturdays and Sundays at sea into base wages but east coast does not.

Source: U.S. Maritime Administration, *U.S. Merchant Marine Data Sheet*, monthly and unpublished data.

**No. 1101. Worldwide Tanker Casualties: 1975 to 1990**

[Data for 1975-1982 covers tankers, ore/oil carriers and bulk/oil vessels of 6,000 deadweight tons and over; beginning 1983, 10,000 deadweight tons and over; excludes liquid gas carriers. Incident is counted in the year it is reported. Based on data from "Lloyd's List" published by Lloyd's of London. "Casualties" include weather damage, strandings, collisions and other contact, fires and explosions, machinery damage, and other mishaps]

ITEM	Unit	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990 <sup>1</sup>
Casualties.....	Number	906	(NA)	(NA)	(NA)	(NA)	340	451	408	456	528	151
Total losses <sup>2</sup> .....	Number	22	15	21	11	14	12	8	5	3	8	1
Deaths.....	Number	90	132	72	14	68	53	23	12	63	74	19
Oil spills.....	Number	45	32	9	17	15	9	8	12	13	31	8
Amount.....	1,000 ton	188.0	135.6	1.8	387.8	22.4	79.8	5.0	8.7	178.3	188.0	3.5

NA Not available. <sup>1</sup> Jan.-March. <sup>2</sup> Excludes losses due to hostilities.

Source: Tanker Advisory Center, Inc., New York, NY, "Worldwide Tanker Casualty Returns," quarterly.

**No. 1102. Merchant Vessels—World and United States: 1960 to 1989**

[Vessels of 100 gross tonnage and above. Excludes sailing ships, nonpropelled craft, and all ships built of wood. See also *Historical Statistics, Colonial Times to 1970*, series Q 473-480]

YEAR	WORLD: COMPLETED		WORLD: OWNED		U.S.: COMPLETED		U.S.: REGISTERED	
	Number	Gross tonnage (1,000)	Number	Gross tonnage (1,000)	Number	Gross tonnage (1,000)	Number	Gross tonnage (1,000)
1960.....	2,005	8,382	36,311	129,770	49	379	4,059	24,837
1970.....	2,814	20,980	52,444	227,490	156	375	2,983	18,463
1980.....	2,412	13,101	73,832	419,911	205	555	5,579	18,464
1983.....	2,276	15,911	76,106	422,590	159	381	6,437	19,358
1984.....	2,210	18,334	76,068	418,682	73	84	6,441	19,292
1985.....	1,964	18,157	76,395	416,269	66	180	6,447	19,518
1986.....	1,634	16,845	75,266	404,910	36	223	6,496	19,901
1987.....	1,528	12,259	75,240	403,498	29	164	6,427	20,178
1988.....	1,575	10,909	75,680	403,406	60	11	6,442	20,832
1989.....	1,593	13,236	76,100	410,481	10	4	6,375	20,588

Source: Lloyd's Register of Shipping, London, England, *Statistical Tables*, annual, and *Annual Summary of Merchant Ships Completed in the World*.

### No. 1103. Merchant Vessels—Ships and Tonnage Lost Worldwide, by Type of Ship: 1980 to 1988

[For merchant vessels of 100 gross tonnage and above. Excludes ships which have been declared constructive losses but have undergone repair during the year. Loss counted in the year the casualty occurred, providing that information available at time of relevant publication]

TYPE OF SHIP	SHIPS LOST					GROSS TONNAGE LOST (1,000)				
	1980	1985	1987	1988		1980	1985	1987	1988	
				Total	Percent of total				Total	Percent of total
<b>Total</b> <sup>1</sup>	<b>387</b>	<b>307</b>	<b>219</b>	<b>231</b>	<b>100.0</b>	<b>1,804</b>	<b>1,651</b>	<b>1,284</b>	<b>865</b>	<b>100.0</b>
Tankers	24	19	12	9	3.9	707	776	358	327	37.8
Ore/bulk carriers <sup>2</sup>	21	22	18	8	3.5	458	405	522	133	15.4
General cargo	211	155	105	110	47.6	478	363	332	227	26.2
Container ships	2	5	3	4	1.7	6	41	22	26	3.0
Passenger <sup>3</sup>	9	-	-	2	0.9	112	-	-	11	1.3
Fishing	96	66	51	60	26.0	30	26	19	22	2.6

- Represents zero. <sup>1</sup> Includes types not shown separately. <sup>2</sup> Includes ore/bulk/oil carriers. <sup>3</sup> Includes passenger cargo ships.

Source: Lloyd's Register of Shipping, London, England, *Casualty Return*, annual.

### No. 1104. Merchant Fleets of the World: 1980 to 1988

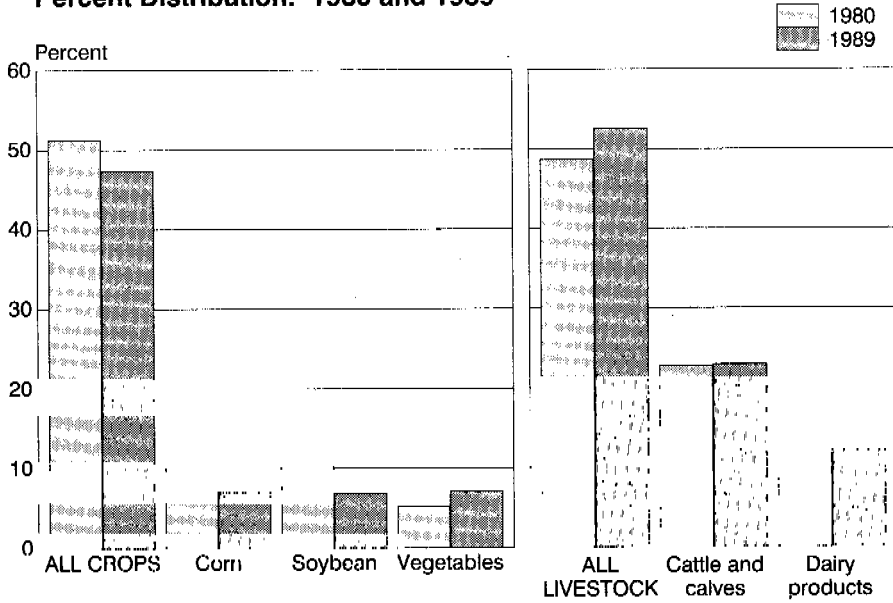
[Vessels of 1,000 gross tons and over. As of Jan. 1 of the following year. Specified countries have 100 or more ships]

YEAR AND COUNTRY OF REGISTRY, 1988	TOTAL		PASSENGER/CARGO COMB.		FREIGHTERS		BULK CARRIERS <sup>1</sup>		TANKERS	
	Number	Average age (yr.)	Number	Average age (yr.)	Number	Average age (yr.)	Number	Average age (yr.)	Number	Average age (yr.)
<b>1980, world total.</b>	<b>24,867</b>	<b>13</b>	<b>468</b>	<b>24</b>	<b>14,242</b>	<b>14</b>	<b>4,798</b>	<b>10</b>	<b>5,359</b>	<b>12</b>
United States	864	23	65	22	471	23	20	22	308	20
Foreign	24,003	13	403	24	13,771	13	4,778	10	5,051	11
<b>1985, world total.</b>	<b>25,555</b>	<b>14</b>	<b>375</b>	<b>25</b>	<b>13,937</b>	<b>15</b>	<b>5,787</b>	<b>11</b>	<b>5,458</b>	<b>13</b>
United States	737	23	37	38	417	25	25	9	258	19
Foreign	24,818	14	338	23	13,520	15	5,762	11	5,198	13
<b>1987, world total.</b>	<b>23,307</b>	<b>14</b>	<b>343</b>	<b>23</b>	<b>12,572</b>	<b>15</b>	<b>5,302</b>	<b>12</b>	<b>5,090</b>	<b>14</b>
United States	709	22	23	41	406	24	26	12	254	19
Foreign	22,598	14	320	22	12,166	15	5,276	12	4,836	13
<b>1988, world total.</b>	<b>23,468</b>	<b>14</b>	<b>368</b>	<b>23</b>	<b>12,518</b>	<b>15</b>	<b>5,332</b>	<b>12</b>	<b>5,250</b>	<b>14</b>
United States	675	22	21	41	381	24	26	12	247	19
Privately-owned	424	16	5	36	178	14	26	12	215	18
Government-owned	251	33	16	43	203	32	(X)	32	31	31
Foreign	22,793	14	347	22	12,137	15	5,306	12	5,003	13
Argentina	144	18	-	-	75	18	19	16	50	17
Brazil	331	14	3	28	134	19	99	9	95	13
British Colonies	545	15	6	16	246	17	183	12	110	15
Bulgaria	116	15	3	16	52	16	46	14	15	17
China: Mainland	1,235	18	12	25	833	19	224	15	166	17
Taiwan	221	12	1	18	150	13	55	10	15	13
Cyprus	1,140	15	5	32	587	15	423	15	125	15
Denmark (DIS) <sup>2</sup>	151	7	-	-	97	8	6	8	48	7
East Germany	149	14	1	8	127	15	17	13	4	10
Egypt	135	17	7	27	103	18	15	7	10	20
France	158	12	6	10	76	11	17	8	59	14
Greece	974	15	33	28	266	18	470	13	205	16
Honduras	135	25	1	34	100	26	14	24	20	23
India	312	13	6	24	122	15	114	11	70	10
Indonesia	336	19	9	13	223	21	12	8	92	16
Iran	121	13	-	-	37	17	51	10	33	15
Italy	500	16	14	19	194	16	69	14	223	17
Japan	1,118	8	15	10	473	7	316	9	314	8
Liberia	1,405	12	13	16	285	12	505	12	602	11
Malaysia	164	15	-	-	103	17	20	10	41	12
Malta	240	18	2	56	123	18	63	18	52	18
Netherlands	367	9	6	29	263	9	17	8	61	8
Norway	108	14	8	29	59	14	10	13	31	13
Norway (NIS) <sup>2</sup>	366	12	9	85	85	12	96	12	176	12
Panama	3,304	12	39	29	1,742	13	895	10	628	11
Philippines	562	13	13	28	239	15	272	8	38	25
Poland	261	13	3	9	156	13	95	12	7	14
Romania	299	12	-	-	219	12	68	12	12	10
Singapore	417	12	-	-	218	14	72	9	127	11
South Korea	434	14	-	-	221	15	148	12	65	14
Soviet Union	2,434	17	34	25	1,716	17	240	12	444	15
Spain	346	13	2	1	200	13	57	12	87	15
Sweden	156	13	3	17	80	12	14	16	59	14
Thailand	110	21	-	-	78	22	1	19	31	21
Turkey	342	14	5	35	228	12	57	16	52	16
United Kingdom	242	14	14	16	107	13	33	10	88	15
West Germany	390	6	6	11	321	6	13	5	50	8
Yugoslavia	264	14	3	26	167	14	82	13	12	13
All others	2,761	(NA)	65	(NA)	1,612	(NA)	398	(NA)	686	(NA)

- Represents zero. NA Not available. X Not applicable. <sup>1</sup> Includes bulk/oil, ore/oil, and ore/bulk/oil carriers. <sup>2</sup> International Shipping Registry which is an open registry under which the ship flies the flag of the specified nation but is exempt from certain taxation and other regulations.

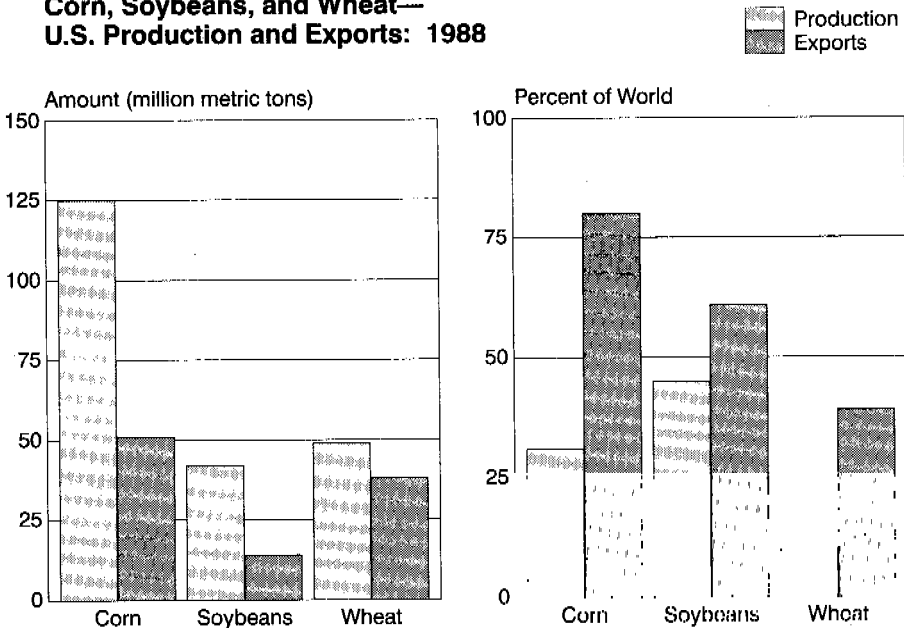
Source: U.S. Maritime Administration, *Merchant Fleets of the World*, summary report, annual.

**Figure 23.1**  
**Farm Marketings Cash Receipts—**  
**Percent Distribution: 1980 and 1989**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1131.

**Figure 23.2**  
**Corn, Soybeans, and Wheat—**  
**U.S. Production and Exports: 1988**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1148.



## Section 23 Agriculture

This section presents statistics on farms and farm population; land use and irrigation; farm cooperatives; farm income, expenditures, and debt; farm output, productivity, and marketings; foreign trade in agricultural products; specific crops; and livestock, poultry, and their products.

The principal sources are the reports issued by the U.S. Bureau of the Census and by the National Agricultural Statistics Service (NASS) and the Economic Research Service (ERS) of the U.S. Department of Agriculture. The Bureau of the Census has taken a census of agriculture every 10 years from 1840 to 1920 and every 5 years from 1925 through 1974. Two 4-year censuses, taken for 1978 and 1982, adjusted the data reference year to coincide with the economic censuses. The 1987 Census of Agriculture is the most recent census for which reports are presently available. The Department of Agriculture publishes annually *Agricultural Statistics*, a general reference book on agricultural production, supplies, consumption, facilities, costs, and returns. The Economic Research Service publishes a series of annual reports, *Economic Indicators of the Farm Sector*. This series comprises five reports: *National Financial Summary*, *State Financial Summary*, *Production and Efficiency Statistics*, *Costs of Production*, and *Farm Sector Review*. Sources of current data on agricultural exports and imports include *Foreign Agricultural Trade of the United States*, published by the ERS, and the reports of the Bureau of the Census, particularly *U.S. Imports for Consumption and General Imports—HTSUSA Commodity by Country of Origin* (FT 247), *U.S. Exports, Harmonized Schedule B, Commodity by Country* (FT447) and *U.S. Merchandise Trade: Exports, General Imports, and Imports for Consumption* (FT925).

The 45 field offices of the NASS collect data on crops, livestock and products, agricultural prices, farm employment, and other related subjects mainly through sample surveys. Information is obtained on some 75 crops and 50 livestock items as well as scores of items pertaining to agricultural production and marketing. State estimates and supporting information are sent to the Agricultural Statistics Board of NASS which reviews the estimates and issues reports containing State and national data. Among these reports are annual summaries such as *Crop Production*, *Crop Values*, *Agricultural Prices*, and *Livestock Production, Disposition and Income*. For more information about concepts and methodology underlying USDA's statistical series, see *Major Statistical Series of the U.S. Department of Agriculture* (Agricultural Handbook No. 671), a 12-volume set of publications.

**Farms and farmland.**—The Bureau of the Census has used varying definitions of a farm. Data from the census of agriculture reflect the definition of farm used for the census year. For the 1974, 1978, 1982, and 1987 Censuses of Agriculture, a farm was defined as any place from which \$1,000 or more of agricultural products were produced and sold or normally would have been sold during the census year. Control may have been exercised through ownership or management, or through a lease, rental, or cropping arrangement. In the case of landowners who had one or more tenants, or renters, the land operated by each was counted as a separate farm. The effect of the change in definition must be considered when comparing farms in the 1974, 1978, 1982, and 1987 censuses with those in previous censuses. In the 1969 census, as well as the 1959 and 1964 censuses, places of less than 10 acres were counted as farms if estimated sales of agricultural products for the year amounted to at least \$250, and places of 10 or more acres if such sales amounted to at least \$50.

Unless otherwise stated in the specific tables of this section, the definition of a farm applicable to data originated by the Department of Agriculture is the one used by the Bureau of the Census for the agriculture census immediately preceding the year or years for which the data are shown.

Farmland refers to all land under the control of a farm operator, including land not actually under cultivation or not used for pasture or grazing. Land used for pasture or grazing on a per head basis that was neither owned nor leased by a farm operator is not included except for grazing lands controlled by grazing associations leased on a per acre basis.

Coverage estimates for 1978, 1982, and 1987 indicate about 3.4, 9.1, and 7.2 percent of all farms, respectively, were not included in census totals. Farms undercounted in these censuses were usually small and accounted for approximately 1 percent of the total value of agricultural

products sold and approximately 2 percent of the land in farms. For more explanation about mail list compilation and census coverage, see Appendixes A and C, *1987 Census of Agriculture*, volume 1 reports and *Coverage Evaluation, Volume 2, Part 2*.

**Farm population.**—Farm population consists of all persons living on farms in rural areas. Farm population data shown for 1960 to 1975 are based on the definition of a farm used for the 1959, 1964, and 1969 Censuses of Agriculture. Farm population data for 1980 to 1983 are shown on the basis of both the 1969 and 1974 census farm definitions and are so indicated. Beginning in 1984, farm population data are based only on the farm definition adopted for the 1974 Census of Agriculture.

**Farm income.**—Gross farm income comprises cash receipts from farm marketings of crops and livestock, Federal government payments made directly to farmers for farm-related activities, rental value of farm homes, value of farm products consumed in farm homes, and other farm-related income such as machine hire and custom work. Farm marketings represent agricultural products sold by farmers multiplied by prices received per unit of production at the local market.

Information on prices received for farm products is generally obtained by the NASS Agricultural Statistics Board from surveys of firms (such as grain elevators, packers, and processors) purchasing agricultural commodities directly from producers. In some cases, the price information is obtained directly from the producers.

**Crops.**—Estimates of crop acreage and production by the NASS are based on current sample survey data obtained from individual producers and objective yield counts, reports of carlot shipments, market records, personal field observations by field statisticians, and reports from other sources. Cotton acreage and production are based on sample survey data and on ginning information gathered by the Bureau of the Census.

Prices received by farmers are marketing year averages. These averages are based on U.S. monthly prices weighted by monthly marketings during specific periods. U.S. monthly prices are State average prices weighted by marketings during the month. Marketing year average prices do not include allowances for outstanding loans, government purchases, deficiency payments or disaster payments.

All State prices are based on individual State marketing years, while U.S. marketing year averages are based on standard marketing years for each crop. For a listing of the crop marketing years and the participating States in the monthly program, see *Crop Values*, January 1988. Value of production is computed by multiplying State prices by each State's production. The U.S. value of production is the sum of State values for all States. Value of production figures shown in tables 1156, 1158-1163, 1166, and 1167 should not be confused with cash receipts from farm marketings which relate to sales during a calendar year, irrespective of the year of production.

**Price supports.**—Agricultural income is supplemented through two basic Government-support mechanisms available to producers of eligible commodities: (1) a *market price support* (loan rate) through which producers may place any portion of their production in approved storage and receive a loan at a specified rate. The farmer may repay the loan with interest and retain the commodity or, at the end of the loan period, forfeit the commodity as full payment of the loan; (2) a *farm income support* (target price) whose payments vary inversely with the market price of the specified commodity. "Deficiency payments" are made when market prices for a specified period are below the target prices. The payment rate is the difference between the target price and market price, or between the target price and loan rate, whichever is smaller.

**Livestock.**—Annual inventory numbers of livestock and estimates of livestock, dairy, and poultry production prepared by the Department of Agriculture are based on information from farmers and ranchers obtained by probability survey sampling methods.

**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability pertaining to Census Bureau and Department of Agriculture data, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

### No. 1105. Food and Fiber Sector of Domestic Economy—Employment and Value Added: 1975 to 1989

[Employment in millions; value added in billions of dollars, except as indicated]

SECTOR	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>EMPLOYMENT</b>										
<b>Food and fiber sector, total.</b>	<b>20.3</b>	<b>21.4</b>	<b>21.8</b>	<b>21.5</b>	<b>21.4</b>	<b>21.1</b>	<b>20.7</b>	<b>20.1</b>	<b>19.9</b>	<b>21.1</b>
Percent of domestic economy <sup>1</sup>	21.6	20.1	19.8	19.3	18.9	18.2	17.6	16.7	16.3	17.0
Farm sector	3.0	2.6	2.6	2.8	2.7	2.3	2.2	1.9	1.9	2.5
Nonfarm sector	17.2	18.9	19.2	18.7	18.7	18.7	18.6	18.2	18.0	18.6
Food processing	1.5	1.5	1.6	1.5	1.4	1.5	1.4	1.3	1.2	1.3
Manufacturing	3.3	3.3	3.3	3.1	3.0	2.9	2.8	2.6	2.5	2.6
Transportation, trade, and retailing	5.7	6.4	6.6	6.5	6.6	6.7	6.7	6.6	6.5	6.8
Eating establishments	3.1	3.6	3.5	3.6	3.6	3.6	3.6	3.8	3.8	3.8
Other	3.7	4.0	4.2	4.0	4.1	4.1	4.0	3.9	3.9	4.1
<b>VALUE ADDED<sup>2</sup></b>										
<b>Food and fiber sector, total.</b>	<b>325.7</b>	<b>499.9</b>	<b>611.3</b>	<b>602.7</b>	<b>660.6</b>	<b>698.7</b>	<b>713.8</b>	<b>715.3</b>	<b>730.4</b>	<b>820.6</b>
Percent of domestic economy	20.4	18.3	19.3	17.7	17.5	17.4	16.9	15.8	15.0	15.8
Farm sector	43.3	55.1	75.1	49.8	64.6	71.4	66.0	59.9	53.0	71.4
Nonfarm sector	282.4	444.8	536.2	552.9	596.0	627.4	647.8	655.4	677.4	749.1
Food processing	38.7	56.0	70.0	70.4	75.6	83.7	87.3	83.1	83.0	93.9
Manufacturing	57.0	83.0	97.5	98.0	101.5	102.1	104.7	101.3	104.7	116.0
Transportation, trade, and retailing	96.8	157.5	188.1	196.8	209.8	220.9	226.3	232.2	241.7	262.9
Eating establishments	25.7	42.0	48.1	52.0	55.7	57.5	60.2	65.8	70.3	73.5
Other	64.2	106.3	132.5	135.7	153.5	163.2	169.3	173.0	177.7	202.7

<sup>1</sup> Based on civilian labor force.

<sup>2</sup> Value added equals profits, rent, interest, wages, indirect business taxes, and depreciation.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: Farm Sector Review*, annual.

### No. 1106. Farm Population and Employment: 1970 to 1989

[In thousands, except percent. For definition of farm population, see text, section 23. See also *Historical Statistics, Colonial Times to 1970*, series C 76 and K 1-2 and K 174-176]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Farm population (1974 definition) <sup>1</sup>	(NA)	(NA)	6,051	5,850	5,628	5,787	5,754	5,355	5,226	4,986	4,951	4,801
Percent of resident population	(NA)	(NA)	2.7	2.6	2.4	2.5	2.4	2.2	2.2	2.0	2.0	1.9
Farm population (1969 definition) <sup>1</sup>	9,712	8,864	7,241	7,014	6,880	7,029	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Percent of resident population	4.8	4.2	3.3	3.1	3.0	3.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Farm employment, total <sup>2</sup>	4,523	4,342	3,705	3,330	4,043	3,749	3,405	3,115	2,912	2,897	2,954	2,863
Family member <sup>3</sup>	3,348	3,025	2,402	2,236	2,494	2,271	2,175	2,017	1,873	1,846	1,917	1,935
Hired workers <sup>4</sup>	1,175	1,317	1,303	1,094	1,549	1,478	1,230	1,098	1,039	1,051	1,037	928

NA Not available. <sup>1</sup> April-centered five-quarter averages for 1970 to 1983; annual average for 1984 to 1989. <sup>2</sup> 1970, averages of monthly estimates of employed during last full calendar week ending at least one day before end of month; 1975-1980 annual quarterly averages; 1981, average based on employment data from Jan. and April quarterly surveys; 1982-1983 based on July survey; 1984, average from July and Oct. surveys; 1985-1988 average from April, July and Oct. surveys. 1989 average from Jan., April, July and Oct. surveys. <sup>3</sup> Includes farm operators doing 1 or more hours of farm work and unpaid family members doing 15 or more hours of farm work during survey week. <sup>4</sup> Includes all persons doing 1 or more hours of farm work for pay during survey week. Members of operators' families doing any farm work for cash wages are counted as hired workers.

Source: Population—U.S. Dept. of Agriculture, Economic Research Service and U.S. Bureau of the Census. For 1987 and earlier years, published in U.S. Bureau of the Census, *Current Population Reports*, series P-27, No. 61 and earlier reports. 1988 and 1989, published in U.S. Bureau of the Census, *Current Population Reports*, series P-20, Nos. 439 and 446. Farm employment—U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Farm Labor*, periodic.

### No. 1107. Characteristics of Farm and Nonfarm Families: 1970 to 1989

[As of March. 1970 based on 1969 census farm definition and 1980 and 1989 based on 1974 definition; see text, section 23. 1970, 1980 and 1989 data are based on population controls from 1960, 1970, and 1980 censuses respectively; see text, section 1. Based on Current Population Survey, see text, section 1 and Appendix III. For definition of median, see Guide to Tabular Presentation]

CHARACTERISTIC	1970			1980			1989		
	Total	Farm	Nonfarm	Total	Farm	Nonfarm	Total	Farm	Nonfarm
Total families (1,000)	51,237	2,457	48,781	58,426	1,666	56,760	65,835	1,351	64,484
Persons per family	3.62	3.77	3.61	3.28	3.35	3.27	3.16	3.20	3.16
With own children under 18 (1,000)	28,665	1,169	27,496	30,517	745	29,772	32,269	583	31,685
Mean number of own children	2.33	2.61	2.32	1.89	2.00	1.89	1.82	2.02	1.82
Percent with: 1 or 2 children	63.6	57.2	63.9	77.0	71.5	77.2	80.3	74.5	80.3
3 or 4 children	28.5	29.3	28.5	20.4	24.8	20.3	18.3	22.9	18.2
5 or more children	7.8	13.5	7.6	2.5	3.5	2.5	1.6	2.4	1.6
Percent distribution:									
Married couple	86.7	90.5	86.5	82.5	92.3	82.2	79.1	92.2	78.9
Male householder, no wife present	2.4	4.2	2.3	2.9	3.4	2.9	4.3	3.8	4.3
Female householder, no husband present	10.9	5.3	11.2	14.6	4.4	14.9	16.5	4.1	16.8
2-person families	34.5	37.0	34.3	39.2	42.7	39.1	41.6	41.1	41.6
3-to-5 person families	52.7	46.4	53.1	53.7	47.1	53.9	54.1	52.9	54.1
6-or-more person families	12.9	16.6	12.6	7.1	10.3	7.0	4.4	6.0	4.4
Median family income <sup>1</sup> in constant (1988) dollars	31,872	21,560	32,341	33,581	27,938	33,740	33,742	28,534	33,874

<sup>1</sup> Income for previous year.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 446; and earlier series P-27 reports; and unpublished data.

## No. 1108. Farm Population, by Characteristics: 1970 to 1989

[1970 and 1980, April-centered five-quarter averages; 1985 and 1989 annual averages. For definition of farm population, see text, section 23]

CHARACTERISTIC	FARM POPULATION (1,000)							PERCENT DISTRIBUTION			
	1969 definition		1974 definition					1969 definition, 1970	1974 definition		
	1970	1980	1980	1985	1989				1980	1985	1989
					Total	Male	Female				
<b>Total . . . . .</b>	<b>9,712</b>	<b>7,241</b>	<b>6,051</b>	<b>5,355</b>	<b>4,801</b>	<b>2,501</b>	<b>2,300</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
White . . . . .	8,775	6,828	5,714	5,195	4,678	2,442	2,235	90.4	94.4	97.0	97.4
Black and other races . . . . .	938	413	337	160	123	59	65	9.7	5.6	3.0	2.5
Under 15 years old . . . . .	<sup>1</sup> 2,490	<sup>1</sup> 1,391	<sup>1</sup> 1,146	1,100	990	508	482	<sup>1</sup> 25.6	<sup>1</sup> 18.9	20.5	20.6
15 years old and over . . . . .	<sup>2</sup> 7,222	<sup>2</sup> 5,851	<sup>2</sup> 4,905	4,255	3,811	1,993	1,818	<sup>2</sup> 74.4	<sup>2</sup> 81.1	79.5	79.4
15-19 years old . . . . .	<sup>3</sup> 1,316	<sup>3</sup> 926	<sup>3</sup> 790	456	378	196	181	<sup>3</sup> 13.6	<sup>3</sup> 13.1	8.5	7.9
20-24 years old . . . . .	502	502	444	381	265	144	121	5.2	7.3	7.1	5.5
25-34 years old . . . . .	770	735	606	640	568	305	264	7.9	10.0	12.0	11.8
35-44 years old . . . . .	1,061	862	712	687	652	338	314	10.9	11.8	12.8	13.6
45-64 years old . . . . .	2,452	1,892	1,607	1,342	1,247	641	606	25.2	26.6	25.1	26.0
65 years old and over . . . . .	1,122	934	746	747	702	369	333	11.6	12.3	13.9	14.6
In labor force <sup>4</sup> . . . . .	4,293	3,682	3,139	2,853	2,659	1,620	1,039	59.4	64.0	67.1	69.8
Employed, agriculture . . . . .	2,333	1,722	1,642	1,363	1,226	955	270	32.3	33.5	32.0	32.2
Percent of labor force . . . . .	54.3	46.8	52.3	47.8	46.1	59.0	26.0	(X)	(X)	(X)	(X)
Self-employed . . . . .	1,411	1,083	1,034	896	838	695	143	19.5	21.1	21.1	22.0
Wage and salary workers . . . . .	395	344	326	318	277	222	56	5.5	6.6	7.5	7.3
Unpaid family workers . . . . .	526	295	282	149	110	38	72	7.3	5.7	3.5	2.9
Employed, nonagriculture . . . . .	1,878	1,853	1,415	1,402	1,376	636	740	26.0	28.8	32.9	36.1
Self-employed . . . . .	159	210	161	159	149	85	63	2.2	3.3	3.7	3.9
Wage and salary workers . . . . .	1,698	1,624	1,239	1,237	1,219	550	670	23.5	25.3	29.1	32.0
Unpaid family workers . . . . .	21	19	16	7	8	1	7	0.3	0.3	0.2	0.2
Unemployed . . . . .	82	106	82	88	57	28	29	1.1	1.7	2.1	1.5
Not in labor force <sup>4</sup> . . . . .	2,929	2,169	1,766	1,402	1,152	373	779	40.6	36.0	32.9	30.2

X Not applicable. <sup>1</sup> Persons under 14 years old. <sup>2</sup> Persons 14 years old and over. <sup>3</sup> Persons 14-19 years old. <sup>4</sup> Percent distribution by labor force status based on population, 14 years old and over through 1980; thereafter, 15 years old and over.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 446; series P-27, No. 59 and earlier reports; and unpublished data.

## No. 1109. Farms—Number and Acreage: 1959 to 1990

[Based on census year definition indicated; for definition of farms and farmland, see text, section 23. Data for census years (indicated by italics) have been adjusted for underenumeration and are used as reference points along with data from acreage and livestock surveys in estimating data for other years. Minus sign (-) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series K 4-7]

YEAR	FARMS		LAND IN FARMS		YEAR	FARMS		LAND IN FARMS	
	Num-ber (1,000)	Annual change <sup>1</sup> (1,000)	Total (mil. acres)	Aver-age per farm (acres)		Num-ber (1,000)	Annual change <sup>1</sup> (1,000)	Total (mil. acres)	Aver-age per farm (acres)
<b>1969 DEFINITION</b>					<b>1974 DEFINITION</b>				
<i>1959</i> .....	<i>4,105</i>	<i>-139</i>	<i>1,183</i>	<i>288</i>	<i>1975</i> .....	<i>2,521</i>	(X)	1,059	420
1960 .....	3,963	142	1,176	297	1976 .....	2,497	-24	1,054	422
<i>1964</i> .....	<i>3,457</i>	<i>-127</i>	<i>1,146</i>	<i>332</i>	<i>1977</i> .....	<i>2,456</i>	-41	1,048	427
1965 .....	3,356	101	1,140	340	<i>1978</i> .....	<i>2,436</i>	-20	1,045	429
<i>1969</i> .....	<i>3,000</i>	<i>-89</i>	<i>1,108</i>	<i>369</i>	1979 .....	2,437	1	1,042	428
1970 .....	2,949	-51	1,102	374	1980 .....	2,440	3	1,039	426
1971 .....	2,902	47	1,097	378	1981 .....	2,440	-	1,034	424
1972 .....	2,860	-42	1,092	382	<i>1982</i> .....	<i>2,407</i>	-33	1,028	427
1973 .....	2,823	37	1,088	385	1983 .....	2,379	-28	1,023	430
<i>1974</i> .....	<i>2,795</i>	<i>-28</i>	<i>1,084</i>	<i>388</i>	1984 .....	2,334	45	1,018	436
1975 .....	2,767	28	1,081	391	1985 .....	2,293	-41	1,012	441
1976 .....	2,738	-29	1,078	394	1986 .....	2,250	-43	1,005	447
1977 .....	2,706	32	1,075	397	<i>1987</i> .....	<i>2,213</i>	-37	999	451
<i>1978</i> .....	<i>2,672</i>	<i>-34</i>	<i>1,072</i>	<i>401</i>	1988 .....	2,197	-16	995	453
					1989 .....	2,171	-26	991	457
					1990, prel .....	2,143	-28	988	461

- Represents zero. X Not applicable. <sup>1</sup> Average annual change from preceding year shown. For 1959, change from 1954.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Number of Farms and Land in Farms, 1959-70* (Statistical Bulletin No. 507); *Farms and Land in Farms, 1969-75* (Statistical Bulletin No. 594); *Farm Numbers, 1975-80; Farms and Land in Farms, Final Estimates by States, 1979-1987*; and *Crop Production* (August releases).



**No. 1110. Farms—Number and Acreage, by State: 1980 and 1990**

[1990 data preliminary. Based on 1974 census definition of farms and farmland; see text, section 23. See also *Historical Statistics, Colonial Times to 1970*, series K 4-7]

STATE	FARMS (1,000)		ACREAGE (mil.)		ACREAGE PER FARM		STATE	FARMS (1,000)		ACREAGE (mil.)		ACREAGE PER FARM	
	1980	1990	1980	1990	1980	1990		1980	1990	1980	1990	1980	1990
<b>U.S. ....</b>	<b>2,440</b>	<b>2,143</b>	<b>1,039</b>	<b>988</b>	<b>426</b>	<b>461</b>							
Alabama .....	59	47	12	10	207	219	Missouri .....	120	108	31	30	261	281
Alaska .....	(Z)	(Z)	2	1	3,378	1,724	Montana .....	24	25	62	61	2,801	2,449
Arizona .....	6	8	38	36	5,080	4,615	Nebraska .....	65	57	48	47	734	826
Arkansas .....	59	47	17	16	280	330	Nevada .....	3	3	9	9	3,100	3,560
California .....	81	85	34	31	417	362	New Hampshire .....	3	3	1	(Z)	160	163
Colorado .....	27	27	36	33	1,358	1,249	New Jersey .....	9	8	1	1	109	107
Connecticut .....	4	4	(Z)	(Z)	117	108	New Mexico .....	14	14	47	45	3,467	3,296
Delaware .....	4	3	1	1	186	197	New York .....	47	39	9	8	200	218
Florida .....	39	41	13	11	344	266	North Carolina .....	93	62	12	10	126	156
Georgia .....	59	49	15	13	254	255	North Dakota .....	40	34	42	41	1,043	1,191
Hawaii .....	4	5	2	2	458	372	Ohio .....	95	84	16	16	171	187
Idaho .....	24	22	15	14	623	628	Oklahoma .....	72	70	35	33	481	471
Illinois .....	107	83	29	29	269	343	Oregon .....	35	37	18	18	517	488
Indiana .....	87	68	17	16	193	240	Pennsylvania .....	62	53	9	8	145	153
Iowa .....	119	104	34	34	284	322	Rhode Island .....	1	1	(Z)	(Z)	87	92
Kansas .....	75	69	48	48	644	694	South Carolina .....	34	25	6	5	188	212
Kentucky .....	102	93	15	14	143	152	South Dakota .....	39	35	45	44	1,169	1,266
Louisiana .....	37	34	10	9	273	265	Tennessee .....	96	89	14	12	142	139
Maine .....	8	7	2	1	195	199	Texas .....	196	186	138	132	705	710
Maryland .....	18	15	3	2	157	148	Utah .....	14	13	12	11	919	856
Massachusetts .....	6	7	1	1	116	99	Vermont .....	8	7	2	2	226	216
Michigan .....	65	54	11	11	175	200	Virginia .....	58	46	10	9	169	193
Minnesota .....	104	89	30	30	291	337	Washington .....	38	37	16	16	429	432
Mississippi .....	55	40	15	13	265	325	West Virginia .....	22	21	4	4	191	180
							Wisconsin .....	93	80	19	18	200	220
							Wyoming .....	9	9	35	35	3,846	3,910

Z Less than 500 farms or 500,000 acres.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Farms and Land in Farms, Final Estimates by States, 1979-1987*, and *Crop Production* (August 1990 release).

**No. 1111. Farms—Number, 1974 to 1987, and Acreage, 1978 to 1987, by Size of Farm**

[See also *Historical Statistics, Colonial Times to 1970*, series K 162-173]

SIZE OF FARM	NUMBER OF FARMS (1,000)				LAND IN FARMS (mil. acres)			CROPLAND HARVESTED (mil. acres)			PERCENT DISTRIBUTION, 1987		
	1974	1978	1982	1987	1978	1982	1987	1978	1982	1987	Number of farms	All land in farms	Crop- land har- vested
<b>Total .....</b>	<b>2,314</b>	<b>2,258</b>	<b>2,241</b>	<b>2,088</b>	<b>1,014.8</b>	<b>986.8</b>	<b>964.5</b>	<b>317.1</b>	<b>326.3</b>	<b>282.2</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Under 10 acres .....	128	151	188	183	0.6	0.7	0.7	0.2	0.3	0.2	8.8	0.1	0.1
10-49 acres .....	380	392	449	412	10.9	12.1	11.1	4.5	4.5	3.9	19.8	1.2	1.4
50-99 acres .....	385	356	344	311	25.9	24.8	22.5	10.2	9.5	7.9	14.9	2.3	2.8
100-179 acres .....	443	403	368	334	55.0	49.9	45.3	23.3	21.2	17.1	16.0	4.7	6.1
180-259 acres .....	253	234	211	192	50.6	45.7	41.5	23.7	21.7	17.2	9.2	4.3	6.1
260-499 acres .....	363	348	315	286	124.6	113.0	103.0	64.5	60.5	47.3	13.7	10.7	16.8
500-999 acres .....	207	213	204	200	146.7	140.5	138.5	75.2	77.6	67.4	9.6	14.4	23.9
1,000-1,999 acres .....	93	98	97	102	133.0	132.4	138.8	58.2	64.5	61.1	4.9	14.4	21.7
2,000 acres and over .....	62	63	65	67	467.4	467.5	463.2	57.3	66.6	60.2	3.2	48.0	21.3

**No. 1112. Farms—Number and Acreage, by Tenure of Operator: 1974 to 1987**

[Full owners own all the land they operate. Part owners own a part, and rent from others the rest of the land they operate. See also *Historical Statistics, Colonial Times to 1970*, series K 109-113 and 142-146]

ITEM AND YEAR	Unit	Total	Full owner	Part owner	Tenant	PERCENT DISTRIBUTION			
						Total	Full owner	Part owner	Tenant
<b>Number of farms:</b>									
1974 .....	1,000	2,314	1,424	628	262	100.0	61.5	27.2	11.3
1978 .....	1,000	2,258	1,298	681	279	100.0	57.5	30.1	12.4
1982 .....	1,000	2,241	1,326	656	259	100.0	59.2	29.3	11.5
1987 .....	1,000	2,088	1,239	609	240	100.0	59.3	29.2	11.5
Under 50 acres .....	1,000	596	483	59	53	100.0	81.1	9.9	9.0
50-179 acres .....	1,000	645	449	130	66	100.0	69.6	20.1	10.3
180-499 acres .....	1,000	478	217	195	67	100.0	45.3	40.8	13.9
500-999 acres .....	1,000	200	53	117	31	100.0	26.3	58.3	15.4
1,000 acres or more .....	1,000	169	37	108	23	100.0	22.1	64.2	13.7
<b>Land in farms:</b>									
1974 .....	Mil. acres	1,017	359	535	122	100.0	35.4	52.6	12.0
1978 .....	Mil. acres	1,015	332	561	122	100.0	32.7	55.3	12.0
1982 .....	Mil. acres	987	342	531	114	100.0	34.7	53.8	11.6
1987 .....	Mil. acres	964	318	520	127	100.0	32.9	53.9	13.2

Source of tables 1111 and 1112: U.S. Bureau of the Census, *Census of Agriculture: 1974*, vol. II; 1982, vol. I; and 1987, vol. I.

## No. 1113. Farms—Number, Acreage, and Value, by State: 1982 and 1987

[See also *Historical Statistics, Colonial Times to 1970*, series K 17-18]

REGION, DIVISION, AND STATE	ALL FARMS								FARMS WITH SALES OF \$10,000 OR MORE, 1987			
	Number of farms (1,000)		All land in farms (mil. acres)		Average acreage per farm		Total value <sup>1</sup> (mil. dol.)		Number of farms (1,000)	All land in farms (mil. acres)	Average acreage per farm	Total value <sup>1</sup> (mil. dol.)
	1982	1987	1982	1987	1982	1987	1982	1987				
<b>U.S.</b> .....	<b>2,241</b>	<b>2,088</b>	<b>986.8</b>	<b>964.5</b>	<b>440</b>	<b>462</b>	<b>774,158</b>	<b>604,168</b>	<b>1,060</b>	<b>829.0</b>	<b>782</b>	<b>481,983</b>
<b>Northeast</b> .....	<b>131</b>	<b>123</b>	<b>23.0</b>	<b>21.4</b>	<b>175</b>	<b>174</b>	<b>28,272</b>	<b>32,045</b>	<b>61</b>	<b>18.0</b>	<b>261</b>	<b>22,477</b>
<b>N.E.</b> .....	<b>26</b>	<b>25</b>	<b>4.6</b>	<b>4.2</b>	<b>178</b>	<b>169</b>	<b>5,385</b>	<b>7,866</b>	<b>11</b>	<b>2.8</b>	<b>260</b>	<b>4,695</b>
ME.....	7	6	1.5	1.3	210	214	1,053	1,321	3	0.9	332	746
NH.....	3	2	0.5	0.4	170	169	555	900	1	0.2	283	422
VT.....	6	6	1.6	1.4	249	240	1,305	1,521	3	1.1	325	1,058
MA.....	5	6	0.6	0.6	113	99	1,111	2,154	2	0.4	153	1,275
RI.....	1	1	0.1	0.1	86	84	173	295	(Z)	(Z)	116	155
CT.....	4	4	0.4	0.4	118	111	1,188	1,674	1	0.3	179	1,037
<b>M.A.</b> .....	<b>106</b>	<b>98</b>	<b>18.4</b>	<b>17.2</b>	<b>174</b>	<b>175</b>	<b>22,887</b>	<b>24,179</b>	<b>50</b>	<b>13.1</b>	<b>262</b>	<b>17,783</b>
NY.....	42	38	9.2	8.4	218	223	7,509	8,263	21	6.7	327	6,265
NJ.....	8	9	0.9	0.9	111	99	2,840	3,579	3	0.7	191	2,371
PA.....	56	51	8.3	7.9	149	153	12,538	12,337	26	5.7	221	9,147
<b>Midwest</b> .....	<b>932</b>	<b>862</b>	<b>354.2</b>	<b>350.5</b>	<b>380</b>	<b>407</b>	<b>339,761</b>	<b>228,073</b>	<b>556</b>	<b>314.5</b>	<b>565</b>	<b>201,583</b>
<b>E.N.C.</b> .....	<b>403</b>	<b>365</b>	<b>88.6</b>	<b>86.6</b>	<b>220</b>	<b>237</b>	<b>134,967</b>	<b>96,291</b>	<b>219</b>	<b>76.3</b>	<b>348</b>	<b>83,916</b>
OH.....	87	79	15.4	15.0	177	189	23,287	18,023	40	12.1	305	14,376
IN.....	77	70	16.3	16.2	211	229	26,128	18,716	40	14.4	355	16,267
IL.....	98	89	28.7	28.5	292	321	53,061	35,779	63	27.0	431	33,708
MI.....	59	51	10.9	10.3	187	202	13,389	10,034	24	8.2	340	7,683
WI.....	82	75	17.2	16.6	210	221	19,102	13,740	52	14.5	280	11,881
<b>W.N.C.</b> .....	<b>529</b>	<b>497</b>	<b>265.6</b>	<b>263.8</b>	<b>502</b>	<b>531</b>	<b>204,793</b>	<b>131,782</b>	<b>337</b>	<b>238.3</b>	<b>707</b>	<b>117,667</b>
MN.....	94	85	27.7	26.6	294	312	32,326	16,616	58	23.8	407	16,360
IA.....	115	105	32.6	31.6	283	301	54,349	29,830	83	30.2	365	28,285
MO.....	112	106	29.3	29.2	260	275	25,094	18,634	50	22.7	457	13,904
ND.....	36	35	40.2	40.3	1,104	1,143	17,609	12,934	28	37.9	1,339	12,115
SD.....	37	36	43.8	44.2	1,179	1,214	15,429	11,871	28	37.9	1,339	10,583
NE.....	60	60	45.0	45.3	746	749	31,910	20,828	47	43.0	918	19,590
KS.....	73	69	47.1	46.6	642	680	28,076	19,068	43	42.8	1,002	16,828
<b>South</b> .....	<b>896</b>	<b>824</b>	<b>293.8</b>	<b>281.2</b>	<b>328</b>	<b>341</b>	<b>236,638</b>	<b>207,777</b>	<b>304</b>	<b>221.0</b>	<b>727</b>	<b>145,912</b>
<b>S.A.</b> .....	<b>274</b>	<b>240</b>	<b>57.2</b>	<b>51.2</b>	<b>209</b>	<b>214</b>	<b>69,752</b>	<b>64,886</b>	<b>93</b>	<b>37.4</b>	<b>403</b>	<b>46,003</b>
DE.....	3	3	0.7	0.6	196	205	1,218	1,096	2	0.5	291	932
MD.....	16	15	2.6	2.4	158	162	5,378	5,419	7	1.9	278	3,923
VA.....	52	45	9.4	8.7	182	194	10,622	10,409	16	5.9	377	6,785
WV.....	19	17	3.6	3.4	190	196	2,421	2,255	3	1.4	431	958
NC.....	73	59	10.3	9.4	142	159	13,669	11,845	26	7.1	276	8,281
SC.....	25	20	5.6	4.8	224	232	5,193	4,127	7	3.3	491	2,535
GA.....	50	44	12.3	10.7	248	247	11,166	9,852	18	7.9	439	6,591
FL.....	36	37	12.8	11.2	353	306	20,085	19,884	15	9.4	638	15,999
<b>E.S.C.</b> .....	<b>283</b>	<b>250</b>	<b>49.2</b>	<b>45.6</b>	<b>174</b>	<b>183</b>	<b>46,466</b>	<b>38,811</b>	<b>82</b>	<b>30.4</b>	<b>372</b>	<b>24,361</b>
KY.....	102	92	14.2	14.0	140	152	14,661	12,545	34	9.4	276	8,301
TN.....	91	80	12.5	11.7	138	147	12,592	11,648	22	7.2	329	6,450
AL.....	48	43	10.2	9.1	211	211	8,290	7,284	14	5.9	424	4,383
MS.....	42	34	12.4	10.7	293	315	10,923	7,333	12	7.9	662	5,228
<b>W.S.C.</b> .....	<b>340</b>	<b>335</b>	<b>187.3</b>	<b>184.4</b>	<b>551</b>	<b>551</b>	<b>120,420</b>	<b>104,079</b>	<b>129</b>	<b>153.3</b>	<b>1,184</b>	<b>75,548</b>
AR.....	51	48	14.7	14.4	291	298	14,460	10,884	21	11.2	522	8,285
LA.....	32	27	8.9	8.0	282	293	12,070	7,348	11	6.4	607	5,476
OK.....	73	70	32.4	31.5	446	449	22,556	15,102	29	25.1	878	11,007
TX.....	185	189	131.3	130.5	710	691	71,334	70,746	69	110.5	1,606	50,779
<b>West</b> .....	<b>280</b>	<b>278</b>	<b>315.7</b>	<b>311.3</b>	<b>1,129</b>	<b>1,118</b>	<b>169,487</b>	<b>136,274</b>	<b>139</b>	<b>277.5</b>	<b>1,999</b>	<b>112,011</b>
<b>MT</b> .....	<b>122</b>	<b>124</b>	<b>246.1</b>	<b>244.1</b>	<b>1,857</b>	<b>1,965</b>	<b>76,179</b>	<b>62,906</b>	<b>67</b>	<b>218.3</b>	<b>3,271</b>	<b>52,816</b>
MT.....	24	25	60.2	60.2	2,568	2,451	15,866	12,418	16	54.4	3,427	10,770
ID.....	25	24	13.9	13.9	563	577	11,353	8,126	14	12.0	881	6,951
WY.....	9	9	33.5	33.6	3,781	3,650	6,484	4,909	5	28.4	5,183	3,923
CO.....	27	27	33.5	34.0	1,237	1,248	15,228	12,519	15	30.6	2,030	10,284
NM.....	13	14	47.1	46.0	3,493	3,230	8,322	8,291	6	41.3	7,319	6,657
AZ.....	7	8	37.8	36.3	5,148	4,732	10,972	10,111	4	33.7	9,411	9,125
UT.....	14	14	9.8	10.0	699	710	5,445	4,259	6	8.6	1,452	3,152
NV.....	3	3	10.0	10.0	3,671	3,300	2,509	2,272	1	9.3	6,288	1,955
<b>Pac</b> .....	<b>158</b>	<b>154</b>	<b>69.6</b>	<b>67.3</b>	<b>441</b>	<b>466</b>	<b>93,307</b>	<b>73,367</b>	<b>72</b>	<b>59.2</b>	<b>821</b>	<b>59,195</b>
WA.....	36	34	16.5	16.1	456	480	15,271	11,948	15	13.8	901	9,173
OR.....	34	32	17.7	17.8	520	556	12,665	9,597	12	15.4	1,319	6,941
CA.....	82	83	32.2	30.6	390	368	61,532	48,567	43	27.7	647	40,689
AK.....	(Z)	1	1.3	1.0	2,323	1,789	264	317	(Z)	0.6	3,411	146
HI.....	5	5	2.0	1.7	426	353	3,575	2,938	2	1.6	798	2,246

Z Less than 500 farms or 50,000 acres. <sup>1</sup> Value of land and buildings. Based on reports for a sample of farms.Source: U.S. Bureau of the Census, *Census of Agriculture: 1987*, vol. 1.

**No. 1114. Farm Operators—Tenure and Characteristics: 1982 and 1987**[In thousands, except as indicated. See also *Historical Statistics, Colonial Times to 1970*, series K 82-113]

CHARACTERISTIC	ALL FARMS		FARMS WITH SALES OF \$10,000 AND OVER		CHARACTERISTIC	ALL FARMS		FARMS WITH SALES OF \$10,000 AND OVER	
	1982	1987	1982	1987		1982	1987	1982	1987
<b>Total operators</b> . . . . .	2,241	2,088	1,143	1,060					
White . . . . .	2,187	2,043	1,127	1,046	Principal occupation:				
Black . . . . .	33	23	7	4	Farming . . . . .	1,235	1,138	901	811
American Indian, Eskimos, and Aleuts . . . . .	7	7	2	2	Other . . . . .	1,006	950	242	248
Asian or Pacific Islander . . . . .	6	8	5	5	Place of residence: <sup>2</sup>				
Other . . . . .	6	7	2	2	On farm operated . . . . .	1,581	1,488	833	776
Operators of Hispanic origin <sup>1</sup> . . . . .	16	17	6	6	Not on farm operated . . . . .	429	443	202	215
Female . . . . .	122	132	37	42	Years on present farm: <sup>2</sup>				
Under 25 years old . . . . .	62	36	39	21	2 years or less . . . . .	127	114	53	49
25-34 years old . . . . .	294	243	173	147	3-4 years . . . . .	193	135	83	56
35-44 years old . . . . .	443	411	223	212	5-9 years . . . . .	360	304	167	138
45-54 years old . . . . .	505	455	264	228	10 years or more . . . . .	1,098	1,163	638	653
55-64 years old . . . . .	536	496	288	263	Days worked off farm: <sup>2</sup>				
65 years old and over . . . . .	400	447	156	188	None . . . . .	862	844	591	561
Average age (years) . . . . .	50.5	52.0	49.1	50.6	Less than 100 days . . . . .	224	200	141	124
Full owner . . . . .	1,326	1,239	482	445	100-199 days . . . . .	189	178	77	80
Part owner . . . . .	656	609	491	454	200 days or more . . . . .	775	737	213	219
Tenant . . . . .	259	240	170	161					

<sup>1</sup> Operators of Hispanic origin may be of any race. <sup>2</sup> Excludes not reported.**No. 1115. Farms—Number, Acreage, and Value, by Type of Organization: 1982 and 1987**

[Data for 1982 exclude abnormal farms (institutional farms, experimental and research farms, Indian reservations, etc.)]

ITEM	Unit	Total <sup>1</sup>	Individual or family	Partner- ship	Corporation	PERCENT DISTRIBUTION			
						Total <sup>1</sup>	Individual or family	Partner- ship	Corporation
ALL FARMS									
Number of farms: 1982 .....	1,000 .....	2,239	1,946	223	60	100.0	86.9	10.0	2.7
1987 .....	1,000 .....	2,088	1,809	200	67	100.0	86.7	9.6	3.2
Land in farms: 1982 .....	Mil. acres. ....	932	642	152	127	100.0	88.9	16.3	13.6
1987 .....	Mil. acres. ....	964	628	153	119	100.0	85.1	15.9	12.4
Value of land and buildings: <sup>2</sup> 1982 .....	Bil. dol. ....	763	547	119	90	100.0	71.7	15.6	11.8
1987 .....	Bil. dol. ....	604	424	95	69	100.0	70.1	15.7	11.4
Value of farm products sold: 1982 .....	Bil. dol. ....	132	78	22	31	100.0	59.2	16.4	23.9
1987 .....	Bil. dol. ....	136	77	23	35	100.0	56.3	17.1	25.6
FARMS WITH SALES OF \$10,000 AND OVER									
Number of farms: 1982 .....	1,000 .....	1,143	934	152	52	100.0	81.7	13.3	4.6
1987 .....	1,000 .....	1,060	861	136	56	100.0	81.3	12.8	5.3
Land in farms: 1982 .....	Mil. acres. ....	811	536	141	124	100.0	66.1	17.4	15.3
1987 .....	Mil. acres. ....	829	525	143	116	100.0	63.3	17.3	14.0

<sup>1</sup> Includes other types, not shown separately. <sup>2</sup> Based on a sample of farms.**No. 1116. Corporate Farms—Characteristics, by Type: 1987**

ITEM	Unit	All corporations	FAMILY HELD CORPORATIONS			OTHER CORPORATIONS		
			Total	1-10 stock-holders	11 or more stock-holders	Total	1-10 stock-holders	11 or more stock-holders
Farms . . . . .	Number . . .	66,969	60,771	59,599	1,172	6,198	5,379	819
Percent distribution . . . . .	Percent . . .	100.0	90.7	89.0	1.8	9.3	8.0	1.2
Land in farms . . . . .	Mil. acres. . .	119.4	106.0	98.2	7.7	13.4	8.7	4.7
Average per farm . . . . .	Acres . . .	1,783	1,743	1,648	6,596	2,167	1,620	5,757
Value of—								
Land and buildings <sup>1</sup> . . . . .	Bil. dol. . .	68.6	58.6	55.5	3.1	10.0	6.6	3.4
Average per farm . . . . .	\$1,000 . . .	1,055	1,008	973	2,714	1,453	1,098	3,752
Farm products sold . . . . .	Bil. dol. . .	34.9	26.6	24.5	2.0	8.3	5.9	2.4
Average per farm . . . . .	\$1,000 . . .	521	437	411	1,749	1,341	1,096	2,953

<sup>1</sup> Based on a sample of farms.Source of tables 1114-1116: U.S. Bureau of the Census, *1987 Census of Agriculture*, vol. 1.

## No. 1117. Individual and Family Farms—Selected Characteristics: 1987

SIZE OF FARM AND VALUE OF SALES	INDIVIDUAL AND FAMILY FARMS			ITEM	Unit	All farms	INDIVIDUAL AND FAMILY FARMS	
	Num- ber (1,000)	Per- cent distrib- ution	Per- cent of all farms				Amount	Per- cent of all farms
<b>Farms, total</b> . . . . .	<b>1,809</b>	<b>100.0</b>	<b>86.7</b>	Land in farms . . . . .	Mil. acres	964	628	65.1
Under 50 acres . . . . .	537	29.7	90.2	Average size of farm . . . . .	Acres . . .	462	347	(X)
50-179 acres . . . . .	582	32.2	90.2					
180-499 acres . . . . .	411	22.7	85.9	Value of land and bldgs <sup>1</sup> . . . . .	Bil. dol . .	604	424	70.1
500-999 acres . . . . .	161	8.9	80.6	Average per farm . . . . .	\$1,000 . .	289	235	(X)
1,000 acres or more . . . . .	118	6.5	70.1	Average per acre . . . . .	Dollars . .	627	677	(X)
Less than \$2,500 . . . . .	457	25.2	93.1	Value of farms products sold . . . . .	Bil. dol . .	136	77	56.3
\$2,500-\$4,999 . . . . .	242	13.4	92.2	Average per farm . . . . .	\$1,000 . .	65	42	(X)
\$5,000-\$9,999 . . . . .	249	13.8	90.5	Crops . . . . .	Bil. dol . .	59	33	56.0
\$10,000-\$24,999 . . . . .	286	15.8	87.7	Grains . . . . .	Bil. dol . .	28	20	72.2
\$25,000-\$49,999 . . . . .	188	10.4	85.7	Livestock, poultry and their products <sup>3</sup> . . . . .	Bil. dol . .	77	44	56.5
\$50,000-\$99,999 . . . . .	182	10.1	83.4	Cattle, calves . . . . .	Bil. dol . .	36	18	49.0
\$100,000-\$249,999 . . . . .	154	8.5	76.4	Dairy products . . . . .	Bil. dol . .	16	11	66.4
\$250,000-\$499,999 . . . . .	38	2.1	61.5	Poultry, poultry products . . . . .	Bil. dol . .	13	7	58.3
\$500,000-\$999,999 . . . . .	10	0.6	47.6	Hogs and pigs . . . . .	Bil. dol . .	10	7	67.1
\$1,000,000 or more . . . . .	3	0.2	28.2					

X Not applicable. <sup>1</sup> Based on a sample of farms. <sup>2</sup> Includes nursery and greenhouse products. <sup>3</sup> Includes other commodities, not shown separately.

## No. 1118. Farms—Number, Acreage, and Value of Sales, by Size of Sales: 1987

VALUE OF PRODUCTS SOLD	Farms (1,000)	ACREAGE		VALUE OF SALES		PERCENT DISTRIBUTION		
		Total (mil.)	Average per farm	Total (mil. dol.)	Average per farm (dol.)	Farms	Acre- age	Value of sales
<b>Total</b> . . . . .	<b>2,088</b>	<b>964.5</b>	<b>462</b>	<b>136,049</b>	<b>65,165</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Less than \$10,000 . . . . .	1,028	135.4	132	3,404	3,311	49.2	14.0	2.5
Occupation—Farming . . . . .	327	(NA)	(NA)	(NA)	(NA)	15.7	(NA)	(NA)
Occupation—Other than farming . . . . .	701	(NA)	(NA)	(NA)	(NA)	33.6	(NA)	(NA)
Less than \$2,500 . . . . .	490	59.8	122	498	1,016	23.5	6.2	.4
\$2,500-\$4,999 . . . . .	263	30.0	114	946	3,598	12.6	3.1	.7
\$5,000-\$9,999 . . . . .	275	45.8	166	1,960	7,128	13.2	4.7	1.4
\$10,000 or more . . . . .	1,060	829.0	782	132,645	125,180	50.8	86.1	97.5
\$10,000-\$24,999 . . . . .	326	92.3	283	5,244	16,079	15.8	9.6	3.9
\$25,000-\$49,999 . . . . .	220	110.6	504	7,889	35,826	10.5	11.5	5.8
\$50,000-\$99,999 . . . . .	218	162.0	743	15,661	71,825	10.4	16.8	11.5
\$100,000-\$249,999 . . . . .	203	225.0	1,111	31,178	153,929	9.7	23.3	22.9
\$250,000-\$499,999 . . . . .	61	113.6	1,858	20,740	339,172	2.9	11.8	15.2
\$500,000-\$999,999 . . . . .	21	62.8	3,002	14,076	672,543	1.0	6.5	10.3
\$1,000,000 or more . . . . .	11	62.7	5,655	37,876	3,414,401	0.5	6.5	27.8

NA Not available. <sup>1</sup> Occupation determined by 50 percent or more of work time on farm or other occupation.

## No. 1119. Farms—Number, Acreage, and Value of Sales, by Type of Farm: 1987

[Farms were classified in a particular group if its sales for that product group amounted to 50 percent or more of the total value of farm products sold. The Standard Industrial Classification (SIC) code for each farm type is shown in parentheses. Based on the 1987 SIC Manual; see text, section 13]

ITEM	Unit	Total	Cash grains <sup>1</sup> (011)	Cotton (0131)	Tobacco (0132)	Vegetables, melons (016)	Fruits and tree nuts (017)	Livestock <sup>2</sup> (021)	Dairy farms (024)	Poultry, eggs (025)	All other
Number of farms . . . . .	1,000 . .	2,088	458	28	92	29	88	892	138	38	324
With sales under \$10,000 . . . . .	Percent .	49.2	29.5	12.5	66.1	43.7	53.0	60.8	2.3	16.7	67.3
With sales between \$10,000 and \$49,999 . . . . .	Percent .	26.1	37.8	27.2	25.6	29.6	24.6	24.4	24.8	6.6	17.7
With sales of \$50,000 or more . . . . .	Percent .	24.6	32.7	60.3	8.3	26.7	22.4	14.9	72.9	76.7	15.0
Land in farms . . . . .	Mil. acres	964	247	23	10	6	10	521	44	5	99
Products sold, value . . . . .	Mil. dol .	136,049	24,919	4,282	1,641	4,459	7,001	45,447	17,994	13,060	17,246
<b>Percent distribution:</b>											
Number of farms . . . . .	Percent .	100.0	22.0	1.3	4.2	1.4	4.2	42.7	6.6	1.8	15.7
Land in farms . . . . .	Percent .	100.0	25.6	2.4	1.1	0.6	1.0	54.0	4.6	0.5	10.2
Products sold, value . . . . .	Percent .	100.0	18.3	3.1	1.2	3.3	5.1	33.4	13.2	9.6	12.7

<sup>1</sup> Includes wheat, rice, corn for grain, soybeans, and other cash grains. <sup>2</sup> Excludes dairy, poultry, and animal specialty farms.

Source of tables 1117-1119: U.S. Bureau of the Census, 1987 Census of Agriculture, vol. 1.

## No. 1120. Irrigated Farms and Acreage, by State: 1982 and 1987

[See also *Historical Statistics, Colonial Times to 1970*, series J 85-91]

STATE	IRRIGATED FARMS				LAND IN IRRIGATED FARMS				IRRIGATED LAND			
	Number (1,000)		Percent of all farms		Acreage (1,000)		Percent of all land in farms		Acreage (1,000)		Percent of all land in farms	
	1982	1987	1982	1987	1982	1987	1982	1987	1982	1987	1982	1987
U.S. <sup>1</sup>	278.3	291.6	12.4	13.9	246,603	241,069	24.9	24.9	49,002	46,386	5.0	4.8
Arizona	4.4	4.2	60.4	55.3	18,871	17,167	49.9	47.3	1,098	914	2.9	2.5
California	58.4	58.9	70.8	70.7	18,402	17,567	57.2	57.4	8,461	7,596	26.3	24.8
Colorado	15.2	14.9	56.1	54.6	17,351	16,729	51.7	49.1	3,201	3,014	9.5	8.9
Florida	10.6	12.0	29.0	32.7	5,529	4,670	43.1	41.7	1,585	1,623	12.4	14.5
Idaho	17.4	16.6	70.2	68.6	9,168	9,053	65.8	64.9	3,450	3,219	24.8	23.1
Kansas	7.3	7.4	9.8	10.7	10,345	10,654	21.9	22.8	2,675	2,463	5.7	5.3
Louisiana	3.7	3.9	11.6	14.3	2,273	2,337	25.4	29.1	694	647	7.6	8.1
Montana	9.2	9.5	39.1	38.7	24,171	23,259	39.9	38.6	2,023	1,997	3.3	3.3
Nebraska	22.2	22.6	36.8	37.3	22,679	22,499	50.4	49.6	6,039	5,682	13.4	12.5
Nevada	2.2	2.2	79.2	73.3	7,881	7,806	78.9	78.1	830	779	8.3	7.8
New Mexico	6.2	7.0	45.9	49.2	14,755	12,385	31.3	26.9	807	718	1.7	1.6
North Dakota	0.8	0.8	2.2	2.2	1,416	1,497	3.5	3.7	163	168	0.4	0.4
Oklahoma	3.1	3.0	4.2	4.3	2,926	2,906	9.0	9.2	492	478	1.5	1.5
Oregon	15.3	14.4	44.9	45.0	11,382	11,340	64.1	63.6	1,808	1,648	10.2	9.3
South Dakota	1.8	1.9	4.8	5.1	4,198	3,791	9.5	8.5	376	362	0.9	0.8
Texas	19.8	19.8	10.6	10.4	22,161	20,270	16.8	15.5	5,576	4,271	4.2	3.3
Utah	11.2	11.1	79.9	79.2	7,598	7,594	77.7	76.0	1,082	1,161	11.1	11.6
Washington	16.3	15.4	45.0	45.9	6,003	5,468	36.4	33.9	1,638	1,519	9.9	9.4
Wyoming	5.3	5.2	59.6	56.7	18,132	18,207	54.1	54.1	1,565	1,518	4.7	4.5

<sup>1</sup> Includes other States not shown separately.Source: U.S. Bureau of the Census, *1987 Census of Agriculture*, vol. 1.

## No. 1121. Foreign Ownership of U.S. Agricultural Land: 1989

[In thousands of acres, except percent. Covers "foreign persons" reporting under the Agricultural Foreign Investment Disclosure Act of 1978. As defined in the Act, a "foreign person" is any person who is not a U.S. citizen and who is not a permanent resident alien of the U.S. Foreign governments and entities are also "foreign persons." Also, each successive link in a chain of U.S. entities containing foreign interests is considered a "foreign person." An entity is deemed a "foreign person" if it is 10 percent or more foreign owned by a single foreign person or foreign persons acting in concert, or 50 percent foreign owned by a group of foreign persons not acting in concert, none of whom individually holds a 10 percent or greater interest in the entity. Therefore, acreage figures reported do not necessarily mean that they are wholly owned by foreign investors. Covers reports received and accepted as of December 31, 1989]

CHARACTERISTIC	ACREAGE OWNED <sup>1</sup>		ACREAGE ACQUIRED <sup>2</sup>		CHARACTERISTIC	ACREAGE OWNED <sup>1</sup>		ACREAGE ACQUIRED <sup>2</sup>	
	Total	Per- cent	Total	Per- cent		Total	Per- cent	Total	Per- cent
Total <sup>3</sup>	12,876	100.0	306	100.0					
Type of owner:					Country of foreign owner:				
Corporation	10,451	81.2	253	82.7	Canada	1,658	12.9	94	30.7
Partnership	1,243	9.7	22	7.2	Netherlands Antilles	385	3.0	1	0.3
Individual	974	7.6	30	9.8	Switzerland	216	1.7	8	2.6
Other	208	1.6	1	0.3	United Kingdom	295	2.3	6	2.0
Size:					West Germany	740	5.7	24	7.8
Less than 100 acres	132	1.0	3	0.9	Through U.S. interest: <sup>4</sup>				
100-299 acres	308	2.4	9	2.9	Canada	1,385	10.8	31	10.1
300-999 acres	907	7.0	24	7.8	France	828	6.4	23	7.5
1,000 acres or more	11,529	89.5	270	88.2	Luxembourg	233	1.8	-	-
Land use:					Netherlands	340	2.6	7	2.3
Cropland	2,328	18.1	59	19.3	Netherlands Antilles	230	1.8	1	0.3
Pasture	3,354	26.0	40	13.1	Switzerland	281	2.2	8	2.7
Forest	5,962	46.3	152	49.7	United Kingdom	2,427	18.8	14	4.6
Other agriculture	626	4.9	33	10.8	West Germany	417	3.2	1	0.3
Other nonagriculture	606	4.7	22	7.2					

- Represents or rounds to zero. <sup>1</sup> Landholdings by foreign interests as of Dec. 31. <sup>2</sup> Acquisitions by foreign interests from Jan. 1-Dec. 31, 1989. <sup>3</sup> Includes other countries not shown separately. <sup>4</sup> Reports filed by U.S. corporations with foreign shareholders.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Foreign Ownership of U.S. Agricultural Land Through December 31, 1989* (Economic Research Service Staff Report AGES 9026), 1990.

## No. 1122. Farm Real Estate—Summary: 1980 to 1990

[1980-1981 and 1986-1989, value data as of Feb. 1; 1982-1985, as of April 1; 1990, as of January 1. Excludes Alaska and Hawaii. Total value of land and buildings is estimated by multiplying the number of acres of farmland by the average value per acre of land and buildings. Per acre values are based on data from the census of agriculture. For intercensal years, estimates are made using indexes of average value per acre based on surveys conducted by the U.S. Dept. of Agriculture]

ITEM	Unit	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total value	Bill. dol	763.3	843.7	843.3	803.9	812.9	719.4	641.1	597.1	626.9	659.4	685.0
Average value per acre	Dollars	737	819	823	788	801	713	640	599	632	667	693
Average value, operating unit	\$1,000	313.5	346.5	351.2	338.7	349.1	314.5	285.6	270.5	286.0	304.2	316.0

Source: U.S. Dept. of Agriculture, Economic Research Service, 1980-1984, *Farm Real Estate Market Developments*, annual; thereafter, *Agricultural Resources, Agricultural Land Values and Markets, Situation and Outlook Report*, annual.

## No. 1123. Farm Real Estate—Value of Land and Buildings, by State: 1980 to 1990

[See headnote, table 1122. See also *Historical Statistics, Colonial Times to 1970*, series K 16]

STATE	VALUE OF LAND AND BUILDINGS (mil. dol.)						AVERAGE VALUE OF LAND AND BUILDINGS, PER ACRE					
	1980	1985	1987	1988	1989	1990	1980	1985	1987	1988	1989	1990
U.S. ....	763,285	719,398	597,110	626,909	659,381	685,048	\$737	\$713	\$599	\$632	\$667	\$693
Alabama . . . . .	9,516	8,929	8,407	8,480	8,819	9,348	780	797	786	800	832	882
Arizona . . . . .	10,173	11,062	11,071	10,184	9,944	9,645	267	295	299	279	276	268
Arkansas . . . . .	15,147	14,425	11,434	12,024	12,306	12,183	918	907	724	761	784	776
California . . . . .	48,131	59,829	49,559	49,770	52,255	54,868	1,424	1,841	1,554	1,575	1,670	1,753
Colorado . . . . .	13,932	15,042	12,512	12,435	12,362	12,362	387	437	368	369	369	369
Connecticut . . . . .	1,170	1,442	1,565	1,835	1,964	1,964	2,387	3,005	3,557	4,171	4,463	4,463
Delaware . . . . .	1,169	1,037	1,040	1,041	1,218	1,377	1,798	1,596	1,677	1,765	2,065	2,334
Florida . . . . .	18,505	19,346	18,775	20,585	21,251	23,801	1,381	1,599	1,605	1,790	1,897	2,125
Georgia . . . . .	13,440	11,968	11,554	11,960	12,635	13,267	896	886	889	920	1,003	1,053
Idaho . . . . .	10,610	10,711	7,612	7,836	8,228	9,380	698	739	552	572	601	685
Illinois . . . . .	58,781	39,647	32,865	36,093	39,564	40,355	2,041	1,381	1,149	1,262	1,388	1,416
Indiana . . . . .	31,298	22,049	17,194	18,991	20,510	21,126	1,863	1,344	1,061	1,158	1,251	1,288
Iowa . . . . .	62,192	38,653	26,334	31,725	37,118	37,860	1,840	1,091	786	947	1,108	1,130
Kansas . . . . .	28,352	23,443	17,861	19,783	20,970	22,647	587	448	373	413	438	473
Kentucky . . . . .	14,250	13,849	12,649	12,813	13,105	14,677	976	955	878	896	923	1,034
Louisiana . . . . .	12,686	13,791	8,564	8,554	8,917	8,739	1,256	1,407	921	940	959	940
Maine . . . . .	959	1,153	1,284	1,395	1,493	1,493	594	774	885	962	1,029	1,029
Maryland . . . . .	6,154	5,711	4,921	5,313	5,720	5,778	2,238	2,197	2,009	2,261	2,487	2,512
Massachusetts . . . . .	1,158	1,616	2,078	2,416	2,585	2,585	1,608	2,377	3,012	3,553	3,802	3,802
Michigan . . . . .	12,665	12,517	10,164	10,584	10,801	11,449	1,111	1,108	924	971	1,000	1,060
Minnesota . . . . .	32,906	27,311	17,605	21,000	22,470	24,942	1,086	898	587	700	749	831
Mississippi . . . . .	11,957	12,054	9,451	9,410	9,548	10,026	819	855	685	697	718	754
Missouri . . . . .	28,232	21,234	18,479	19,520	20,623	21,448	902	689	604	640	678	706
Montana . . . . .	14,546	14,800	12,138	12,444	12,671	14,699	235	243	200	205	209	243
Nebraska . . . . .	30,290	22,911	18,886	21,525	24,753	26,486	635	485	400	457	526	562
Nevada . . . . .	2,230	2,171	2,138	2,020	2,081	1,790	248	244	240	227	234	201
New Hampshire . . . . .	547	777	923	1,077	1,153	1,153	1,004	1,439	1,847	2,112	2,260	2,260
New Jersey . . . . .	3,006	2,833	3,356	3,493	4,086	4,168	2,947	2,951	3,729	3,969	4,644	4,737
New Mexico . . . . .	8,658	8,324	6,974	8,010	8,571	8,914	185	185	156	180	193	200
New York . . . . .	6,768	7,464	8,350	8,540	8,842	8,753	720	820	960	993	1,053	1,042
North Carolina . . . . .	14,262	14,373	13,220	13,009	13,368	13,254	1,219	1,331	1,259	1,263	1,339	1,325
North Dakota . . . . .	16,888	15,253	12,319	12,951	13,307	14,106	405	373	303	319	329	348
Ohio . . . . .	28,026	19,203	17,115	18,704	20,081	19,880	1,730	1,215	1,097	1,199	1,271	1,258
Oklahoma . . . . .	21,244	19,691	15,686	15,840	17,266	16,920	614	597	475	480	523	513
Oregon . . . . .	10,625	11,077	9,676	9,648	9,648	10,709	587	615	541	542	542	602
Pennsylvania . . . . .	13,176	12,416	12,939	13,106	15,667	15,667	1,464	1,427	1,540	1,579	1,911	1,911
Rhode Island . . . . .	186	218	247	347	371	371	2,523	2,980	3,389	4,748	5,080	5,080
South Carolina . . . . .	5,760	4,939	4,197	4,616	5,032	5,032	900	898	792	871	949	949
South Dakota . . . . .	13,140	12,856	10,548	11,917	12,989	14,938	292	289	238	269	293	337
Tennessee . . . . .	13,274	12,650	11,790	12,613	12,865	13,251	976	944	936	1,001	1,021	1,052
Texas . . . . .	60,255	94,025	72,664	71,808	68,218	66,853	436	694	546	544	517	506
Utah . . . . .	6,572	5,947	5,101	4,803	4,803	4,562	530	513	451	425	425	404
Vermont . . . . .	1,255	1,515	1,704	1,708	1,828	1,828	721	947	1,114	1,124	1,203	1,203
Virginia . . . . .	10,074	10,588	10,497	10,902	12,184	14,377	1,028	1,112	1,154	1,198	1,354	1,597
Washington . . . . .	11,997	15,187	12,095	11,824	12,297	13,035	736	943	756	739	769	815
West Virginia . . . . .	2,810	2,186	2,343	2,523	2,650	2,411	669	607	633	682	716	652
Wisconsin . . . . .	18,674	16,905	13,761	14,620	15,264	15,264	1,004	944	777	826	867	867
Wyoming . . . . .	5,638	6,287	5,464	5,116	4,962	5,309	161	181	157	147	143	153

Source: U.S. Dept. of Agriculture, Economic Research Service, 1980, *Farm Real Estate Market Developments*, annual; beginning 1985, *Agricultural Resources, Agricultural Land Values and Markets, Situation and Outlook Report*, annual.

### No. 1124. Balance Sheet of the Farming Sector In Current and Constant (1982) Dollars: 1970 to 1989

[In billions of dollars, except as indicated. As of December 31. Includes farm operator households. See *Historical Statistics, Colonial Times to 1970*, series K 204-219, for data before revisions]

ITEM	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>CURRENT DOLLARS</b>											
<b>Assets</b>	<b>324.0</b>	<b>1,088.2</b>	<b>1,088.4</b>	<b>1,046.6</b>	<b>1,056.4</b>	<b>969.2</b>	<b>885.8</b>	<b>841.0</b>	<b>886.8</b>	<b>938.5</b>	<b>972.2</b>
Physical assets:											
Real estate	224.5	850.1	851.7	812.2	821.8	727.7	650.0	606.0	633.5	665.8	688.1
Non-real estate	76.4	198.7	195.8	194.7	190.0	193.7	186.5	181.3	196.6	214.7	225.4
Livestock and poultry	23.7	60.6	53.5	53.0	49.5	49.5	46.3	47.8	58.0	65.5	69.7
Machinery, motor vehicles	34.4	86.9	92.5	92.6	92.1	91.1	88.3	86.1	84.5	85.7	88.2
Crops stored	8.4	31.9	29.0	26.1	24.0	26.2	22.9	16.7	18.0	23.0	23.5
Household furnishings, equipment	10.0	19.4	20.8	23.0	24.4	24.3	27.8	28.7	32.9	37.0	41.3
Purchased inputs	(NA)	(NA)	(NA)	(NA)	(NA)	2.6	1.3	2.0	3.3	3.4	2.8
Financial assets:	23.0	39.3	40.9	39.7	44.6	47.7	49.3	53.8	56.7	58.0	58.7
Investment in cooperatives	7.0	19.3	20.6	21.9	22.8	24.3	24.3	24.4	25.3	25.1	26.1
Other financial assets	16.0	20.0	20.3	17.8	21.8	23.5	25.0	29.4	31.4	32.9	32.6
<b>Claims</b>	<b>324.0</b>	<b>1,088.2</b>	<b>1,088.4</b>	<b>1,046.6</b>	<b>1,056.4</b>	<b>969.2</b>	<b>885.8</b>	<b>841.0</b>	<b>886.8</b>	<b>938.5</b>	<b>972.2</b>
Debt	52.8	178.7	195.4	203.1	206.4	204.3	187.9	166.6	153.7	148.5	146.0
Real estate debt	30.5	97.5	107.2	111.3	113.7	112.3	105.7	95.9	87.7	83.0	80.5
Non-real estate debt	22.3	81.2	88.2	91.8	92.7	92.0	82.2	70.8	66.0	65.6	65.5
Equity	271.2	909.5	893.0	843.4	850.0	764.9	697.9	674.4	733.1	790.0	826.3
<b>Farm debt/asset ratio (percent)</b>	<b>16.3</b>	<b>16.4</b>	<b>18.0</b>	<b>19.4</b>	<b>19.5</b>	<b>21.1</b>	<b>21.2</b>	<b>19.8</b>	<b>17.3</b>	<b>15.8</b>	<b>15.0</b>
<b>CONSTANT (1982) DOLLARS <sup>2</sup></b>											
<b>Assets</b>	<b>771.4</b>	<b>1,269.8</b>	<b>1,157.9</b>	<b>1,046.6</b>	<b>1,016.7</b>	<b>899.9</b>	<b>798.7</b>	<b>739.0</b>	<b>755.4</b>	<b>773.7</b>	<b>769.8</b>
Physical assets:											
Real estate	534.6	992.0	906.0	812.2	790.9	675.7	586.1	532.5	539.6	548.9	544.8
Non-real estate	182.0	231.9	208.3	194.7	182.9	179.9	168.2	159.3	167.5	177.0	178.5
Livestock and poultry	56.4	70.7	56.9	53.0	47.6	46.0	41.7	42.0	49.4	54.0	55.1
Machinery, motor vehicles	81.8	101.4	98.4	92.6	88.6	84.6	79.6	75.7	72.0	70.7	69.8
Crops stored	20.0	37.2	30.9	26.1	23.1	24.3	20.6	14.7	15.3	19.0	18.6
Household furnishings, equipment	23.7	22.6	22.1	23.0	23.5	22.5	25.1	25.2	28.0	30.5	32.7
Purchased inputs	(NA)	(NA)	(NA)	(NA)	(NA)	2.5	1.1	1.8	2.8	2.8	2.2
Financial assets:	54.8	45.9	43.5	39.7	42.9	44.3	44.5	47.3	48.3	47.8	46.5
Investment in cooperatives	16.7	22.5	21.9	21.9	21.9	22.5	21.9	21.5	21.6	20.7	20.7
Other financial assets	38.1	23.3	21.6	17.8	21.0	21.8	22.5	25.8	26.7	27.1	25.8
<b>Claims</b>	<b>771.4</b>	<b>1,269.8</b>	<b>1,157.9</b>	<b>1,046.6</b>	<b>1,016.7</b>	<b>899.9</b>	<b>798.7</b>	<b>739.0</b>	<b>755.4</b>	<b>773.7</b>	<b>769.8</b>
Debt	125.7	208.5	207.9	203.1	198.7	189.7	169.4	146.4	130.9	122.5	115.6
Real estate debt	72.6	113.8	114.1	111.3	109.5	104.3	95.3	84.3	74.7	68.4	63.7
Non-real estate debt	53.1	94.7	93.8	91.8	89.2	85.4	74.1	62.2	56.2	54.1	51.9
Equity	645.7	1,061.3	950.0	843.4	818.1	710.2	629.3	592.6	624.4	651.2	654.2

NA Not available. <sup>1</sup> Excludes horses and mules. <sup>2</sup> Constant dollar figures are based on gross national product implicit price deflators for year.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary, 1989*, and unpublished data.

### No. 1125. Indicators of Financial Stress in Agriculture, 1980 to 1989, and by Farm Region, 1989

[In percent. For years ending in June, except as noted. Based on a survey of approximately 1,000 bankers which reflects their perception of farm financial conditions in their lending areas]

FINANCIAL STRESS INDICATOR	1980	1985	1987	1988	1989					
					Total	North-east <sup>1</sup>	Corn Belt <sup>2</sup>	South <sup>3</sup>	Plains <sup>4</sup>	West <sup>5</sup>
Average delinquency rate <sup>6,7</sup>	(NA)	5.3	2.7	1.6	1.5	1.9	1.1	1.3	1.7	1.6
Farm borrowers who had bank financing discontinued	4.5	4.5	3.3	3.2	2.8	2.8	2.1	2.3	3.4	3.9
Farm borrowers loaned-up to practical limit	27	37	29	23	25	22	24	28	26	26
Farmers in bank lending area who went out of business	2.1	4.8	4.6	2.8	2.9	3.4	2.5	3.5	2.7	2.5
Farmers in bank lending area who went through bankruptcy	(NA)	3.8	3.3	2.2	2.0	1.6	1.7	2.2	2.6	2.4

NA Not available. <sup>1</sup> ME, NH, VT, MA, RI, CT, NY, NJ, PA, DE, MD, DC, MI, WI, and MN. <sup>2</sup> OH, IN, IL, IA, and MO. <sup>3</sup> VA, WV, NC, SC, GA, FL, KY, TN, AL, MS, AR, and LA. <sup>4</sup> ND, SD, NE, KS, OK, and TX. <sup>5</sup> MT, ID, WY, CO, NM, AZ, UT, NV, WA, OR, CA, AK, and HI. <sup>6</sup> Percentage of dollar farm loan volume 30 days or more delinquent. <sup>7</sup> As of June of year shown.

<sup>8</sup> Farm customers who have reached their maximum debt load.

Source: American Bankers Association, Washington, DC, *Agricultural Banker*, selected issues.

### No. 1126. Financial Characteristics of Farms, by Value of Sales and Type of Farm: 1985 to 1989

[Income data for calendar year shown; balance sheet data as of January 1 of the following year. A farm is a crop or livestock farm if 50 percent or more of its commodity receipts derive from the sale of crop or animal products, respectively. A crop or livestock farm is further categorized as a particular type if 50 percent of its crop or, if applicable, livestock receipts come from a specific commodity area. Based on Farm Costs and Returns Survey conducted in February-March of following year]

VALUE OF SALES AND TYPE OF FARM	FARMS—PERCENT DISTRIBUTION							FARM OPERATOR DEBT— PERCENT DISTRIBUTION BY DEBT/ASSET RATIO				
	Total	By net farm income/solvency position				By debt/asset ratio			Total	Less than 41 per- cent	41-70 per- cent	Over 70 per- cent
		Favor- able <sup>1</sup>	Marg- inal in- come <sup>2</sup>	Marg- inal sol- vency <sup>3</sup>	Vulner- able <sup>4</sup>	Less than 41 per- cent	41-70 per- cent	Over 70 per- cent				
1985 .....	100.0	(NA)	(NA)	(NA)	(NA)	78.7	12.7	8.6	100.0	33.7	32.9	33.4
1987 .....	100.0	59.1	25.9	8.8	6.2	85.1	10.0	4.9	100.0	45.2	31.4	23.4
1988 .....	100.0	57.0	29.4	6.7	6.9	86.4	9.2	4.4	100.0	49.0	31.6	19.4
1989, total .....	100.0	62.8	26.0	6.4	4.8	88.8	7.9	3.3	100.0	55.5	29.8	14.7
Less than \$10,000 .....	100.0	58.7	32.9	2.9	5.4	91.7	5.7	2.6	100.0	54.2	23.7	22.1
\$10,000-\$19,999 .....	100.0	63.3	29.9	3.7	3.1	93.2	5.1	1.7	100.0	60.7	29.9	9.4
\$20,000-\$39,999 .....	100.0	67.9	22.2	5.1	4.8	90.2	5.3	4.5	100.0	60.2	18.4	21.3
\$40,000-\$99,999 .....	100.0	67.4	17.5	10.8	3.9	85.4	10.3	4.3	100.0	57.5	26.9	15.6
\$100,000-\$249,999 .....	100.0	67.8	12.2	15.5	4.6	80.0	15.2	4.8	100.0	55.0	31.8	13.2
\$250,000-\$499,999 .....	100.0	66.4	13.2	14.1	6.3	79.6	15.5	4.9	100.0	58.1	29.5	12.4
\$500,000 and over .....	100.0	60.8	14.8	18.8	5.6	75.6	17.0	7.4	100.0	50.0	38.7	11.3
Cash grain .....	100.0	64.2	21.2	8.8	5.9	85.3	10.5	4.2	100.0	53.8	32.2	14.0
Tobacco .....	100.0	77.6	12.3	6.9	3.2	89.9	8.2	1.9	100.0	59.1	31.0	9.9
Cotton .....	100.0	56.8	19.8	18.6	4.9	76.5	12.8	10.7	100.0	28.1	50.9	21.0
Other field crops .....	100.0	61.6	25.9	7.2	5.4	87.4	7.8	4.8	100.0	54.3	31.2	14.5
Vegetable, fruit, and nut .....	100.0	61.0	31.8	3.9	3.3	92.8	4.6	2.6	100.0	67.5	22.2	10.3
Nursery, greenhouse .....	100.0	60.4	23.8	10.1	5.7	84.1	11.3	4.6	100.0	51.3	24.4	24.3
General livestock .....	100.0	62.4	29.2	3.5	4.9	91.6	6.2	2.2	100.0	58.7	26.5	14.8
Poultry .....	100.0	60.1	15.6	16.8	7.4	75.7	17.5	6.8	100.0	38.0	37.0	25.0
Dairy .....	100.0	72.3	11.9	13.2	2.6	84.2	12.0	3.8	100.0	55.6	30.8	13.6
Other livestock .....	100.0	45.8	44.7	5.7	3.9	90.5	4.2	5.3	100.0	57.8	26.0	16.2

NA Not available. <sup>1</sup> Represents farms with positive income and debt/asset ratio of less than 41 percent. <sup>2</sup> Represents farms with negative income and a debt/asset ratio of less than 41 percent. <sup>3</sup> Represents farms with positive income and a debt/asset ratio above 40 percent. <sup>4</sup> Represents farms with negative income and a debt/asset ratio above 40 percent.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Farms End Decade With Strong Financial Performance*, 1990.

### No. 1127. Farms, Farm Income, Assets, and Debt, by Value of Sales: 1989

FARMS WITH VALUE OF SALES OF—	Number of farms <sup>1</sup> (1,000)	Gross cash income <sup>2</sup> (bil. dol.)	Cash receipts (bil. dol.)	Govt. payments (bil. dol.)	Net cash income <sup>2</sup> (bil. dol.)	Assets <sup>3</sup> (bil. dol.)	Debt <sup>3</sup> (bil. dol.)	Debt/asset ratio <sup>3</sup> (percent)	PERCENT DISTRIBUTION		
									Number of farms <sup>1</sup>	Gross cash income <sup>2</sup>	Assets <sup>3</sup>
Total .....	2,171	177.5	158.2	10.9	54.6	972.3	145.9	15.0	100.0	100.0	100.0
Less than \$10,000 .....	1,019	5.0	3.5	0.3	-1.1	272.4	37.0	13.6	46.9	2.8	28.0
\$10,000-\$19,999 .....	256	4.6	3.7	0.4	0.7	81.3	11.1	13.7	11.8	2.6	8.4
\$20,000-\$39,999 .....	269	9.7	8.0	1.0	2.4	105.4	15.9	15.1	12.4	5.5	10.8
\$40,000-\$99,999 .....	303	24.4	20.5	2.4	7.5	160.2	25.6	16.0	14.0	13.7	16.5
\$100,000-\$249,999 .....	211	38.3	33.4	3.5	13.3	170.4	27.6	16.2	9.7	21.6	17.5
\$250,000-\$499,999 .....	74	28.2	25.6	2.0	9.7	75.8	12.9	17.0	3.4	15.9	7.8
\$500,000 and over .....	39	67.4	64.4	1.2	22.0	106.8	15.8	14.8	1.8	38.0	11.0

<sup>1</sup> Based on 1974 census definition. See text, section 23. <sup>2</sup> For components of income, see table 1130. Minus sign (-) indicates loss. <sup>3</sup> Data as of December 31. Includes farm households.

### No. 1128. Net Cash Income and Net Cash Flow From Farming: 1970 to 1989

[In billions of dollars. Net cash income measures the cash income from a farm operator's farm business and net cash flow measures the cash flow within the agricultural sector. Minus sign (-) indicates net loan redemption or decrease]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Net cash income .....	18.4	29.6	34.2	32.8	37.9	39.5	36.6	47.9	46.7	56.1	58.1	54.6
Gross cash income .....	54.8	90.7	143.3	146.0	150.6	150.6	155.5	157.2	152.0	164.3	170.4	177.5
Cash expenses .....	36.4	61.1	109.1	113.2	112.8	111.0	119.0	109.3	105.2	108.2	112.3	122.8
Change in loans outstanding .....	2.3	9.2	15.2	15.5	7.2	3.2	-2.8	-15.9	-19.7	-12.3	-4.4	-2.0
Real estate loans .....	1.1	4.6	9.9	9.0	3.8	2.3	-2.0	-6.4	-8.7	-7.7	-4.1	-2.1
Nonreal estate loans .....	1.2	4.6	5.3	6.5	3.4	0.9	-0.8	-9.6	-11.0	-4.6	-0.3	0.1
Net change in other financial assets .....	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.7	1.1	-0.2	0.5	0.1
Net rent received by nonoperator landlords .....	2.1	4.0	6.1	6.2	6.2	5.1	9.0	8.4	7.0	7.0	7.0	8.2
Capital expenditures .....	6.8	12.4	18.0	16.8	13.3	12.7	12.5	9.2	8.5	11.1	11.1	13.0
Net cash flow .....	16.1	30.5	37.6	37.8	38.2	35.4	30.4	31.9	26.6	39.5	50.2	48.0

<sup>1</sup> Excludes Commodity Credit Corporation loans. <sup>2</sup> Net cash income plus change in loans outstanding plus net change in other financial assets plus net rent received by nonoperator landlords minus capital expenditures.

Source of tables 1127 and 1128: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary*, annual.



## No. 1129. Gross Farm Product—Summary: 1970 to 1989

[In billions of dollars. For definition of gross product, see text, section 14. Minus sign (-) indicates decrease]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>CURRENT DOLLARS</b>												
<b>Total value of farm output</b> <sup>1</sup>	<b>55.1</b>	<b>99.8</b>	<b>148.4</b>	<b>164.3</b>	<b>159.0</b>	<b>142.9</b>	<b>166.8</b>	<b>158.8</b>	<b>149.0</b>	<b>157.1</b>	<b>164.0</b>	<b>182.5</b>
Farm marketings cash receipts <sup>2</sup>	50.5	88.9	139.8	142.1	142.9	133.1	141.7	144.9	134.4	143.0	149.9	159.0
Farm products consumed <sup>3</sup>	0.8	1.1	1.1	1.1	1.0	1.1	1.1	0.9	0.9	0.8	0.8	0.6
Change in farm inventories	-	3.4	-5.9	5.8	-1.4	-7.5	7.1	-3.3	-1.8	-3.9	-3.6	5.0
Gross rental value of farm housing <sup>4</sup>	3.3	5.4	11.0	12.6	12.9	12.1	12.2	10.9	9.7	10.3	10.4	10.3
Less: Intermediate products purchased <sup>4</sup>	28.8	49.5	82.9	84.5	82.0	83.6	89.2	83.4	73.2	78.2	83.3	93.9
<b>Equals: Gross farm product</b>	<b>26.3</b>	<b>50.3</b>	<b>65.5</b>	<b>79.8</b>	<b>77.0</b>	<b>59.3</b>	<b>77.6</b>	<b>75.4</b>	<b>75.8</b>	<b>78.8</b>	<b>80.7</b>	<b>88.6</b>
Less: Capital consumption allowances <sup>5</sup>	5.9	10.4	18.9	20.8	22.0	22.4	22.5	22.0	21.5	21.0	20.3	20.5
Indirect business taxes	2.0	2.5	3.0	3.2	3.3	3.2	3.0	3.1	3.0	3.8	3.5	4.1
Plus: Subsidies to farm operators	3.3	0.7	1.1	1.6	2.4	7.9	7.0	6.3	9.5	13.9	11.8	9.3
<b>Equals: Farm national income</b>	<b>21.7</b>	<b>38.1</b>	<b>44.7</b>	<b>57.3</b>	<b>54.0</b>	<b>41.7</b>	<b>59.2</b>	<b>56.6</b>	<b>60.8</b>	<b>67.9</b>	<b>68.6</b>	<b>73.3</b>
<b>CONSTANT (1982) DOLLARS</b>												
<b>Total value of farm output</b> <sup>1</sup>	<b>135.2</b>	<b>138.6</b>	<b>151.7</b>	<b>159.3</b>	<b>159.0</b>	<b>143.1</b>	<b>155.2</b>	<b>164.1</b>	<b>163.1</b>	<b>167.0</b>	<b>156.9</b>	<b>165.7</b>
Farm marketings cash receipts <sup>2</sup>	112.7	117.4	138.5	136.9	142.9	132.4	133.2	150.7	147.8	155.0	142.9	143.8
Farm products consumed <sup>3</sup>	1.7	2.0	1.2	1.1	1.0	1.1	1.0	1.0	0.9	0.8	0.8	0.6
Change in farm inventories	0.8	1.4	-4.7	4.9	-1.4	-6.3	4.6	-4.3	-2.4	-5.9	-2.9	5.0
Gross rental value of farm housing <sup>4</sup>	18.3	16.4	14.3	13.6	12.9	12.3	12.1	11.7	11.4	11.0	10.7	10.3
Less: Intermediate products purchased <sup>4</sup>	74.5	73.8	87.6	83.5	82.0	81.8	86.7	84.7	79.0	83.2	81.6	86.9
<b>Equals: Gross farm product</b>	<b>60.7</b>	<b>64.8</b>	<b>64.2</b>	<b>75.7</b>	<b>77.0</b>	<b>61.3</b>	<b>68.5</b>	<b>79.4</b>	<b>84.1</b>	<b>83.8</b>	<b>75.3</b>	<b>78.8</b>
Less: Capital consumption allowances <sup>5</sup>	16.0	19.0	22.3	22.2	22.0	21.4	20.8	20.0	19.0	18.0	17.1	16.5
Indirect business taxes	2.6	2.8	2.8	3.3	3.3	2.7	3.0	3.4	3.6	3.6	3.3	3.4
Plus: Subsidies to farm operators	1.6	1.8	2.3	2.2	2.4	2.0	2.0	2.5	2.4	2.6	2.2	2.2
<b>Equals: Farm national income</b>	<b>43.7</b>	<b>44.7</b>	<b>41.4</b>	<b>52.4</b>	<b>54.0</b>	<b>39.3</b>	<b>46.8</b>	<b>58.5</b>	<b>63.9</b>	<b>64.8</b>	<b>57.1</b>	<b>61.2</b>

- Represents zero. <sup>1</sup> Includes other farm income not shown separately. <sup>2</sup> Includes net CCC loans. <sup>3</sup> In farm households where raised. <sup>4</sup> Net of defaulters' gain. <sup>5</sup> With capital consumption adjustment.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

## No. 1130. Farm Income and Expenses: 1970 to 1989

[In billions of dollars. See also *Historical Statistics, Colonial Times to 1970*, series K 192, K 259-260, K 264-285, and K 326]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Gross farm income</b>	<b>58.8</b>	<b>100.6</b>	<b>149.3</b>	<b>166.3</b>	<b>163.5</b>	<b>153.2</b>	<b>170.2</b>	<b>162.9</b>	<b>156.5</b>	<b>169.0</b>	<b>173.8</b>	<b>189.2</b>
Cash income	54.8	90.7	143.3	146.0	150.6	150.6	155.5	157.2	152.0	164.3	170.4	177.5
Farm marketings	50.5	88.9	139.7	141.6	142.6	136.8	142.8	144.1	135.2	141.7	150.2	159.2
Crops	21.0	45.8	71.7	72.5	72.3	67.2	69.9	74.3	63.7	65.6	71.4	75.4
Livestock and products	29.5	43.1	68.0	69.2	70.3	69.6	72.9	69.8	71.5	76.0	78.8	83.7
Government payments	3.7	0.8	1.3	1.9	3.5	9.3	8.4	7.7	11.8	16.7	14.5	10.9
Other farm income	0.6	1.0	2.3	2.5	4.6	4.5	4.3	5.3	5.0	5.9	5.7	7.4
Value of home consumption	0.8	1.1	1.2	1.2	1.1	1.0	1.0	0.9	0.9	0.8	0.8	0.7
Rental value of dwellings <sup>2</sup>	3.3	5.4	11.0	12.6	13.1	12.5	7.6	7.1	6.0	6.6	6.7	6.6
Value of inventory adjustment <sup>3</sup>	(2)	3.4	-6.3	6.5	1.4	10.9	6.0	-2.3	-2.4	-2.8	4.1	4.4
<b>Expenses of farm production</b>	<b>44.5</b>	<b>75.1</b>	<b>133.1</b>	<b>139.4</b>	<b>140.0</b>	<b>137.9</b>	<b>143.8</b>	<b>131.9</b>	<b>125.5</b>	<b>127.7</b>	<b>132.1</b>	<b>142.6</b>
Intermediate products	25.2	42.5	76.1	76.6	73.5	73.6	78.2	70.9	69.4	73.0	76.9	84.7
Farm origin	13.3	20.0	34.9	33.3	31.4	31.9	33.1	29.6	30.8	33.1	36.7	39.4
Feed purchased	8.0	12.9	21.0	20.9	18.6	20.4	20.2	17.2	17.9	18.0	20.6	22.7
Livestock, poultry purchased <sup>4</sup>	4.3	5.0	10.7	9.0	9.7	8.8	9.5	9.2	9.8	11.8	12.8	13.0
Seed purchased <sup>4</sup>	0.9	2.1	3.2	3.4	3.2	2.7	3.4	3.1	3.2	3.3	3.3	3.7
Manufactured inputs	5.4	12.4	22.4	23.9	22.1	20.0	22.6	20.2	18.2	18.1	18.4	20.7
Fertilizer and lime	2.4	6.7	9.5	9.4	8.0	7.0	8.6	7.5	6.8	6.5	6.8	7.6
Pesticides	1.0	1.8	3.5	4.2	4.3	3.9	4.7	4.3	4.3	4.5	4.4	5.7
Fuel and oil	1.7	3.3	7.9	8.6	7.7	7.2	7.3	6.4	5.3	5.0	4.9	5.3
Electricity	0.3	0.6	1.5	1.7	2.0	2.0	2.1	1.9	1.8	2.2	2.2	2.1
Repairs and maintenance <sup>5</sup>	2.8	4.5	7.1	7.0	6.4	6.5	6.7	6.6	6.5	6.8	6.9	7.8
Other <sup>6</sup>	3.7	5.6	11.8	12.4	13.6	15.2	15.7	14.7	13.8	15.0	14.9	16.8
Interest	3.4	6.4	16.3	19.9	21.8	21.4	21.1	18.6	17.1	15.5	15.2	15.1
Real estate	1.8	3.3	7.5	9.1	10.5	10.8	10.7	9.9	9.1	8.2	7.9	7.6
Non-real estate	1.6	3.1	8.7	10.7	11.3	10.6	10.4	8.7	7.9	7.3	7.3	7.5
Contract, hired labor expenses <sup>7</sup>	4.3	6.6	9.3	8.9	10.1	9.7	9.7	9.8	9.9	10.8	11.2	11.9
Net rent to nonoperator landlords <sup>8</sup>	2.1	4.0	6.1	6.2	6.2	5.1	9.0	8.4	7.0	7.0	7.0	8.2
Capital consumption <sup>9</sup>	6.9	12.4	21.5	23.6	24.3	23.9	21.6	19.6	17.7	16.5	16.7	17.3
Property taxes	2.6	3.2	3.9	4.2	4.1	4.1	4.2	4.5	4.5	5.0	5.1	5.3
<b>Net farm income</b>	<b>14.4</b>	<b>25.5</b>	<b>16.1</b>	<b>26.9</b>	<b>23.5</b>	<b>15.3</b>	<b>26.3</b>	<b>31.0</b>	<b>31.0</b>	<b>41.3</b>	<b>41.8</b>	<b>46.7</b>

Z Less than \$50 million. <sup>1</sup> Forest product sales are included in cash receipts for crops for 1970 and 1975 and in other farm income beginning 1980. <sup>2</sup> Data for 1970 to 1983 are not comparable with later data. <sup>3</sup> Minus sign (-) indicates decrease in inventories. <sup>4</sup> Includes bulbs, plants, and trees. <sup>5</sup> Expenditures for repairs and maintenance of farm buildings, motor vehicles, and machinery. <sup>6</sup> Includes machine hire and customwork expenses; marketing, storage, and transportation expenses and miscellaneous expenses. Beginning 1980 data not strictly comparable with prior years. <sup>7</sup> Includes Social Security payments and perquisites. <sup>8</sup> Data for periods 1970-1975, 1980-1983, and 1984 and later are based on different sources, creating potential inconsistencies in estimates among these periods. <sup>9</sup> Depreciation and accidental damage.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary*, annual.

**No. 1131. Farm Income—Cash Receipts From Farm Marketings: 1980 to 1989**

[Represents gross receipts from commercial market sales as well as net Commodity Credit Corporation loans. See also *Historical Statistics, Colonial Times to 1970*, series K 286-302]

COMMODITY	FARM MARKETINGS (mil. dol.)									PERCENT		
	1980	1983	1984	1985	1986	1987	1988	1989		1980	1985	1989
<b>Total</b> . . . . .	<b>139,737</b>	<b>136,770</b>	<b>142,784</b>	<b>144,114</b>	<b>135,197</b>	<b>141,653</b>	<b>150,192</b>	<b>159,173</b>		<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
All crops . . . . .	71,746	67,165	69,889	74,293	63,658	65,643	71,372	75,449		51.3	51.6	47.4
Corn . . . . .	13,959	10,855	10,909	16,880	12,315	9,824	9,006	11,116		10.0	11.7	7.0
Hay . . . . .	1,917	2,185	2,363	2,390	2,246	2,499	3,059	3,407		1.4	1.7	2.1
Sorghum . . . . .	1,392	1,220	1,469	1,981	1,332	1,103	1,080	1,143		1.0	1.4	0.7
Barley . . . . .	735	990	1,087	1,039	835	754	865	750		0.5	0.7	0.5
Soybean . . . . .	14,241	12,154	11,957	11,161	9,235	10,029	12,175	10,837		10.2	7.7	6.8
Peanuts . . . . .	607	802	1,233	1,005	1,074	1,027	1,116	1,119		0.4	0.7	0.7
Wheat . . . . .	8,854	8,777	8,576	7,909	4,975	5,048	6,354	7,185		6.3	5.5	4.5
Rice . . . . .	1,519	882	1,096	1,042	738	707	1,088	869		1.1	0.7	0.5
Vegetables <sup>2</sup> . . . . .	7,307	8,472	9,152	8,572	8,849	9,889	9,754	11,340		5.2	5.9	7.1
Potatoes . . . . .	(NA)	1,689	1,921	1,601	1,377	1,707	1,625	2,288	(NA)	1.1	1.4	
Tomatoes . . . . .	(NA)	1,137	1,240	1,198	1,265	1,466	1,415	1,824	(NA)	0.8	1.1	
Fruits, tree nuts <sup>2</sup> . . . . .	6,557	6,056	6,734	6,946	7,248	8,058	9,139	9,020		4.7	4.8	5.7
Oranges . . . . .	(NA)	1,335	1,359	1,404	1,184	1,363	1,773	1,814	(NA)	1.0	1.1	
Apples . . . . .	(NA)	739	951	892	927	1,060	1,109	1,125	(NA)	0.6	0.7	
Grapes . . . . .	(NA)	1,075	983	961	1,177	1,362	1,596	1,718	(NA)	0.7	1.1	
Cotton lint, seed . . . . .	4,447	3,705	3,674	3,687	3,371	4,189	4,546	4,740		3.2	2.6	3.0
Tobacco . . . . .	2,672	2,752	2,813	2,699	1,921	1,826	1,960	2,381		1.9	1.9	1.5
Sugar beets . . . . .		778	750	774	902	1,025	1,022	1,037			0.5	0.7
Greenhouse, nursery . . . . .	6,560	4,529	5,176	5,407	5,883	6,655	6,969	7,295		4.7	3.8	4.6
Other <sup>3</sup> . . . . .		2,055	2,081	2,150	2,218	2,369	2,599	2,661			1.5	1.7
All livestock and products <sup>1</sup> . . . . .	67,991	69,606	72,895	69,822	71,539	76,010	78,821	83,724		48.7	48.4	52.6
Cattle and calves . . . . .	31,819	28,861	30,589	29,002	28,865	33,583	36,201	36,676		22.8	20.1	23.0
Dairy products . . . . .	16,365	18,748	17,931	18,055	17,724	17,727	17,641	19,401		11.7	12.5	12.2
Hogs . . . . .	8,942	9,790	9,701	9,033	9,734	10,337	9,207	9,426		6.4	6.3	5.9
Broilers . . . . .	4,303	4,873	6,020	5,668	6,784	6,178	7,435	8,780		3.1	3.9	5.5
Eggs . . . . .	3,247	3,451	4,110	3,262	3,543	3,209	3,067	3,854		2.3	2.3	2.4
Turkeys . . . . .	1,273	1,269	1,655	1,820	1,949	1,703	1,951	2,222		0.9	1.3	1.4

NA Not available. <sup>1</sup> Includes other commodities not shown separately. <sup>2</sup> Melons included with vegetables. <sup>3</sup> Sugarcane, mushrooms, legume and grass seeds, hops, mint, broom-corn, popcorn, hemp fiber and seed, and flax fiber.

**No. 1132. Government Payments to Farms, by Program: 1980 to 1989**

[In millions of dollars. See also *Historical Statistics, Colonial Times to 1970*, series K 326-329]

PROGRAM	1980	1985	1986	1987	1988	1989	PROGRAM	1980	1985	1986	1987	1988	1989
<b>Total</b> . . . . .	<b>1,285</b>	<b>7,705</b>	<b>11,814</b>	<b>16,747</b>	<b>14,480</b>	<b>10,867</b>	Rice . . . . .	2	577	423	475	465	671
Feed grain . . . . .	382	2,861	5,158	8,490	7,219	3,141	Wool . . . . .	28	98	112	144	117	81
Wheat . . . . .	211	1,950	3,500	2,931	1,842	603	Conservation	214	189	254	1,531	1,607	1,771
Cotton . . . . .	172	1,106	1,042	1,204	924	1,184	Miscellaneous <sup>1</sup> . . . . .	276	924	1,325	1,972	2,306	3,436

<sup>1</sup> Includes value of commodities transferred to farmers under the payment-in-kind program (PIK).

Source of tables 1131 and 1132: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary*, 1989.

**No. 1133. Farms Receiving Government Payments or Commodity Credit Corporation Loans: 1987**

SIZE OF FARM AND RECEIPT OR LOAN SIZE	GOVERNMENT PAYMENTS <sup>1</sup>					COMMODITY CREDIT CORPORATION LOANS				
	Farms		Value			Farms		Value		
	Number	Percent distribution	Amount (mil. dol.)	Percent distribution	Average per farm (dol.)	Number	Percent distribution	Amount (mil. dol.)	Percent distribution	Average per farm (dol.)
<b>Total</b> . . . . .	<b>699,010</b>	<b>100.0</b>	<b>9,647</b>	<b>100.0</b>	<b>13,800</b>	<b>300,909</b>	<b>100.0</b>	<b>8,333</b>	<b>100.0</b>	<b>27,693</b>
Under 50 acres . . . . .	38,612	5.5	69	0.7	1,788	6,805	2.3	53	0.6	7,798
50-179 acres . . . . .	161,682	23.1	542	5.6	3,351	46,606	15.5	313	3.8	6,712
180-499 acres . . . . .	243,441	34.8	2,155	22.3	8,852	110,897	36.9	1,865	22.4	16,810
500-999 acres . . . . .	139,793	20.0	2,720	28.2	19,459	77,656	25.8	2,719	32.6	35,018
1,000 acres or more . . . . .	115,482	16.5	4,161	43.1	36,028	58,945	19.6	3,384	40.6	57,405
Farms with payments/loans of—										
\$1-\$999 . . . . .	94,213	13.5	45	0.5	482	12,943	4.3	7	0.1	516
\$1,000-\$4,999 . . . . .	209,786	30.0	563	5.8	2,681	55,315	18.4	158	1.9	2,852
\$5,000-\$9,999 . . . . .	127,073	18.2	909	9.4	7,156	49,033	16.3	353	4.2	7,206
\$10,000-\$24,999 . . . . .	153,309	21.9	2,428	25.2	15,835	82,156	27.3	1,334	16.0	16,240
\$25,000-\$49,999 . . . . .	76,513	10.9	2,678	27.8	35,004	54,352	18.1	1,914	23.0	35,209
\$50,000 or more . . . . .	38,116	5.5	3,023	31.3	79,319	47,110	15.7	4,568	54.8	96,956

<sup>1</sup> Covers direct cash or generic commodity certificate (PIK) payments received by the farm operator in 1987.

Source: U.S. Bureau of the Census, *1987 Census of Agriculture*, vol. 1.

## No. 1134. Farm Assets, Debt, and Income, by State: 1988 and 1989

[Assets and debt, as of December 31. Includes farm operator households. Farm income data are after inventory adjustment]

DIVISION AND STATE	ASSETS (mil. dol.)		DEBT (mil. dol.)		DEBT/ASSET RATIO (percent)		GROSS FARM INCOME (mil. dol.)		NET FARM INCOME (mil. dol.)	
	1988	1989	1988	1989	1988	1989	1988	1989	1988	1989
<b>United States . . . . .</b>	<b>938,515</b>	<b>972,232</b>	<b>148,541</b>	<b>145,966</b>	<b>15.8</b>	<b>15.0</b>	<b>173,838</b>	<b>189,219</b>	<b>41,775</b>	<b>46,652</b>
<b>New England:</b>										
Maine . . . . .	2,283	2,341	375	340	16.4	14.5	472	522	99	127
New Hampshire . . . . .	1,448	1,343	71	73	4.9	5.4	161	158	48	38
Vermont . . . . .	2,757	2,805	338	350	12.3	12.5	456	481	115	112
Massachusetts . . . . .	3,296	3,336	234	265	7.1	7.9	463	480	160	156
Rhode Island . . . . .	467	472	29	30	6.2	6.4	90	90	51	49
Connecticut . . . . .	2,477	2,504	232	216	9.4	8.6	427	435	146	139
<b>Middle Atlantic:</b>										
New York . . . . .	15,096	15,070	2,248	2,363	14.9	15.7	2,947	3,284	664	830
New Jersey . . . . .	5,196	5,332	392	401	7.5	7.5	728	767	260	267
Pennsylvania . . . . .	22,573	22,744	2,418	2,392	10.7	10.5	3,562	4,009	822	1,040
<b>East North Central:</b>										
Ohio . . . . .	28,830	29,211	3,515	3,453	12.2	11.8	4,077	4,574	640	823
Indiana . . . . .	28,988	29,965	5,004	4,926	17.3	16.4	4,622	5,483	506	1,019
Illinois . . . . .	52,477	53,795	7,610	7,473	14.5	13.9	7,552	9,360	1,212	2,193
Michigan . . . . .	16,906	17,668	3,091	2,912	18.3	16.5	3,122	3,644	462	765
Wisconsin . . . . .	27,615	28,379	5,414	5,297	19.6	18.7	5,411	6,541	1,209	1,669
<b>West North Central:</b>										
Minnesota . . . . .	35,807	38,598	7,154	7,000	20.0	18.1	7,033	8,011	1,458	1,936
Iowa . . . . .	54,085	55,531	9,959	9,971	18.4	18.0	10,630	11,773	1,988	2,413
Missouri . . . . .	30,960	32,252	4,873	4,756	15.7	14.7	4,402	4,758	686	731
North Dakota . . . . .	20,463	21,514	3,652	3,570	17.8	16.6	2,648	3,057	303	512
South Dakota . . . . .	19,571	21,669	3,367	3,281	17.2	15.1	3,231	3,524	660	806
Nebraska . . . . .	35,774	37,855	6,457	6,474	18.0	17.1	9,562	10,126	2,058	2,092
Kansas . . . . .	31,515	33,493	5,580	5,603	17.7	16.7	7,570	7,619	1,415	1,086
<b>South Atlantic:</b>										
Delaware . . . . .	1,631	1,810	281	278	17.2	15.4	634	699	180	202
Maryland . . . . .	7,813	7,839	903	996	11.6	12.7	1,400	1,501	376	397
Virginia . . . . .	17,079	19,612	1,972	2,013	11.5	10.3	2,316	2,487	542	574
West Virginia . . . . .	3,824	3,678	453	440	11.9	12.0	387	414	52	34
North Carolina . . . . .	18,930	18,504	2,826	2,758	14.9	14.9	4,871	5,353	1,353	1,545
South Carolina . . . . .	7,297	7,386	1,107	1,011	15.2	13.7	1,287	1,408	325	374
Georgia . . . . .	18,150	18,630	3,351	3,065	18.5	16.5	3,991	4,340	1,098	1,215
Florida . . . . .	26,803	28,958	3,697	3,711	13.8	12.8	6,086	6,435	2,575	2,600
<b>East South Central:</b>										
Kentucky . . . . .	20,297	22,155	2,857	2,795	14.1	12.6	3,113	3,620	875	1,118
Tennessee . . . . .	18,883	19,631	2,217	2,160	11.7	11.0	2,426	2,428	490	430
Alabama . . . . .	12,472	13,166	1,616	1,565	13.0	11.9	2,777	2,989	770	823
Mississippi . . . . .	13,507	13,941	3,041	2,877	22.5	20.6	2,769	2,790	758	623
<b>West South Central:</b>										
Arkansas . . . . .	17,064	17,063	3,043	3,018	17.8	17.7	4,459	4,810	1,255	1,301
Louisiana . . . . .	11,589	11,073	2,240	2,072	19.3	18.7	2,115	2,088	678	571
Oklahoma . . . . .	24,359	24,521	4,203	4,113	17.3	16.8	4,054	4,274	953	975
Texas . . . . .	90,792	90,058	10,718	10,238	11.8	11.4	12,575	12,905	3,194	3,007
<b>Mountain:</b>										
Montana . . . . .	17,643	19,943	2,777	2,724	15.7	13.7	1,755	2,154	212	460
Idaho . . . . .	12,239	13,603	2,518	2,408	20.6	17.7	2,712	3,075	615	812
Wyoming . . . . .	6,941	7,277	788	770	11.4	10.6	819	790	87	45
Colorado . . . . .	18,011	18,218	3,150	3,107	17.5	17.1	4,415	4,541	838	952
New Mexico . . . . .	10,812	11,063	1,082	1,065	10.2	9.6	1,432	1,570	268	306
Arizona . . . . .	11,636	11,236	1,644	1,637	14.1	14.6	2,122	2,099	667	604
Utah . . . . .	6,353	6,128	793	737	12.5	12.0	809	812	191	178
Nevada . . . . .	2,745	2,499	298	287	10.9	11.5	258	299	45	68
<b>Pacific:</b>										
Washington . . . . .	17,114	18,046	2,921	2,981	17.1	16.5	3,939	4,341	1,272	1,471
Oregon . . . . .	13,751	14,971	2,626	2,565	19.1	17.1	2,574	2,760	844	874
California . . . . .	68,253	71,067	13,033	13,068	19.1	18.4	17,943	18,905	6,141	5,963
Alaska . . . . .	540	545	33	33	6.1	6.1	32	30	12	9
Hawaii . . . . .	3,601	3,732	341	322	9.5	8.6	603	605	144	118

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: State Financial Summary, 1989*.

# No. 1135. Farm Income—Farm Marketings, 1988 and 1989, Government Payments, 1989, and Principal Commodities, 1989, by State

[In millions of dollars. Cattle include calves; sheep include lambs; and greenhouse includes nursery]

DIVISION AND STATE	1988			1989			Gov- ern- ment pay- ments	State rank for total farm marketings and four principal commodities in order of marketing receipts
	Farm marketings			Farm marketings				
	Total	Crops	Livestock and products	Total	Crops	Livestock and products		
U.S. . . .	150,192	71,372	78,821	159,173	75,449	83,724	10,887	Cattle, dairy products, corn, hogs
N.E. . . .	1,838	911	927	1,927	963	964	23	(X)
ME . . .	414	197	217	447	233	215	7	42-Potatoes, eggs, dairy products, apples
NH . . .	136	77	59	142	79	63	2	48-Dairy products, greenhouse, apples, cattle
VT . . .	401	51	351	426	51	375	7	44-Dairy products, cattle, hay, maple products
MA . . .	410	305	105	429	317	112	4	43-Greenhouse, cranberries, dairy products, eggs
RI . . .	79	66	13	79	66	13	(Z)	49-Greenhouse, dairy products, eggs, potatoes
CT . . .	398	214	183	404	218	186	2	45-Greenhouse, eggs, dairy products, tobacco
M.A. . . .	6,608	2,281	4,327	7,098	2,360	4,738	166	(X)
NY . . .	2,668	865	1,803	2,857	911	1,946	76	23-Dairy products, greenhouse, cattle, apples
NJ . . .	645	452	193	660	463	197	21	40-Greenhouse, dairy products, eggs, blueberries
PA . . .	3,296	964	2,332	3,581	986	2,595	68	19-Dairy products, cattle, greenhouse, eggs
E.N.C. . . .	21,501	10,528	10,975	23,059	11,642	11,417	2,118	(X)
OH . . .	3,564	1,980	1,584	3,812	2,114	1,698	274	16-Soybeans, dairy products, corn, cattle
IN . . .	4,036	2,320	1,716	4,318	2,502	1,817	334	11-Corn, soybeans, hogs, cattle
IL . . .	6,182	3,927	2,255	6,710	4,458	2,252	726	5-Corn, soybeans, hogs, cattle
MI . . .	2,739	1,535	1,205	2,940	1,627	1,313	262	21-Dairy products, cattle, corn, greenhouse
WI . . .	4,980	784	4,215	5,278	941	4,337	522	9-Dairy products, cattle, hogs, corn
W.N.C. . . .	38,022	15,189	22,832	39,490	15,758	23,732	3,883	(X)
MN . . .	6,067	2,649	3,418	6,526	2,809	3,716	600	6-Dairy products, cattle, soybeans, hogs
IA . . .	8,775	3,787	4,988	9,119	3,911	5,209	981	3-Hogs, cattle, corn, soybeans
MO . . .	3,758	1,746	2,012	3,900	1,732	2,168	356	13-Cattle, soybeans, hogs, dairy products
ND . . .	2,358	1,507	851	2,108	1,465	642	475	28-Wheat, cattle, barley, sunflower
SD . . .	2,945	895	2,050	2,992	884	2,108	340	20-Cattle, hogs, soybeans, wheat
NE . . .	7,800	2,409	5,390	8,521	2,878	5,643	542	4-Cattle, corn, hogs, soybeans
KS . . .	6,320	2,195	4,124	6,324	2,079	4,245	588	7-Cattle, wheat, sorghum grain, corn
S.A. . . .	18,552	9,998	8,554	20,228	10,687	9,541	457	(X)
DE . . .	595	152	444	663	160	503	5	39-Broilers, soybeans, greenhouse, corn
MD . . .	1,224	457	768	1,346	476	870	24	35-Broilers, dairy products, greenhouse, soybeans
VA . . .	1,914	614	1,300	2,058	685	1,372	39	29-Cattle, broilers, dairy products, tobacco
WV . . .	286	68	218	314	64	250	12	46-Cattle, broilers, dairy products, turkeys
NC . . .	4,038	1,850	2,188	4,551	2,046	2,505	94	10-Tobacco, broilers, hogs, turkeys
SC . . .	1,106	616	490	1,225	675	551	73	36-Tobacco, cattle, soybeans, broilers
GA . . .	3,570	1,554	2,016	3,869	1,598	2,270	173	15-Broilers, peanuts, eggs, cattle
FL . . .	5,820	4,688	1,132	6,203	4,982	1,221	38	8-Oranges, greenhouse, tomatoes, sugar
E.S.C. . . .	9,189	3,717	5,452	9,768	3,814	5,954	705	(X)
KY . . .	2,510	980	1,530	2,928	1,258	1,670	118	22-Tobacco, cattle, horses, dairy products
TN . . .	1,933	877	1,056	1,921	881	1,060	141	30-Cattle, dairy products, soybeans, hogs
AL . . .	2,422	728	1,695	2,628	696	1,932	121	25-Broilers, cattle, greenhouse, peanuts
MS . . .	2,305	1,133	1,172	2,292	1,000	1,292	325	27-Broilers, cotton, soybeans, cattle
W.S.C. . . .	19,314	7,647	11,666	20,147	7,600	12,547	2,173	(X)
AR . . .	3,831	1,552	2,280	4,131	1,470	2,661	440	12-Broilers, soybeans, cattle, rice
LA . . .	1,676	1,295	582	1,681	1,048	614	250	32-Cotton, soybeans, sugar, cattle
OK . . .	3,354	1,112	2,243	3,594	1,185	2,409	235	18-Cattle, wheat, greenhouse, broilers
TX . . .	10,251	3,689	6,562	10,760	3,897	6,863	1,249	2-Cattle, cotton, dairy products, broilers
Mt. . . .	12,409	4,916	7,493	13,389	5,692	7,697	797	(X)
MT . . .	1,433	617	816	1,610	710	899	289	33-Cattle, wheat, hay, barley
ID . . .	2,324	1,285	1,039	2,715	1,670	1,046	99	24-Cattle, potatoes, wheat, dairy products
WY . . .	761	177	584	856	186	669	34	37-Cattle, hay, sugar beets, sheep
CO . . .	3,700	1,034	2,666	3,899	1,250	2,649	183	14-Cattle, corn, wheat, dairy products
NM . . .	1,283	375	909	1,424	450	974	65	34-Cattle, dairy products, hay, cotton
AZ . . .	1,969	1,177	792	1,902	1,158	744	85	31-Cotton, cattle, dairy products, lettuce
UT . . .	701	173	528	748	174	574	35	38-Cattle, dairy products, hay, turkeys
NV . . .	236	79	159	235	94	141	6	47-Cattle, hay, dairy products, potatoes
Pac. . . .	22,778	16,185	6,593	24,066	16,932	7,134	565	(X)
WA . . .	3,336	2,196	1,140	3,639	2,438	1,201	131	17-Dairy products, wheat, apples, cattle
OR . . .	2,182	1,508	673	2,297	1,558	739	60	26-Cattle, greenhouse, wheat, dairy products
CA . . .	16,652	11,970	4,682	17,515	12,422	5,093	372	1-Dairy products, greenhouse, grapes, cattle
AK . . .	30	20	10	29	20	9	1	50-Greenhouse, dairy products, potatoes, cattle
HI . . .	579	490	89	587	495	92	(Z)	41-Sugar, pineapples, greenhouse, macadamia nuts

X Not applicable. Z Less than \$500 thousand.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: State Financial Summary, 1989*.

## No. 1136. Commodity Credit Corporation—Summary: 1970 to 1989

[In millions of dollars. As of end of fiscal year or for fiscal year ending in year shown; see text, section 9. The Commodity Credit Corporation is a wholly government-owned corporation. Its purpose is stabilizing, supporting, and protecting farm income and prices; assisting in maintenance of balanced adequate supplies of agricultural commodities; and facilitating orderly distribution of agricultural commodities. See also *Historical Statistics, Colonial Times to 1970*, series K 330-343]

ITEM	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>LOAN ACTIVITY <sup>1</sup></b>											
Loans made	2,388	4,228	5,849	11,454	13,710	5,131	10,187	17,391	16,566	13,302	7,068
Loans repaid	1,830	4,148	5,741	4,629	9,373	10,581	4,458	5,675	13,894	17,979	9,394
Loans cancelled by acquisition of collateral	1,073	115	71	363	860	1,032	1,638	5,583	6,144	2,110	1,055
<b>Loans outstanding <sup>2</sup></b>	<b>2,952</b>	<b>5,119</b>	<b>5,193</b>	<b>11,633</b>	<b>15,084</b>	<b>8,571</b>	<b>12,631</b>	<b>18,668</b>	<b>15,174</b>	<b>8,354</b>	<b>4,922</b>
Wheat	576	837	1,871	3,321	4,162	3,414	4,591	3,753	2,836	1,608	865
Corn	632	1,617	629	4,210	5,274	1,236	2,766	7,878	7,424	3,803	1,921
Cotton	170	35	76	714	960	67	376	1,076	450	569	594
Tobacco	845	815	764	867	1,738	2,084	2,539	2,336	2,071	1,616	1,236
<b>COMMODITY INVENTORY OPERATIONS</b>											
<b>Acquisitions, value <sup>2,3</sup></b>	<b>1,518</b>	<b>2,759</b>	<b>2,507</b>	<b>2,968</b>	<b>8,634</b>	<b>8,741</b>	<b>4,294</b>	<b>9,912</b>	<b>17,617</b>	<b>12,167</b>	<b>3,193</b>
Purchases	398	2,643	2,503	2,593	7,644	7,678	2,616	4,195	11,212	9,901	2,201
Collateral acquired from loans	1,120	116	4	375	990	1,065	1,678	5,717	6,405	2,266	992
Wheat	217	601	28	27	1,600	1,983	919	2,196	1,802	1,051	294
Corn	49	416	21	179	3,132	2,591	192	2,287	10,218	8,484	1,418
Cotton	304	1	(Z)	(Z)	175	1,056	53	559	1,273	138	73
Dairy products	253	1,262	1,991	2,282	2,716	1,983	1,820	2,036	956	1,125	611
<b>Commodities owned, value <sup>2</sup></b>	<b>1,858</b>	<b>2,737</b>	<b>3,727</b>	<b>5,103</b>	<b>10,227</b>	<b>7,358</b>	<b>6,921</b>	<b>11,050</b>	<b>11,735</b>	<b>5,588</b>	<b>3,771</b>
Wheat	405	705	679	679	1,533	1,510	1,951	3,491	3,272	1,208	697
Corn	293	596	555	709	3,392	1,045	757	1,757	4,172	2,197	1,253
Cotton	225	1	1	2	174	74	46	226	24	2	34
Sorghum	173	93	79	91	520	290	359	725	1,244	1,268	936
Dairy products	134	1,266	2,396	3,442	4,219	4,102	3,014	2,930	1,439	732	681

Z Less than \$500,000. <sup>1</sup> Covers commodity loans and storage facility and equipment loans. The latter were not available after July 1982. <sup>2</sup> Includes amounts for commodities and storage facilities, not shown separately. <sup>3</sup> For 1970, includes purchases for commodity export program.

## No. 1137. Commodity Credit Corporation—Net Outlays, by Commodity and Function: 1970 to 1990

[In millions of dollars. For fiscal year ending in year shown; see text, section 9. Excludes value of commodity certificates which may also be issued to farmers in lieu of cash under certain programs. Minus sign (-) indicates a net receipt (excess of repayments or other receipts over gross outlays of funds)]

COMMODITY AND FUNCTION	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990 <sup>1</sup>
<b>Total</b>	<b>3,839</b>	<b>2,752</b>	<b>11,652</b>	<b>18,851</b>	<b>7,315</b>	<b>17,683</b>	<b>25,841</b>	<b>22,408</b>	<b>12,481</b>	<b>10,523</b>	<b>6,742</b>
Feed grains	1,440	1,286	5,397	6,815	-758	5,211	12,211	13,967	9,053	3,384	2,984
Wheat	796	879	2,238	3,419	2,536	4,891	3,440	2,836	678	53	576
Cotton, upland	891	64	1,190	1,363	244	1,553	2,142	1,786	666	1,461	-109
Dairy	87	1,011	2,182	2,528	1,502	2,085	2,337	1,166	1,295	679	423
Rice	39	-76	164	664	333	990	947	906	128	631	701
Wool	56	35	54	94	132	109	123	152	5	93	112
Honey	1	9	27	48	90	81	89	73	100	42	63
Peanuts	35	28	12	-6	1	12	32	8	7	13	-6
Sugar	-	-405	-5	49	10	184	214	-65	-246	-25	-
Tobacco	115	-88	103	880	346	455	253	-346	-453	-367	-242
Soybeans	-161	116	169	288	-585	711	1,597	-476	-1,678	-86	116
Operating expense	57	157	294	328	362	346	457	535	614	620	627
Interest expenditure	312	518	-13	3,525	1,064	1,435	1,411	1,219	395	65	653
Export programs	45	-669	65	398	743	134	102	276	200	-102	-39
1988/89 disaster/livestock assistance	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	3,919	<sup>3</sup> 196
Other	126	-113	-225	-1,542	1,295	-314	486	371	1,695	143	687
Price support loans <sup>4</sup>	552	-66	7,015	8,438	-27	6,272	13,628	12,199	4,579	-926	-276
Direct payments <sup>5</sup>	2,135	418	1,491	3,600	2,117	7,827	6,746	5,862	4,245	6,011	4,337
Deficiency payments	1,529	79	1,184	2,780	612	6,302	6,166	4,833	3,971	5,798	4,158
Diversion payments	606	56	(Z)	705	1,504	1,525	64	382	8	-1	-
1988/89 crop disaster	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	3,386	<sup>3</sup> 16
Emergency livestock/forage assistance	-	23	16	-	-	-	-	-	31	533	180
Purchases	-336	1,681	2,031	2,540	1,470	1,331	1,670	-479	-1,131	116	-122
Producer storage payments	144	254	679	964	268	329	485	832	658	174	175
Processing, storage and transportation	215	259	355	665	639	657	1,013	1,659	1,113	659	380
Operating expense	57	157	294	328	362	346	457	535	614	620	627
Interest expenditure	312	518	-13	3,525	1,064	1,435	1,411	1,219	395	65	653
Export programs	146	-669	65	398	743	134	102	276	200	-102	-39
Other	614	177	-281	-1,607	679	-648	329	305	1,757	-13	811

- Represents zero. X Not applicable. Z Less than \$500,000. <sup>1</sup> Estimated in the fiscal 1991 mid-session review of the President's Budget. <sup>2</sup> Fiscal year 1988 wool and mohair program outlays were \$130,635,000 but include a one-time advance appropriation of \$126,108,000, which was recorded as a wool program receipt by U.S. Department of Treasury. <sup>3</sup> Benefits to farmers under the Disaster Assistance Act of 1989 are being paid in generic certificates and are not recorded directly as disaster assistance outlays. <sup>4</sup> Price support loans made less loans repaid. <sup>5</sup> Includes disaster payments; for 1970 includes support and acreage diversion payments; and beginning 1986 includes dairy termination program. <sup>6</sup> Purchases less sales proceeds.

<sup>7</sup> Export programs include direct export credit sales and commodity export payments in 1970. Commodity export payments are included in individual commodity totals in 1970. Export programs beginning 1980 include the direct export credit sales program, the export guarantee program, and transfers to the general sales manager.

Source of tables 1136 and 1137: U.S. Agricultural Stabilization and Conservation Service, *Commodity Credit Corporation Report of Financial Condition and Operations*, annual, and *Agricultural Outlook*, monthly.

## No. 1138. Indexes of Prices Received and Paid by Farmers: 1980 to 1990

[1977 = 100, except as noted. See also *Historical Statistics, Colonial Times to 1970*, series K 344-353]

ITEM	1980	1985	1989	1990	ITEM	1980	1985	1989	1990
<b>Prices received, all products</b>	<b>134</b>	<b>128</b>	<b>147</b>	<b>150</b>	<b>Prices paid, total</b> <sup>3</sup>	<b>138</b>	<b>162</b>	<b>178</b>	<b>184</b>
Crops	125	120	134	128	Production	138	151	167	171
Food grains	165	133	156	123	Feed	123	116	135	128
Feed grains and hay	132	122	128	123	Feeder livestock	177	154	194	213
Cotton	114	93	98	107	Seed	118	153	165	165
Tobacco	125	153	145	148	Fertilizer	134	135	137	130
Oil-bearing crops	102	84	102	93	Agricultural chemicals	102	128	132	139
Fruits	124	180	192	191	Fuels and energy	188	201	181	204
Commercial vegetables	113	129	151	154	Farm and motor supplies	134	146	155	154
Livestock and products	144	136	160	171	Interest payable per acre	174	228	177	174
Meat animals	156	142	174	193	Taxes payable per acre	115	136	152	157
Dairy products	135	131	140	142	Wage rates	127	154	186	192
Poultry and eggs	112	119	137	131	Parity ratio (1910-14 = 100)	65	52	55	54

<sup>1</sup> Includes other items not shown separately. <sup>2</sup> Excludes potatoes. <sup>3</sup> Includes production items, interest, taxes, wage rates, and a family living component. The family living component is the Consumer Price Index for all urban consumers from the Bureau of Labor Statistics. See text, section 15, and table 770. <sup>4</sup> Straight average of seasonally adjusted indexes. <sup>5</sup> Ratio of prices received by farmers to prices paid.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Agricultural Prices: Annual Summary*.

## No. 1139. Civilian Consumer Expenditures for Farm Foods—Farm Value and Marketing Bill: 1970 to 1989

[In billions of dollars, except percent. Excludes imported and nonfarm foods, such as coffee and seafood, as well as food consumed by the military, or exported. See *Historical Statistics, Colonial Times to 1970*, series K 358-360 for data before revisions]

ITEM	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Consumer expenditures, total</b>	<b>110.6</b>	<b>264.4</b>	<b>287.7</b>	<b>298.9</b>	<b>315.0</b>	<b>332.0</b>	<b>345.4</b>	<b>359.6</b>	<b>375.5</b>	<b>398.8</b>	<b>423.4</b>
Farm value, total	35.5	81.7	81.7	81.4	85.3	89.8	86.4	88.3	90.4	96.8	103.0
Marketing bill, total <sup>1</sup>	75.1	182.7	206.0	217.5	229.7	242.2	259.0	270.8	285.1	301.9	320.4
Percent of total consumer expenditures	67.9	69.1	71.6	72.8	72.9	73.0	75.3	75.9	75.7	75.7	75.7
At-home expenditures <sup>2</sup>	78.2	180.1	194.0	196.7	204.6	213.1	220.8	226.0	230.2	241.2	258.6
Farm value	29.1	65.9	65.4	64.1	66.5	69.5	66.6	67.6	67.5	72.5	76.6
Marketing bill	49.1	114.2	128.6	132.6	138.1	143.6	154.2	158.4	162.7	169.6	182.0
Percent of at-home expenditures	62.8	63.4	66.3	67.4	67.5	67.4	69.8	70.1	70.7	70.1	70.4
Away-from-home expenditures	32.4	84.3	93.7	102.2	110.4	118.9	124.6	133.6	145.3	156.7	164.8
Farm value	6.4	15.8	16.3	17.3	18.8	20.3	19.8	21.2	22.9	24.3	26.4
Marketing bill	26.0	68.5	77.4	84.9	91.6	98.6	104.8	112.4	122.4	132.4	138.4
Percent of away-from-home expenditures	80.2	81.3	82.6	83.1	83.0	82.9	84.1	84.1	84.2	84.5	84.0
Marketing bill cost components:											
Labor cost <sup>3</sup>	32.2	81.5	91.0	96.6	102.4	109.3	115.6	122.9	130.0	137.9	146.7
Packaging materials	8.2	21.0	22.6	23.7	24.7	26.2	26.9	27.7	29.9	32.4	35.1
Rail and truck transport <sup>4</sup>	5.2	13.0	14.3	14.7	15.4	15.9	16.5	16.8	17.2	17.8	18.6
Corporate profits before taxes	3.6	9.9	9.7	9.3	9.6	9.6	10.5	9.9	10.4	11.3	11.1
Fuels and electricity	2.2	9.0	10.0	11.0	11.7	12.5	13.1	13.2	13.6	14.4	15.8
Other	23.7	48.3	58.4	62.2	65.9	68.7	76.4	80.3	84.0	88.2	93.1
Processing	29.7	66.3	73.7	75.6	77.8	80.8	88.4	91.0	93.9	99.7	106.0
Wholesaling	8.7	20.4	23.0	25.9	27.1	28.6	29.8	30.5	31.8	33.8	35.9
Transportation	5.2	13.0	14.4	14.9	15.4	16.0	16.6	16.8	17.6	17.7	18.6
Retailing and food service	31.5	83.0	95.0	101.1	109.4	116.8	124.2	132.5	141.8	150.8	159.9
<b>SELECTED FOOD COMMODITY GROUPS</b>											
<b>Meat products:</b>											
Total expenditures	33.7	83.3	86.6	91.9	97.9	101.7	103.2	106.3	110.0	117.4	122.7
Farm value	14.4	30.8	31.1	31.5	31.4	32.4	30.5	30.9	32.7	33.5	34.0
Percent of total	42.7	37.0	35.9	34.3	32.1	31.9	29.6	29.1	29.7	28.5	27.7
Marketing bill	19.4	52.5	55.5	60.4	66.5	69.3	72.7	75.4	77.3	83.9	88.7
<b>Poultry and eggs:</b>											
Total expenditures	9.1	18.3	19.9	20.3	21.7	24.2	26.0	27.6	29.4	31.3	33.6
Farm value	4.0	8.4	8.8	8.5	9.3	11.0	10.2	11.5	10.3	12.1	14.1
Percent of total	44.0	45.9	44.2	41.9	42.9	45.5	39.2	41.7	35.0	38.7	42.0
Marketing bill	5.1	9.9	11.1	11.8	12.4	13.2	15.8	16.1	19.1	19.2	19.5
<b>Dairy products:</b>											
Total expenditures	16.7	37.8	41.4	42.0	45.0	47.4	49.4	51.4	54.0	56.0	58.7
Farm value	6.9	16.0	17.0	16.7	18.0	18.1	17.7	17.8	18.2	17.9	19.6
Percent of total	41.3	42.3	41.1	39.8	40.0	38.2	35.8	34.6	33.7	32.0	33.4
Marketing bill	9.8	21.8	24.4	25.3	27.0	29.3	31.7	33.6	35.8	38.1	39.1
<b>Fruits and vegetables:</b>											
Total expenditures	22.6	55.5	62.8	66.7	70.0	74.7	78.5	81.6	84.7	89.3	95.1
Farm value	5.1	11.7	11.8	11.5	12.9	13.5	13.3	14.6	14.3	16.2	17.6
Percent of total	22.6	21.1	18.8	17.2	18.4	18.1	16.9	17.9	16.9	18.1	18.5
Marketing bill	17.5	43.8	51.0	55.2	57.1	61.2	65.2	67.0	70.4	73.1	77.5
<b>Bakery, grain mill products:</b>											
Total expenditures	13.6	35.2	37.9	39.6	40.6	43.3	45.5	48.3	49.9	54.7	59.5
Farm value	2.0	5.1	4.9	4.8	4.9	5.1	4.7	4.0	3.8	4.9	5.9
Percent of total	14.7	14.5	12.9	12.1	12.1	11.8	10.3	8.3	7.6	9.0	9.9
Marketing bill	11.6	30.1	33.0	34.8	35.7	38.2	40.8	44.3	46.1	49.8	53.6

<sup>1</sup> The difference between expenditures for domestic farm-originated food products and the farm value or payment farmers received for the equivalent farm products. <sup>2</sup> Food primarily purchased from retail food stores for use at home. <sup>3</sup> Covers employee wages and salaries, and their health and welfare benefits. Also includes imputed earnings of proprietors, partners, and family workers not receiving stated remuneration. <sup>4</sup> Excludes local hauling. <sup>5</sup> Represents advertising, rent, depreciation, interest on borrowed capital, taxes other than income, and other costs.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Food Cost Review*, 1989, AER No. 636, July 1990; *National Food Review*, periodic; and *Agricultural Statistics*, annual.

**No. 1140. Farmer Marketing and Farm Supply Cooperatives—Summary: 1970 to 1988**

[1970 and 1975, for fiscal years of cooperatives ending between July 1 of preceding year and June 30 of year shown. Beginning 1980, reports of cooperatives are for the calendar year. Comprises independent local associations, federations, large-scale centralized associations, and sales agencies. Memberships and businesses are estimated. See also *Historical Statistics, Colonial Times to 1970*, series K 195-203]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
<b>Cooperatives listed . . . . .</b>	<b>7,790</b>	<b>7,645</b>	<b>6,293</b>	<b>6,211</b>	<b>6,125</b>	<b>5,989</b>	<b>5,782</b>	<b>5,625</b>	<b>5,369</b>	<b>5,109</b>	<b>4,937</b>
Marketing <sup>1</sup> . . . . .	5,015	4,916	3,924	3,855	3,826	3,781	3,646	3,589	3,398	3,168	3,101
Farm supply . . . . .	2,775	2,729	2,369	2,356	2,299	2,208	2,136	2,036	1,971	1,941	1,836
<b>Memberships<sup>2</sup> (1,000) . . . . .</b>	<b>6,355</b>	<b>6,123</b>	<b>5,379</b>	<b>5,335</b>	<b>5,136</b>	<b>4,955</b>	<b>4,842</b>	<b>4,781</b>	<b>4,600</b>	<b>4,440</b>	<b>4,195</b>
Marketing <sup>1</sup> (1,000) . . . . .	3,133	3,151	2,574	2,479	2,469	2,402	2,445	2,383	2,290	2,158	2,053
Farm supply (1,000) . . . . .	3,222	2,972	2,804	2,856	2,666	2,553	2,397	2,398	2,310	2,282	2,142
<b>Business<sup>3</sup> (mil. dol.) . . . . .</b>	<b>19,080</b>	<b>41,342</b>	<b>66,254</b>	<b>71,534</b>	<b>69,150</b>	<b>68,755</b>	<b>73,047</b>	<b>65,801</b>	<b>58,395</b>	<b>60,318</b>	<b>66,430</b>
Marketing <sup>1</sup> (mil. dol.) . . . . .	15,207	32,682	50,120	54,475	52,788	50,812	56,078	48,961	43,300	46,047	51,006
Farm supply (mil. dol.) . . . . .	3,873	8,660	16,134	17,059	16,362	15,943	16,969	16,841	15,095	14,271	15,424

<sup>1</sup> Includes cooperatives whose major activity is providing services related to marketing and farm-supply activities.  
<sup>2</sup> Excludes nonvoting patrons. <sup>3</sup> Value of commodities sold or purchased for patrons. Business dollar volume for marketing includes service receipts for charges related to marketing and purchasing. Represents net volume after eliminating intercooperative business.

Source: U.S. Dept. of Agriculture, Agricultural Cooperative Service, *Farmer Cooperative Statistics*, annual.

**No. 1141. Selected Indexes of Farm Inputs: 1970 to 1989**

[1977 = 100. Inputs based on physical quantities of resources used in production. See *Historical Statistics, Colonial Times to 1970*, series K 486-495 for data before revisions]

INPUT	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Total . . . . .</b>	<b>96</b>	<b>103</b>	<b>102</b>	<b>99</b>	<b>96</b>	<b>96</b>	<b>92</b>	<b>89</b>	<b>89</b>	<b>87</b>	<b>88</b>
Farm labor . . . . .	112	96	96	93	97	92	85	80	78	75	76
Farm real estate <sup>1</sup> . . . . .	105	103	104	102	101	99	97	96	95	94	93
Mechanical power and machinery . . . . .	85	101	98	92	89	86	80	77	73	72	73
Agricultural chemicals <sup>2</sup> . . . . .	75	123	129	118	102	120	115	109	111	111	122
Feed, seed, and livestock purchases <sup>3</sup> . . . . .	96	114	108	107	103	106	102	110	117	110	119
Taxes and interest . . . . .	102	100	99	95	99	93	96	97	100	97	94
Miscellaneous . . . . .	89	96	108	116	101	110	116	110	122	119	123

<sup>1</sup> Includes service buildings, improvements. <sup>2</sup> Includes fertilizer, lime, and pesticides. <sup>3</sup> Includes nonfarm portion.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: Production and Efficiency Statistics*, annual. Also in U.S. Council of Economic Advisers, *Economic Report of the President*, annual.

**No. 1142. Farm Machinery and Equipment: 1970 to 1989**

[See also *Historical Statistics, Colonial Times to 1970*, series K 184-191]

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Value of farm implements and machinery<sup>1</sup> . . . . .</b>	<b>Bil. dol.</b>	<b>34.4</b>	<b>62.1</b>	<b>99.3</b>	<b>107.8</b>	<b>107.9</b>	<b>106.2</b>	<b>102.7</b>	<b>92.4</b>	<b>84.4</b>	<b>78.6</b>	<b>79.7</b>	<b>82.0</b>
<b>Farmers' expenditures:</b>													
Motor vehicles <sup>2</sup> . . . . .	Mil. dol.	2,030	3,833	5,813	5,652	4,436	4,724	4,583	3,699	3,227	4,265	4,707	5,407
Tractors . . . . .	Mil. dol.	1,123	2,460	3,683	3,740	2,597	2,606	2,539	1,937	1,513	2,098	2,411	2,846
Machinery, equipment . . . . .	Mil. dol.	2,888	4,820	6,956	6,481	5,068	4,735	4,682	3,232	3,094	4,257	4,026	5,089
Repair and maintenance . . . . .	Mil. dol.	1,910	3,417	5,205	5,278	4,635	4,793	4,908	4,834	4,825	5,096	5,167	6,098
Tractors, machinery and equipment . . . . .	Mil. dol.	1,126	2,360	3,746	3,771	3,585	3,707	3,796	3,739	3,732	3,941	3,996	4,716
Autos and trucks <sup>3</sup> . . . . .	Mil. dol.	784	1,057	1,459	1,507	1,050	1,086	1,112	1,095	1,093	1,154	1,171	1,381
<b>Retail sales:<sup>4</sup></b>													
Tractors, total <sup>5</sup> . . . . .	1,000 . . .	135.5	161.1	119.3	103.8	77.2	71.3	66.7	58.5	47.1	48.3	52.0	59.7
2-wheel drive . . . . .	1,000 . . .	135.5	150.5	108.4	94.1	70.4	66.2	62.7	55.5	45.1	46.6	49.3	55.5
4-wheel drive . . . . .	1,000 . . .	(NA)	10.6	10.9	9.7	6.8	5.1	4.0	3.0	2.0	1.7	2.7	4.2
Combines . . . . .	1,000 . . .	26.7	33.1	25.7	26.8	16.2	12.8	11.4	8.4	7.7	7.2	6.0	9.1
Field forage harvesters . . . . .	1,000 . . .	15.0	13.1	9.5	7.6	5.1	4.1	3.5	2.5	2.2	2.3	2.4	2.8

NA Not available. <sup>1</sup> Farm inventory valuations as of December 31. Includes family automobiles. <sup>2</sup> For farm business use.  
<sup>3</sup> Includes insurance, registration fees, and licensing fees through 1975. <sup>4</sup> Source: Equipment Manufacturers Institute, Chicago, IL, unpublished data. <sup>5</sup> Beginning 1980, covers tractors over 40 hp. only.

Source: Except as noted, U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary*, annual. Also in *Agricultural Statistics*, annual.

### No. 1143. Corn, Wheat, and Soybean Acreage Treated With Agrichemicals, by Type: 1971 to 1989

YEAR	CORN			WHEAT			SOYBEANS		
	Fertilizer	Herbi- cides	Insecti- cides	Fertilizer	Herbi- cides	Insecti- cides	Fertil- izers	Herbi- cides	Insecti- cides
NUMBER OF ACRES TREATED (1,000)									
1971	69,728	58,601	25,963	31,217	22,067	3,768	8,695	29,564	3,478
1980	80,681	78,160	36,138	54,128	(NA)	(NA)	25,874	64,336	7,692
1985	81,779	80,110	37,552	58,193	(NA)	(NA)	20,202	59,974	4,419
1987	63,076	63,076	26,939	52,667	40,817	4,608	17,386	55,057	1,739
1988	65,685	65,008	23,701	54,389	34,730	2,621	18,828	56,486	4,707
1989	70,127	70,127	23,135	62,058	36,009	2,298	20,629	58,243	1,213
PERCENT OF ACRES TREATED									
1971	94	79	35	58	41	7	20	68	8
1980	96	93	43	67	(NA)	(NA)	37	92	11
1985	98	96	45	77	(NA)	(NA)	32	95	7
1987	96	96	41	80	62	7	30	95	3
1988	97	96	35	83	53	4	32	96	8
1989	97	97	32	81	47	3	34	96	2

NA Not available.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Agricultural Resources: Situation and Outlook Report*, February 1990 and previous issues.

### No. 1144. Agricultural Chemicals Used on Farms: 1982 and 1987

TYPE OF CHEMICAL	FARMS REPORTING (1,000)		ACRES TREATED (1,000)		COST (mil. dol.)	
	1982	1987	1982	1987	1982	1987
<b>Total</b>	<b>1,596</b>	<b>1,568</b>	<b>(X)</b>	<b>(X)</b>	<b>11,072</b>	<b>11,375</b>
Commercial fertilizer	1,444	1,379	224,635	211,073	7,689	6,685
Lime	270	264	11,607	12,586	(NA)	(NA)
Chemicals for defoliation or growth control of crops	74	75	9,322	9,497		
Sprays, dusts, etc. for—						
Insects on hay and other crops	530	554	72,848	68,823	4,282	4,690
Nematodes in crops	77	66	7,533	5,931		
Diseases in crops and orchards	128	129	11,685	10,467		
Weeds, grass, or brush in crops and pasture	872	914	176,871	171,268		

NA Not available. X Not applicable. <sup>1</sup> If more than 1 subentry was applicable, the farm was tabulated in each. <sup>2</sup> Includes cost of custom applications.Source: U.S. Bureau of the Census, *1987 Census of Agriculture*, vol. 1.

### No. 1145. Hired Farmworkers—Workers and Earnings: 1975 to 1987

[Represents persons 14 years old and over in the civilian noninstitutional population who did hired farmwork at any time during the year. Based on Current Population Survey; see text, section 1 and Appendix III. For composition of regions, see fig. 1, inside front cover]

CHARACTERISTIC	WORKERS (1,000)									AVERAGE ANNUAL EARNINGS RECEIVED FROM HIRED FARMWORK			
	1975	1981	1985	1987					1975	1981	1985	1987	
				Total	Duration of farmwork								
					Under 25 days	25-74 days	75-149 days	150-249 days					250 days and over
All workers . . . . .	2,638	2,492	2,522	2,463	856	503	313	332	458	\$1,488	\$2,659	\$3,247	\$3,368
14-17 years old . . . . .	835	605	552	531	270	144	56	31	29	421	753	743	783
18-24 years old . . . . .	733	760	739	621	201	125	103	62	129	1,517	2,488	2,666	2,775
25-34 years old . . . . .	393	498	601	563	167	102	55	105	134	2,209	3,684	4,268	4,649
35-44 years old . . . . .	219	236	260	316	99	69	40	48	61	2,369	4,631	4,736	4,844
45-54 years old . . . . .	193	180	185	216	49	33	30	47	57	(NA)	3,980	6,269	5,507
55-64 years old . . . . .	144	104	110	148	50	13	22	31	33	(NA)	4,077	5,280	4,142
65 years old and over . . . . .	120	108	75	67	20	15	8	9	15	937	1,938	3,626	3,010
Male . . . . .	2,036	1,918	1,980	1,961	648	389	248	274	402	1,737	3,073	3,642	3,708
Female . . . . .	602	574	542	501	208	114	65	58	56	644	1,276	1,801	2,040
White <sup>1</sup> . . . . .	1,907	1,824	1,922	1,917	719	391	236	210	361	1,379	2,359	3,018	3,241
Black and other races <sup>1</sup> . . . . .	446	340	274	208	69	44	33	36	24	1,524	2,668	3,008	2,684
Hispanic . . . . .	285	328	326	338	68	68	44	86	72	2,154	4,319	4,795	4,511
Northeast . . . . .	227	204	231	185	49	39	28	22	47	1,287	2,977	3,417	4,416
Midwest . . . . .	674	688	851	926	338	195	108	103	181	1,212	2,019	2,717	2,818
South . . . . .	1,074	1,004	860	845	325	177	102	117	125	1,289	2,217	3,088	2,981
West . . . . .	664	595	580	506	144	92	75	90	105	2,157	4,037	4,194	4,638

NA Not available. <sup>1</sup> Excludes persons of Hispanic origin.Source: U.S. Dept. of Agriculture, Economic Research Service, *The Agricultural Work Force*, periodic.



## No. 1146. Farm Output Indexes: 1970 to 1990

[1977=100. See also *Historical Statistics, Colonial Times to 1970*, series K 414-429]

ITEM	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990, prel.
Farm output <sup>1</sup>	84	104	118	118	96	112	118	111	110	102	114	117
Per unit of total input	87	101	116	117	99	117	128	124	124	117	128	(NA)
Gross production:												
Livestock and products <sup>2</sup>	99	108	109	107	109	107	110	110	113	116	116	117
Meat animals	102	107	106	101	104	101	102	100	102	105	104	101
Dairy products	95	105	108	110	114	110	117	116	116	118	117	120
Poultry and eggs	93	115	119	119	120	123	128	133	144	148	153	165
Crops <sup>3</sup>	77	101	117	117	88	111	118	109	108	92	107	112
Feed grains	71	97	121	122	67	116	134	123	106	73	108	112
Hay and forage	92	98	106	109	100	107	106	106	102	89	101	101
Food grains	69	121	144	138	117	129	121	107	107	98	107	136
Vegetables	96	104	111	116	107	117	122	117	126	115	132	(NA)
Fruits and nuts	81	119	111	113	110	114	119	111	137	137	129	(NA)
Sugar crops	95	97	107	96	93	95	97	106	111	105	105	106
Cotton	72	79	109	85	55	91	94	69	103	107	86	102
Tobacco	100	93	108	104	75	90	81	63	62	72	71	84
Oil crops	66	99	114	121	91	106	117	110	108	89	106	102

NA Not available. <sup>1</sup> Annual production available for eventual human use. <sup>2</sup> Includes livestock products not shown separately and excludes horses and mules. <sup>3</sup> Includes crops not shown separately.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: Production and Efficiency Statistics, 1989*. Also in *Agricultural Outlook*, monthly.

## No. 1147. Selected Farm Products—Production and Exports: 1970 to 1990

ITEM	Unit	1970	1980	1983	1984	1985	1986	1987	1988	1989	1990
Corn for grain: Production	Mil. bu.	4,152	6,639	4,175	7,872	8,876	8,226	7,131	4,929	7,525	7,933
Exports	Mil. bu.	517	2,355	1,902	1,850	1,227	1,492	1,716	2,028	2,367	1,750
Percent of production	Percent	12.5	35.5	45.5	24.1	13.8	18.1	24.1	41.1	31.5	22.1
Soybeans, for beans: Production	Mil. bu.	1,127	1,798	1,836	1,861	2,099	1,940	1,938	1,549	1,924	1,922
Exports <sup>1</sup>	Mil. bu.	434	724	743	598	740	757	802	527	623	540
Percent of production	Percent	38.5	40.3	45.4	32.1	35.7	39.0	41.4	34.0	32.4	28.1
Wheat: Production	Mil. bu.	1,352	2,381	2,420	2,595	2,424	2,081	2,108	1,812	2,037	2,739
Exports	Mil. bu.	741	1,514	1,429	1,424	909	999	1,598	1,419	1,233	1,050
Percent of production	Percent	54.8	63.6	59.0	54.9	37.5	47.8	75.8	78.3	60.5	38.3
Cotton: Production	Mil. bales <sup>2</sup>	10.2	11.1	7.8	13.0	13.4	9.7	14.8	15.4	12.2	15.8
Exports	Mil. bales	3.9	5.9	6.8	6.2	2.0	6.7	6.6	6.2	7.7	7.9
Percent of production	Percent	38.2	53.2	87.2	47.7	14.9	69.1	44.6	40.3	63.1	50.6
Tobacco: Production	Mil. lb.	1,906	1,786	1,429	1,728	1,511	1,164	1,191	1,370	1,370	(NA)
Exports	Mil. lb.	639	649	596	666	620	591	573	555	558	(NA)
Percent of production	Percent	33.5	36.3	41.7	38.5	41.0	50.8	48.1	40.5	40.7	(NA)

NA Not available. <sup>1</sup> Represents marketing year for each product. <sup>2</sup> 480 lb. net weight bales. <sup>3</sup> Farm sales weight.

Source: U.S. Dept. of Agriculture, Economic Research Service. In *Agricultural Statistics*, annual.

## No. 1148. Selected Farm Products—United States and World Production and Exports: 1986 to 1988

[In metric tons, except as indicated. Metric ton=1.102 short tons or .984 long tons]

ITEM	Unit	AMOUNT						UNITED STATES AS PERCENT OF WORLD		
		United States			World			1986	1987	1988
		1986	1987	1988	1986	1987	1988			
PRODUCTION <sup>1</sup>										
Wheat	Million.	57	57	49	531	502	501	10.7	11.4	9.8
Corn for grain	Million.	210	181	125	476	448	400	44.1	40.4	31.3
Soybeans	Million.	53	53	42	98	104	95	53.9	51.0	44.6
Rice, rough	Million.	6.0	5.9	7.3	468	463	488	1.3	1.3	1.4
Tobacco, unmanufactured <sup>2</sup>	1,000	528	539	621	5,928	6,160	6,840	8.9	8.8	9.1
Vegetable oils	Million.	6.7	7.1	6.4	50.3	53.1	53.6	13.7	13.8	11.9
Cotton	Million bales <sup>3</sup>	9.7	14.8	15.4	70.7	81.3	84.8	13.7	18.2	18.2
EXPORTS <sup>4</sup>										
Wheat <sup>5</sup>	Million.	28.4	43.4	37.6	90.7	105.0	96.9	31.3	41.3	38.8
Corn	Million.	39.4	44.5	51.3	56.4	56.7	63.8	69.9	78.5	80.4
Soybeans	Million.	20.6	21.9	14.4	28.5	30.1	23.5	72.2	72.8	61.3
Rice, milled basis	Million.	2.4	2.2	3.0	12.9	11.9	15.1	18.6	18.5	19.9
Tobacco, unmanufactured <sup>6</sup>	1,000	217	195	219	1,334	1,350	1,368	16.3	14.4	16.0
Vegetable oils	Million.	0.9	1.5	1.3	16.9	17.7	18.4	5.3	8.5	7.0
Cotton	Million bales <sup>3</sup>	6.7	6.6	6.1	26.0	23.3	26.1	25.8	28.3	23.4

<sup>1</sup> Production years vary by commodity. In most cases, includes harvests from July 1 of the year shown through June 30 of the following year. <sup>2</sup> Farm sales weight basis. <sup>3</sup> Bales of 480 lb. net weight. <sup>4</sup> Trade years may vary by commodity. <sup>5</sup> Includes wheat flour on a grain equivalent. <sup>6</sup> Dried weight basis.

Source: U.S. Department of Agriculture, Foreign Agricultural Service, *Foreign Agricultural Commodity Circular Series*, periodic.

### No. 1149. Agricultural Exports and Imports—Volume, by Principal Commodities: 1980 to 1989

(In thousands of metric tons)

EXPORTS	1980	1985	1988	1989	IMPORTS	1980	1985	1988	1989
Animal products <sup>1</sup>	2,575	2,517	2,765	2,966	Fruits, nuts, and vegetables	2,325	3,669	3,845	4,287
Wheat and products <sup>2</sup>	37,130	26,123	41,957	37,652	Bananas	2,352	2,969	2,891	2,930
Feed grains and products	72,970	51,735	55,211	67,113	Green coffee	1,089	1,122	965	1,163
Rice	3,075	1,961	2,303	3,057	Cocoa and products	252	565	512	569
Feeds and fodders	6,888	6,710	11,374	10,993	Meat and products <sup>5</sup>	931	1,139	1,263	1,111
Oilseeds and products <sup>3</sup>	31,042	23,679	26,904	21,798	Vegetable oils	704	961	1,346	1,054
Fruits, nuts and vegetables <sup>4</sup>	4,147	3,255	4,057	4,287	Sugar	3,744	2,198	1,214	1,542
Cotton	1,880	1,135	1,346	1,580					
Tobacco	272	249	219	225					

<sup>1</sup> Includes meat and products, poultry meats, dairy products, and fats, oils and greases. Excludes live animals, hides, skins, and eggs. <sup>2</sup> Includes flour and bulgur. <sup>3</sup> Includes soybeans, sunflowerseeds, peanuts, cottonseed, safflowerseed, flaxseed, and nondefatted soybean flour. <sup>4</sup> Excludes fruit juices. <sup>5</sup> Excludes poultry.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Foreign Agricultural Trade of the United States*, annual, and *Foreign Agricultural Trade of the United States*, Jan./Feb. 1990.

### No. 1150. Agricultural Exports and Imports—Value: 1970 to 1989

(In billions of dollars, except percent. Includes Puerto Rico. Excludes forest products and distilled liquors; includes crude rubber and similar gums (now mainly plantation products). Includes shipments under foreign aid programs. See also *Historical Statistics, Colonial Times to 1970*, series K 251-255)

YEAR	Trade balance	Exports, domestic products	Percent of all exports	Imports for consumption	Percent of all imports	YEAR	Trade balance	Exports, domestic products	Percent of all exports	Imports for consumption	Percent of all imports
1970-1974, avg.	5.5	12.8	21	7.3	12	1978	14.6	29.4	21	14.8	9
1975-1979, avg.	13.5	26.5	20	13.0	11	1979	18.0	34.7	19	16.7	8
1980-1984, avg.	21.9	39.0	18	17.1	6	1980	23.9	41.2	18	17.4	7
1985-1989, avg.	11.3	32.2	12	20.9	5	1981	26.6	43.3	18	16.8	6
1970	1.5	7.3	17	5.8	15	1982	21.2	36.6	17	15.4	6
1971	1.9	7.7	18	5.8	13	1983	19.5	36.1	18	16.6	7
1972	2.9	9.4	19	6.5	12	1984	18.5	37.8	17	19.3	6
1973	9.3	17.7	25	8.4	12	1985	9.1	29.0	13	20.0	6
1974	11.7	21.9	23	10.2	10	1986	4.8	26.2	13	21.5	6
1975	12.6	21.9	21	9.3	10	1987	8.3	28.7	12	20.4	5
1976	12.0	23.0	20	11.0	9	1988	16.2	37.1	12	21.0	5
1977	10.2	23.6	20	13.4	9	1989	18.2	40.0	11	21.8	5

Source: U.S. Dept. of Agriculture, Economic Research Service, *U.S. Foreign Agricultural Trade Statistical Report*, annual, and *Foreign Agricultural Trade of the United States*, Jan.-Feb. issues. Also in *Agricultural Statistics*, annual.

### No. 1151. Agricultural Imports—Value, by Selected Commodity, 1970 to 1989, and by Leading Countries of Origin, 1989

(In millions of dollars)

COMMODITY	1970	1980	1985	1986	1987	1988	1989	Leading countries of origin, 1989
<b>Total</b>	<b>5,770</b>	<b>17,366</b>	<b>19,968</b>	<b>21,453</b>	<b>20,402</b>	<b>20,951</b>	<b>21,752</b>	<b>Canada, Brazil, Mexico</b>
Competitive products	3,609	10,374	13,067	13,436	13,781	14,688	15,627	Canada, Mexico, New Zealand
Beef and veal	680	1,780	1,276	1,289	1,562	1,679	1,663	Australia, New Zealand, Canada
Pork	272	486	861	1,001	1,096	933	754	Canada, Denmark, Poland
Dairy products	126	488	765	827	831	875	857	New Zealand, Ireland, France
Fruits and preparations	146	564	1,738	1,598	1,718	1,866	1,820	Brazil, Mexico, Chile
Vegetables and preparations	296	864	1,385	1,602	1,535	1,615	2,049	Mexico, Spain, Canada
Wine	145	692	998	1,017	966	939	930	France, Italy, Spain
Malt beverages	32	367	633	791	882	918	855	Netherlands, Canada, Mexico
Grains and feeds	99	371	623	693	748	909	1,217	Canada, Thailand, Italy
Sugar and related products	798	2,205	1,190	991	630	690	956	Dominican Republic, Canada, Philippines
Noncompetitive products	2,161	6,992	6,902	8,017	6,621	6,263	6,125	Indonesia, Brazil, Mexico
Coffee and products	1,213	4,186	3,322	4,620	2,908	2,470	2,432	Mexico, Brazil, Colombia
Rubber, crude natural	236	817	654	622	760	1,023	958	Indonesia, Malaysia, Thailand
Cocoa and products	279	920	1,351	1,129	1,194	1,003	977	Brazil, Ivory Coast, Canada
Bananas and plantains	194	430	763	763	819	832	871	Ecuador, Costa Rica, Honduras

Source: U.S. Dept. of Agriculture, Economic Research Service, *Foreign Agricultural Trade of the United States*, annual.

# No. 1152. Agricultural Exports—Value, by Principal Commodities and Selected Countries of Destination: 1970 to 1989

[See headnote, table 1150. Data by country of destination for 1970 and 1980 are not adjusted for transshipments]

COMMODITY AND COUNTRY	VALUE (mil. dol.)									PERCENT		
	1970	1980	1984	1985	1986	1987	1988	1989		1970	1980	1989
<b>Total agricultural exports</b> <sup>1</sup>	<b>7,255</b>	<b>41,233</b>	<b>37,804</b>	<b>29,041</b>	<b>25,222</b>	<b>28,709</b>	<b>37,128</b>	<b>38,991</b>		<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Grains and feeds <sup>2</sup>	2,720	19,117	17,163	11,882	8,656	9,423	13,979	17,202		37.5	46.4	43.0
Feed grains and products	1,093	9,831	8,204	6,112	3,176	3,917	5,970	7,874		15.1	23.8	19.7
Corn	818	8,492	6,999	5,206	2,605	3,209	5,040	6,581		11.3	20.6	15.5
Wheat and products	1,136	6,660	6,740	3,898	3,290	3,280	5,117	6,150		15.7	16.2	15.4
Rice	313	1,289	845	665	625	576	806	970		4.3	3.1	2.4
Oilseeds and products <sup>2</sup>	1,831	9,393	8,369	5,794	6,467	6,446	7,753	8,316		26.8	22.8	15.8
Soybeans	1,228	5,880	5,418	3,732	4,326	4,378	4,920	3,944		16.9	14.3	9.9
Soybean oil cake and meal	344	1,685	997	870	1,229	1,211	1,580	1,136		4.7	4.0	2.8
Vegetable oils and waxes	295	1,216	1,270	870	672	626	983	672		4.1	2.9	2.2
Animals and animal products <sup>2</sup>	865	3,768	4,228	4,150	4,547	5,156	6,422	6,373		11.9	9.1	15.9
Hides and skins, incl. furskins	187	1,046	1,383	1,295	1,522	1,731	1,829	1,717		2.6	2.5	4.3
Cattle hides	130	623	1,086	1,007	1,219	1,328	1,466	1,343		1.8	1.5	3.4
Meats and meat products	132	890	928	905	1,130	1,368	1,974	2,346		1.8	2.2	5.9
Beef and veal	25	249	470	467	634	771	1,109	1,418		0.3	0.6	3.5
Fats, oils, and greases	246	769	698	619	413	431	577	512		3.4	1.9	1.3
Poultry and poultry products	82	603	415	384	504	602	689	720		1.1	1.5	1.8
Cotton, excluding linters	372	2,864	2,441	1,633	812	1,631	1,975	2,250		5.1	6.9	5.6
Tobacco, unmanufactured	517	1,334	1,511	1,521	1,223	1,090	1,253	1,341		7.1	3.2	3.4
Fruits and preparations	334	1,335	1,243	1,186	1,306	1,484	1,762	1,836		4.6	3.2	4.6
Fresh fruits	164	739	758	743	851	939	1,093	1,133		2.3	1.8	2.8
Vegetables and preparations	219	1,188	1,002	930	1,085	1,158	1,361	1,604		3.0	2.9	4.0
Nuts and preparations	69	757	604	683	753	804	884	866		1.0	1.8	2.1
Other	232	1,477	1,243	1,262	1,373	1,517	1,737	2,223		3.2	3.6	5.6
<b>Asia</b> <sup>1</sup>	<b>2,717</b>	<b>14,886</b>	<b>14,907</b>	<b>11,191</b>	<b>10,617</b>	<b>12,535</b>	<b>16,871</b>	<b>18,841</b>		<b>37.5</b>	<b>36.1</b>	<b>47.1</b>
Japan	1,214	6,111	6,782	5,409	5,141	5,723	7,640	8,164		16.7	14.8	20.4
South Korea	224	1,797	1,650	1,413	1,306	1,833	2,283	2,593		3.1	4.4	6.5
China: Taiwan	134	1,095	1,458	1,231	1,171	1,285	1,661	1,754		1.9	2.7	4.4
Mainland	-	2,210	613	157	58	362	759	1,433		-	5.4	3.6
Iraq	2	255	535	326	360	538	808	749		-	0.6	1.9
Hong Kong	57	437	412	389	400	466	489	615		0.8	1.1	1.5
Pakistan	119	158	310	268	225	138	393	552		1.6	0.4	1.4
<b>Western Europe</b> <sup>1</sup>	<b>2,534</b>	<b>11,744</b>	<b>8,837</b>	<b>6,937</b>	<b>7,056</b>	<b>7,309</b>	<b>7,877</b>	<b>7,058</b>		<b>34.9</b>	<b>28.5</b>	<b>17.6</b>
European Economic Community <sup>4</sup>	2,316	11,033	8,257	6,477	6,627	6,880	7,338	6,566		29.4	22.4	16.4
Netherlands	528	3,412	2,323	1,869	2,073	1,985	2,066	1,722		7.3	8.3	4.3
West Germany	529	1,831	1,065	944	1,048	1,285	1,215	1,000		7.3	4.4	2.4
Spain	143	1,129	1,029	837	703	666	883	859		2.0	2.7	2.1
United Kingdom	210	411	928	754	604	681	835	703		5.7	2.3	1.8
Italy	411	1,084	806	669	727	697	693	637		2.9	2.7	1.6
Latin America <sup>1</sup>	688	6,150	5,263	4,224	3,681	3,878	4,927	5,346		9.5	14.9	13.4
Mexico	155	2,488	1,993	1,439	1,080	1,202	2,227	2,731		2.1	6.0	6.8
Canada	826	1,852	1,963	1,622	1,542	1,808	2,019	2,228		11.4	4.5	5.6
Soviet Union	16	1,047	2,878	1,923	658	938	2,252	3,586		0.2	2.5	9.0
Eastern Europe	169	2,071	758	479	434	436	540	401		2.3	5.0	1.0
<b>Africa</b> <sup>1</sup>	<b>254</b>	<b>2,179</b>	<b>2,972</b>	<b>2,488</b>	<b>2,008</b>	<b>1,766</b>	<b>2,385</b>	<b>2,261</b>		<b>3.5</b>	<b>5.3</b>	<b>5.7</b>
Egypt	26	770	909	891	811	679	811	989		0.4	1.9	2.5

- Represents or rounds to zero. <sup>1</sup> Includes areas not shown separately. <sup>2</sup> Includes commodities not shown separately. <sup>3</sup> Includes Canary Islands and Madeira Islands for all years. <sup>4</sup> Includes Belgium, Luxembourg, Denmark, France, Greece, Ireland, and Portugal, not shown separately. As of Jan. 1, 1973, United Kingdom, Denmark, and Ireland became members of EEC. As of Jan. 1, 1981, Greece became a member of EEC. As of Jan. 1, 1986, Spain and Portugal became members of EEC. For consistency, data for all years are shown on same basis. <sup>5</sup> As of Jan. 1, 1984, includes Canary Islands and Spanish Africa, not elsewhere classified.

Source: U.S. Dept. of Agriculture, Economic Research Service, *U.S. Foreign Agricultural Trade Statistical Report*, annual. Also in *Agricultural Statistics*, annual, and *Foreign Agricultural Trade of the United States*, Jan/Feb 1990.

## No. 1153. Agricultural Exports—Estimated Value, by Leading States: 1989

[In millions of dollars. For year ending September 30]

COMMODITY	Total value	FIVE LEADING STATES									
		1		2		3		4		5	
		State	Value	State	Value	State	Value	State	Value	State	Value
<b>All commodities</b> <sup>1</sup>	<b>39,651</b>	<b>CA</b>	<b>3,561</b>	<b>NE</b>	<b>2,984</b>	<b>IA</b>	<b>2,978</b>	<b>KS</b>	<b>2,845</b>	<b>TX</b>	<b>2,640</b>
Feed grains and products	8,346	NE	1,447	IA	1,408	IL	1,107	KS	656	IN	650
Wheat and products	6,292	KS	1,027	WA	623	OK	549	ND	437	ID	358
Soybeans and products	5,774	IA	936	IL	876	MN	465	IN	431	MO	418
Live animals and meat	2,830	KS	388	NE	386	TX	363	IA	236	KY	217
Cotton and lint	2,059	TX	706	CA	378	MS	244	AZ	148	AR	140
Fruits and preparations	1,800	CA	912	FL	403	WA	160	OR	56	MI	52
Hides and skins	1,657	KS	300	NE	285	TX	268	CO	109	IA	95
Vegetables and preparations	1,546	CA	715	WA	180	ID	74	WI	72	OR	69
Tobacco, unmanufactured	1,274	NC	540	KY	278	SC	98	VA	94	GA	84
Feeds and fodders	1,061	IA	108	MN	93	NE	89	IL	88	FL	79

<sup>1</sup> Includes other commodities not shown separately.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Foreign Agricultural Trade of the United States*, Mar./Apr. 1990.

## No. 1154. Cropland Used for Crops and Acreages of Crops Harvested: 1970 to 1989

[See also *Historical Statistics, Colonial Times to 1970*, series K 496-501]

YEAR	CROPLAND USED FOR CROPS					Index of crop production per acre (1977 = 100)	ACREAGES OF CROPS HARVESTED <sup>2</sup>				
	Number (mil. acres)				Index (1977 = 100)		Total (mil. acres)	Used to produce goods for—			
	Total	Crop-land harvested <sup>1</sup>	Crop failure	Cultivated summer fallow				Domestic use		Exports	
								Amount (mil. acres)	Per capita (acres) <sup>3</sup>	Amount (mil. acres)	Per-cent of total
1970	332	289	5	38	88	88	293	221	1.08	72	24.6
1980	382	342	10	30	101	100	352	215	0.94	137	38.9
1984	373	337	6	30	99	112	348	252	1.06	96	27.6
1985	372	334	7	31	98	120	342	263	1.10	81	23.7
1986	357	316	9	32	94	116	325	229	0.95	96	29.5
1987	331	293	6	32	88	123	302	196	0.80	106	35.1
1988	327	287	10	30	86	107	298	180	0.73	118	39.6
1989 <sup>4</sup>	341	306	8	27	90	119	318	216	0.87	102	32.1

<sup>1</sup> Land supporting one or more harvested crops. <sup>2</sup> Area in principal crops harvested as reported by Crop Reporting Board plus acreages in fruits, tree nuts, and farm gardens. <sup>3</sup> Based on Bureau of the Census estimated total population, including Armed Forces overseas, as of July 1. <sup>4</sup> Preliminary.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: Production and Efficiency Statistics*, annual. Also in *Agricultural Statistics*, annual.

## No. 1155. Crops—Acreage and Value, 1987 to 1989, and Order of Value, 1989, by State

STATE	ACREAGE HARVESTED (1,000)			FARM VALUE (mil. dol.)			Crops in order of value, 1989	
	1987	1988	1989, prel.	1987	1988	1989, prel.		
						Value		Rank
U.S. <sup>1</sup>	289,422	289,846	305,641	68,963	72,828	76,967	(X) Corn, hay, soybeans, wheat	
AL	2,358	2,389	2,356	533	571	576	34 Peanuts, cotton lint, hay, soybeans	
AZ	723	784	830	875	1,060	1,032	28 Cotton lint, lettuce, hay, cottonseed	
AR	7,132	7,538	7,595	1,391	1,780	1,582	19 Rice, soybeans, cotton lint, wheat	
CA	4,950	5,107	4,891	9,366	9,860	9,470	1 Grapes, tomatoes, cotton lint, hay	
CO	5,634	5,609	5,677	963	1,366	1,255	22 Hay, wheat, potatoes, dry edible beans	
CT	132	124	128	72	93	94	46 Tobacco, mushrooms, hay, apples	
DE	514	504	537	86	128	125	44 Soybeans, corn, wheat	
FL	1,108	1,115	1,137	2,763	3,253	3,151	7 Oranges, tomatoes, sugarcane, potatoes	
GA	3,601	3,754	4,210	1,125	1,305	1,380	21 Peanuts, soybeans, tobacco, corn	
HI	87	86	80	384	393	4174	40 Sugarcane, pineapples, coffee	
ID	4,141	4,018	4,333	1,271	1,684	1,702	18 Potatoes, hay, wheat, barley	
IL	20,335	21,581	22,977	4,815	4,242	5,872	2 Corn, soybeans, wheat, hay	
IN	10,781	11,082	11,631	2,701	2,397	3,052	8 Corn, soybeans, wheat, hay	
IA	20,956	23,082	24,097	4,906	4,632	5,519	3 Corn, soybeans, hay, oats	
KS	19,924	19,191	18,795	2,343	2,774	2,333	10 Wheat, hay, sorghum, corn	
KY	4,975	4,968	5,491	1,207	1,395	1,723	17 Tobacco, hay, corn, soybeans	
LA	3,905	4,308	3,933	1,034	1,251	827	31 Cotton lint, soybeans, sugarcane, rice	
ME	356	346	364	143	212	206	39 Potatoes, hay, apples, oats	
MD	1,493	1,493	1,603	270	356	353	36 Corn, soybeans, hay, wheat	
MA	158	143	136	138	169	166	42 Cranberries, hay, sweet corn, tobacco	
MI	6,124	6,401	6,390	1,442	1,575	1,723	16 Corn, hay, soybeans, apples	
MN	17,397	18,767	18,661	3,674	3,134	3,819	4 Corn, soybeans, hay, wheat	
MS	5,020	5,149	4,613	1,093	1,204	1,034	27 Cotton lint, soybeans, rice, hay	
MO	12,436	12,684	13,249	2,035	2,138	2,261	11 Soybeans, corn, hay, wheat	
MT	9,242	7,118	9,475	851	640	1,047	25 Wheat, hay, barley, sugarbeets	
NE	15,932	16,765	17,641	2,881	3,661	3,309	6 Corn, hay, soybeans, wheat	
NV	558	549	554	121	149	167	41 Hay, potatoes, wheat, barley	
NH	102	99	93	26	30	26	48 Hay, apples	
NJ	381	368	380	172	167	162	43 Peaches, tomatoes, hay, soybeans	
NM	953	936	926	304	338	385	35 Hay, onions, potatoes, sorghum	
NY	3,628	3,439	3,560	880	873	876	30 Hay, apples, onions, corn	
NC	4,155	4,104	4,526	1,484	1,851	1,858	14 Tobacco, soybeans, corn, peanuts	
ND	19,415	16,216	20,660	1,926	1,301	1,751	15 Wheat, hay, barley, sugarbeets	
OH	9,698	9,731	10,259	2,227	2,162	2,480	9 Corn, soybeans, hay, wheat	
OK	8,353	8,482	9,380	854	1,203	1,196	24 Wheat, hay, peanuts, cotton lint	
OR	2,257	2,168	2,339	855	1,011	1,040	26 Hay, wheat, pears, onions	
PA	4,257	4,199	4,199	1,123	1,114	1,240	23 Hay, corn, mushrooms, apples	
RI	13	11	10	5	6	5	49 Potatoes, hay, apples	
SC	1,925	2,022	2,283	494	603	624	33 Tobacco, soybeans, corn, wheat	
SD	14,601	13,508	15,294	1,408	1,158	1,456	20 Corn, hay, soybeans, wheat	
TN	4,463	4,548	4,564	840	953	917	29 Soybeans, hay, tobacco, cotton lint	
TX	16,267	16,527	16,644	3,440	3,655	3,385	5 Cotton lint, hay, corn, sorghum	
UT	1,080	1,026	983	239	260	247	37 Hay, barley, wheat	
VT	465	453	442	72	72	76	47 Hay, apples	
VA	2,732	2,708	2,767	576	741	803	32 Hay, tobacco, corn, soybeans	
WA	3,902	3,890	4,045	1,641	2,199	2,239	12 Apples, wheat, potatoes, hay	
WV	657	644	664	81	97	114	45 Hay, apples, corn, tobacco	
WI	8,351	8,430	8,614	1,608	1,325	1,906	13 Corn, hay, potatoes	
WY	1,796	1,674	1,628	223	284	231	38 Hay, sugarbeets, dry edible beans, barley	

X Not applicable. <sup>1</sup> Excludes Alaska. <sup>2</sup> Incomplete data.Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Crop Production*, annual; and *Crop Values*, annual.

## No. 1156. Principal Crops—Production, Supply, and Disappearance: 1985 to 1990

[Marketing year beginning May 1 for hay, June 1 for wheat, August 1 for cotton and rice, September 1 for soybeans, corn, and sorghum. Acreage, production, and yield of all crops periodically revised on basis of census data. See also *Historical Statistics, Colonial Times to 1970*, series K 506-563]

CROP AND YEAR	ACREAGE (mil.)—			Yield per acre	Pro-duction	Farm price <sup>2</sup>	Farm value (mil. dol.)	Total supply <sup>3</sup>	DISAPPEAR-ANCE		Ending stocks
	Set aside <sup>1</sup>	Plant-ed	Har-vested						Total <sup>4</sup>	Ex-ports	
<b>Corn for grain:</b>				Bu.	Mil. bu.	\$/bu.					
1985	14.3	76.7	68.9	119.4	8,226	1.50	12,541	12,267	7,385	1,492	4,882
1987	23.1	65.2	59.5	119.8	7,131	1.94	14,108	12,016	7,757	1,716	4,259
1988	20.5	67.7	58.3	84.6	4,929	2.54	12,661	9,191	7,260	2,028	1,930
1989	10.8	72.3	64.8	116.2	7,525	2.25	17,020	9,458	8,113	2,367	1,344
1990	10.1	74.2	67.0	118.5	7,933	(NA)	(NA)	9,280	7,880	1,700	1,400
<b>Hay:</b>				Sh. tons	Mil. sh. tons	\$/ton					
1985	-	(NA)	60.4	2.46	149	<sup>5</sup> \$67.50	9,437	175.5	148.8	(NA)	26.7
1986	-	(NA)	62.4	2.49	156	<sup>5</sup> \$69.70	8,611	182.2	149.9	(NA)	32.3
1987	-	(NA)	60.1	2.45	148	<sup>5</sup> \$69.70	8,845	179.8	152.7	(NA)	27.1
1988	-	(NA)	65.1	1.94	126	<sup>5</sup> \$65.20	10,457	153.1	135.6	(NA)	17.5
1989	-	(NA)	63.4	2.29	145	<sup>5</sup> \$69.50	11,778	162.9	140.0	(NA)	22.9
<b>Soybeans:</b>				Bu.	Mil. bu.	\$/bu.					
1985	-	60.4	58.3	33.3	1,940	4.78	9,263	2,476	2,040	757	436
1987	-	58.2	57.2	33.9	1,938	5.88	11,391	2,374	2,072	802	302
1988	-	58.8	57.4	27.0	1,549	7.42	11,488	1,855	1,673	527	182
1989	-	60.8	59.5	32.3	1,924	5.55	10,622	2,109	1,870	623	239
1990	-	57.8	56.5	34.0	1,922	5.75	(NA)	2,163	1,808	540	355
<b>Wheat:</b>				Bu.	Mil. bu.	\$/bu.					
1985	21.0	72.1	60.7	34.4	2,091	2.42	5,044	4,017	2,198	999	1,821
1987	23.9	65.8	56.0	37.7	2,108	2.57	5,498	3,945	2,684	1,598	1,261
1988	22.5	65.5	53.2	34.1	1,812	3.72	6,684	3,096	2,394	1,419	702
1989	9.6	76.6	62.1	32.7	2,037	3.82	7,742	2,762	2,225	1,293	536
1990	7.1	77.3	69.4	39.5	2,739	2.61	(NA)	3,310	2,454	1,075	856
<b>Cotton:</b>				Lb.	bales <sup>7</sup>	cents/lb.					
1985	4.2	10.0	8.5	552	<sup>8</sup> 9.7	52.4	2,449	19.1	14.1	6.7	<sup>9</sup> 5.0
1987	3.9	10.4	10.0	706	<sup>8</sup> 14.8	84.3	4,555	19.8	14.2	6.6	<sup>9</sup> 5.8
1988	2.2	12.5	12.0	619	<sup>8</sup> 15.4	56.6	4,190	21.2	13.9	6.2	<sup>9</sup> 7.1
1989	3.5	10.6	9.5	614	<sup>8</sup> 12.2	67.3	3,953	19.3	16.4	7.7	<sup>9</sup> 3.0
1990	1.9	12.4	11.7	640	<sup>8</sup> 15.5	67.8	(NA)	18.5	16.3	7.9	<sup>9</sup> 2.3
<b>Potatoes:</b>				Cwt.	cwt.	\$/cwt.					
1985	(NA)	1.4	1.3	299	407	3.92	1,568	583	<sup>10</sup> 293	<sup>11</sup> 7	(NA)
1986	(NA)	1.2	1.2	296	362	5.03	1,808	567	<sup>10</sup> 309	<sup>11</sup> 10	(NA)
1987	(NA)	1.3	1.3	301	389	4.38	1,682	574	<sup>10</sup> 307	<sup>11</sup> 11	(NA)
1988	(NA)	1.3	1.2	283	356	6.02	2,144	559	<sup>10</sup> 303	<sup>11</sup> 14	(NA)
1989	(NA)	1.3	1.3	289	370	6.85	2,524	554	<sup>10</sup> 314	<sup>11</sup> 15	(NA)
<b>Tobacco:</b> <sup>12</sup>				Lb.	Mil. lb.	\$/lb.					
1985	(NA)	(NA)	.7	2,197	1,511	<sup>6</sup> 1.65	2,486	5,435	1,620	620	3,815
1986	(NA)	(NA)	.6	2,001	1,164	<sup>6</sup> 1.52	1,772	4,978	1,572	591	3,406
1987	(NA)	(NA)	.6	2,028	1,189	<sup>6</sup> 1.57	1,870	4,597	1,688	573	2,909
1988	(NA)	(NA)	.6	2,180	1,370	<sup>6</sup> 1.65	2,254	4,279	1,566	555	2,713
1989	(NA)	(NA)	.7	2,016	1,370	<sup>6</sup> 1.71	2,340	4,083	1,605	558	2,478
<b>Sorghum for grain:</b>				Bu.	Mil. bu.	\$/bu.					
1985	3.0	15.3	13.9	67.7	938	1.37	1,322	1,489	746	198	743
1987	4.1	11.8	10.5	69.4	731	1.70	1,179	1,474	811	231	663
1988	3.9	10.3	9.0	63.8	577	2.27	1,337	1,239	800	310	440
1989	3.3	12.6	11.2	55.4	615	2.05	1,280	1,055	835	304	220
1990	3.0	10.7	9.1	62.9	571	(NA)	(NA)	791	673	210	118
<b>Rice, rough:</b>				Lb.	Mil.	\$/cwt.					
1985	1.5	2.4	2.4	5,651	133	3.75	499	213	162	84	51
1987	1.6	2.4	2.3	5,555	130	7.27	945	184	153	72	31
1988	1.1	2.9	2.9	5,514	160	6.83	1,092	195	168	86	27
1989	1.2	2.7	2.7	5,749	155	7.10	1,097	185	159	77	26
1990	1.0	2.9	2.8	5,507	155	(NA)	(NA)	186	162	73	24

- Represents zero. NA Not available. <sup>1</sup> Acreage set aside under diversion, PIK (payment-in-kind) and acreage reduction programs. <sup>2</sup> Except as noted, marketing year average price. U.S. prices are computed by weighting U.S. monthly prices by estimated monthly marketings and do not include an allowance for outstanding loans and government purchases and payments. <sup>3</sup> Comprises production, imports, and beginning stocks. <sup>4</sup> Includes feed, residual, and other domestic uses not shown separately. <sup>5</sup> Prices are for hay sold baled. <sup>6</sup> Season average prices received by farmers. U.S. prices are computed by weighting State prices by estimated sales and include an allowance for outstanding loans and government purchases, if any, for crops under government programs. <sup>7</sup> Bales of 480 pounds, net weight. <sup>8</sup> State production figures, which conform with U.S. Bureau of the Census annual ginning enumeration with allowance for cross-State ginnings, rounded to thousands and added for U.S. totals. <sup>9</sup> Stock estimates based on Census Bureau data which results in an unaccounted difference between supply and use estimates and changes in ending stocks. <sup>10</sup> Covers potatoes used for table use, frozen and canned products, chips, and dehydration. <sup>11</sup> Covers fresh potatoes and frozen and dehydrated products. <sup>12</sup> Flue-cured and cigar wrapper, crop year July-June; all other types October-September. Farm-sales-weight basis.

Source: Production—U.S. Dept. of Agriculture, National Agricultural Statistics Service, in *Crop Production*, annual, *Field Crops* (Statistical Bulletin No. 708); *Crop Values* (Statistical Bulletin No. 729). Supply and disappearance—U.S. Dept. of Agriculture, Economic Research Service, *Feed Situation*, quarterly; *Fats and Oils Situation*, quarterly; *Wheat Situation*, quarterly; *Tobacco Situation*, quarterly; *Cotton and Wool Outlook Statistics*, periodic; and *Agricultural Supply and Demand Estimates*, periodic. All data are also in *Agricultural Statistics*, annual; and *Agricultural Outlook*, monthly.

## No. 1157. Price Support Operations—Selected Commodities: 1985 to 1989

[For explanation of price support operations, see text, section 23]

CROP AND YEAR	Support or target price <sup>1</sup> (dol. per bu.)	National average loan rate (dol. per bu.)	QUANTITY UNDER SUPPORT <sup>2</sup>		CROP AND YEAR	Support or target price <sup>1</sup>	National average loan rate	QUANTITY UNDER SUPPORT <sup>2</sup>	
			Amount (mil. bu.)	Percent of production				Amount	Percent of production
<b>Corn:</b> <sup>3</sup>					<b>Cotton:</b> <sup>7</sup>				
1985	3.03	2.55	3,158	36	1985	81.0	57.3	1,000 bales <sup>8</sup>	
1986	3.03	1.92	4,894	59	1986	81.0	55.0	7,291	54
1987	3.03	1.82	4,186	59	1987	79.4	52.3	6,170	63
1988	2.93	1.77	756	15	1988	75.9	51.8	5,362	36
1989	2.84	1.65	5925	12	1989	73.4	50.0	11,231	74
<b>Soybeans:</b> <sup>3</sup>					<b>Sorghum:</b> <sup>3</sup>			5,732	32
1985	(X)	5.02	518	25	1985	5.14	4.32	201	32
1986	(X)	4.77	327	17	1986	5.14	3.25	222	42
1987	(X)	4.77	275	14	1987	5.14	3.11	201	49
1988	(X)	4.77	120	8	1988	4.96	3.00	23	7
1989	(X)	4.53	5210	11	1989	4.82	2.80	512	4
<b>Wheat:</b> <sup>8</sup>					<b>Rice:</b>				
1985	4.38	3.30	842	35	1985	11.90	8.00	75	56
1986	4.38	2.40	514	25	1986	11.90	7.20	132	99
1987	4.38	2.28	472	22	1987	11.66	6.84	126	97
1988	4.23	2.21	106	6	1988	11.15	6.63	148	93
1989	4.10	2.06	5113	6	1989	10.80	6.50	5121	78

X Not applicable. <sup>1</sup> Guaranteed on normal production from participating farms. <sup>2</sup> Represents loans made, purchases, and purchase agreements entered into. <sup>3</sup> For years beginning September 1. <sup>4</sup> 1986 annual loan rates were reduced 4.3 percent for budget purposes (e.g. corn became \$1.84 per bu.). <sup>5</sup> Preliminary. <sup>6</sup> For years beginning June 1. <sup>7</sup> For years beginning August 1. <sup>8</sup> Bales of 480 lb. net weight.

Source: U.S. Dept. of Agriculture, Agricultural Stabilization and Conservation Service. Data published in *Agricultural Statistics*, annual.

## No. 1158. Corn—Acreage, Production, and Value, by State: 1987 to 1989

[See also *Historical Statistics, Colonial Times to 1970*, series K 502-505]

STATE	ACREAGE HARVESTED (1,000 acres)			YIELD PER ACRE (bu.) <sup>1</sup>			PRODUCTION (mil. bu.) <sup>1</sup>			PRICE <sup>2</sup> (dol. per bu.)			FARM VALUE (mil. dol.)		
	1987	1988	1989	1987	1988	1989	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>U.S.</b> <sup>3</sup>	<b>59,505</b>	<b>58,250</b>	<b>54,781</b>	<b>119.8</b>	<b>84.8</b>	<b>116.2</b>	<b>7,131</b>	<b>4,929</b>	<b>7,527</b>	<b>1.94</b>	<b>2.54</b>	<b>2.25</b>	<b>14,108</b>	<b>12,661</b>	<b>17,020</b>
CA	221	187	170	160.0	145.0	160.0	35	27	27	2.41	3.16	3.55	85	86	97
CO	690	800	930	155.0	160.0	145.0	107	128	135	1.95	2.54	2.20	209	325	297
DE	148	140	133	75.0	70.0	100.0	11	10	13	2.10	3.01	2.55	23	29	34
GA	610	500	550	84.0	62.0	95.0	51	31	52	2.25	3.02	2.55	115	94	133
IL	9,200	9,600	10,750	132.0	73.0	123.0	1,214	701	1,322	1.96	2.59	2.30	2,380	1,815	3,041
IN	4,880	5,000	5,200	135.0	83.0	133.0	659	415	692	2.08	2.65	2.30	1,370	1,100	1,591
IA	10,150	10,700	12,250	130.0	84.0	118.0	1,320	899	1,446	1.89	2.45	2.15	2,494	2,202	3,108
KS	1,230	1,150	1,240	120.0	125.0	125.0	148	144	155	1.84	2.60	2.25	272	374	349
KY	1,140	1,100	1,180	104.0	73.0	116.0	119	80	137	2.02	2.76	2.45	239	222	335
LA	211	125	132	102.0	95.0	95.0	22	12	13	1.90	2.80	2.55	41	33	32
MD	460	420	400	78.0	65.0	110.0	36	27	44	2.15	3.02	2.60	77	82	114
MI	1,980	1,600	1,970	97.0	70.0	113.0	192	112	223	1.97	2.53	2.20	378	263	490
MN	4,800	4,700	5,600	127.0	74.0	125.0	610	348	700	1.98	2.40	2.10	1,207	835	1,470
MS	150	150	140	80.0	60.0	70.0	12	9	10	2.30	3.10	2.60	28	28	25
MO	2,150	2,020	2,290	113.0	76.0	96.0	243	154	220	1.82	2.63	2.25	442	404	495
NE	6,200	6,600	7,100	131.0	124.0	120.0	812	818	852	1.96	2.48	2.20	1,592	2,030	1,874
NM	49	55	63	155.0	155.0	155.0	8	9	10	2.04	2.91	2.45	15	25	24
NY	600	540	570	109.0	85.0	93.0	65	46	53	2.20	2.83	2.60	144	130	138
NC	1,100	970	950	88.0	84.0	93.0	75	81	88	2.15	2.91	2.60	161	237	230
ND	500	380	465	93.0	58.0	75.0	47	22	35	1.91	2.40	2.15	89	53	75
OH	3,100	3,000	2,900	120.0	85.0	118.0	372	255	342	1.95	2.61	2.35	725	666	804
PA	1,090	910	960	93.0	65.0	103.0	101	59	99	2.47	3.10	2.75	250	183	272
SC	375	335	340	78.0	58.0	91.0	29	19	31	2.10	2.95	2.40	61	57	74
SD	2,650	2,400	2,650	83.0	55.0	72.0	220	132	191	1.92	2.38	2.05	422	314	391
TN	580	530	530	91.0	73.0	107.0	53	39	57	1.95	2.75	2.40	103	106	136
TX	1,250	1,350	1,400	107.0	96.0	106.0	134	130	148	2.17	2.71	2.65	290	351	393
VA	325	295	365	63.0	79.0	110.0	20	23	40	2.05	2.90	2.50	42	68	100
WA	80	80	90	170.0	175.0	175.0	14	14	16	2.15	3.00	2.85	29	41	45
WI	2,800	1,950	2,800	118.0	67.0	111.0	330	131	311	2.01	2.55	2.20	664	333	684

<sup>1</sup> 56 pounds per bushel. <sup>2</sup> Marketing year average prices; see text, section 23. <sup>3</sup> Includes other States not shown separately.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Crop Production*, annual; and *Crop Values*, annual.

**No. 1159. Soybeans for Beans—Acreage, Production, and Value, by State: 1987 to 1989**[See *Historical Statistics, Colonial Times to 1970*, series K 521, for U.S. totals]

STATE	ACREAGE HARVESTED (1,000 acres)			YIELD PER ACRE (bu.)			PRODUCTION (mil. bu.)			PRICE <sup>1</sup> (dol. per bu.)			FARM VALUE (mil. dol.)		
	1987	1988	1989	1987	1988	1989	1987	1988	1989	1987	1988	1989	1987	1988	1989
U.S. <sup>2</sup> . . . . .	57,172	57,383	59,388	33.9	27.0	32.4	1,938	1,549	1,927	5.88	7.42	5.55	11,391	11,488	10,622
AR. . . . .	3,250	3,200	3,200	23.0	26.0	24.0	75	83	77	5.92	7.55	5.60	443	628	430
GA. . . . .	780	900	1,100	21.0	25.0	26.0	16	23	29	5.61	7.30	5.55	92	164	159
IL. . . . .	8,700	8,700	8,850	38.0	27.0	40.0	331	235	354	6.00	7.45	5.55	1,984	1,750	1,965
IN. . . . .	4,350	4,200	4,550	40.0	27.5	37.0	174	116	168	5.94	7.55	5.70	1,034	872	960
IA. . . . .	7,900	8,100	8,280	43.5	31.0	39.0	344	251	323	5.97	7.33	5.45	2,052	1,841	1,760
KS. . . . .	2,110	2,000	1,850	32.0	23.0	27.0	68	46	50	5.49	7.26	5.30	371	334	265
KY. . . . .	1,030	910	1,170	26.5	26.5	31.5	27	24	37	5.93	7.66	5.75	162	185	212
LA. . . . .	1,650	1,950	1,600	25.0	29.0	21.0	41	57	34	5.59	7.51	5.90	231	425	198
MI. . . . .	1,090	1,210	1,080	36.0	29.0	36.0	39	35	39	5.62	7.28	5.50	221	255	214
MN. . . . .	4,650	4,800	5,000	39.0	26.0	37.0	181	125	185	6.10	7.30	5.35	1,106	911	990
MS. . . . .	2,450	2,250	2,000	19.5	22.0	20.0	48	50	40	5.84	7.47	5.80	279	370	232
MO. . . . .	4,930	4,230	4,350	32.0	26.5	28.5	158	112	124	5.70	7.45	5.45	899	835	676
NE. . . . .	2,350	2,360	2,560	35.5	30.0	32.0	83	71	82	5.82	7.31	5.30	486	518	434
NC. . . . .	1,340	1,310	1,550	24.5	27.0	27.0	33	35	42	5.79	7.46	5.55	190	264	232
OH. . . . .	3,900	3,700	3,980	37.0	27.0	32.0	144	100	127	5.94	7.54	5.60	857	753	713
SC. . . . .	730	790	960	22.0	23.5	21.0	16	19	20	5.89	7.43	5.65	95	138	114
SD. . . . .	1,390	1,730	1,880	32.5	24.0	26.0	45	42	49	5.37	7.21	5.25	243	299	257
TN. . . . .	1,250	1,230	1,240	23.0	26.0	24.0	29	32	30	5.61	7.64	5.80	161	244	173
VA. . . . .	490	515	540	22.0	28.0	32.0	11	14	17	6.05	7.40	5.85	65	107	98

<sup>1</sup> See footnote 2, table 1158. <sup>2</sup> Includes other States not shown separately.**No. 1160. Wheat—Acreage, Production, and Value, by State: 1987 to 1989**[See *Historical Statistics, Colonial Times to 1970*, series K 506-508, for U.S. acreage, production, and price]

STATE	ACREAGE HARVESTED (1,000 acres)			YIELD PER ACRE (bu.) <sup>1</sup>			PRODUCTION (mil. bu.) <sup>1</sup>			PRICE <sup>2</sup> (dol. per bu.)			FARM VALUE (mil. dol.)		
	1987	1988	1989, prel.	1987	1988	1989, prel.	1987	1988	1989, prel.	1987	1988	1989, prel.	1987	1988	1989, prel.
U.S. <sup>3</sup> . . . . .	55,945	53,189	52,149	37.7	34.1	32.8	2,108	1,812	2,036	2.57	3.72	3.82	5,498	6,684	7,742
CO. . . . .	2,555	2,352	2,270	38.1	33.8	27.4	97	80	62	2.51	3.69	3.83	245	293	238
ID. . . . .	1,140	1,150	1,370	75.0	65.7	66.7	86	76	91	2.59	4.01	3.89	221	303	355
IL. . . . .	950	1,250	1,780	59.0	54.0	59.0	56	68	105	2.51	3.50	3.90	141	236	410
KS. . . . .	9,900	9,500	8,900	37.0	34.0	24.0	366	323	214	2.43	3.58	3.85	890	1,156	822
MO. . . . .	770	1,550	1,850	46.0	49.0	47.0	35	76	87	2.53	3.45	3.75	90	262	326
MT. . . . .	4,690	3,830	5,235	32.2	15.7	27.7	151	60	145	2.74	3.98	3.79	414	239	550
NE. . . . .	1,950	2,000	2,050	44.0	36.0	27.0	86	72	55	2.45	3.66	3.90	210	264	216
ND. . . . .	9,135	7,230	10,330	29.5	14.3	23.5	269	103	242	2.95	4.02	3.53	794	416	856
OK. . . . .	4,800	4,800	5,700	27.0	36.0	27.0	130	173	154	2.46	3.57	3.85	319	617	593
TX. . . . .	3,600	3,200	3,000	28.0	28.0	20.0	101	90	60	2.36	3.39	3.80	238	304	228
WA. . . . .	2,015	2,060	2,270	56.7	60.5	48.7	114	125	111	2.82	4.19	4.30	322	522	476

<sup>1</sup> 60 pounds per bushel. <sup>2</sup> See footnote 2, table 1158. <sup>3</sup> Includes other States not shown separately.**No. 1161. Cotton—Acreage, Production, and Value, by State: 1987 to 1989**[Cotton production excludes linters. Values shown are for marketing season or crop year and should not be confused with calendar-year income. See *Historical Statistics, Colonial Times to 1970*, series K 553-558 for U.S. totals]

STATE	ACREAGE HARVESTED (1,000)			YIELD PER ACRE (lb.)			PRODUCTION (1,000 bales) <sup>1</sup>			FARM PRICE PER LB. <sup>2</sup> (cents)			FARM VALUE (mil. dol.)		
	1987	1988	1989	1987	1988	1989	1987	1988	1989	1987	1988	1989	1987	1988	1989
U.S. <sup>3</sup> . . . . .	10,030	11,948	9,538	706	619	614	14,760	15,412	12,196	64.3	56.6	67.3	4,555	4,190	3,953
AL. . . . .	333	375	322	572	486	571	397	380	383	64.8	53.3	63.2	123	97	116
AZ. . . . .	380	477	484	1,342	1,113	1,118	1,062	1,106	1,126	73.4	70.4	78.5	374	374	424
AR. . . . .	550	675	595	736	742	687	901	1,044	851	65.5	54.4	62.7	275	273	256
CA. . . . .	1,141	1,337	1,058	1,258	1,015	1,226	2,891	2,827	2,701	69.6	64.8	70.8	1,000	879	918
GA. . . . .	245	315	260	682	564	631	338	370	342	61.8	55.2	64.8	100	98	106
LA. . . . .	600	645	620	781	705	672	977	948	868	63.2	54.5	63.6	296	248	265
MS. . . . .	1,010	1,190	1,021	829	736	731	1,745	1,825	1,556	63.6	53.7	61.3	533	470	458
MO. . . . .	199	242	209	796	607	618	330	306	269	66.0	53.5	64.7	105	79	84
OK. . . . .	385	435	340	431	334	244	346	303	173	58.4	46.8	57.0	97	68	47
TN. . . . .	435	530	460	699	529	497	634	584	476	63.0	53.9	62.6	192	151	143
TX. . . . .	4,431	5,342	3,828	507	475	376	4,686	5,282	2,999	60.1	52.4	60.8	1,351	1,329	875

<sup>1</sup> Bales of 480 lb. net weight. <sup>2</sup> See footnote 2, table 1158. <sup>3</sup> Includes other States not shown separately.Source of tables 1159-1161: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Crop Production*, May issue and annual.

**No. 1162. Tobacco—Acreage, Production, and Value, by State: 1987 to 1989**[See *Historical Statistics, Colonial Times to 1970*, series K 561-563, for U.S. acreage, production, and price]

STATE	ACREAGE HARVESTED (1,000)			YIELD PER ACRE (pounds)			PRODUCTION (mil. lb.)			PRICE <sup>1</sup> (dol. per lb.)			FARM VALUE (mil. dol.)		
	1987	1988	1989	1987	1988	1989	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>Total</b> <sup>2</sup>	<b>586</b>	<b>634</b>	<b>680</b>	<b>2,028</b>	<b>2,160</b>	<b>2,016</b>	<b>1,189</b>	<b>1,370</b>	<b>1,370</b>	<b>1.57</b>	<b>1.65</b>	<b>1.71</b>	<b>1,670</b>	<b>2,254</b>	<b>2,340</b>
FL	6	6	7	2,465	2,680	2,650	14	17	18	1.64	1.65	1.68	23	28	30
GA	32	38	40	2,255	2,260	2,180	72	86	87	1.63	1.63	1.67	118	140	146
KY	148	158	178	2,056	2,247	2,059	305	355	367	1.56	1.64	1.68	476	581	617
MD	12	9	9	1,140	1,330	1,250	13	12	11	1.25	1.61	1.70	17	19	18
NC	225	250	267	2,075	2,211	2,029	467	553	541	1.58	1.61	1.68	737	890	906
OH	7	8	9	1,639	1,854	1,750	12	14	16	1.54	1.60	1.67	19	23	27
PA	10	10	10	1,880	1,913	1,887	19	18	18	0.78	1.14	1.38	15	21	25
SC	42	45	48	2,240	2,225	2,160	94	100	104	1.61	1.61	1.66	151	162	172
TN	49	49	46	1,766	1,920	1,754	87	93	80	1.55	1.71	1.73	135	159	138
VA	39	47	50	1,951	1,973	1,892	77	92	94	1.52	1.59	1.68	117	147	157

<sup>1</sup> See footnote 6, table 1156. <sup>2</sup> Includes other States not shown separately.Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Crop Production*, May issue and annual.**No. 1163. Sugar Beets and Sugarcane, and Sugar—Summary: 1985 to 1989**[Data are for crop year. See also *Historical Statistics, Colonial Times to 1970*, series K 542-546]

ITEM	Unit	SUGAR BEETS			SUGARCANE FOR SUGAR AND SEED			YEAR	SUGAR PRODUCTION (1,000 tons)	
		1985	1988	1989	1985	1988	1989		Raw value <sup>1</sup>	Refined basis <sup>2</sup>
Acreage harvested	1,000 acres	1,103	1,301	1,295	770	845	852	Beet: 1985.	3,000	2,804
Yield per acre	Sh. tons	20.4	19.1	19.4	36.6	35.4	34.5	1988.	3,507	3,278
Production	Mil. tons	22.5	24.8	25.1	28.2	29.9	29.4	1989.	3,486	3,258
Price per ton	Dollars	33.80	41.20	(NA)	<sup>4</sup> 26.70	<sup>4</sup> 29.40	(NA)	Cane: 1985	3,033	2,835
Farm value	Mil. dol	761	1,022	(NA)	<sup>5</sup> 752	<sup>5</sup> 878	(NA)	1988.	3,398	3,176
								1989.	3,133	2,929

NA Not available. <sup>1</sup> Raw value equals 96 degree sugar as defined in Sugar Act of 1948. <sup>2</sup> Calculated on the basis of 100 lbs. of raw sugar required to produce 93.46 lbs. of refined sugar. <sup>3</sup> Season average prices received by farmers. Prices exclude Government payments under Sugar Act. <sup>4</sup> Price per ton for sugar. <sup>5</sup> Price per ton of cane for sugar used in evaluating value of production for seed.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Field Crops* (Statistical Bulletin 793); *Crop Production*, June issue and annual; and *Crop Values*, annual.

**No. 1164. Spices—Imports, by Type of Spice: 1970 to 1989**

[In thousands of pounds. Data shown are annual averages. The United States produces only three major spices - capsicum (red pepper), paprika, and mustard - in any profitable degree. Unground or unprocessed spices enter duty-free. Most spices imported into the U.S. are unground or unprocessed]

SPICE	1970-74	1975-79	1980-84	1985-89	SPICE	1970-74	1975-79	1980-84	1985-89
<b>Total</b> <sup>1</sup>	<b>254,404</b>	<b>298,059</b>	<b>350,971</b>	<b>405,604</b>	Ginger root	6,470	7,842	9,477	11,400
Anise seed	571	988	1,407	2,156	Mace	576	553	644	586
Capsicum	13,743	10,201	13,879	23,812	Mustard seed	70,891	72,702	79,521	93,252
Caraway seed	5,910	6,458	7,511	7,741	Nutmeg	4,167	4,442	4,767	4,213
Cassia	8,915	15,530	20,513	20,971	Paprika	15,282	12,362	10,506	13,059
Celery seed	3,111	4,244	4,661	4,632	Pepper, black and white	54,515	58,976	72,326	79,376
Cinnamon	5,251	3,057	2,870	8,460	Pimento	1,391	1,458	1,650	1,938
Cloves	2,679	2,484	2,084	2,499	Poppy seed	4,721	9,205	7,171	8,619
Coriander seed	3,420	6,796	10,387	7,729	Sage	2,958	2,887	3,675	4,392
Cumin seed	6,207	8,121	8,808	9,167	Sesame seed	37,050	62,326	80,373	77,887
Fennel seed	1,261	1,927	3,400	4,790	Turmeric	3,321	3,202	3,706	4,359
					Vanilla beans	2,194	2,298	1,625	2,421

<sup>1</sup> The United States also imports limited amounts of other spices which are not included in the total.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Foreign Agricultural Trade of the United States*, annual, and unpublished data from U.S. Bureau of the Census, IM 146 microfiche, December 1989.

**No. 1165. Fruits and Planted Nuts—Bearing Areas, by Type: 1980 to 1989**

[In thousands of acres]

TYPE	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Total</b>	<b>3,556</b>	<b>3,537</b>	<b>3,552</b>	<b>3,581</b>	<b>3,569</b>	<b>3,498</b>	<b>3,445</b>	<b>3,458</b>	<b>3,486</b>	<b>3,481</b>
Citrus fruit <sup>1</sup>	1,143	1,130	1,116	1,084	1,003	894	819	826	835	843
Major deciduous fruits	1,608	1,599	1,659	1,694	1,738	1,735	1,743	1,739	1,749	1,748
Miscellaneous noncitrus <sup>3</sup>	242	249	199	205	205	211	214	217	216	210
Planted nuts <sup>4</sup>	563	559	578	599	624	657	689	675	686	680

<sup>1</sup> Grapefruit, lemons, limes, oranges, tangelos, tangerines, and temples. Acreage is for the year of harvest. <sup>2</sup> Commercial apples, apricots, cherries, grapes, nectarines, peaches, pears, plums, and prunes. <sup>3</sup> Avocados, bananas, cranberries (beginning 1983), dates, figs, kiwifruit, olives, papayas, pineapples, and pomegranates. <sup>4</sup> Almonds, filberts, macadamia nuts, walnuts, and pistachios.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Noncitrus Fruits and Nuts*, annual.



### No. 1166. Fruits and Nuts—Utilized Production and Value, 1987 to 1989, and Leading Producing States, 1989

FRUIT OR NUT	UTILIZED PRODUCTION <sup>1</sup>				FARM VALUE (mil. dol.)			Leading States in order of production, 1989
	Unit	1987	1988	1989	1987	1988	1989	
Apples (35 States) <sup>2</sup>	Mil. lb	10,451	9,081	9,920	903	1,150	1,007	WA, NY, MI.
Apricots	1,000 tons	106	94	113	37	34	38	CA, WA, UT.
Avocados	1,000 tons	209	192	134	214	220	212	CA, FL.
Bananas	Mil. lb	11	13	12	3	4	4	HI.
Cherries, sweet	1,000 tons	213	185	192	159	145	137	WA, OR, CA.
Cherries, tart	Mil. lb	286	234	244	22	44	32	MI, NY, UT.
Cranberries	1,000 bbl. <sup>3</sup>	3,391	4,080	3,836	151	186	175	MA, WI, NJ.
Dates	1,000 tons	19	22	22	17	20	22	CA.
Figs (fresh)	1,000 tons	52	56	48	17	19	17	CA.
Grapefruit (4 States)	Mil. boxes <sup>4</sup>	63	69	70	414	479	424	FL, CA, TX.
Grapes (13 States)	1,000 tons	5,254	6,032	5,930	1,359	1,603	1,832	CA, WA, NY.
Kiwifruit	1,000 tons	27	30	37	19	22	15	CA.
Lemons (2 States)	Mil. boxes <sup>5</sup>	29	21	20	182	202	224	CA, AZ.
Limes (FL)	Mil. boxes <sup>6</sup>	1	1	1	19	23	21	FL.
Nectarines	1,000 tons	191	200	200	66	79	79	CA.
Olives	1,000 tons	68	88	123	41	45	63	CA.
Oranges and tangerines (4 States)	Mil. boxes <sup>7</sup>	186	205	215	1,392	1,854	1,890	FL, CA, TX.
Papayas	Mil. lb	67	69	74	11	12	14	HI.
Peaches (32 States)	Mil. lb	2,239	2,449	2,210	309	382	360	CA, SC, GA.
Pears	1,000 tons	936	860	917	185	235	252	WA, CA, OR.
Pineapples	1,000 tons	692	659	580	99	107	95	HI.
Plums and prunes (fresh)	1,000 tons	973	734	1,010	250	230	279	CA, WA, MI.
Pomegranates	1,000 tons	17	18	18	6	6	5	CA.
Tangelos (FL)	Mil. boxes <sup>8</sup>	4	4	4	25	33	31	FL.
Templets (FL)	Mil. boxes <sup>8</sup>	3	4	4	21	28	25	FL.
Almonds (shelled basis)	Mil. lb	519	452	395	648	600	495	CA.
Filberts (in the shell)	1,000 tons	22	17	13	21	14	11	OR, WA.
Macadamia nuts	Mil. lb	43	46	51	36	41	45	HI.
Pecans (in the shell) (11 States)	Mil. lb	262	308	251	139	167	179	GA, TX, NM.
Pistachios	Mil. lb	33	94	39	45	115	61	CA.
Walnuts, English (in the shell)	1,000 tons	247	209	229	243	193	223	CA.

<sup>1</sup> Excludes quantities not harvested or not marketed. <sup>2</sup> Production in commercial orchards with 100 or more bearing age trees. <sup>3</sup> Barrels of 100 pounds. <sup>4</sup> Approximate average, net weight, is 65 lb. in AZ and CA, 85 in FL, and 80 in TX. <sup>5</sup> About 76 lb. net. <sup>6</sup> Approximate net weight is 80 lb. <sup>7</sup> Net contents of box varies. In CA and AZ approximate average for oranges and tangerines is 75 lb.; FL oranges, 90 lb.; TX oranges, 85 lb.; and FL tangerines, 95 lb. <sup>8</sup> Approximate net weight is 90 lb.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Noncitrus Fruits and Nuts*, annual; and *Citrus Fruits*, annual.

### No. 1167. Commercial Vegetable and Other Specified Crops—Area, Production, and Value, 1987 to 1989, and Leading Producing States, 1989

[Relates to commercial production for fresh market and processing combined. Includes market garden areas but excludes minor producing acreage in minor producing States. Excludes production for home use in farm and nonfarm gardens. Value is for season or crop year and should not be confused with calendar-year income]

CROP	AREA <sup>1</sup> (1,000 acres)			PRODUCTION <sup>2</sup> (1,000 short tons)			VALUE <sup>3</sup> (mil. dol.)			Leading States in order of production, 1989
	1987	1988	1989	1987	1988	1989	1987	1988	1989	
Asparagus	99.8	100.9	98.5	117	121	125	136	152	150	CA, WA, MI.
Beans, snap <sup>4</sup>	224.0	217.7	249.0	686	588	870	110	99	151	WI, OR, IL.
Beans, dry edible	1,665.4	1,353.0	1,689.9	1,302	963	1,217	428	575	680	MI, NE, ID.
Broccoli	121.7	114.4	116.8	576	640	676	240	292	276	CA, AZ, TX.
Carrots	99.6	97.6	103.6	1,436	1,370	1,547	248	293	317	CA, WA, TX.
Cauliflower	66.1	62.8	67.7	369	394	392	188	202	203	CA, AZ, OR.
Celery	33.9	34.0	35.3	892	971	1,014	199	231	268	CA, FL, MI.
Corn, sweet	625.2	625.3	641.1	3,650	3,136	3,751	372	359	468	WI, MN, WA.
Cucumbers	109.6	118.9	124.2	636	652	643	114	130	131	MI, NC, TX.
Honeydew melons	28.6	31.2	29.9	241	262	256	69.3	75.3	62.1	CA, TX, AZ.
Lettuce	224.9	239.8	242.6	3,394	3,525	3,759	1,003	1,040	950	CA, AZ, FL.
Peppermint	67.0	80.5	100.8	4.5	5.4	6.7	52.4	85.3	86.4	OR, WA, ID.
Spearmint	24.0	22.6	26.4	2.1	1.7	1.8	25.0	22.4	25.6	WA, WI, IN.
Mushrooms <sup>5</sup>	129.7	130.5	132.3	307	316	334	532	544	595	PA, CA, MI.
Onions	123.7	129.0	132.6	2,256	2,337	2,395	505	414	502	CA, CO, TX.
Peas, green <sup>4</sup>	290.3	283.9	316.5	440	313	505	99	73	120	WI, MN, WA.
Potatoes	1,293.4	1,259.3	1,281.6	1,947	1,782	1,852	1,683	2,144	2,524	ID, WA, WI.
Strawberries	46.1	47.2	45.6	559	590	555	552	544	520	CA, FL, OR.
Sweet potatoes	88.9	85.5	85.7	581	547	575	134	141	185	NC, LA, CA.
Tomatoes	387.0	414.6	462.1	9,228	9,203	11,280	1,290	1,415	1,824	CA, FL, OH.

<sup>1</sup> Area of crops for harvest for fresh market, including any partially harvested or not harvested because of low prices or other factors, plus area harvested for processing. <sup>2</sup> Excludes some quantities not marketed. <sup>3</sup> Fresh market vegetables valued at f.o.b. shipping point. Processing vegetables are equivalent returns at packinghouse door. <sup>4</sup> Processing only. <sup>5</sup> Area is shown in million square feet. All data are for marketing year ending June 30.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Vegetables*, annual summary. Also in *Agricultural Statistics*, annual.

### No. 1168. Red Meats—Slaughtering, Supply, and Use: 1980 to 1990

[Quantities in millions of pounds (carcass weight equivalent), except as noted. Carcass weight equivalent is the weight of the animal minus entrails, head, and hide; includes internal organs, fat, and bone. Covers inspected, noninspected, retail, and farm slaughter. See also *Historical Statistics, Colonial Times to 1970*, series K 583-594]

YEAR AND TYPE OF MEAT	Animals slaughtered (mil. head)	Production	Imports	Supply, total	Consumption	Exports	Ending stocks
<b>All red meats:</b>							
1980	139.7	38,978	2,668	42,488	41,174	430	884
1985	131.3	39,409	3,255	43,505	42,311	461	733
1987	125.1	38,684	3,532	42,895	41,420	721	758
1988	131.0	40,004	3,594	44,356	42,599	887	870
1989	130.5	39,602	3,138	43,610	41,663	1,287	660
1990	130.9	38,787	3,313	42,760	40,805	1,248	707
<b>Beef:</b>							
1980	34.1	21,643	2,064	24,166	23,561	173	432
1985	36.6	23,728	2,071	26,271	25,523	328	420
1987	35.9	23,566	2,269	26,247	25,257	604	366
1988	35.3	23,589	2,380	26,355	25,252	681	422
1989	34.1	23,087	2,179	25,688	24,330	1,023	335
1990	33.8	22,743	2,356	25,434	24,031	1,006	397
<b>Pork:</b>							
1980	97.2	16,617	550	17,529	16,844	252	433
1985	84.9	14,807	1,128	16,282	15,866	128	288
1987	81.4	14,373	1,195	15,821	15,352	109	360
1988	88.1	15,684	1,136	17,160	16,548	195	437
1989	89.0	15,813	896	17,146	16,571	262	313
1990	89.4	15,354	898	16,565	16,030	239	296
<b>Veal:</b>							
1980	2.7	400	21	431	418	4	9
1985	3.5	515	20	549	534	5	11
1987	2.9	429	24	450	449	7	4
1988	2.6	396	27	427	412	10	5
1989	2.2	355	(NA)	360	356	(NA)	4
1990	2.0	327	(NA)	331	325	(NA)	6
<b>Lamb and mutton:</b>							
1980	5.7	318	33	362	351	2	9
1985	6.3	358	36	401	387	1	13
1987	5.2	315	44	372	363	1	8
1988	5.4	335	51	394	387	1	6
1989	5.6	347	63	416	406	2	8
1990	5.7	363	59	430	419	3	8

NA Not available. <sup>1</sup> Total supply equals production plus imports plus ending stocks of previous year. <sup>2</sup> Includes shipments to territories.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Livestock and Meat Statistics*, quarterly. Also published in *Agricultural Outlook*, monthly.

### No. 1169. Livestock Inventory and Production: 1970 to 1990

[Production in live weight; includes animals for slaughter market, younger animals shipped to other States for feeding or breeding purposes, farm slaughter and custom slaughter consumed on farms where produced, minus livestock shipped into States for feeding or breeding with an adjustment for changes in inventory. See also *Historical Statistics, Colonial Times to 1970*, series K 564-569 and 575-582]

TYPE OF LIVESTOCK	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990
<b>ALL CATTLE <sup>1</sup></b>												
Inventory: <sup>2</sup> Number on farms	Mil.	112.4	111.2	115.4	115.0	113.4	109.6	105.4	102.1	99.6	99.2	99.3
Total value	Bil. dol.	20.2	55.6	47.9	46.7	44.8	44.0	41.2	41.6	52.1	60.4	63.6
Value per head	Dol.	179	502	415	406	396	402	391	407	523	607	641
Production: Quantity	Bil. lb.	39.4	40.3	40.7	40.4	40.1	40.1	40.6	40.5	40.6	40.1	(NA)
Beef, price per 100 lb.	Dol.	27.10	62.40	56.70	55.50	57.30	53.70	52.80	61.10	66.60	69.50	(NA)
Calves, price per 100 lb.	Dol.	34.50	76.80	59.80	61.70	59.90	62.10	61.10	78.50	89.20	90.80	(NA)
Value of production	Bil. dol.	10.9	25.5	22.6	22.0	22.1	21.2	21.0	24.8	27.2	27.9	(NA)
<b>HOGS AND PIGS</b>												
Inventory: <sup>3</sup> Number on farms	Mil.	57.0	67.3	58.7	54.5	56.7	54.1	52.3	51.0	54.4	55.5	53.9
Total value	Bil. dol.	2.2	9.8	4.1	4.9	3.3	4.1	3.6	4.7	4.1	3.7	4.3
Value per head	Dol.	39.00	56.00	70.10	89.90	58.80	75.00	69.60	91.90	76.00	66.30	79.10
Production: Quantity	Bil. lb.	21.8	23.4	19.7	21.2	20.2	20.2	19.5	20.4	21.7	21.8	(NA)
Price per 100 lb.	Dol.	22.70	38.00	52.30	46.80	47.10	44.00	49.30	51.20	42.30	42.50	(NA)
Value of production	Bil. dol.	5.0	8.9	10.3	9.9	9.5	8.9	9.6	10.4	9.1	9.3	(NA)
<b>SHEEP AND LAMBS</b>												
Inventory: <sup>2</sup> Number on farms	Mil.	20.4	12.7	13.0	12.1	11.6	10.7	10.1	10.6	10.9	10.9	11.4
Total value	Mil. dol.	513	993	742	629	603	654	684	799	985	894	904
Value per head	Dol.	25.10	78.20	57.10	51.80	52.10	61.10	67.40	75.70	90.00	82.40	79.40
Production: Quantity	Mil. lb.	1,099	746	785	769	700	704	726	733	707	778	(NA)
Sheep, price per 100 lb.	Dol.	7.52	21.30	19.50	15.70	16.40	23.90	25.60	29.50	25.60	24.40	(NA)
Lambs, price per 100 lb.	Dol.	26.40	63.60	63.10	53.90	60.10	67.70	69.00	77.60	89.10	66.10	(NA)
Value of production	Mil. dol.	260	403	356	356	378	434	445	503	420	449	(NA)

NA Not available. <sup>1</sup> Includes milk cows. <sup>2</sup> As of Jan. 1. <sup>3</sup> As of Dec. 1 of preceding year.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Meat Animals—Production, Disposition, and Income*, annual; and annual livestock summaries. Also in *Agricultural Statistics*, annual.

## No. 1170. Cattle and Calves—Number, Production, and Value, by State: 1987 to 1990

[Includes milk cows. See headnote, table 1169]

STATE	NUMBER ON FARMS <sup>1</sup> (1,000)			QUANTITY PRODUCED (mil. lb.)			VALUE OF PRODUCTION (mil. dol.)			COMMERCIAL SLAUGHTER <sup>2</sup> (mil. lb.)		
	1988	1989	1990	1987	1988	1989	1987	1988	1989	1987	1988	1989
U.S. <sup>3</sup>	99,622	99,180	99,337	40,502	40,618	40,051	24,766	27,247	27,893	39,387	39,294	38,467
AL	1,750	1,800	1,780	760	672	635	421	431	433	339	283	297
AZ	960	880	830	581	532	455	356	352	308	421	454	391
AR	1,850	1,750	1,750	658	621	642	384	394	438	52	43	39
CA	4,650	4,700	4,900	1,818	2,111	1,986	1,035	1,314	1,251	1,500	1,408	1,362
CO	2,800	2,850	2,900	1,683	1,818	1,724	1,110	1,296	1,258	2,326	2,541	2,542
FL	1,970	1,975	1,925	425	472	412	297	358	336	203	179	171
GA	1,520	1,500	1,450	394	396	368	229	260	245	224	188	184
ID	1,600	1,650	1,660	748	824	810	451	525	527	808	899	825
IL	2,050	1,950	1,950	802	778	760	508	547	578	1,539	1,463	1,389
IN	1,360	1,290	1,300	431	380	362	247	231	211	187	171	133
IA	4,450	4,600	4,700	2,120	2,058	2,028	1,308	1,389	1,436	2,437	2,213	2,162
KS	5,650	5,650	5,700	3,111	2,948	2,988	2,007	2,104	2,191	6,905	7,012	7,001
KY	2,500	2,500	2,420	729	730	701	433	492	505	112	107	105
LA	1,125	1,075	1,100	310	348	302	188	242	220	31	34	35
MI	1,225	1,225	1,225	462	441	437	247	252	262	492	503	514
MN	2,850	2,820	2,650	1,382	1,291	1,236	807	816	814	1,188	1,309	1,209
MS	1,350	1,390	1,390	374	384	371	213	249	256	196	120	121
MO	4,400	4,500	4,500	1,305	1,236	1,241	838	911	958	412	433	390
MT	2,450	2,450	2,350	884	923	960	557	631	674	24	19	16
NE	5,700	5,500	5,800	3,540	3,618	3,714	2,275	2,541	2,728	6,296	6,659	6,698
NM	1,320	1,350	1,380	602	657	669	363	429	441	134	127	123
ND	1,800	1,600	1,750	749	631	671	497	489	520	90	189	238
OH	1,820	1,760	1,680	579	575	499	346	370	339	551	472	331
OK	5,000	5,150	5,300	2,116	2,054	2,047	1,227	1,310	1,379	301	126	82
OR	1,360	1,390	1,400	488	508	513	289	335	331	62	60	68
PA	1,890	1,900	1,890	554	586	596	323	369	383	1,204	1,166	1,197
SD	3,600	3,480	3,380	1,749	1,773	1,823	1,110	1,236	1,298	677	704	751
TN	2,300	2,300	2,325	744	726	652	408	439	425	242	173	105
TX	13,600	13,600	13,400	5,546	5,736	5,635	3,453	3,866	3,980	6,452	6,267	6,282
UT	800	830	800	302	333	334	193	232	234	502	559	576
VA	1,700	1,670	1,700	682	624	647	387	401	438	93	68	75
WA	1,290	1,300	1,330	533	610	589	326	401	402	980	1,074	986
WI	4,230	4,130	4,170	1,355	1,280	1,244	788	798	801	1,551	1,464	1,436
WY	1,360	1,380	1,220	487	498	486	329	352	348	8	8	7

<sup>1</sup> As of January 1. <sup>2</sup> Cattle only. Includes slaughter in federally inspected and other slaughter plants; excludes animals slaughtered on farms. <sup>3</sup> Includes other States not shown separately.

## No. 1171. Hogs and Pigs—Number, Production, and Value, by State: 1987 to 1989

[See headnote, table 1169]

STATE	NUMBER ON FARMS <sup>1</sup> (1,000)			QUANTITY PRODUCED (mil. lb.)			VALUE OF PRODUCTION (mil. dol.)			COMMERCIAL SLAUGHTER <sup>2</sup> (mil. lb.)		
	1987	1988	1989	1987	1988	1989	1987	1988	1989	1987	1988	1989
U.S. <sup>3</sup>	54,384	55,469	53,852	20,446	21,670	21,850	10,444	9,145	9,255	20,060	21,838	22,027
CA	140	130	140	59	41	37	34	20	18	409	485	483
GA	1,175	1,210	1,200	412	451	440	213	186	187	401	287	354
IL	5,400	5,600	5,700	2,124	2,471	2,324	1,072	1,026	986	1,489	2,063	2,178
IN	4,500	4,300	4,350	1,656	1,671	1,647	831	696	688	988	1,037	919
IA	13,900	14,000	13,500	5,315	5,508	5,544	2,729	2,359	2,379	5,340	6,257	6,421
KS	1,470	1,500	1,450	575	621	638	284	254	261	483	493	508
KY	900	1,090	975	345	357	420	183	157	182	637	710	617
MI	1,350	1,250	1,260	434	455	472	218	188	196	1,070	1,168	1,168
MN	4,500	4,690	4,450	1,621	1,739	1,807	843	752	789	1,419	1,093	1,228
MS	230	210	180	81	83	74	42	35	32	429	448	443
MO	3,000	2,850	2,700	1,130	1,192	1,078	585	510	460	958	990	899
NE	4,050	4,150	4,200	1,482	1,557	1,657	758	655	707	966	1,165	1,243
NC	2,580	2,700	2,570	980	1,065	1,179	499	446	493	637	672	698
OH	2,100	2,210	2,080	795	882	889	400	367	373	708	754	757
PA	900	970	975	297	287	323	153	124	141	358	392	461
SC	400	450	430	132	131	162	67	54	67	121	147	156
SD	1,670	1,810	1,720	668	772	771	349	329	328	955	1,053	998
TN	820	1,000	700	266	340	366	139	145	148	520	547	556
TX	580	560	500	217	237	229	109	97	91	226	249	235
VA	380	400	450	163	163	161	82	67	64	1,108	1,142	1,064
WI	1,320	1,275	1,250	564	534	496	287	221	206	288	107	134

<sup>1</sup> As of December 1. <sup>2</sup> Includes slaughter in federally inspected and other slaughter plants; excludes animals slaughtered on farms. <sup>3</sup> Includes other States not shown separately.

Source of tables 1170 and 1171: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Meat Animals—Production, Disposition and Income, annual and Livestock and Meat Statistics, annual.*

**No. 1172. Milk Production and Commercial Use: 1980 to 1990**

(In billions of pounds milkfat basis)

YEAR	Pro- duc- tion	Farm use	COMMERCIAL		Imports	Commer- cial supply, total	CCC net remov- als <sup>1</sup>	COMMERCIAL		Milk price per 100 lb. <sup>2</sup> (dol.)
			Farm market- ings	Begin- ning stock				End- ing stock	Disap- pear- ance	
1980	128.4	2.3	128.1	5.4	2.1	133.6	8.8	5.7	119.0	13.05
1985	143.0	2.5	140.6	4.9	2.8	148.3	13.2	4.6	130.5	12.75
1986	143.1	2.4	140.7	4.6	2.7	148.1	10.6	4.2	133.3	12.51
1987	142.7	2.3	140.5	4.2	2.5	147.1	6.7	4.6	135.8	12.54
1988	145.2	2.2	142.9	4.6	2.4	149.9	9.4	4.3	136.6	12.24
1989	144.2	2.1	142.2	4.3	2.5	148.9	9.4	4.1	135.4	13.54
1990	148.3	2.1	146.2	4.1	2.7	153.0	9.0	5.1	138.9	13.75

<sup>1</sup> Removals from commercial supply to Commodity Credit Corporation stocks. <sup>2</sup> Wholesale price received by farmers for all milk delivered to plants and dealers.

Source: U.S. Dept. of Agriculture, *Agricultural Outlook*, monthly.

**No. 1173. Milk Production and Manufactured Dairy Products: 1970 to 1989**[See also *Historical Statistics, Colonial Times to 1970*, series K 595-601]

ITEM	Unit	1970	1980	1983	1984	1985	1986	1987	1988	1989
Cows and heifers that have calved, kept for milk, Jan. 1 <sup>1</sup>	Mil. head	13.3	10.8	11.0	11.0	10.8	11.2	10.3	10.3	10.1
Milk produced on farms	Bil. lb.	117	128	140	135	143	143	143	145	144
Production per cow	1,000 lb.	9.8	11.9	12.6	12.5	13.0	13.3	13.8	14.1	14.2
Whole milk sold from farms <sup>2</sup>	Bil. lb.	113	126	137	132	141	141	140	143	142
Sales to plants and dealers	Bil. lb.	110	125	136	131	139	140	139	142	141
Value of milk produced	Bil. dol.	6.8	16.9	19.1	18.3	18.4	18.0	18.0	17.9	19.7
Gross farm income, dairy products	Bil. dol.	6.7	16.7	18.9	18.0	18.1	17.8	17.8	17.7	19.5
Cash receipts from marketing of milk and cream <sup>3</sup>	Bil. dol.	6.5	16.6	18.7	17.9	18.1	17.7	17.7	17.6	19.4
Sales to plants and dealers	Bil. dol.	6.3	16.3	18.5	17.7	17.8	17.5	17.5	17.4	19.1
Number of dairy manufacturing plants	Number	3,749	2,257	2,120	2,059	2,061	1,998	1,933	1,846	1,750
Manufactured dairy products:										
Butter (incl. whey butter)	Mil. lb.	1,137	1,145	1,299	1,103	1,248	1,202	1,104	1,208	1,074
Cheese, total <sup>4</sup>	Mil. lb.	2,201	3,984	4,819	4,674	5,081	5,209	5,344	5,572	5,614
American (excl. full-skim American)	Mil. lb.	1,428	2,376	2,928	2,648	2,855	2,798	2,717	2,757	2,673
Cream and Neufchatel	Mil. lb.	126	229	270	276	294	322	342	376	401
All Italian varieties	Mil. lb.	394	983	1,200	1,319	1,491	1,633	1,800	1,937	2,043
Cottage cheese: Creamed <sup>4</sup>	Mil. lb.	1,038	825	743	736	716	705	675	647	570
Curd, pot, and bakers	Mil. lb.	726	667	618	606	599	600	574	557	526
Condensed bulk milk	Mil. lb.	1,237	952	984	1,159	1,232	1,362	1,383	1,364	1,417
Evaporated and condensed canned milk	Mil. lb.	1,293	725	710	666	656	602	597	612	545
Nonfat dry milk solids <sup>5</sup>	Mil. lb.	1,456	1,168	1,510	1,168	1,398	1,294	1,057	990	875
Dry whey <sup>6</sup>	Mil. lb.	621	690	892	898	987	1,031	1,097	1,137	1,069
Ice cream of all kinds	Mil. gal	762	830	882	894	901	924	928	882	831
Ice milk	Mil. gal	287	293	295	300	301	315	330	355	377

<sup>1</sup> For 1970, cows and heifers 2 years old and over. <sup>2</sup> Comprises sales to plants and dealers, and retail sales by farmers direct to consumers. <sup>3</sup> Includes varieties not shown separately. Beginning 1980, includes fullskim. <sup>4</sup> Includes partially creamed (low fat). <sup>5</sup> Includes dry skim milk for animal feed. <sup>6</sup> Includes animal but excludes modified whey production.

**No. 1174. Milk Cows—Number, Production, and Value, by State: 1987 to 1989**

STATE	NUMBER ON FARMS <sup>1</sup> (1,000)			MILK PRODUCED ON FARMS (mil. lb.)			VALUE OF PRODUCTION <sup>2</sup> (mil. dol.)		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
U.S. <sup>3</sup>	10,327	10,262	10,127	142,709	145,152	144,252	18,014	17,921	19,694
CA	1,061	1,083	1,104	17,928	18,607	19,353	2,090	2,078	2,438
FL	177	182	181	2,209	2,350	2,447	345	357	369
ID	159	168	171	2,375	2,628	2,669	273	294	328
IL	212	206	197	2,775	2,805	2,743	350	342	373
IN	177	172	162	2,287	2,234	2,231	290	275	301
IA	302	307	309	3,910	4,040	4,202	473	477	555
KY	213	212	212	2,338	2,327	2,265	302	293	308
MI	361	350	345	5,248	5,228	5,152	663	650	702
MN	809	783	734	10,420	10,413	10,108	1,236	1,215	1,322
MO	232	230	228	2,940	3,000	2,975	365	366	396
NY	822	794	776	11,439	11,444	11,142	1,458	1,446	1,565
OH	350	351	350	4,840	4,785	4,555	617	577	613
PA	721	717	698	10,183	10,204	9,998	1,356	1,359	1,469
TN	198	197	196	2,207	2,213	2,192	297	291	303
TX	342	375	368	4,277	4,874	5,170	590	646	746
VT	180	177	163	2,410	2,389	2,331	318	306	330
WA	216	221	225	3,763	3,966	4,097	475	496	559
WI	1,795	1,760	1,739	24,800	25,000	24,000	3,014	2,993	3,228

<sup>1</sup> Average number during year. Represents cows and heifers that have calved, kept for milk; excluding heifers not yet fresh.

<sup>2</sup> Valued at average returns per 100 pounds of milk in combined marketings of milk and cream. Includes value of milk fed to calves. <sup>3</sup> Includes other States not shown separately.

Source of tables 1173 and 1174: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Production of Manufactured Dairy Products*, annual; and *Milk Production, Disposition, and Income*, annual.

**No. 1175. Poultry—Number on Farms, Value, Production, and Prices: 1970 to 1989**[For year ending November 30, except as noted. See also *Historical Statistics, Colonial Times to 1970*, series K 609-623]

ITEM	Unit	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Chickens:</b> <sup>1</sup> Number <sup>2</sup>	Million	433	392	385	379	365	374	370	373	380	356	356
Value per head <sup>2</sup>	Dollars	1.21	1.88	1.89	1.85	1.96	2.02	1.90	1.87	1.87	2.04	2.18
Value, total <sup>2</sup>	Mil. dol.	525	737	728	703	717	757	704	698	711	726	770
Number sold <sup>3</sup>	Million	264	241	242	246	232	225	220	218	218	224	199
Price per lb. <sup>3</sup>	Cents	9.1	11.0	11.1	10.3	12.7	15.9	14.8	12.5	11.0	9.2	14.9
Value of sales <sup>3</sup>	Mil. dol.	107	129	135	121	145	170	152	128	112	95	140
<b>Broilers:</b> <sup>4</sup> Number produced	Million	2,987	3,963	4,148	4,149	4,184	4,283	4,470	4,649	5,004	5,238	5,518
Price per lb.	Cents	13.6	27.7	28.4	26.9	28.6	33.7	30.1	34.5	28.7	33.1	36.6
Production value	Mil. dol.	1,475	4,303	4,699	4,502	4,873	6,020	5,668	6,784	6,177	7,435	8,780
<b>Turkeys:</b> Number produced	Million	116	165	171	165	171	171	185	207	240	242	260
Price per lb.	Cents	22.6	41.3	38.2	39.5	38.0	48.9	49.1	47.0	34.8	38.6	41.1
Gross income	Mil. dol.	498	1,272	1,248	1,255	1,269	1,655	1,820	1,951	1,703	1,951	2,239

<sup>1</sup> Excludes commercial broilers. <sup>2</sup> As of Dec. 1. <sup>3</sup> 1970-1984, represents number produced and production value.<sup>4</sup> Young chickens of the heavy breeds and other meat-type birds, to be marketed at 2-5 lbs. live weight and from which no pullets are kept for egg production. Not included in sales of chickens.Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Hatchery Production—Annual*; *Poultry—Production and Value*; *Turkeys*; and *Chickens and Eggs*.**No. 1176. Poultry—Production, by State: 1987 to 1989**[In millions. See *Historical Statistics, Colonial Times to 1970*, series K 614 and 621 for U.S. totals]

STATE	BROILERS			TURKEYS			STATE	BROILERS			TURKEYS		
	1987	1988	1989	1987	1988	1989		1987	1988	1989	1987	1988	1989
U.S. <sup>1</sup>	5,004	5,238	5,518	240	242	260	MS.	343.4	361.0	387.3	(Z)	(Z)	(Z)
AL.	666.5	702.8	750.1	(Z)	(Z)	(Z)	MO.	50.4	54.5	70.1	15.5	16.5	17.3
AR.	878.6	896.8	920.5	18.0	18.0	19.8	NY.	2.1	2.5	3.3	0.4	0.3	0.4
CA.	196.1	212.2	222.4	25.5	26.5	29.0	NC.	477.7	500.1	523.0	48.4	47.9	52.2
DE.	209.8	217.5	226.4	(Z)	(Z)	(Z)	OH.	14.0	14.5	16.0	3.4	3.6	4.1
FL.	117.0	123.2	123.6	(Z)	(Z)	(Z)	OK.	90.6	120.9	135.1	(D)	(D)	(D)
GA.	733.4	772.8	812.0	2.4	2.4	1.9	OR.	18.0	17.3	20.0	1.8	1.8	2.4
IL.	(Z)	(Z)	(Z)	0.7	1.7	3.3	PA.	115.6	126.9	127.7	8.0	7.9	8.4
IN.	(D)	(D)	(D)	13.0	13.2	13.2	SC.	68.1	70.8	76.9	4.0	5.6	5.4
IA.	2.6	2.9	4.0	8.5	7.8	7.6	TN.	89.5	87.0	99.3	(Z)	(Z)	(Z)
KY.	2.9	2.7	2.3	(Z)	(Z)	(Z)	TX.	259.0	266.3	291.6	(D)	(D)	(D)
MD.	264.2	252.4	257.8	(D)	(D)	(D)	VA.	154.0	175.7	182.4	16.2	16.3	16.6
MA.	(Z)	(Z)	(Z)	0.1	0.2	0.2	WA.	28.8	28.2	30.5	(Z)	(Z)	(Z)
MI.	0.7	0.8	0.8	3.0	3.0	4.2	WV.	32.8	35.2	35.3	2.4	2.3	2.9
MN.	31.7	33.1	32.8	40.5	38.5	43.1	WI.	13.2	13.1	11.6	5.5	(D)	(D)

D Withheld to avoid disclosure. Z Less than 500,000 broilers or 50,000 turkeys. <sup>1</sup> Includes other States not shown separately.Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Poultry—Production and Value*; and *Turkeys*, annual.**No. 1177. Egg Production, Supply, and Use: 1980 to 1990**

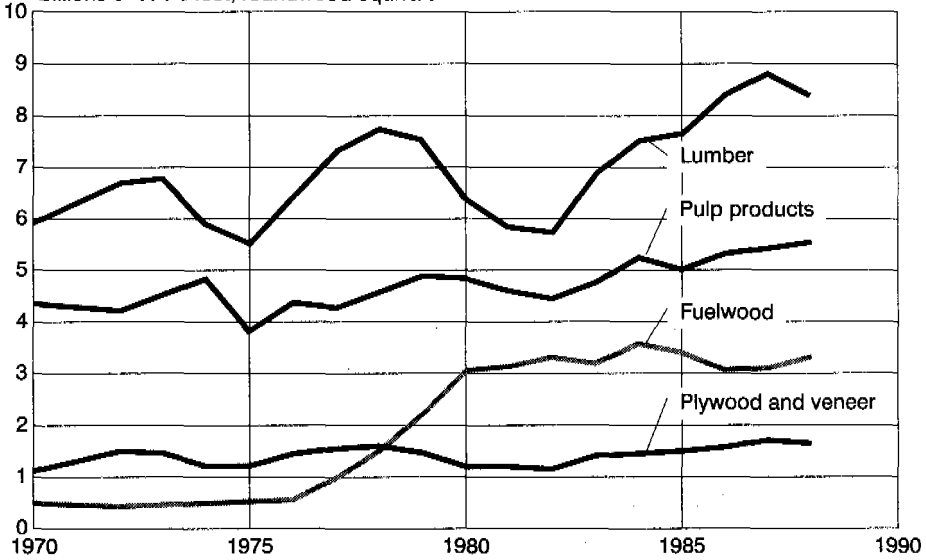
[In millions of dozens, except as indicated]

YEAR	PRODUCTION <sup>1</sup>			SUPPLY			USE			
	Number produced	Price per dozen (cents)	Production value (mil. dol.)	Total <sup>2</sup>	Production	Imports	Total	Consumption <sup>3</sup>	Hatching use	Exports
1980	5,807	56.3	3,268	5,830	5,806	5	5,811	5,169	499	143
1985	5,704	57.2	3,262	5,734	5,710	13	5,723	5,104	548	71
1986	5,759	61.5	3,543	5,791	5,766	14	5,780	5,112	567	102
1987	5,863	54.7	3,209	5,884	5,868	6	5,870	5,160	599	111
1988	5,805	52.8	3,067	5,804	5,784	5	5,789	5,041	606	142
1989	5,592	68.9	3,854	5,638	5,598	25	5,628	4,893	643	92
1990	(NA)	(NA)	(NA)	5,680	5,660	9	5,668	4,892	676	101

NA Not available. <sup>1</sup> For year ending November 30. <sup>2</sup> Includes beginning stocks, not shown separately. <sup>3</sup> Includes shipments to territories.Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Layers and Egg Production—Annual*; and Economic Research Service, *Agricultural Outlook*, monthly.

Figure 24.1  
**Domestic Consumption of Selected  
 Timber Products: 1970 to 1988**

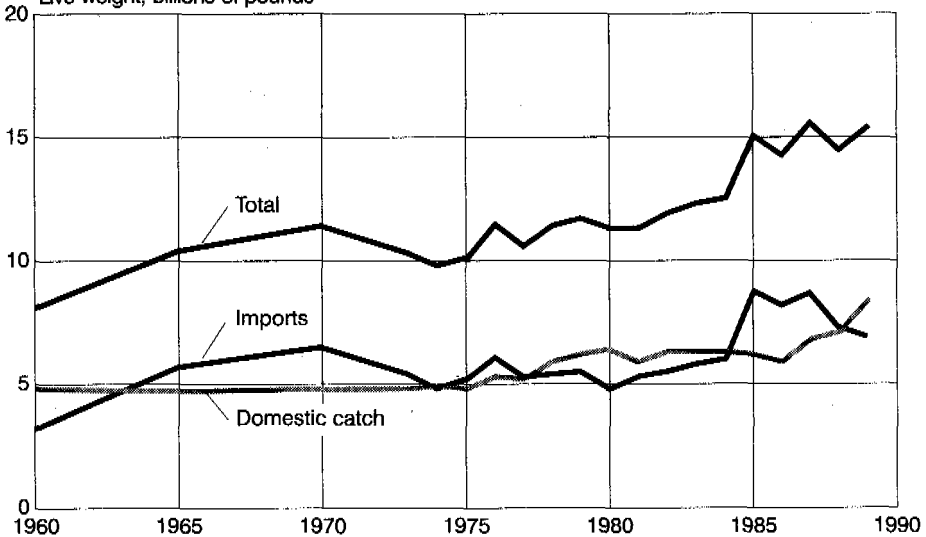
Billions of cubic feet, roundwood equivalent



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1184.

Figure 24.2  
**Fishery Products—  
 Domestic Catch and Imports: 1960 to 1989**

Live weight, billions of pounds



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1197.



## Section 24

# Forests and Fisheries

This section presents data on the area, ownership, and timber resource of commercial timberland; forestry statistics covering the National Forests and Forest Service cooperative programs; product data for lumber, pulpwood, woodpulp, paper and paperboard, and similar data. In addition, data are presented on commercial fishing and the fish processing industry.

The principal sources of data relating to forests and forest products are: *An Analysis of the Timber Situation in the United States, 1989—2040, Part I: The Current Resource and Use Situation*, and *Part II: The Future Resource Situation*, forthcoming; *Forest Statistics of the United States, 1987*; *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1960—88*; and *Land Areas of the National Forest System*, issued annually by the Forest Service of the Department of Agriculture; *Agricultural Statistics* issued by the Department of Agriculture; and reports of the census of manufactures (taken every 5 years) and the annual *Current Industrial Reports*, issued by the Bureau of the Census. Additional information is published in the monthly *Survey of Current Business* of the Bureau of Economic Analysis; and the annual *Wood Pulp and Fiber Statistics* and *The Statistics of Paper, Paperboard, and Wood Pulp* of the American Paper Institute, New York, NY.

The Bureau of the Census also collects data on foreign trade of forest products. The Bureau of Labor Statistics publishes monthly and annual statistics of producer prices for lumber.

The completeness and reliability of statistics on forests and forest products vary considerably. The data for forest land area and stand volumes are much more reliable for areas which have been recently surveyed than for those for which only estimates are available. In general, more data are available for lumber and other manufactured products such as veneer and plywood, etc., than for the primary forest products such as poles and piling and fuelwood.

The principal sources of data relating to fisheries are *Fishery Statistics of the United States*, and *Fisheries of the United States*, both issued annually by the National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA).

The NMFS collects and disseminates data on commercial landings of fish and shellfish, freezings and holdings of fishery products, fish meal and oil production, and foreign trade in fishery products. Quarterly data are published on U.S. output of fish sticks, fish portions, and breaded shrimp. Annual reports include quantity and value of commercial landings of fish and shellfish (by species, region, State, and type of fishing gear), disposition of landings, number of fishermen, and number and kinds of fishing vessels and fishing gear. Reports for the fish-processing industry include annual output of canned, packaged, and industrial products and, for the wholesaling and fish processing establishments, annual and seasonal employment, and number of firms, by product and State.

The Magnuson Fishery Conservation and Management Act of 1976 (Magnuson Act), Public Law 94-265 as amended, provides for the conservation and management of all fishery resources within the U.S. Exclusive Economic Zone (EEZ), except highly migratory species of tuna, and gives the Federal Government exclusive authority over domestic and foreign fisheries within 200 nautical miles of U.S. shores and over certain living marine resources beyond the EEZ. Within the EEZ, the total allowable level of foreign fishing, if any, is that portion of the "optimum yield" not harvested by U.S. vessels. Adjustments in the "optimum yield" level may occur periodically. For details, see *Fisheries of the United States, 1988*. The NMFS collects and disseminates data on catches by foreign fishing vessels in the EEZ.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

## No. 1178. National Forest System Land and Purchases: 1960 to 1989

[Area as of June 30 except, beginning 1980, as of Sept. 30; purchases for years ending June 30, except as noted. Includes Puerto Rico. Prior to Oct. 1976, lands to be purchased under the Weeks Law and related acts were approved by the National Forest Reservation Commission which also set prices on such lands. With the passage of the National Forest Management Act, all functions of the Commission were transferred to the Secretary of Agriculture. Actual purchases are made by U.S. Department of Agriculture. See also *Historical Statistics, Colonial Times to 1970*, series L 10-14]

ITEM	Unit	1960	1970	1975	1980	1984	1985	1986	1987	1988	1989
Gross area <sup>1</sup>	Mil. acres	227	226	226	226	230	230	230	230	230	231
National forest system <sup>2</sup>	Mil. acres	186	187	188	187	191	191	191	191	191	191
Approved for purchase	1,000 acres	8	92	12	42	8	16	23	87	42	99
Average price per acre	Dollars	15	125	275	664	544	431	308	437	561	346
Total price	Mil. dol	0.1	11.5	3.3	27.9	4.2	6.9	7.0	38.0	23.5	34.0
Purchases completed	1,000 acres	8	113	34	27	35	7	33	53	18	46
Average price per acre	Dollars	31	96	267	617	407	653	295	360	153	428
Total price	Mil. dol	0.2	10.9	9.1	17.1	14.0	4.2	9.8	19.0	7.2	20.0
Gross area of purchase units <sup>3</sup>	Mil. acres	56	56	56	56	58	58	58	58	58	58
Purchase completed, net area	Mil. acres	19	20	20	20	20	20	20	20	20	20
Average price per acre	Dollars	4	6	9	12	15	15	16	17	17	17
Total price	Mil. dol	75	125	179	250	298	305	314	333	340	360

<sup>1</sup> Comprises all publicly and privately owned land within authorized boundaries of National forests, Purchase units, National grasslands, Land utilization projects, Research and experimental areas, and Other areas. <sup>2</sup> Federally owned land within the "Gross area." <sup>3</sup> Cumulative total. Under the March 1, 1911 Act of Congress (Weeks Law), as amended, and related acts.

Source: U.S. National Forest Reservation Commission, *Final Report to October 1976*; and U.S. Forest Service, *Land Areas of the National Forest System*, annual; and unpublished data.

## No. 1179. National Forest System—Summary: 1970 to 1989

[For fiscal years ending in year shown; see text, section 9. Includes Alaska and Puerto Rico, except as noted. See *Historical Statistics, Colonial Times to 1970*, series J 33-34, for similar but not comparable grazing data, and L 15-31]

ITEM	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
Timber cut, total value	Mil. dol	308.6	736.6	348.7	655.9	763.9	724.5	789.9	1,019.0	1,243.0	1,313.1
Commercial and cost sales:											
Volume	Mil. bd.	11,527	9,178	6,747	9,244	10,549	10,941	11,786	12,712	12,649	11,913
Value	Mil. dol	307.6	729.8	339.2	648.7	759.6	720.6	786.9	1,016.0	1,239.8	1,308.1
Free use:											
Volume	Mil. bd.	179	2,070	2,343	1,071	570	399	308	209	223	214
Value	Mil. dol	0.3	5.7	7.5	4.5	2.6	2.2	1.4	1.1	1.2	1.2
Misc. forest products:											
Value	Mil. dol	0.7	1.1	2.0	1.7	1.7	1.7	1.6	1.9	2.0	2.8
Livestock grazing:											
Cattle and horses <sup>4</sup>	1,000	1,607	1,521	1,562	1,609	1,521	1,545	1,491	1,410	1,387	1,313
Sheep and goats	1,000	2,105	1,328	1,340	1,242	1,129	1,183	1,168	1,134	1,051	1,067
Roads and trails:											
Road construction <sup>5</sup>	Miles	942	925	1,867	2,016	1,667	1,903	1,252	2,394	1,352	866
Trail construction <sup>6</sup>	Miles	278	2,419	782	959	874	987	1,092	1,046	1,834	1,944
Receipts, total	Mil. dol	299.7	702.9	350.2	495.3	637.3	635.9	831.8	886.4	980.2	1,050.8
Timber use	Mil. dol	283.9	625.4	251.0	398.5	544.3	514.8	745.1	807.9	888.4	909.5
Grazing use	Mil. dol	4.4	15.8	12.4	10.2	9.6	9.0	8.6	8.1	8.7	10.9
Special land use, etc.	Mil. dol	11.4	61.6	86.8	86.6	83.5	112.3	78.0	82.3	83.1	130.3
Payments to local govt. <sup>7</sup>	Mil. dol	72.8	240.1	144.3	203.5	235.3	229.0	270.9	295.4	325.5	362.1
25-percent fund	Mil. dol	71.9	233.6	132.6	192.7	224.9	212.2	262.1	285.3	317.3	353.8
Other <sup>8</sup>	Mil. dol	0.9	6.5	11.7	10.8	10.4	16.8	8.8	10.1	8.2	8.3
Allotments to Forest Service, total <sup>10</sup>	Mil. dol	29.5	73.1	35.2	49.0	62.3	60.0	82.1	88.1	97.0	102.0
Roads and trails	Mil. dol	28.8	65.5	29.4	44.5	58.0	55.5	78.0	83.9	92.4	96.3
Other	Mil. dol	0.8	7.6	5.8	4.5	4.3	4.5	4.1	4.2	4.6	5.7

<sup>1</sup> Includes land exchanges. <sup>2</sup> Includes some free use timber not reducible to board feet. <sup>3</sup> For 1970, data for livestock permitted to graze; 1980-1989 for number actually grazed. Calendar-year data, prior to 1980. Excludes Puerto Rico. <sup>4</sup> Excludes animals under 6 months of age. 1970 includes swine. Includes burros beginning in 1980. <sup>5</sup> Includes reconstruction. <sup>6</sup> Beginning 1980, includes work accomplished by Human Resource Programs and volunteers. <sup>7</sup> Payments made in following year. <sup>8</sup> Includes Tongass Alaska suspense account. <sup>9</sup> Includes Arizona and New Mexico School Fund (through 1982), State of Minnesota, and receipts paid to counties under Bankhead-Jones Farm Tenant Act. <sup>10</sup> For use in following year.

Source: U.S. Forest Service. In *Agricultural Statistics*, annual, and unpublished data.



**No. 1180. National Forest System Land—States and Other Areas: 1989**(In thousands of acres. As of Sept. 30. See also *Historical Statistics, Colonial Times to 1970*, series L 10-11)

STATE	Gross area within unit boundaries <sup>1</sup>	National forest system land <sup>2</sup>	Other lands within unit boundaries	STATE	Gross area within unit boundaries <sup>1</sup>	National forest system land <sup>2</sup>	Other lands within unit boundaries
<b>Total . . . . .</b>	<b>230,839</b>	<b>191,268</b>	<b>39,570</b>	NV . . . . .	6,009	5,743	266
AL . . . . .	1,275	651	623	NH . . . . .	825	720	105
AK . . . . .	24,233	22,437	1,796	NM . . . . .	10,367	9,320	1,046
AZ . . . . .	11,889	11,242	647	NY . . . . .	13	13	-
AR . . . . .	3,490	2,495	995	NC . . . . .	3,165	1,221	1,944
CA . . . . .	24,434	20,588	3,845	ND . . . . .	1,106	1,106	(Z)
CO . . . . .	16,027	14,444	1,582	OH . . . . .	833	191	642
CT . . . . .	(Z)	(Z)	-	OK . . . . .	461	296	165
FL . . . . .	1,246	1,122	124	OR . . . . .	17,496	15,634	1,862
GA . . . . .	1,846	858	988	PA . . . . .	743	512	231
HI . . . . .	(Z)	(Z)	-	SC . . . . .	1,376	605	770
ID . . . . .	21,694	20,457	1,238	SD . . . . .	2,342	1,997	345
IL . . . . .	840	264	576	TN . . . . .	1,212	626	586
IN . . . . .	644	188	456	TX . . . . .	1,994	753	1,241
KS . . . . .	116	108	8	UT . . . . .	9,128	8,041	1,086
KY . . . . .	2,102	667	1,435	VT . . . . .	630	327	302
LA . . . . .	1,023	601	422	VA . . . . .	3,226	1,642	1,584
ME . . . . .	93	53	40	WA . . . . .	10,045	9,147	898
MI . . . . .	4,872	2,801	2,071	WV . . . . .	1,861	1,021	840
MN . . . . .	5,467	2,808	2,659	WI . . . . .	2,023	1,513	510
MS . . . . .	2,310	1,149	1,161	WY . . . . .	9,704	9,255	449
MO . . . . .	3,082	1,474	1,608	PR . . . . .	56	28	28
MT . . . . .	19,101	16,796	2,305	VI . . . . .	(Z)	(Z)	-
NE . . . . .	442	352	90				

- Represents zero. Z Less than 500 acres. <sup>1</sup> Comprises all publicly and privately owned land within authorized boundaries of National forests, Purchase units, National grasslands, Land utilization projects, Research and experimental areas, and Other areas. <sup>2</sup> Federally owned land within the "Gross area within unit boundaries."

Source: U.S. Forest Service, *Land Areas of the National Forest System*, annual.**No. 1181. Forest Land—Total and Timberland Area, Volume of Sawtimber, and Growing Stock: 1952 to 1987**

(As of Jan. 1)

YEAR AND REGION	Total forest land (mil. acres)	TIMBERLAND, OWNERSHIP <sup>1</sup>				SAWTIMBER NET VOLUME <sup>3</sup>		GROWING STOCK, NET VOLUME <sup>4</sup>	
		All owner-ships (mil. acres)	Federally owned or man-aged <sup>2</sup> (mil. acres)	State, county, and municipal (mil. acres)	Private		Total (bil. bd. ft.)	Soft-wood (bil. bd. ft.)	Total (bil. cu. ft.)
					Total (mil. acres)	Per-cent of total			
United States, 1952 . . . . .	664	509	125	27	356	70.0	2,520	2,089	610
North . . . . .	209	158	13	18	127	80.0	231	62	106
South . . . . .	197	205	15	3	187	91.4	411	198	143
West . . . . .	258	146	97	6	42	29.1	1,878	1,829	361
United States, 1962 . . . . .	759	515	125	27	363	70.4	2,558	2,062	659
North . . . . .	178	160	13	18	130	80.9	268	74	131
South . . . . .	220	209	15	3	191	91.4	494	250	168
West . . . . .	360	146	97	6	42	28.9	1,795	1,738	361
United States, 1970 . . . . .	754	504	122	29	354	70.2	2,587	2,035	694
North . . . . .	186	158	13	18	127	80.5	305	87	148
South . . . . .	212	203	15	3	185	90.9	569	302	191
West . . . . .	355	143	94	7	42	29.2	1,713	1,646	355
United States, 1977 . . . . .	737	491	113	31	347	70.6	2,635	2,021	725
North . . . . .	178	157	12	19	126	80.4	350	102	166
South . . . . .	207	198	15	3	180	90.6	648	345	215
West . . . . .	352	136	85	9	41	30.1	1,637	1,574	344
United States, 1987 . . . . .	731	483	103	34	347	71.8	2,829	2,032	756
North . . . . .	170	158	13	19	126	79.6	471	133	190
South . . . . .	203	195	16	4	178	89.9	757	380	238
West . . . . .	358	130	74	11	45	34.9	1,601	1,519	327

<sup>1</sup> Timberland is forest land that is producing or is capable of producing crops of industrial wood and not withdrawn from timber utilization by statute or administrative regulation. Areas qualifying as timberland have the capability of producing in excess of 20 cubic feet per acre per year of industrial wood in natural stands. Currently inaccessible and inoperable areas are included.

<sup>2</sup> Includes Indian lands. <sup>3</sup> Sawtimber is timber suitable for sawing into lumber. Live trees of commercial species containing at least one 12-foot sawlog or two noncontiguous 8-foot logs, and meeting regional specifications for freedom from defect. Softwood trees must be at least 8.0-inches diameter, and hardwood trees must be at least 11.0-inches diameter at 4 1/2 feet above ground. International 1/4-inch rule. <sup>4</sup> Live trees of commercial species meeting specified standards of quality or vigor. Cull trees are excluded. Includes only trees 5.0-inches diameter or larger at 4 1/2 feet above ground.

Source: U.S. Forest Service, *Forest Statistics of the United States, 1987*.

## No. 1182. Timber-Based Industries—Summary of Manufactures: 1982 to 1988

[Data based on 1987 *Standard Industrial Classification Manual*, published by the Office of Management and Budget, see text, section 27. Based on Census of Manufactures except where noted. N.e.c. = Not elsewhere classified]

SIC <sup>1</sup> code	INDUSTRY	1982				1987				1988 <sup>2</sup>			
		All employees		Value of shipments (bil. dol.)	Establishments (number)	All employees		Value of shipments (bil. dol.)	All employees		Value of shipments (bil. dol.)		
		Number (1,000)	Payroll (mil. dol.)			Number (1,000)	Payroll (mil. dol.)		Number (1,000)	Payroll (mil. dol.)			
242	<b>Logging and sawmills . . . . .</b>	<b>238.6</b>	<b>3,513.8</b>	<b>19.4</b>	<b>18,649</b>	<b>268.0</b>	<b>4,805.4</b>	<b>30.1</b>	<b>270.0</b>	<b>5,088.2</b>	<b>31.8</b>		
2411	Logging . . . . .	80.8	1,207.9	8.3	11,936	85.7	1,515.5	10.9	86.9	1,591.4	11.7		
2421	Sawmills and planing mills, general . . . . .	131.9	2,020.2	10.1	5,742	148.2	2,816.5	17.4	152.0	3,007.9	18.3		
2426	Hardwood dimension and flooring mills . . . . .	22.9	252.6	0.9	737	29.9	440.8	1.7	28.9	454.9	1.7		
2429	Special product sawmills, n.e.c. . . . .	3.0	33.1	0.2	234	2.2	32.6	0.1	2.2	34.0	0.1		
243	<b>Millwork and veneer<sup>3</sup> . . . . .</b>	<b>165.3</b>	<b>2,596.1</b>	<b>11.7</b>	<b>7,929</b>	<b>240.0</b>	<b>4,656.9</b>	<b>22.6</b>	<b>241.2</b>	<b>4,921.6</b>	<b>22.9</b>		
2431	Millwork . . . . .	56.8	895.4	4.2	2,782	89.0	1,809.8	9.3	90.7	2,013.7	9.4		
2434	Wood kitchen cabinets . . . . .	43.6	606.9	2.1	3,713	67.0	1,184.8	4.4	67.3	1,214.0	4.5		
2435	Hardwood veneer and plywood . . . . .	17.8	241.0	1.3	310	20.5	339.6	2.1	20.6	347.5	2.1		
2436	Softwood veneer and plywood . . . . .	34.9	667.3	3.2	231	38.9	888.0	4.9	38.4	900.4	4.8		
2439	Structural wood members, n.e.c. . . . .	12.2	185.5	0.8	893	24.6	434.7	1.9	24.2	446.1	2.0		
244	<b>Wood containers . . . . .</b>	<b>35.9</b>	<b>390.9</b>	<b>1.6</b>	<b>2,217</b>	<b>37.0</b>	<b>483.1</b>	<b>2.1</b>	<b>38.4</b>	<b>524.7</b>	<b>2.3</b>		
2441	Nailed and lock corner wood boxes and shooks . . . . .	6.4	76.5	0.3	308	5.9	84.7	0.3	6.1	88.4	0.4		
2448	Wood pallets and skids . . . . .	22.1	230.4	1.0	1,701	25.7	328.0	1.5	26.9	362.7	1.6		
2449	Wood containers, n.e.c. . . . .	7.4	84.0	0.3	208	5.4	70.4	0.2	5.4	73.6	0.3		
245	<b>Wood buildings and mobile homes . . . . .</b>	<b>59.6</b>	<b>880.2</b>	<b>5.0</b>	<b>1,083</b>	<b>65.3</b>	<b>1,207.5</b>	<b>6.6</b>	<b>66.0</b>	<b>1,251.2</b>	<b>6.6</b>		
2451	Mobile homes . . . . .	42.8	622.4	3.6	395	39.9	734.2	4.1	40.8	772.5	4.2		
2452	Prefabricated wood buildings and components . . . . .	16.8	257.8	1.3	688	25.4	473.3	2.5	25.2	478.7	2.4		
249	<b>Miscellaneous wood products . . . . .</b>	(NA)	(NA)	(NA)	4,104	89.9	1,536.4	8.3	88.5	1,563.7	8.5		
2491	Wood preserving . . . . .	10.9	159.4	1.4	540	11.8	207.7	2.2	11.7	214.3	2.3		
2493	Reconstituted wood products . . . . .	(NA)	(NA)	(NA)	240	22.0	504.5	2.9	22.8	532.0	3.0		
2499	Wood products, n.e.c. . . . .	(NA)	(NA)	(NA)	3,324	56.1	824.2	3.3	54.0	817.4	3.2		
261	<b>Pulp mills . . . . .</b>	<b>16.7</b>	<b>467.5</b>	<b>3.1</b>	<b>39</b>	<b>14.2</b>	<b>535.1</b>	<b>4.3</b>	<b>14.4</b>	<b>559.5</b>	<b>5.3</b>		
262	<b>Paper mills . . . . .</b>	<b>129.0</b>	<b>3,430.6</b>	<b>21.0</b>	<b>282</b>	<b>129.1</b>	<b>4,597.0</b>	<b>28.9</b>	<b>130.4</b>	<b>4,773.0</b>	<b>33.5</b>		
263	<b>Paperboard mills . . . . .</b>	<b>55.6</b>	<b>1,501.5</b>	<b>9.5</b>	<b>205</b>	<b>52.3</b>	<b>1,858.8</b>	<b>13.7</b>	<b>53.6</b>	<b>1,964.4</b>	<b>16.1</b>		
265	<b>Paperboard containers and boxes . . . . .</b>	<b>187.4</b>	<b>3,516.7</b>	<b>19.2</b>	<b>2,781</b>	<b>193.6</b>	<b>4,618.1</b>	<b>25.9</b>	<b>194.4</b>	<b>4,837.7</b>	<b>28.2</b>		
2652	Setup paperboard boxes . . . . .	10.6	134.7	0.4	200	8.7	131.0	0.4	8.8	135.2	0.5		
2653	Corrugated and solid fiber boxes . . . . .	94.4	1,861.8	10.6	1,601	105.8	2,610.1	16.1	106.1	2,725.7	17.8		
2655	Fiber cans, tubes, drums, and similar products . . . . .	14.1	252.5	1.5	282	12.6	281.4	1.5	12.4	289.7	1.6		
2656	Sanitary food containers, except folding . . . . .	68.3	1,267.7	6.7	92	15.8	339.8	2.1	16.0	356.5	2.2		
2657	Folding paperboard boxes, including sanitary . . . . .				606	50.7	1,255.8	5.7	51.1	1,330.6	6.1		
267	<b>Converted paper and paperboard products<sup>4</sup> . . . . .</b>	<b>213.3</b>	<b>3,960.6</b>	<b>26.7</b>	<b>2,987</b>	<b>222.1</b>	<b>5,251.0</b>	<b>36.2</b>	<b>226.0</b>	<b>5,490.9</b>	<b>39.5</b>		
2671	Packaging paper and plastics film, coated and laminated . . . . .	43.1	882.4	5.5	120	15.0	406.2	2.4	15.5	434.5	2.6		
2672	Coated and laminated paper, n.e.c. . . . .				412	30.9	838.7	5.9	32.5	908.4	6.8		
2673	Plastics, foil, and coated paper bags . . . . .	50.2	850.9	5.0	483	36.6	783.7	4.6	36.2	790.1	5.1		
2674	Uncoated paper and multiwall bags . . . . .				132	17.1	347.8	2.4	17.2	364.7	2.7		
2675	Die-cut paper and paperboard and cardboard . . . . .	15.9	245.9	1.7	399	15.7	307.8	1.7	16.2	329.4	1.9		
2676	Sanitary paper products . . . . .	36.7	863.3	9.1	133	38.4	1,155.0	11.7	37.5	1,197.7	12.3		
2677	Envelopes . . . . .	24.4	428.7	1.8	298	27.6	612.8	2.6	27.5	628.4	2.8		
2678	Stationery, tablets, and related products . . . . .	12.6	193.1	1.0	189	11.2	205.9	1.2	12.4	215.9	1.3		
2679	Converted paper and paperboard products, n.e.c. . . . .	30.4	496.3	2.6	821	29.6	593.1	3.6	31.0	621.8	4.0		

NA Not available. <sup>1</sup> Standard Industrial Classification code; see text, section 13. <sup>2</sup> Source: U.S. Bureau of the Census, *Annual Survey of Manufactures*, 1988. <sup>3</sup> Includes plywood and structural members. <sup>4</sup> Except containers and boxes.

Source: except as noted, U.S. Bureau of the Census, *Census of Manufactures, 1987 Final Industry Series*, MC87-1-24A-D and MC87-1-26A-C.

### No. 1183. Timber-Based Industries—Employment and Average Hourly Earnings: 1970 to 1989

[Data for production workers. See also *Historical Statistics, Colonial Times to 1970*, series L 212-223]

SIC <sup>1</sup> code	ITEM	EMPLOYEES (1,000)						EARNINGS (dollars)					
		1970	1980	1985	1987	1988	1989	1970	1980	1985	1987	1988	1989
24	Lumber and wood products <sup>2</sup> . . .	564	587	593	629	640	627	2.97	6.57	8.25	8.43	8.59	8.84
241	Logging . . .	(NA)	71	67	71	74	72	(NA)	8.64	10.92	10.68	10.78	11.15
242	Sawmills and planing mills . . .	196	190	172	178	180	176	2.84	6.70	8.52	8.58	8.75	9.02
243	Millwork, plywood, and structural members . . .	(NA)	170	195	221	224	220	(NA)	6.44	8.09	8.35	8.55	8.73
26	Paper and allied products . . .	540	519	509	513	517	522	3.44	7.84	10.83	11.43	11.89	11.96
25	Furniture and fixtures . . .	362	376	394	413	421	420	2.77	5.49	7.17	7.67	7.95	8.26

<sup>1</sup> NA Not available. <sup>2</sup> 1987 Standard Industrial Classification; see text, section 27. <sup>3</sup> Includes other industries, not shown separately.

Source: U.S. Bureau of Labor Statistics, Bulletin 2370 and *Employment and Earnings*, monthly.

### No. 1184. Timber Products—Production, Foreign Trade, and Consumption, by Type of Product: 1970 to 1988

[In millions of cubic feet, roundwood equivalent. See also *Historical Statistics, Colonial Times to 1970*, series L 72-86]

ITEM	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988, prel.
<b>Industrial roundwood:</b>										
Domestic production <sup>1</sup> . . .	11,105	10,575	12,120	10,910	12,065	12,725	12,515	13,845	14,670	14,985
Softwoods . . .	8,635	8,380	9,290	8,450	9,285	9,790	9,690	10,595	11,390	11,430
Hardwoods . . .	2,470	2,195	2,825	2,465	2,780	2,935	2,825	3,250	3,280	3,555
Imports . . .	2,430	2,215	3,250	3,015	3,710	4,165	4,340	4,375	4,575	4,445
Exports . . .	1,540	1,685	2,350	1,995	2,110	2,060	2,070	2,300	2,650	3,200
Consumption <sup>2</sup> . . .	11,995	11,105	13,020	11,930	13,665	14,830	14,785	15,920	16,595	16,230
Softwoods . . .	9,425	8,875	10,345	9,575	10,975	11,965	11,960	12,735	13,430	12,970
Hardwoods . . .	2,565	2,230	2,675	2,355	2,690	2,865	2,825	3,180	3,165	3,260
<b>Lumber:</b>										
Domestic production . . .	5,215	4,890	5,300	4,635	5,370	5,770	5,665	6,545	6,990	6,920
Imports . . .	955	930	1,540	1,460	1,915	2,130	2,345	2,285	2,380	2,225
Exports . . .	195	255	395	320	360	340	305	385	510	720
Consumption . . .	5,970	5,565	6,450	5,780	6,925	7,560	7,700	8,445	8,860	8,425
<b>Plywood and veneer:</b>										
Domestic production . . .	1,020	1,165	1,175	1,135	1,365	1,400	1,420	1,505	1,650	1,630
Imports . . .	170	170	120	115	180	145	185	185	190	165
Exports . . .	15	70	45	50	65	45	40	65	80	100
Consumption . . .	1,170	1,265	1,250	1,200	1,460	1,500	1,550	1,625	1,760	1,695
<b>Pulp products:</b>										
Domestic production . . .	3,835	3,485	4,390	3,980	4,165	4,355	4,165	4,545	4,670	4,885
Imports . . .	1,280	1,105	1,565	1,415	1,605	1,860	1,810	1,895	1,985	2,045
Exports . . .	720	715	1,070	900	965	930	920	1,080	1,195	1,345
Consumption . . .	4,400	3,875	4,885	4,495	4,805	5,290	5,055	5,360	5,465	5,585
<b>Logs:</b>										
Imports . . .	25	15	25	20	30	30	20	15	15	15
Exports . . .	465	455	560	550	565	600	655	620	705	825
Pulpwood chips, exports . . .	145	195	275	175	155	145	145	150	160	215
Other industrial prod. <sup>3</sup> consumption . . .	425	385	415	435	445	455	465	475	495	510
<b>Fuelwood consumption . . .</b>	<b>540</b>	<b>570</b>	<b>3,105</b>	<b>3,355</b>	<b>3,235</b>	<b>3,620</b>	<b>3,450</b>	<b>3,115</b>	<b>3,150</b>	<b>3,360</b>

<sup>1</sup> Includes log exports. <sup>2</sup> Includes log imports. <sup>3</sup> Includes cooperage logs, poles and piling, fence posts, hewn ties, round mine timbers, box bolts, etc.

### No. 1185. Timber Products—Per Capita Consumption: 1970 to 1988

[Based on total population estimated as of July 1. See also *Historical Statistics, Colonial Times to 1970*, series L 87-97]

PRODUCT	Unit	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988, prel.
<b>All products . . .</b>	<b>Cu. ft. . .</b>	<b>61.1</b>	<b>54.0</b>	<b>70.8</b>	<b>65.7</b>	<b>72</b>	<b>77.9</b>	<b>76.2</b>	<b>78.8</b>	<b>81.0</b>	<b>79.5</b>
Industrial roundwood . . .	Cu. ft. . .	58.5	51.4	57.2	51.3	58.2	62.6	61.8	65.9	68.0	65.9
Lumber . . .	Cu. ft. . .	29.1	25.8	28.3	24.9	29.5	31.9	32.2	35.0	36.3	34.2
Plywood and veneer . . .	Cu. ft. . .	5.7	5.9	5.5	5.2	6.2	6.3	6.5	6.7	7.2	6.9
Pulp products . . .	Cu. ft. . .	21.4	17.9	21.4	19.3	20.5	22.3	21.1	22.2	22.4	22.7
Other products . . .	Cu. ft. . .	2.1	1.8	1.8	1.9	1.9	1.9	1.9	2.0	2.0	2.1
Fuelwood . . .	Cu. ft. . .	2.6	2.6	13.6	14.4	13.8	15.3	14.4	12.9	12.9	13.6
Lumber . . .	Bd. ft. . .	193	171	188	161	190	205	207	224	233	221
Plywood and veneer . . .	Bd. ft. . .	34	32	30	28	34	34	35	37	39	37
Pulp products . . .	Cords (128 cu. ft.) . . .	0.3	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3

Source of tables 1184 and 1185: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1960-88*, annual.

**No. 1186. Lumber Consumption, by Species Group and End Use: 1962 to 1986**

[In million board feet, except per capita in board feet. Per capita consumption based on estimated resident population as of July 1]

ITEM	1962	1970	1976	1986	END-USE	1962	1970	1976	1986
<b>Total</b> .....	<b>39,076</b>	<b>39,869</b>	<b>44,853</b>	<b>57,203</b>	New housing .....	14,180	13,350	17,000	19,320
Per capita .....	210	194	205	237	Residential upkeep and improvements .....	4,330	4,980	6,260	9,930
Species group:					New non-residential construction <sup>1</sup> .....	4,200	4,700	4,470	5,310
Softwoods .....	30,773	31,959	36,627	47,084	Manufacturing .....	4,540	4,670	4,865	4,805
Hardwoods .....	8,305	7,910	8,026	10,109	Shipping .....	4,550	5,725	5,915	6,785
					Other <sup>2</sup> .....	7,296	6,444	6,143	11,053

<sup>1</sup> In addition to new construction, includes railroad ties laid as replacements in existing track and lumber used by railroads for railcar repair. <sup>2</sup> Includes upkeep and improvement of nonresidential buildings and structures; made-at-home projects, such as furniture, boats, and picnic tables; made-on-the-job items such as advertising and display structures; and miscellaneous products and uses.

Source: U.S. Forest Service, *An Analysis of the Timber Situation in the United States: 1989-2040*, forthcoming.

**No. 1187. Selected Timber Products—Producer Price Indexes: 1980 to 1989**

[See also *Historical Statistics, Colonial Times to 1970*, series L 206-210]

PRODUCT	Unit	1980	1985	1986	1987	1988	1989
Lumber and wood products, except furniture .....	Dec. 1984 = 100 .....	(NA)	100.3	101.5	105.3	109.2	115.3
Logging camps and logging contractors .....	Dec. 1981 = 100 .....	(NA)	94.8	93.1	100.4	112.8	128.0
Sawmills and planing mills .....	Dec. 1984 = 100 .....	(NA)	99.7	100.7	106.7	110.2	114.6
Millwork, veneer, and plywood .....	Dec. 1984 = 100 .....	(NA)	99.9	101.7	105.3	107.5	114.1
Softwood plywood .....	Dec. 1980 = 100 .....	91.4	90.0	91.5	93.8	93.0	104.8
Wood containers .....	June 1985 = 100 .....	(NA)	(NA)	100.4	101.3	103.8	109.7
Wood buildings and mobile homes .....	Dec. 1984 = 100 .....	(NA)	100.6	102.1	103.6	107.9	112.1
Particleboard .....	Dec. 1982 = 100 .....	91.6	110.0	111.8	120.3	124.6	127.8
Paper and allied products .....	Dec. 1984 = 100 .....	(NA)	98.8	99.5	104.8	113.7	120.8
Pulp mills .....	Dec. 1982 = 100 .....	105.5	100.9	103.0	117.0	141.7	161.3
Paper mill products except building paper .....	June 1981 = 100 .....	93.5	109.5	110.3	115.5	127.4	134.6
Paperboard mills .....	Dec. 1982 = 100 .....	97.3	112.0	113.0	126.2	141.6	149.9
Converted paper and paperboard products <sup>2</sup> .....	Dec. 1984 = 100 .....	(NA)	100.3	101.8	104.9	112.0	120.2
Paperboard containers and boxes .....	Dec. 1984 = 100 .....	(NA)	98.4	97.3	104.3	111.7	117.2
Building paper and building board mills .....	Dec. 1985 = 100 .....	(NA)	(NA)	101.6	104.2	108.8	114.4

NA Not available. <sup>1</sup> Includes structural wood members. <sup>2</sup> Excludes containers and boxes.

Source: U.S. Bureau of Labor Statistics, *Producer Price Indexes*, monthly.

**No. 1188. Selected Species—Stumpage Prices in Current and Constant (1982) Dollars: 1970 to 1989**

[In dollars per 1,000 board feet. Stumpage prices are based on sales of sawtimber from National Forests. See also *Historical Statistics, Colonial Times to 1970*, series L 199-205]

SPECIES	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>CURRENT DOLLARS</b>												
Softwoods:												
Douglas-fir <sup>1</sup> .....	41.90	169.50	432.20	350.20	118.20	161.60	132.90	126.20	160.70	190.20	256.00	389.80
Southern pine <sup>2</sup> .....	44.10	57.00	155.40	172.00	127.20	140.60	139.40	90.70	103.60	135.70	141.90	131.40
Sugar pine <sup>3</sup> .....	38.50	99.20	666.60	225.20	71.90	137.70	84.30	109.70	169.60	287.60	260.40	289.10
Ponderosa pine <sup>4</sup> .....	32.10	71.20	206.10	195.20	66.90	104.00	122.70	101.40	156.60	209.30	182.10	292.00
Western hemlock <sup>5</sup> .....	20.50	68.80	212.70	163.40	44.50	62.20	61.80	50.50	74.70	105.40	162.90	223.30
Hardwoods:												
All eastern hardwoods <sup>6</sup> .....	26.90	33.90	52.40	50.90	56.40	60.10	90.10	65.40	69.90	88.10	151.30	135.80
Oak, white, red, and black <sup>6</sup> .....	26.60	29.70	65.60	63.20	70.80	87.90	145.00	94.50	108.10	146.80	146.30	178.90
Maple, sugar <sup>7</sup> .....	(NA)	42.10	70.10	67.80	71.10	55.10	80.50	70.00	66.20	80.50	108.40	128.60
<b>CONSTANT (1982) DOLLARS<sup>8</sup></b>												
Softwoods:												
Douglas-fir <sup>1</sup> .....	113.60	290.20	481.30	357.30	118.20	159.50	128.20	122.30	160.40	185.00	239.50	347.40
Southern pine <sup>2</sup> .....	119.50	97.60	173.10	175.50	127.20	138.80	134.40	87.80	103.40	132.00	132.70	117.10
Sugar pine <sup>3</sup> .....	104.30	169.80	742.30	229.80	71.90	135.90	81.30	106.30	169.30	279.80	243.60	257.70
Ponderosa pine <sup>4</sup> .....	87.00	121.90	229.50	199.20	66.90	102.70	118.30	98.30	156.30	203.60	170.30	260.20
Western hemlock <sup>5</sup> .....	55.60	117.80	236.90	166.70	44.50	61.40	59.60	49.90	74.60	102.50	152.40	199.00
Hardwoods:												
All eastern hardwoods <sup>6</sup> .....	72.90	58.00	58.40	51.90	56.40	59.30	86.90	63.40	69.80	85.70	141.50	121.00
Oak, white, red, and black <sup>6</sup> .....	72.10	50.90	73.10	64.50	70.80	86.80	139.80	91.60	107.90	142.80	136.90	159.40
Maple, sugar <sup>7</sup> .....	(NA)	72.10	78.10	69.20	71.10	54.40	77.60	67.80	66.10	78.30	101.40	114.60

NA Not available. <sup>1</sup> Western Washington and western Oregon. <sup>2</sup> Southern region. <sup>3</sup> Pacific Southwest region (formerly California region). <sup>4</sup> Includes Jeffrey pine. <sup>5</sup> Pacific Northwest region. <sup>6</sup> Eastern and Southern regions. <sup>7</sup> Eastern region. <sup>8</sup> Deflated by the producer price index, all commodities.

Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1960-89*, annual, forthcoming.

**No. 1189. Lumber Production and Consumption, by Kind of Wood: 1980 to 1989**

[In millions of board feet, except as indicated. Based on sample survey; see source for sampling variability. See also *Historical Statistics, Colonial Times to 1970*, series L 98-112 and L 122-137]

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Total production</b> . . . . .	<b>35,354</b>	<b>31,672</b>	<b>30,010</b>	<b>34,572</b>	<b>37,065</b>	<b>38,445</b>	<b>41,999</b>	<b>44,886</b>	<b>44,730</b>	(NA)
Softwoods <sup>1 2</sup> . . . . .	28,239	25,420	24,949	28,927	30,801	30,479	34,815	37,410	37,003	(NA)
Cedar . . . . .	722	757	470	744	752	759	860	924	883	
Douglas fir . . . . .	6,853	5,868	4,842	6,434	7,809	7,751	9,600	10,422	10,092	
Hemlock . . . . .	1,855	1,501	1,284	1,316	(NA)	(NA)	(NA)	(NA)	(NA)	
Ponderosa pine . . . . .	3,269	2,894	2,350	2,869	3,679	3,773	3,967	4,125	3,943	
Redwood . . . . .	770	730	760	852	999	1,155	984	1,157	1,172	
Southern yellow pine <sup>2</sup> . . . . .	8,217	8,415	8,754	10,181	10,648	10,230	11,443	12,043	12,471	
White fir . . . . .	1,643	1,253	974	1,316	2,017	2,272	2,659	2,899	2,886	
Hardwoods <sup>1 2</sup> . . . . .	7,115	6,252	5,061	5,644	6,264	5,966	7,184	7,476	7,727	
Ash . . . . .	(S)	130	122	224	219	218	257	265	296	
Beech . . . . .	183	95	88	112	111	89	125	116	117	
Cottonwood and aspen . . . . .	303	155	105	197	133	216	247	235	239	
Elm . . . . .	149	77	57	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Maple . . . . .	<sup>3</sup> 225	426	367	524	538	532	587	636	630	
Oak . . . . .	3,356	1,922	1,855	2,183	2,788	2,793	3,410	3,804	3,684	
Sweet gum <sup>4</sup> . . . . .	371	231	193							
Tupelo and black gum . . . . .	(S)	79	64	278	300	293	375	330	354	
Yellow poplar . . . . .	661	409	399	475	569	544	724	805	836	
<b>Domestic consumption</b> . . . . .	<b>44,536</b>	<b>42,555</b>	<b>39,240</b>	<b>48,674</b>	<b>52,861</b>	<b>53,468</b>	<b>57,448</b>	<b>61,754</b>	<b>58,834</b>	<b>58,445</b>
Percent net imports <sup>5</sup> . . . . .	16.6	16.8	18.7	18.5	21.8	24.4	21.2	19.4	16.5	16.6
Softwoods . . . . .	33,812	32,049	31,168	39,611	42,832	44,240	47,492	50,558	48,513	47,576
Per capita (bd. ft.) <sup>6</sup> . . . . .	149	140	134	169	181	185	197	208	197	192
Mill stocks, yearend . . . . .	4,228	4,167	4,270	4,806	4,584	4,765	4,905	4,840	4,999	4,898
Exports . . . . .	1,956	1,878	1,630	1,745	1,599	1,515	1,877	2,423	3,264	3,414
Imports . . . . .	9,540	9,205	9,119	11,977	13,270	14,608	14,238	14,680	13,806	13,668
Hardwoods . . . . .	10,724	10,506	8,072	9,063	9,829	9,956	11,196	10,321	10,869	10,869
Per capita (bd. ft.) <sup>6</sup> . . . . .	47	46	35	39	42	39	41	46	42	44
Mill stocks, yearend . . . . .	1,572	1,727	1,539	1,334	1,561	1,719	1,836	(NA)	(NA)	(NA)
Exports . . . . .	379	406	356	478	467	397	498	775	1,232	853
Imports . . . . .	293	291	211	261	326	364	347	511	390	375

NA Not available. S Figure does not meet publication standards. <sup>1</sup> Includes types not shown separately. <sup>2</sup> Beginning 1986, data not directly comparable to previous years due to inclusion of 200 sawmills in the survey for the first time; see source. <sup>3</sup> Excludes hard maple. <sup>4</sup> Red and sap. <sup>5</sup> Imports minus exports. <sup>6</sup> Based on estimated resident population as of July 1.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA-24T, annual.

**No. 1190. Lumber Production, by Geographic Area: 1970 to 1988**

[In billion board feet. Data based in part on a sample of sawmills and are subject to sampling variability; see source. See *Historical Statistics, Colonial Times to 1970*, series L 113-121, for data by regions]

SECTION AND DIVISION	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
<b>United States</b> . . . . .	<b>34.7</b>	<b>32.6</b>	<b><sup>1</sup>40.5</b>	<b><sup>1</sup>40.6</b>	<b><sup>1</sup>35.4</b>	<b><sup>1</sup>31.7</b>	<b>30.0</b>	<b>34.6</b>	<b>37.1</b>	<b>36.4</b>	<b>42.0</b>	<b>44.9</b>	<b>44.7</b>
North <sup>2 3</sup> . . . . .	4.4	4.1	(NA)	(NA)	(NA)	(NA)	3.8	4.3	4.5	4.2	4.9	5.3	5.2
Hardwood . . . . .	3.4	3.0	(NA)	(NA)	(NA)	(NA)	2.7	3.0	3.3	3.0	3.6	3.8	3.9
Softwood . . . . .	1.0	1.1	(NA)	(NA)	(NA)	(NA)	1.1	1.3	1.2	1.2	1.4	1.5	1.4
South <sup>2</sup> . . . . .	10.8	9.7	(NA)	(NA)	(NA)	(NA)	10.8	12.7	13.4	13.0	15.1	15.7	16.3
Hardwood . . . . .	3.6	2.7	(NA)	(NA)	(NA)	(NA)	2.0	2.4	2.8	2.7	3.4	3.4	3.6
Softwood . . . . .	7.2	7.0	(NA)	(NA)	(NA)	(NA)	8.8	10.3	10.7	10.2	11.7	12.3	12.7
West <sup>2</sup> . . . . .	19.4	18.8	21.7	21.1	17.2	(NA)	15.4	17.6	19.1	19.3	22.0	23.9	23.2
Hardwood . . . . .	0.1	0.1	0.2	0.2	0.3	(NA)	0.2	0.2	0.2	0.2	0.2	0.3	0.3
Softwood . . . . .	19.3	18.6	21.4	20.9	16.9	(NA)	15.1	17.4	19.0	19.1	21.7	23.6	22.9
New England . . . . .	0.7	0.8	1.0	1.0	1.1	0.7	1.0	1.2	1.1	1.1	1.2	1.2	1.2
Middle Atlantic . . . . .	0.8	0.7	0.9	0.9	0.9	0.5	0.8	0.8	0.8	0.7	0.9	0.9	0.9
East North Central . . . . .	1.2	1.1	1.4	1.4	1.3	1.0	1.1	1.2	1.3	1.3	1.5	1.6	1.5
West North Central . . . . .	0.6	0.5	0.7	0.6	0.6	0.2	0.3	0.4	0.4	0.6	0.7	0.6	0.6
South Atlantic . . . . .	5.2	4.7	5.4	5.8	5.2	4.4	5.4	6.5	6.7	6.4	7.4	7.7	8.1
East South Central . . . . .	3.4	3.0	3.7	3.6	3.2	2.8	3.2	3.8	4.2	4.1	5.0	5.3	5.3
West South Central . . . . .	3.2	3.0	3.6	3.2	2.9	2.3	2.8	3.1	3.3	3.1	3.4	3.7	3.9
Mountain . . . . .	4.2	3.9	4.7	4.5	3.8	3.3	3.3	3.8	4.4	4.3	4.8	4.8	4.8
Pacific . . . . .	15.3	14.8	17.0	16.6	13.4	11.2	12.2	13.6	14.8	14.8	17.0	23.9	23.2

NA Not available. <sup>1</sup> Includes amounts not specified by division. <sup>2</sup> Source: U.S. Forest Service, U.S. *Timber Production, Trade, Consumption, and Price Statistics, 1960-88*, annual. Sections are as defined by the Forest Service. <sup>3</sup> Includes Kentucky.

Source: Except as noted, U.S. Bureau of the Census, *Current Industrial Reports*, series MA-24T, annual.

## No. 1191. Wood Products—Production: 1970 to 1989

ITEM	Unit	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989, prel.
Hardwood flooring	Mil. bd. ft.	307	99	78	75	98	110	122	145	174	193	206
Softwood plywood	Bil. sq. ft., 3/8"	14.1	15.1	15.5	15.1	18.3	18.9	19.3	20.4	21.1	22.9	22.0
Insulation boards	1,000 short tons	1,219	1,249	1,051	593	713	785	735	732	605	529	517
Hardboard	Mil. sq. ft., 1/8"	4,340	5,681	6,140	5,587	7,303	6,837	6,300	5,822	5,458	5,118	5,196
Particleboard	Mil. sq. ft., 3/4"	1,731	2,503	2,950	2,393	3,009	3,196	3,331	3,603	3,708	3,829	3,858

<sup>1</sup> Beginning 1982, data are for shipments.

Source: U.S. Dept. of Commerce, International Trade Administration, *Forest Products Review*, monthly (discontinued April 1983); and unpublished data. Based on reports of U.S. Bureau of the Census, National Oak Flooring Manufacturers Association and National Particleboard Association.

## No. 1192. Paper and Paperboard—Production and Consumption: 1970 to 1989

(In millions of short tons. See also *Historical Statistics, Colonial Times to 1970*, series L 172, L 174, and L 178-191)

ITEM	PRODUCTION						CONSUMPTION <sup>1</sup>					
	1970	1980	1985	1987	1988	1989	1970	1980	1985	1987	1988	1989
Total paper and paperboard	51.7	63.5	68.7	76.0	78.1	78.2	56.0	67.2	76.1	83.5	85.5	85.0
Paper: Newsprint	3.5	4.7	5.4	5.8	6.0	6.1	9.8	11.4	12.8	13.7	13.6	13.1
Coated printing, converting	3.2	4.6	5.9	6.9	7.4	7.2	3.2	4.6	6.3	7.4	8.1	7.8
Uncoated free sheet	5.1	8.0	9.7	11	11.3	11.0	5.1	8.0	10.0	11.3	11.8	11.5
Other printing, writing, etc.	2.6	2.9	2.9	3	3.3	3.3	2.8	3.5	4.3	4.7	5.2	5.1
Packaging and industrial converting	5.3	5.5	5.2	5.1	5.0	4.9	5.1	5.2	5.1	5.1	5.0	5.0
Tissue and other machine cropped	3.7	4.4	4.9	5.3	5.5	5.6	3.7	4.4	5.0	5.3	5.5	5.7
Paperboard: Unbleached kraft	11.5	16.3	16.4	18.9	19.1	19.5	9.9	13.0	14.6	16.7	16.9	17.2
Bleached kraft	3.3	3.8	3.9	4.4	4.5	4.5	3.2	3.3	3.4	3.8	3.9	3.8
Chemical	3.5	4.7	5.1	5.5	5.7	5.7	3.4	4.4	5.0	5.5	5.7	5.7
Recycled finish	7.0	7.1	7.6	8.6	8.8	8.8	7.0	7.0	7.6	8.7	8.8	9.0
Construction paper and board <sup>2</sup>	3.0	2.6	<sup>3</sup> 1.7	<sup>3</sup> 1.6	<sup>3</sup> 1.6	<sup>3</sup> 1.6	3.0	3.0	<sup>3</sup> 2.0	<sup>3</sup> 1.8	<sup>3</sup> 1.8	<sup>3</sup> 1.7

<sup>1</sup> Total consumption of paper and paperboard includes net imports of paper and paperboard converted products; not available by grade. <sup>2</sup> Source: 1970-80, U.S. Bureau of the Census, *Current Industrial Reports*. Includes wet machine board, approximately 100,000-160,000 tons per year. <sup>3</sup> Estimated.

Source: Except as noted, American Paper Institute, Inc., New York, NY, *Statistics of Paper, Paperboard, and Woodpulp*, annual.

## No. 1193. Newsprint—Production, Stocks, Consumption, Imports, and Price Index: 1970 to 1989

(In thousands of metric tons, except price index and imports (imports shown in short tons). See also *Historical Statistics, Colonial Times to 1970*, series L 192-198)

COUNTRY AND ITEM	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989
Canada: Production	7,808	6,966	8,625	8,109	8,486	9,013	8,988	9,289	9,689	9,840	9,640
Shipments from mills	7,795	7,010	8,622	8,054	8,439	9,018	8,988	9,302	9,757	9,740	9,607
Stocks at mills, end of year	214	86	165	256	303	298	290	277	189	288	321
United States: Estimated consumption <sup>1</sup>	8,805	8,395	10,088	10,107	10,589	11,431	11,587	11,937	12,322	12,244	12,241
Production	3,142	3,348	4,239	4,574	4,688	5,025	4,924	5,107	5,300	5,427	5,523
Shipments from mills	3,136	3,347	4,234	4,526	4,674	5,065	4,927	5,115	5,310	5,415	5,515
Stocks, end of year: At mills	30	19	21	88	99	60	57	49	36	48	56
At and in transit to publishers	680	666	732	854	790	874	910	849	900	933	749
Imports <sup>2</sup>	6,635	5,847	7,280	6,531	6,919	7,899	8,472	8,589	8,976	8,592	8,765
Producer price index (1982=100)	34.1	58.3	<sup>3</sup> 88.5	100.0	95.9	102.3	105.3	103.3	112.3	127.6	122.5

<sup>1</sup> By all users. Based on American Paper Institute data. <sup>2</sup> Source: Reports of U.S. Bureau of the Census. Includes Puerto Rico and beginning 1982, Virgin Islands. <sup>3</sup> Average for 11 months.

Source: Except as noted, U.S. Bureau of Economic Analysis, *Survey of Current Business*, monthly. Data from American Paper Institute, Inc., New York, NY, and Canadian Pulp & Paper Association.

## No. 1194. Wastepaper Utilization and Recovery Rates: 1970 to 1989

(In millions of short tons, except percent. Recovery rate is ratio of total wastepaper recovered to new supply. Wastepaper utilization is the ratio of wastepaper consumption at paper and board mills to paper and board production. See *Historical Statistics, Colonial Times to 1970*, series L 175, for U.S. wastepaper consumption)

ITEM	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989
Paper and board, production <sup>1</sup>	51.7	51.0	63.5	61.0	66.8	70.3	68.7	72.5	76.0	78.1	78.2
Wastepaper consumption	11.8	11.7	14.9	14.4	15.6	16.7	16.4	17.9	18.7	19.7	20.7
Wastepaper utilization rate (percent)	22.8	23.0	23.5	23.7	23.4	23.8	23.8	24.7	24.6	25.2	26.4
Other wastepaper uses	0.42	0.54	0.47	0.49	0.46	0.46	0.53	0.59	0.66	0.70	0.71
Wastepaper exports	0.41	0.09	2.64	2.23	2.71	3.46	3.56	4.09	4.81	5.95	6.31
Total wastepaper recovered	12.6	13.1	17.9	17.1	18.7	20.5	20.4	22.5	24.0	26.2	27.5
Paper and board, new supply <sup>3</sup>	56.0	54.1	67.2	64.7	71.2	77.0	76.1	79.7	83.5	85.5	85.0
Recovery rate (percent)	22.4	24.2	26.7	26.4	26.3	26.7	26.8	28.2	28.8	30.6	32.4

<sup>1</sup> Excludes hard pressed board; includes construction paper and board, and wet machine board. <sup>2</sup> Estimated. <sup>3</sup> Excludes production of hard pressed board.

Source: American Paper Institute, Inc., New York, NY, *Statistics of Paper, Paperboard, and Woodpulp*, annual, and unpublished data.

## No. 1195. Selected Wood Products—Production and Consumption: 1970 to 1988

(See also *Historical Statistics of the United States, Colonial Times to 1970*, series L 151-170)

ITEM	Unit	1970	1975	1980	1983	1984	1985	1986	1987	1988
<b>PULPWOOD</b>										
Receipts, total	Mil. cords <sup>1</sup>	68.9	65.4	81.0	83.4	88.0	85.4	90.6	93.9	95.6
Softwood	Mil. cords	52.4	49.3	60.2	59.8	62.9	60.2	63.3	65.3	66.3
Hardwood	Mil. cords	16.5	16.2	20.8	23.6	25.2	25.1	27.3	28.6	29.3
Consumption, total	Mil. cords <sup>1</sup>	67.6	65.4	79.7	83.5	87.0	84.8	91.1	92.4	95.5
Softwood	Mil. cords	51.3	48.9	58.8	59.9	62.0	59.7	63.1	64.2	66.2
Hardwood	Mil. cords	16.3	16.5	20.9	23.6	24.9	25.1	28.1	28.2	29.3
Inventories <sup>2</sup>	Mil. cords <sup>1</sup>	6.6	6.6	6.7	5.2	5.2	5.1	4.7	5.6	5.2
<b>WOODPULP</b>										
Production	Mil. short tons	43.9	43.1	53.0	54.1	57.8	57.7	60.6	62.4	63.8
Consumption, <sup>3</sup> total	Mil. short tons	43.2	42.4	52.4	54.0	57.5	56.6	60.0	61.2	62.6
Own pulp	Mil. short tons	38.9	38.5	46.6	47.7	50.3	49.7	52.6	53.8	54.9
Purchased pulp	Mil. short tons	4.3	3.9	5.9	6.3	7.2	7.0	7.5	7.4	7.7
<b>PLYWOOD</b>										
Softwood:										
Production	Mil. sq. ft. <sup>4</sup>	14,149	15,706	15,483	18,281	18,865	19,341	20,363	22,312	22,089
Consumption, total	Mil. sq. ft. <sup>4</sup>	(NA)	(NA)	15,145	17,737	18,526	19,122	19,880	21,503	21,006
Value	Mil. dol.	949	(NA)	2,582	2,877	2,995	3,080	3,237	3,483	3,299
Hardwood:										
Production	Mil. sq. ft. <sup>5</sup>	1,904	1,280	1,311	1,248	1,185	1,016	1,088	1,256	1,247
Consumption, total	Mil. sq. ft. <sup>5</sup>	5,772	4,970	3,416	4,324	3,831	4,311	4,884	4,918	4,206
Value	Mil. dol.	516	586	977	1,131	1,199	1,192	1,320	1,471	1,401

NA Not available. <sup>1</sup> Standard cords, 128 cubic feet roughwood bases. <sup>2</sup> As of Dec. 31. <sup>3</sup> In the manufacture of paper and board. <sup>4</sup> 3/8" basis. <sup>5</sup> Surface measure.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA26-A, MA24-H and MA24-F.

## No. 1196. Selected Timber Products—Imports and Exports: 1970 to 1989

ITEM	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989, prel.
<b>IMPORTS <sup>1</sup></b>											
Lumber, total <sup>2</sup>	Mil. bd. ft.	6,114	9,866	9,360	12,254	13,632	14,996	14,619	15,234	14,226	15,277
From Canada	Percent	96.0	97.5	98.2	98.3	97.9	97.6	97.5	96.9	97.5	91.3
Softwoods	Mil. bd. ft.	5,778	9,573	9,150	11,993	13,304	14,632	14,272	14,723	13,841	14,928
Value	Mil. dol	434	1,826	2,569	2,681	2,898	2,969	3,060	2,939	2,875	2,875
Hardwoods	Mil. bd. ft.	337	293	211	260	328	364	347	511	386	349
Value	Mil. dol	62	152	104	134	173	180	168	273	238	152
Logs, total	Mil. bd. ft. <sup>3</sup>	144	128	117	165	147	99	78	83	68	42
From Canada	Percent	79.6	97.4	98.6	97.9	97.4	81.8	77.9	91.6	91.9	61.5
Softwoods	Mil. bd. ft. <sup>3</sup>	107	114	99	142	117	71	52	69	56	24
Value	Mil. dol	9	17	23	24	15	17	7	19	15	12
Hardwoods	Mil. bd. ft. <sup>3</sup>	38	13	18	23	30	28	26	14	12	18
Value	Mil. dol	5	3	3	3	5	4	4	3	3	17
Paper and board <sup>4</sup>	1,000 tons	7,115	8,780	8,024	8,986	11,075	11,522	11,936	12,837	13,110	13,100
Value	Mil. dol	1,039	3,418	3,682	4,019	5,324	5,698	6,036	6,928	8,002	8,330
Woodpulp	1,000 tons	3,518	4,051	3,656	4,093	4,490	4,466	4,594	4,848	4,938	5,105
Value	Mil. dol	483	1,684	1,493	1,472	1,845	1,521	1,606	2,069	2,608	3,037
Plywood	Mil. sq. ft.	4,171	2,477	2,270	3,393	3,056	3,609	3,941	4,094	3,358	(NA)
Value	Mil. dol	208	409	331	451	438	463	519	638	577	(NA)
<b>EXPORTS</b>											
Lumber, total <sup>2</sup>	Mil. bd. ft.	1,243	2,494	2,021	2,270	2,150	1,945	2,427	3,217	4,527	4,236
To: Canada	Percent	21.7	25.3	20.7	29.3	25.8	23.7	22.0	20.9	17.6	15.5
Japan	Percent	30.8	26.0	31.1	27.8	28.0	32.1	36.4	36.8	34.5	38.2
Europe	Percent	24.1	23.8	20.3	20.2	16.0	15.1	16.6	16.9	20.5	16.7
Softwoods	Mil. bd. ft.	1,115	2,007	1,635	1,756	1,624	1,518	1,878	2,424	3,266	3,379
Value	Mil. dol	163	789	582	609	541	497	644	856	1,143	1,404
Hardwoods	Mil. bd. ft.	128	487	386	514	527	427	548	793	1,261	856
Value	Mil. dol	31	272	229	305	300	263	350	493	683	653
Logs, total	Mil. bd. ft. <sup>3</sup>	2,741	3,261	3,208	3,307	3,495	3,843	3,627	4,110	4,798	4,773
To: Canada	Percent	10.6	9.7	9.4	10.5	12.1	11.6	12.2	10.3	7.9	5.8
Japan	Percent	86.3	78.0	61.7	55.4	50.4	49.4	57.3	58.3	50.3	63.2
China: Mainland	Percent	(NA)	2.7	17.1	21.9	24.8	27.8	17.0	14.1	23.4	10.1
Softwoods	Mil. bd. ft.	2,672	3,109	3,115	3,196	3,369	3,732	3,488	3,960	4,594	4,557
Value	Mil. dol	320	1,452	1,174	1,068	1,079	1,169	1,129	1,526	2,090	2,177
Hardwoods	Mil. bd. ft. <sup>3</sup>	69	152	93	112	126	111	139	149	204	216
Value	Mil. dol	36	129	84	98	101	91	97	118	160	230
Paper and board <sup>4</sup>	1,000 tons	2,817	5,214	4,246	4,569	4,387	4,071	4,687	5,304	5,691	6,300
Value	Mil. dol	602	2,773	2,589	2,481	2,552	2,266	2,540	3,104	3,753	4,261
Woodpulp	1,000 tons	3,095	3,806	3,395	3,644	3,594	3,796	4,459	4,869	5,528	6,231
Value	Mil. dol	464	1,652	1,415	1,362	1,502	1,354	1,663	2,251	2,915	3,513
Plywood	Mil. sq. ft.	183	420	493	615	407	365	656	855	1,108	(NA)
Value	Mil. dol	16	108	117	143	94	86	145	194	247	(NA)

NA Not available. <sup>1</sup> Customs value of imports; see text, section 29. <sup>2</sup> Includes railroad ties. <sup>3</sup> Log scale. <sup>4</sup> Includes paper and board products. Excludes hardwood.

Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics: 1980-89*, forthcoming.

**No. 1197. Fishery Products—Domestic Catch and Imports, Summary: 1970 to 1989**

[Live weight, in millions of pounds, except percent. 1979-1989 preliminary. For data on commercial catch for selected countries, see table 1478, section 31. See *Historical Statistics, Colonial Times to 1970*, series L 224-226, for domestic catch]

ITEM	1970	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Total</b> .....	<b>11,474</b>	<b>11,831</b>	<b>11,357</b>	<b>11,353</b>	<b>12,011</b>	<b>12,352</b>	<b>12,552</b>	<b>15,150</b>	<b>14,368</b>	<b>15,744</b>	<b>14,628</b>	<b>15,485</b>
For human food .....	6,213	8,251	8,006	8,267	7,968	8,413	8,498	9,337	9,620	10,561	10,505	12,268
Finfish .....	(NA)	6,324	6,139	6,316	6,090	6,358	6,303	6,991	7,087	7,919	7,786	9,735
Shellfish .....	(NA)	1,927	1,867	1,951	1,878	2,055	2,195	2,346	2,533	2,642	2,719	2,533
For industrial use .....	5,261	3,580	3,351	3,086	4,043	3,939	4,054	5,813	4,748	5,183	4,123	3,217
<b>Domestic catch</b> .....	<b>4,917</b>	<b>6,267</b>	<b>6,482</b>	<b>5,977</b>	<b>6,367</b>	<b>6,439</b>	<b>6,438</b>	<b>6,258</b>	<b>6,031</b>	<b>6,896</b>	<b>7,192</b>	<b>8,463</b>
Percent of total .....	42.8	53.0	57.1	52.7	53.0	52.1	51.3	41.3	42.0	43.8	49.2	54.7
For human food .....	2,537	3,318	3,654	3,547	3,285	3,238	3,320	3,294	3,393	3,946	4,588	6,204
Finfish .....	(NA)	2,204	2,516	2,414	2,324	2,351	2,348	2,273	2,240	2,769	3,306	4,897
Shellfish .....	(NA)	1,114	1,138	1,133	961	887	972	1,021	1,153	1,177	1,282	1,307
For industrial use .....	2,380	2,949	2,828	2,430	3,082	3,201	3,118	2,964	2,638	2,950	2,604	2,259
<b>Imports</b> <sup>2</sup> .....	<b>6,557</b>	<b>5,564</b>	<b>4,875</b>	<b>5,376</b>	<b>5,644</b>	<b>5,913</b>	<b>6,114</b>	<b>8,892</b>	<b>8,337</b>	<b>8,848</b>	<b>7,436</b>	<b>7,022</b>
Percent of total .....	57.2	47.0	42.9	47.3	47.0	47.9	48.7	58.7	58.0	56.2	50.8	45.3
For human food .....	3,676	4,933	4,352	4,720	4,683	5,175	5,178	6,043	6,227	6,615	5,917	6,064
Finfish .....	(NA)	4,120	3,623	3,902	3,766	4,007	3,955	4,718	4,847	5,150	4,480	4,838
Shellfish .....	(NA)	813	729	818	917	1,168	1,223	1,325	1,380	1,465	1,437	1,226
For industrial use <sup>3</sup> .....	2,881	631	523	656	961	738	936	2,849	2,110	2,233	1,519	958

NA Not available. <sup>1</sup> For univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.), the weight of meats, excluding the shell, is reported. <sup>2</sup> Excludes imports of edible fishery products consumed in Puerto Rico; includes landings of tuna caught by foreign vessels in American Samoa. <sup>3</sup> Fish meal and sea herring.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual; and *Fisheries of the United States*, annual.

**No. 1198. Fisheries—Employment, Fishing Craft, and Establishments: 1970 to 1988**

[In thousands. As of Dec. 31, 1978-1988 preliminary. Data for employment and establishments exclude Alaska. See also *Historical Statistics, Colonial Times to 1970*, series L 254-261]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
<b>Persons employed in U.S.</b> .....	<b>227</b>	<b>260</b>	<b>257</b>	<b>267</b>	<b>296</b>	<b>303</b>	<b>314</b>	<b>333</b>	<b>340</b>	<b>351</b>	<b>347</b>	<b>359</b>	<b>364</b>
Fishermen .....	140	168	172	184	193	198	216	223	230	239	247	256	274
Shore workers .....	87	92	85	83	103	105	98	110	110	112	100	103	90
<b>Craft used</b> .....	<b>88</b>	<b>103</b>	<b>104</b>	<b>103</b>	<b>113</b>	<b>115</b>	<b>123</b>	<b>127</b>	<b>127</b>	<b>130</b>	<b>128</b>	<b>293</b>	<b>293</b>
Vessels, 5 net tons and over .....	14	16	18	18	19	20	20	21	24	24	38	223	223
Motorboats .....	72	85	84	84	93	93	102	105	102	104	88	268	268
Other boats .....	2	2	2	1	1	2	1	1	1	2	2	2	2
<b>Fishery shore establishments.</b> .....	<b>3.7</b>	<b>3.6</b>	<b>3.3</b>	<b>3.4</b>	<b>3.6</b>	<b>3.6</b>	<b>3.6</b>	<b>3.9</b>	<b>4.0</b>	<b>4.0</b>	<b>4.0</b>	<b>4.2</b>	<b>4.6</b>

<sup>1</sup> Seasonal average for processors and wholesaling plants. <sup>2</sup> Excludes Maryland and Virginia. <sup>3</sup> Excludes Maryland, Virginia, and Alaska.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual; and *Fisheries of the United States*, annual.

**No. 1199. Fisheries—Quantity and Value of Domestic Catch: 1960 to 1989**

[1978-1989 preliminary. See also *Historical Statistics, Colonial Times to 1970*, series L 224-226, L 229, and L 310]

YEAR	QUANTITY (mil. lb. <sup>1</sup> )			Value (mil. dol.)	Average price per lb. (cents)	YEAR	QUANTITY (mil. lb. <sup>1</sup> )			Value (mil. dol.)	Average price per lb. (cents)
	Total	For human food	For industrial products <sup>2</sup>				Total	For human food	For industrial products <sup>2</sup>		
1960. ....	4,942	2,498	2,444	354	7.2	1980. ....	6,482	3,654	2,828	2,237	34.5
1965. ....	4,777	2,587	2,190	446	9.3	1981. ....	5,977	3,547	2,430	2,388	40.0
1970. ....	4,917	2,537	2,380	613	12.5	1982. ....	6,367	3,285	3,082	2,390	37.5
1972. ....	4,806	2,435	2,371	748	15.6	1983. ....	6,439	3,238	3,201	2,355	36.6
1973. ....	4,858	2,398	2,460	937	19.3	1984. ....	6,438	3,320	3,118	2,350	36.5
1974. ....	4,967	2,496	2,471	932	18.7	1985. ....	6,258	3,294	2,964	2,328	37.2
1975. ....	4,877	2,465	2,412	977	20.0	1986. ....	6,031	3,393	2,638	2,763	45.6
1976. ....	5,388	2,775	2,613	1,349	25.0	1987. ....	6,896	3,946	2,950	3,115	45.2
1977. ....	5,271	2,952	2,319	1,554	29.5	1988. ....	7,192	4,588	2,604	3,520	48.9
1978. ....	6,028	3,177	2,851	1,854	30.7	1989. ....	8,463	6,204	2,259	3,238	38.3
1979. ....	6,267	3,318	2,949	2,234	35.6						

<sup>1</sup> Live weight. <sup>2</sup> Meal, oil, fish solubles, homogenized condensed fish, shell products, bait, and animal food.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual; and *Fisheries of the United States*, annual.



### No. 1200. Fisheries—Quantity and Value of Catch, by State, and Catch of Principal Species, by Area: 1980 to 1989

[Catch in millions of pounds, live weight, except as indicated; value in millions of dollars. Preliminary. See also *Historical Statistics, Colonial Times to 1970*, series L 262-293]

AREA, STATE, CATCH, AND VALUE	1980	1985	1988	1989	AREA, STATE, CATCH, AND VALUE	1980	1985	1988	1989
<b>Total:</b>					Value	20	21	21	20
Catch	6,482	6,258	7,192	8,483	Florida (east coast):				
Value	2,237	2,326	3,520	3,238	Catch	77	66	56	56
<b>New England:</b>					Value	39	57	55	53
Catch	788	590	570	565	Catch for certain species:				
Value	327	419	494	509	Menhaden	218	105	75	68
<b>Maine:</b>					Shrimp	33	28	24	34
Catch	245	175	157	151	Crabs	55	48	54	52
Value	93	101	124	133	Scallops	1	13	14	5
<b>New Hampshire:</b>					<b>Gulf States:</b>				
Catch	19	8	11	11	Catch	1,979	2,412	1,937	1,789
Value	5	5	9	10	Value	463	597	708	649
<b>Massachusetts:</b>					Florida (west coast):				
Catch	438	296	287	269	Catch	115	117	126	141
Value	178	232	274	273	Value	86	114	114	132
<b>Rhode Island:</b>					<b>Alabama:</b>				
Catch	81	104	106	125	Catch	25	30	24	25
Value	46	70	69	75	Value	25	41	40	38
<b>Connecticut:</b>					<b>Mississippi:</b>				
Catch	5	7	9	9	Catch	334	471	336	298
Value	5	12	17	18	Value	25	40	61	44
Catch for certain species:					<b>Louisiana:</b>				
Clams	15	22	17	16	Catch	1,412	1,693	1,356	1,228
Cod	118	83	75	78	Value	174	225	317	265
Crabs	7	8	13	11	<b>Texas:</b>				
Flounder	118	98	59	50	Catch	94	103	96	96
Haddock	55	14	6	4	Value	153	177	176	170
Herring, sea	184	52	89	90	Catch for certain species:				
Lobster, American	36	44	45	49	Crabs	45	53	83	61
Ocean perch, Atlantic	24	10	2	1	Mullet	31	17	27	27
Pollock	40	43	33	23	Oysters (meats)	17	25	16	15
Scallops, sea	17	10	18	21	Shrimp	208	263	226	228
Squid	6	15	44	47	<b>Great Lakes:</b>				
Whiting	18	31	25	23	Catch	44	54	40	38
<b>Middle Atlantic:</b>					Value	14	15	19	20
Catch	244	151	156	172	<b>Mississippi River and tributaries:</b>				
Value	97	101	129	133	Catch	85	92	(NA)	(NA)
<b>New York:</b>					Value	21	29	(NA)	(NA)
Catch	39	39	38	37	<b>Pacific Coast:</b>				
Value	45	38	54	51	Catch	2,140	1,816	3,457	4,840
<b>New Jersey:</b>					Value	1,025	863	1,809	1,560
Catch	201	108	113	128	<b>Washington:</b>				
Value	50	61	72	79	Catch	156	167	174	163
<b>Delaware:</b>					Value	86	93	172	135
Catch	4	5	6	7	<b>Oregon:</b>				
Value	2	2	3	3	Catch	126	101	149	170
Catch for certain species:					Value	56	46	98	79
Clams (meats)	40	73	62	80	<b>California:</b>				
Scup or porgy	8	2	4	4	Catch	804	363	496	418
Squid	3	8	17	17	Value	323	133	199	123
<b>Chesapeake Bay:</b>					<b>Alaska:</b>				
Catch	717	815	731	778	Catch	1,054	1,185	2,639	4,089
Value	130	124	148	152	Value	560	591	1,339	1,223
<b>Maryland:</b>					Catch for certain species:				
Catch	80	92	80	85	Anchovies	107	15	12	13
Value	45	47	44	52	Bonito	14	5	9	2
<b>Virginia:</b>					Cod	20	120	267	372
Catch	637	723	651	693	Crabs	347	129	217	199
Value	85	76	104	100	Flounder	60	68	133	133
Catch for certain species:					Hake	12	16	16	17
Crabs	65	91	78	89	Halibut	19	61	81	75
Clams	36	47	47	38	Herring, sea	107	142	131	119
Scallops, sea	6	3	7	8	Jack mackerel	44	21	23	28
Flounder	10	6	8	4	Mackerel	65	75	100	89
Oysters	21	8	5	4	Oysters	7	8	10	8
<b>South Atlantic:</b>					Pollock	3	93	1,257	2,362
Catch	473	311	280	256	Rockfish	106	82	124	134
Value	148	156	174	169	Sablefish	22	63	108	98
<b>North Carolina:</b>					Salmon	614	727	562	785
Catch	356	215	191	164	Shrimp	98	35	74	81
Value	69	65	76	71	Tuna	387	64	73	58
<b>South Carolina:</b>					<b>Hawaii:</b>				
Catch	21	13	16	20	Catch	11	17	21	24
Value	20	14	21	25	Tuna catch	7	11	11	14
<b>Georgia:</b>					Value	12	22	40	47
Catch	19	17	17	16					

NA Not available. <sup>1</sup> Collected largely by State fishery agencies and compiled by State fishery agencies and National Marine Fisheries Service. Includes, in addition to the Great Lakes, small amounts for Lake St. Clair, Lake of the Woods, Namakan Lake, and Rainy Lake.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual; and *Fisheries of the United States*, annual.

### No. 1201. Fisheries—Domestic Catch and Value, by Selected Major U.S. Ports: 1985 to 1989

[See *Historical Statistics, Colonial Times to 1970*, series L 236-253, for data on quantity and value of catch]

PORT	CATCH (mil. lb.)					VALUE (mil. dol.)				
	1985	1986	1987	1988	1989	1985	1986	1987	1988	1989
Dutch Harbor-Unalaska, AK	106.3	88.3	128.2	377.3	504.3	21.3	37.2	62.7	100.9	107.0
Cameron, LA	673.6	616.8	672.4	438.9	352.7	29.9	34.8	31.9	33.2	20.5
Pascagoula-Moss Point, MS	423.2	365.5	391.6	292.0	282.1	18.4	20.4	20.3	28.2	16.9
Empire-Venice, LA	224.5	317.6	357.4	297.2	272.7	34.3	47.1	60.1	67.7	49.2
Kodiak, AK	96.1	141.2	204.1	304.6	213.2	65.8	89.8	132.1	166.3	100.2
Dulac-Chauvin, LA	398.6	294.6	331.7	244.1	210.9	59.9	71.0	65.6	56.5	50.0
Intercoastal City, LA	(NA)	298.9	314.3	209.7	207.2	(NA)	11.3	13.4	14.7	9.5
Los Angeles, CA	150.3	187.4	203.1	232.0	177.6	32.5	29.5	55.6	34.0	20.3
Petersburg, AK	(NA)	85.2	42.4	50.4	113.5	(NA)	38.1	36.9	58.5	61.4
Gloucester, MA	116.5	110.0	93.0	107.4	98.5	37.1	37.8	34.0	30.8	30.0
Beaufort-Morehead City, NC	133.2	98.9	85.7	110.0	95.0	22.7	24.7	22.7	27.0	25.0
Ketchikan, AK	(NA)	42.2	27.6	28.3	91.8	(NA)	20.6	22.8	43.5	45.6
New Bedford, MA	90.6	65.8	78.7	90.3	90.4	103.2	106.0	143.7	140.9	141.0
Morgan City-Berwick, LA	7.7	17.4	27.0	43.3	68.1	(NA)	(NA)	11.0	16.7	17.8
Cordova, AK	(NA)	(NA)	69.6	42.5	55.3	(NA)	(NA)	41.9	46.4	35.3
Cape May-Wildwood, NJ	30.3	36.6	56.8	47.9	54.0	18.1	20.9	30.5	28.4	30.8
Astoria, OR	25.5	36.8	46.6	44.2	51.0	9.5	18.4	24.6	24.3	20.0
Port Hueneme-Oxnard-Ventura, CA	19.9	31.0	42.3	55.0	50.9	5.4	5.8	8.1	10.0	7.9
Portland, ME	36.1	34.9	43.8	43.9	49.0	17.2	22.4	35.8	30.4	34.4
Point Judith, RI	56.8	52.1	46.6	49.6	48.3	28.0	28.5	27.4	25.4	23.6

NA Not available. <sup>1</sup> Record.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual.

### No. 1202. Domestic Fish and Shellfish Catch and Value, by Species: 1985 to 1989

SPECIES	QUANTITY (1,000 lb.)					VALUE (\$1,000)			
	1985-89 5 year average	1985	1987	1988	1989	1985	1987	1988	1989
<b>Total</b>	(X)	<b>6,257,642</b>	<b>6,896,728</b>	<b>7,192,553</b>	<b>8,463,080</b>	<b>2,326,237</b>	<b>3,114,713</b>	<b>3,520,259</b>	<b>3,238,440</b>
<b>Fish, total <sup>1</sup></b>	(X)	<b>5,214,363</b>	<b>5,708,215</b>	<b>5,905,561</b>	<b>7,145,154</b>	<b>1,193,427</b>	<b>1,629,041</b>	<b>2,023,230</b>	<b>1,726,247</b>
Anchovies	13,335	14,566	12,857	12,425	13,389	2,704	2,706	2,615	2,698
Bluefish	14,044	13,743	15,226	16,853	10,429	2,363	3,254	3,012	2,245
Butterfish	8,605	10,338	10,315	5,441	7,051	3,537	6,496	3,407	4,108
Cod: Atlantic	71,511	82,823	59,100	76,073	78,423	35,140	44,179	42,941	47,772
Pacific	206,934	120,275	170,811	267,205	372,137	18,556	31,443	38,429	55,375
Croaker	10,681	11,088	11,044	10,804	8,287	3,858	4,396	4,596	4,114
Flounders	199,118	195,718	199,711	228,620	202,489	129,121	145,080	140,142	118,831
Haddock	8,459	14,416	6,673	6,429	3,808	13,545	8,522	7,030	4,538
Halibut	74,321	61,032	76,107	81,808	75,168	38,376	88,254	72,718	85,145
Herring, sea: Atlantic	80,221	57,133	84,536	90,397	89,657	2,968	4,368	5,229	5,041
Herring, sea: Pacific	129,243	142,074	122,598	131,432	119,346	47,025	47,916	57,431	24,381
Jack mackerel	24,433	20,852	26,671	22,546	28,422	1,770	1,831	1,685	1,927
Mackerel, Pacific	88,732	75,453	93,755	100,342	88,667	6,324	6,433	7,498	6,023
Menhaden	2,383,569	2,739,401	2,712,285	2,086,068	1,968,726	100,680	104,425	105,704	84,462
Mullet	27,442	21,205	30,125	32,642	31,594	5,720	8,224	11,218	15,023
Ocean perch, Atlantic	4,837	9,686	4,202	2,350	1,392	3,179	2,709	1,467	919
Ocean perch, Pacific	15,770	9,034	19,982	11,919	22,332	1,757	4,478	2,546	4,646
Pollock, Atlantic	39,978	43,477	45,645	33,052	23,249	5,409	17,916	11,071	9,922
Pollock, Alaska	878,909	92,933	552,048	1,257,251	2,361,988	6,878	45,449	95,252	186,921
Rockfish	109,934	82,109	117,881	124,026	133,623	23,107	38,153	38,663	42,338
Sablefish	91,209	63,380	102,698	107,511	97,590	28,692	58,107	91,779	73,272
Salmon	667,900	726,946	562,018	606,148	785,868	439,795	596,376	910,673	591,234
Scup or porgy	14,082	15,996	14,295	14,358	9,582	9,338	9,810	9,572	7,720
Sea trout, gray	17,930	16,400	17,927	20,533	14,187	7,330	7,499	7,948	7,160
Shark, Dogfish	11,944	16,400	14,167	10,070	12,804	842	1,573	975	1,602
Snapper, red	4,303	5,181	3,732	4,154	3,959	10,661	8,661	9,496	10,329
Wardfish	11,255	12,258	9,761	12,818	11,768	33,191	34,974	42,703	38,321
Tuna	94,337	83,054	100,058	111,349	89,413	52,515	95,803	120,990	103,543
Whiting	38,813	44,545	34,673	35,669	39,353	8,274	11,584	8,621	9,403
<b>Shellfish, total</b>	(X)	<b>1,043,279</b>	<b>1,187,511</b>	<b>1,286,992</b>	<b>1,317,926</b>	<b>1,132,810</b>	<b>1,485,672</b>	<b>1,497,028</b>	<b>1,512,193</b>
Clams	140,041	150,551	134,357	131,740	138,166	128,349	132,861	134,781	134,943
Crabs	398,733	337,632	396,368	455,629	458,378	203,044	321,875	383,560	414,401
LOBSTERS: American	47,866	46,152	45,558	48,643	52,926	114,895	133,554	145,236	149,115
Oysters	37,268	44,173	39,807	31,892	29,926	70,053	92,423	78,498	83,585
Scallops: Calico	8,146	12,513	8,155	11,868	6,580	12,524	8,889	12,462	5,928
Sea	26,435	15,828	32,038	30,557	33,757	74,562	132,263	128,243	132,594
Shrimp	355,881	333,691	363,142	330,873	351,514	472,850	578,084	506,034	467,571
Squid: Atlantic	38,551	71,157	38,883	46,739	66,829	7,256	12,493	16,220	25,592
Pacific	49,728	22,276	43,166	80,426	60,509	4,047	4,300	7,689	5,509

X Not applicable. <sup>1</sup> Includes other types of fish and shellfish, not shown separately.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual.

## No. 1203. Disposition of U.S. Domestic Catch: 1970 to 1989

[Live weight catch in millions of pounds. 1979-89 preliminary. In addition to whole fish, a large portion of waste (400-500 million lb.) derived from canning, filleting, and dressing fish and shellfish is utilized in production of fish meal and oil in each year shown. See *Historical Statistics, Colonial Times to 1970*, series L 305-310, for similar but not entirely comparable data.]

DISPOSITION	1970	1977	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Total</b> . . . . .	<b>4,917</b>	<b>4,875</b>	<b>6,482</b>	<b>5,977</b>	<b>6,367</b>	<b>6,439</b>	<b>6,438</b>	<b>6,258</b>	<b>6,031</b>	<b>6,896</b>	<b>7,192</b>	<b>8,463</b>
Fresh and frozen . . . . .	1,595	1,744	2,621	2,547	2,550	2,304	2,336	2,242	2,487	3,157	3,813	5,209
Canned . . . . .	1,150	907	1,161	1,118	891	1,087	1,128	1,232	1,134	1,009	1,017	1,244
Cured . . . . .	71	55	96	90	85	80	82	70	60	89	86	58
Reduced to meal, oil, etc. . . . .	2,101	2,171	2,604	2,222	2,841	2,968	2,892	2,714	2,350	2,641	2,276	1,952

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual, and *Fisheries of the United States*, annual.

## No. 1204. Joint Venture Catches in the U.S. Exclusive Economic Zone (EEZ), by Species: 1985 to 1989

[Joint venture—An operation authorized under the Magnuson Fishery Conservation and Management Act (MFCMA) in which a permitted foreign vessel receives fish in the U.S. Exclusive Economic Zone (EEZ) from a U.S. vessel. The fish received from the U.S. vessel are part of the U.S. harvest]

SPECIES	QUANTITY (1,000 lb.)				VALUE (\$1,000)			
	1985	1987	1988	1989	1985	1987	1988	1989
<b>Total</b> . . . . .	<b>2,008,889</b>	<b>3,286,604</b>	<b>3,201,487</b>	<b>1,700,293</b>	<b>104,320</b>	<b>202,133</b>	<b>221,090</b>	<b>112,165</b>
Atka mackerel . . . . .	88,047	66,206	43,253	-	8,109	4,775	3,571	-
Cod . . . . .	80,189	131,220	245,871	97,837	7,799	15,334	30,429	12,495
Flounders . . . . .	396,084	494,381	727,778	426,436	24,833	33,272	53,763	34,179
Hake, Pacific (D) . . . . .	619	233,681	299,343	448,808	(D)	11,653	14,660	21,628
Ocean perch . . . . .	8,350	1,225	-	-	56	173	-	-
Mackerel, Atlantic . . . . .	1,354,368	17,863	12,533	(Z)	584	1,058	780	(Z)
Pollock, Alaska . . . . .	154	1,993,203	1,822,242	634,385	59,730	134,302	116,102	40,378
Rockfishes . . . . .	207	705	4,636	-	14	100	705	-
Sablefish . . . . .	-	112	-	-	30	37	14	-
Whiting . . . . .	7,987	11	-	-	-	(Z)	-	-
Squid . . . . .	72,884	9,112	(D)	-	1,194	1,373	(D)	-
Other . . . . .	-	1,124	45,719	92,727	3,971	56	1,086	3,485

- Represents zero. D Figure withheld to avoid disclosure. Z Less than \$500. <sup>1</sup> Includes alewives (48,000 pounds) not shown separately.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual.

## No. 1205. U.S. Catch and Value of Fish and Shellfish, by Distance Caught Off U.S. Shores—Selected Species: 1989

[Preliminary. Catch is shown in live weight, except as indicated. Includes landings by U.S. flag vessels at Puerto Rico and other ports outside the 50 States and joint venture catches, therefore will not agree with other tables; see table 1204]

SPECIES	Total U.S. catch (mil. lb.)	BY DISTANCE FROM U.S. SHORES						Value of U.S. catch <sup>1</sup> (mil. dol.)
		Catch (mil. lb.)			Percent of U.S. catch			
		3 miles or less <sup>1</sup>	3 to 200 miles	International waters <sup>2</sup>	3 miles or less <sup>1</sup>	3 to 200 miles	International waters <sup>2</sup>	
<b>Total</b> . . . . .	<b>10,855</b>	<b>4,174</b>	<b>5,971</b>	<b>510</b>	<b>39.2</b>	<b>56.0</b>	<b>4.8</b>	<b>3,565</b>
<b>Fish</b> <sup>3</sup> . . . . .	<b>9,332</b>	<b>3,484</b>	<b>5,358</b>	<b>510</b>	<b>37.1</b>	<b>57.4</b>	<b>5.5</b>	<b>2,045</b>
Cod . . . . .	548	56	492	(Z)	10.2	89.8	(Z)	116
Flounder . . . . .	629	89	536	4	14.2	85.2	0.6	154
Halibut . . . . .	75	28	47	(Z)	37.3	62.7	(Z)	85
Herring, sea . . . . .	237	150	87	-	63.3	36.7	-	31
Mackerel . . . . .	131	3	128	-	2.3	97.7	-	18
Menhaden . . . . .	2,073	1,665	408	-	80.3	19.7	-	86
Pollock . . . . .	3,020	354	2,666	-	11.7	88.3	-	237
Salmon, Pacific . . . . .	786	778	8	-	99.0	1.0	-	591
Tuna . . . . .	541	1	35	505	0.2	6.5	93.3	309
<b>Shellfish</b> <sup>3</sup> . . . . .	<b>1,323</b>	<b>710</b>	<b>613</b>	-	<b>53.7</b>	<b>46.3</b>	-	<b>1,520</b>
Clams (meats) . . . . .	138	38	100	-	27.5	72.5	-	135
Crabs . . . . .	458	266	192	-	58.1	41.9	-	414
Lobsters . . . . .	61	47	14	-	77.0	23.0	-	176
Scallops (meats) . . . . .	41	2	39	-	4.9	95.1	-	140
Shrimp . . . . .	356	176	180	-	49.4	50.6	-	475
Squid . . . . .	128	46	82	-	35.9	64.1	-	31

- Represents or rounds to zero. Z Less than 500,000 pounds or .05 percent. <sup>1</sup> Includes all landings in Great Lakes and other inland waters. <sup>2</sup> Greater than 200 nautical miles seaward from the U.S. shores except for two States. The boundaries for the Gulf Coast of Florida and Texas are 9 nautical miles. <sup>3</sup> Includes other species not shown separately.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual and *Fisheries of the United States*, annual.

**No. 1206. U.S. Private Aquaculture—Production and Value: 1980 to 1987**

[Production is shown in live weight, except as indicated. Aquaculture is the commercial growing of fish or other aquatic life in a controlled environment]

SPECIES	PRODUCTION (1,000 lbs.)					VALUE (\$1,000)				
	1980	1984	1985	1986	1987	1980	1984	1985	1986	1987
<b>Total</b>	<b>203,178</b>	<b>455,733</b>	<b>535,764</b>	<b>619,959</b>	<b>721,089</b>	<b>191,977</b>	<b>398,168</b>	<b>422,736</b>	<b>496,329</b>	<b>613,653</b>
Baitfish <sup>1</sup>	22,046	23,598	24,807	25,247	26,000	44,000	47,045	51,280	51,522	71,500
Catfish	76,842	239,800	271,357	326,979	372,000	53,572	191,840	189,194	228,886	277,000
Clams <sup>2</sup>	561	1,698	1,588	2,506	2,215	2,295	4,178	4,717	8,307	9,243
Crawfish	23,917	59,400	64,999	97,500	95,000	12,951	29,700	32,500	49,750	35,525
Freshwater prawns	300	317	267	178	200	1,200	1,698	1,540	893	1,250
Mussels <sup>2</sup>	(NA)	917	928	1,206	1,077	(NA)	1,584	1,248	1,725	1,746
Oysters <sup>2</sup>	23,755	24,549	22,473	24,090	24,315	37,085	38,970	39,977	42,797	43,756
Pacific salmon	7,616	45,086	84,305	74,398	124,308	3,400	17,252	25,439	32,751	55,906
Shrimp	-	528	440	1,354	2,655	-	1,566	1,687	3,408	7,208
Trout	48,141	49,940	50,600	51,000	56,247	37,474	54,435	55,154	55,590	57,336
Other species	(NA)	9,900	14,000	15,500	<sup>3</sup> 17,072	(NA)	9,900	20,000	21,700	<sup>3</sup> 53,285

- Represents or rounds to zero. NA Not available. <sup>1</sup> Not used for food consumption. <sup>2</sup> Production is shown in meat weight. <sup>3</sup> Includes tropical fish or ornamentals; production of 22,000 pounds and value of \$21 million.  
Source: U.S. Dept. of Agriculture, Office of Aquaculture, *Agricultural Outlook*, June 1989.

**No. 1207. Supply of Selected Fishery Items: 1980 to 1989**

[In millions of pounds. Totals available for U.S. consumption are supply minus exports plus imports. Round weight is the complete or full weight as caught. Data are preliminary]

ITEM	Unit	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Sardines, canned	Canned weight	69	84	67	46	58	76	68	77	63	61
Salmon, canned	Canned weight	126	151	71	127	150	113	87	76	59	159
Tuna, canned	Canned weight	666	698	626	713	777	759	873	866	843	1,034
Clams	Meat weight	102	130	119	126	144	164	162	151	145	150
King crab	Round weight	133	60	28	23	13	11	19	14	10	(NA)
Snow crab	Round weight	54	43	25	30	23	45	49	29	31	(NA)
Crab meat, canned	Canned weight	9	7	7	8	7	8	9	8	8	8
American lobster	Round weight	69	78	81	93	100	108	113	115	121	125
Spiny lobster	Round weight	127	134	127	137	153	154	152	151	139	78
Oysters	Meat weight	71	76	82	81	84	90	91	92	78	68
Scallops	Meat weight	51	72	55	67	87	72	70	81	75	81
Shrimp	Heads-off weight	425	434	458	541	584	633	706	773	767	743

NA Not available.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual.

**No. 1208. Canned, Fresh, and Frozen Fishery Products—Production and Value: 1980 to 1989**

[Fresh fishery products exclude Alaska and Hawaii. Canned fishery products data are for natural pack only. See also *Historical Statistics, Colonial Times to 1970*, series L 338-357 (production data in cases) and L 358]

PRODUCT	PRODUCTION (mil. lb.)						VALUE (mil. dol.)				
	1980	1985	1986	1987	1988	1989 <sup>1</sup>	1980	1985	1986	1987	1988 <sup>1</sup>
<b>CANNED</b>											
<b>Total <sup>2</sup></b>	<b>1,516</b>	<b>1,161</b>	<b>1,332</b>	<b>1,186</b>	<b>1,131</b>	<b>1,455</b>	<b>1,928</b>	<b>1,360</b>	<b>1,485</b>	<b>1,562</b>	<b>1,481</b>
Tuna	602	545	637	654	598	686	1,144	821	882	1,015	960
Salmon	200	159	142	105	88	197	376	228	265	262	219
Clam products	77	117	116	117	127	135	66	109	118	88	98
Mackerel <sup>3</sup>	38	15	17	15	18	18	12	7	6	6	9
Sardines, Maine	20	20	16	13	19	13	32	38	28	22	24
Shrimp	16	4	5	4	4	3	80	19	23	22	25
Crabs	5	1	1	(Z)	(Z)	1	19	2	2	1	2
Oysters <sup>4</sup>	(Z)	2	3	4	3	4	(Z)	2	4	2	2
<b>FRESH AND FROZEN</b>											
<b>Fish fillets and steaks <sup>5</sup></b>	<b>202</b>	<b>246</b>	<b>280</b>	<b>356</b>	<b>378</b>	<b>390</b>	<b>261</b>	<b>440</b>	<b>564</b>	<b>753</b>	<b>767</b>
Cod	31	57	77	78	62	74	43	89	142	165	137
Flounder	49	69	64	58	53	44	87	157	169	168	163
Haddock	17	8	8	9	8	7	29	19	25	32	30
Ocean perch, Atlantic	7	2	3	3	2	2	9	3	6	6	5
Rockfish	14	18	17	18	36	26	13	25	24	27	57
Pollock, Atlantic	9	15	16	18	14	11	9	17	21	30	21
Pollock, Alaska	(NA)	11	24	75	110	131	(NA)	24	25	82	110
Other	74	66	71	97	93	95	71	106	152	243	244

NA Not available. Z Less than 500,000 pounds or \$500,000. <sup>1</sup> Preliminary. <sup>2</sup> Includes other products, not shown separately. <sup>3</sup> Includes Jack and a small amount of Pacific mackerel. <sup>4</sup> Includes oyster specialties. <sup>5</sup> Fresh and frozen.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual.

**No. 1209. Processed Fishery Products—Production and Value: 1980 to 1989**[Includes Puerto Rico and American Samoa. See *Historical Statistics, Colonial Times to 1970*, series L 362-365, for meal, scrap, and oil]

PRODUCT	PRODUCTION (mil. lb.)						VALUE (mil. dol.)					
	1980	1985	1986	1987	1988	1989 <sup>1</sup>	1980	1985	1986	1987	1988	1989 <sup>1</sup>
<b>Total<sup>2</sup></b> . . . . .	(X)	(X)	(X)	(X)	(X)	(X)	<b>4,458</b>	<b>4,936</b>	<b>5,263</b>	<b>5,951</b>	<b>5,829</b>	<b>6,889</b>
Fresh and frozen <sup>3</sup> . . . . .	(X)	(X)	(X)	(X)	(X)	(X)	2,110	3,242	3,481	4,041	3,987	4,517
Fillets . . . . .	197	232	266	338	356	364	247	408	527	696	696	656
Steaks . . . . .	5	13	14	18	22	25	14	32	37	58	70	81
Fish sticks . . . . .	88	96	87	99	80	89	89	111	94	143	114	116
Fish portions . . . . .	344	330	342	324	301	280	388	368	394	446	439	400
Breaded shrimp <sup>4</sup> . . . . .	83	95	108	109	99	121	254	355	358	372	293	405
Canned products . . . . .	1,516	1,161	1,332	1,188	1,131	1,455	1,928	1,360	1,485	1,562	1,481	1,992
Fish and shellfish . . . . .	1,009	913	1,011	965	908	1,110	1,782	1,269	1,395	1,476	1,388	1,754
Animal food . . . . .	507	248	321	221	223	345	146	91	100	85	93	238
Industrial products . . . . .	(X)	(X)	(X)	(X)	(X)	(X)	270	182	175	212	236	206
Meal and scrap . . . . .	724	722	702	787	644	618	134	84	83	121	131	115
Oil (body and liver) . . . . .	312	285	337	298	225	225	58	42	44	36	44	24
Solubles . . . . .	267	323	195	249	223	233	14	19	12	17	15	18
Other . . . . .	(X)	(X)	(X)	(X)	(X)	(X)	64	37	36	38	47	49

X Not applicable. <sup>1</sup> Preliminary. <sup>2</sup> Includes cured fish. <sup>3</sup> Includes items not shown (dressed fish, shellfish not breaded, specialties). <sup>4</sup> Includes salmon eggs for bait.Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual.**No. 1210. Imports and Exports: 1970 to 1989**[Imports include landings of tuna by foreign vessels at American Samoa. See also *Historical Statistics, Colonial Times to 1970*, series L 227-235]

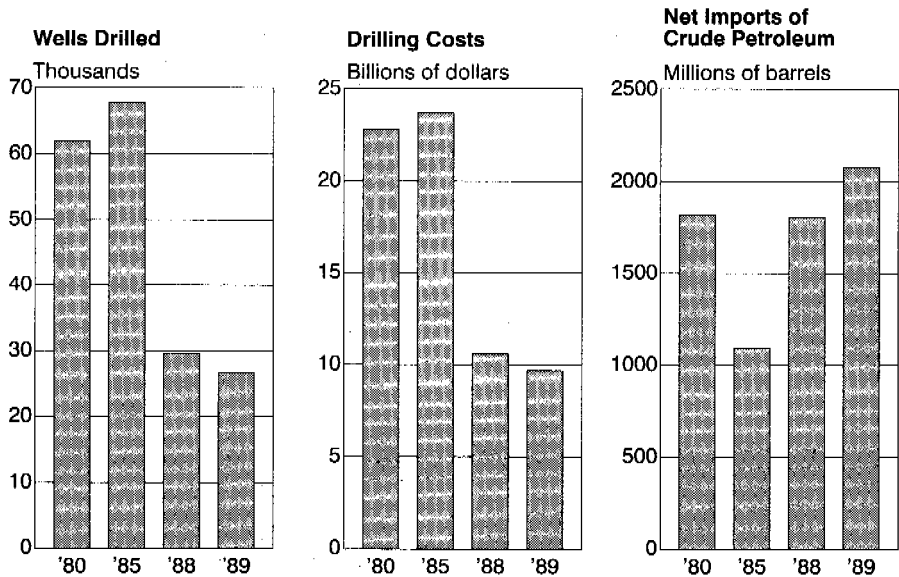
YEAR	IMPORTS					EXPORTS				
	Total U.S. value (mil. dol.)	Fishery products				Total U.S. value (mil. dol.)	Fishery products			
		Total value (mil. dol.)	Edible products		Noned-ible, value (mil. dol.)		Total value (mil. dol.)	Edible products		Noned-ible, value (mil. dol.)
			Quantity (mil. lb.)	Value (mil. dol.)				Quantity (mil. lb.)	Value (mil. dol.)	
1970 . . . . .	39,756	1,037	1,873	813	225	43,224	118	140	94	24
1980 . . . . .	244,007	3,648	2,145	2,687	962	220,783	1,006	574	904	102
1985 . . . . .	343,553	6,679	2,754	4,064	2,614	213,146	1,084	648	1,010	73
1985 . . . . .	368,657	7,626	2,979	4,813	2,813	217,304	1,356	735	1,290	66
1987 . . . . .	402,066	8,818	3,201	5,711	3,106	252,866	1,660	783	1,577	83
1988 . . . . .	437,140	8,872	2,968	5,442	3,430	320,385	2,275	1,060	2,156	119
1989, prel . . . . .	468,012	9,604	3,243	5,498	4,106	363,765	1,470	1,374	2,283	2,424

<sup>1</sup> Record. <sup>2</sup> Increase from 1988 due to change in classification of products in new harmonized system; see text, section 29.**No. 1211. Selected Fishery Products—Imports and Exports: 1985 to 1989**[See *Historical Statistics, Colonial Times to 1970*, series L 312-318, for selected imports]

PRODUCT	QUANTITY (mil. lb.)					VALUE (mil. dol.)				
	1985	1986	1987	1988	1989, prel.	1985	1986	1987	1988	1989, prel.
<b>IMPORTS</b>										
<b>Edible<sup>1</sup></b> . . . . .	<b>2,754.0</b>	<b>2,978.9</b>	<b>3,201.1</b>	<b>2,967.8</b>	<b>3,243.0</b>	<b>4,064.3</b>	<b>4,813.5</b>	<b>5,711.2</b>	<b>5,441.6</b>	<b>5,497.8</b>
Fresh or frozen . . . . .	2,229.0	2,423.7	2,661.6	2,473.2	2,627.4	3,461.8	4,150.0	5,021.9	4,779.5	4,720.9
Salmon <sup>2</sup> . . . . .	27.0	40.5	41.9	50.1	98.8	75.6	100.7	113.0	155.2	228.9
Tuna . . . . .	478.8	563.8	572.5	550.1	649.7	266.3	298.8	330.8	372.3	401.7
Groundfish fillets, blocks <sup>4</sup> . . . . .	639.8	651.0	630.4	500.8	484.4	655.3	790.6	1,003.5	759.4	702.0
Other fillets and steaks . . . . .	231.0	251.4	394.2	320.1	252.6	333.7	416.1	651.0	533.0	490.3
Scallops (meats) . . . . .	42.0	47.9	39.9	32.0	40.9	147.1	192.6	162.3	115.7	139.0
Lobster, American, spiny . . . . .	77.4	79.3	80.9	77.5	72.1	464.9	464.9	575.9	546.7	453.3
Shrimp and prawn . . . . .	342.8	384.3	461.2	489.7	491.6	1,120.7	1,404.9	1,676.8	1,726.0	1,684.8
Canned <sup>1</sup> . . . . .	414.4	438.8	428.7	424.4	532.1	465.8	504.4	515.9	550.9	639.2
Sardines and herring <sup>5</sup> . . . . .	39.8	38.0	43.3	37.1	40.1	30.3	30.4	34.2	33.4	33.4
Tuna . . . . .	213.9	236.6	211.7	244.5	348.2	209.1	228.6	206.9	298.7	375.9
Oysters . . . . .	28.9	32.1	32.7	27.3	20.4	30.2	32.3	36.1	39.7	36.9
Pickled or salted . . . . .	57.1	61.4	57.4	55.8	50.5	53.4	62.2	74.6	66.9	54.5
Cod, haddock, hake, pollock, cusk . . . . .	34.7	36.9	31.9	31.4	16.6	41.2	49.5	60.5	52.7	25.4
<b>Nonedible scrap and meal</b> . . . . .	<b>510.7</b>	<b>370.0</b>	<b>393.7</b>	<b>265.3</b>	<b>171.1</b>	<b>61.7</b>	<b>47.2</b>	<b>52.5</b>	<b>49.0</b>	<b>31.7</b>
<b>EXPORTS</b>										
Canned salmon . . . . .	48.2	59.4	35.9	32.9	40.4	83.1	101.2	85.8	91.6	89.7
Fish oil, nonedible . . . . .	279.1	192.2	249.1	149.3	194.8	36.8	20.8	23.3	21.9	20.2

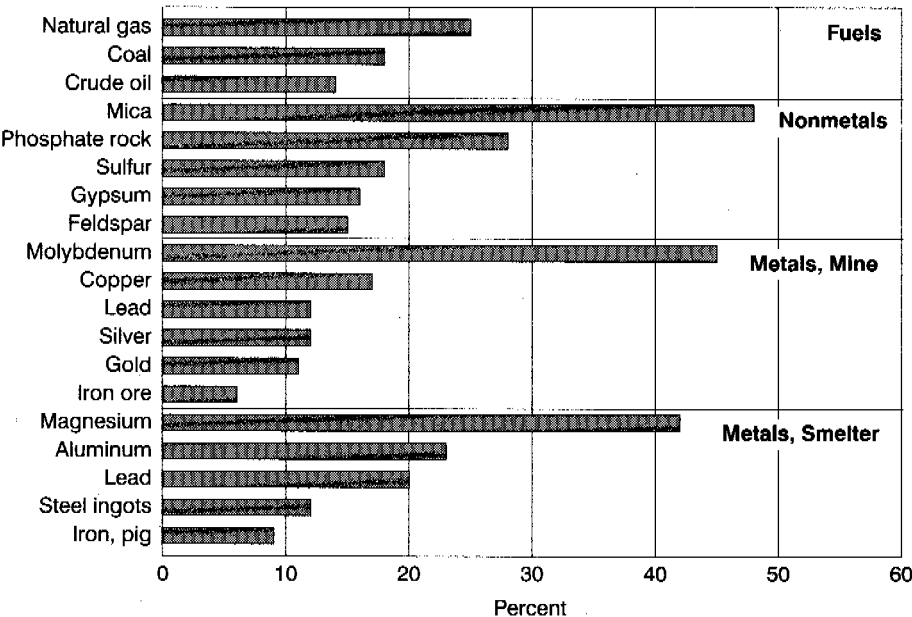
<sup>1</sup> Includes products not shown separately. <sup>2</sup> Excludes fillets. <sup>3</sup> Includes landings of tuna by foreign vessels at American Samoa. <sup>4</sup> Includes cod, cusk, haddock, hake, pollock, Atlantic ocean perch, and whiting. <sup>5</sup> Not in oil.Source of tables 1210 and 1211: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual. Compiled from U.S. Bureau of the Census data.

Figure 25.1  
**Wells Drilled and Drilling Costs for Crude Petroleum  
and Natural Gas: 1980 to 1989**



Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1229 and 1232.

Figure 25.2  
**U.S. Mineral Production as a Percentage of World: 1988**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1222.



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## Section 25

# Mining and Mineral Products

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This section presents data relating to mineral industries and their products, general summary measures of production and employment, and more detailed data on production, prices, imports and exports, consumption, and distribution for specific industries and products. Data on mining and mineral products may also be found in sections 27 and 31 of this *Abstract*; data on mining employment may be found in section 13.

*Mining* comprises the extraction of minerals occurring naturally (coal, ores, crude petroleum, natural gas) and quarrying, well operation, milling, refining and processing and other preparation customarily done at the mine or well site or as a part of extraction activity. (Mineral preparation plants are usually operated together with mines or quarries.) Exploration for minerals is included as is the development of mineral properties.

The principal governmental sources of these data are the *Minerals Yearbook*, published by the Bureau of Mines, Department of the Interior, and various monthly and annual publications of the Energy Information Administration, Department of Energy. See text, section 19 for list of Department of Energy publications. In addition, the Bureau of the Census conducts a census of mineral industries every 5 years. Non-government sources include the *Annual Statistical Report* of the American Iron and Steel Institute, Washington, DC; *Metals Week* and the monthly *Engineering and Mining Journal*, issued by the McGraw-Hill Publishing Co., New York, NY; *The Iron Age*, issued weekly by the Chilton Co., Philadelphia, PA; and the *Joint Association Survey of the U.S. Oil and Gas Industry*, conducted jointly by the American Petroleum Institute, Independent Petroleum Association of America, and Mid-Continent Oil and Gas Association.

Mineral statistics, with principal emphasis on commodity detail, have been collected by the Geological Survey or by the Bureau of Mines since 1880. Current data in Bureau of Mines publications include quantity and value of nonfuel minerals produced, sold or used by producers, or shipped; quantity of minerals stocked; crude materials treated and prepared minerals recovered; and consumption of mineral raw materials. The U.S. Mine Safety and Health Administration also collects and publishes data on workhours, employment, accidents, and injuries in the mineral industries, except petroleum and natural gas. In October 1977, mineral fuel data collection activities of the Bureau of Mines were transferred to the Energy Information Administration.

Censuses of mineral industries have been conducted by the Bureau of the Census at various intervals since 1840. Beginning with the 1967 census, legislation provides for a census to be conducted every 5th year for years ending in "2" and "7." The censuses provide, for the various types of mineral establishments, information on operating costs, capital expenditures, labor, equipment, and energy requirements in relation to their value of shipments and other receipts. Commodity statistics on many manufactured mineral products are also collected by the Bureau at monthly, quarterly, or annual intervals and issued in its *Current Industrial Reports* series.

In general, figures shown in the individual commodity tables include data for outlying areas and may therefore not agree with summary table 1216. Except for crude petroleum and refined products, the export and import figures include foreign trade passing through the customs districts of United States and Puerto Rico, but exclude shipments between U.S. territories and the customs districts.

**Historical statistics.** Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

**No. 1212. Summary of Mineral Operations: 1958 to 1987**

[Represents mineral operations only. Beginning 1967, excludes single unit establishments without paid employees. See also *Historical Statistics, Colonial Times to 1970*, series M 1-11]

ITEM	Unit	1958	1963	1967	1972	1977	1982	1987
Establishments	Number	36,392	38,651	28,579	25,269	31,359	42,241	33,617
With 20 or more employees	Number	6,045	5,499	5,682	5,312	6,632	(NA)	6,299
Including all operations in manufactures	Number	37,966	40,532	29,688	26,178	31,967	42,585	34,041
Excluding oil and gas extraction	Number	19,444	19,290	13,330	11,680	13,520	12,267	10,707
Employees, total	1,000.	734	616	567	595	799	1,114	698
Production workers <sup>1</sup>	1,000.	565	482	433	443	593	762	451
All other	1,000.	169	134	134	152	206	352	247
Worker-hours, production workers	Million	1,081	973	892	909	1,183	1,578	942
Worker-hours per production workers	1,000.	1.9	2.0	2.1	2.1	2.0	2.1	2.1
Payroll, total	Mil. dol.	3,749	3,743	4,187	6,226	13,167	28,637	21,739
Wages, production workers	Mil. dol.	2,623	2,680	2,888	4,250	9,082	18,030	12,443
Salaries, all other employees	Mil. dol.	1,126	1,063	1,299	1,976	4,085	10,607	9,296
Cost of supplies, etc. <sup>2</sup>	Mil. dol.	7,521	8,974	10,576	14,884	46,079	109,697	62,423
Value added in mining	Mil. dol.	13,385	15,910	19,330	26,471	68,013	188,056	110,959
Metal mining	Mil. dol.	1,180	1,418	1,557	2,382	3,504	3,215	4,610
Coal mining	Mil. dol.	1,780	1,727	2,091	3,754	11,266	18,631	17,068
Oil and gas extraction	Mil. dol.	9,033	11,020	13,394	17,612	48,587	159,937	80,049
Nonmetallic minerals mining	Mil. dol.	1,392	1,745	2,288	2,723	4,656	6,273	9,233
Value of shipments and receipts <sup>3</sup>	Mil. dol.	16,373	18,804	22,784	36,319	96,375	250,000	157,964
Capital expenditures	Mil. dol.	2,804	3,264	4,058	5,036	17,718	47,753	15,418

NA Not available. <sup>1</sup> See footnote 4, table 1215. <sup>2</sup> Includes purchased machinery installed. <sup>3</sup> See footnote 6, table 1215.

Source: U.S. Bureau of the Census, *Census of Mineral Industries, 1972, 1977, 1982, and 1987*.

**No. 1213. Gross National Product (GNP) in Mining: 1970 to 1988**

[In billions of dollars, except percent. For definition of gross national product, see text, section 14. Based on 1972 Standard Industrial Classification]

MINING INDUSTRY	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
<b>Current dollars, total</b>	<b>18.7</b>	<b>41.3</b>	<b>72.7</b>	<b>107.3</b>	<b>143.7</b>	<b>132.1</b>	<b>118.4</b>	<b>119.4</b>	<b>114.2</b>	<b>74.3</b>	<b>77.0</b>	<b>80.4</b>
Percent of total GNP	1.8	2.6	2.9	3.9	4.7	4.2	3.5	3.2	2.8	1.9	1.9	1.6
Metal mining	1.5	1.6	3.3	3.8	3.9	2.3	2.5	2.2	1.8	1.8	2.1	3.0
Coal mining	3.0	9.1	11.4	12.9	13.8	15.1	14.3	14.6	13.9	13.2	12.7	12.7
Oil and gas extraction	12.2	27.4	53.1	84.9	120.8	110.2	96.4	96.4	92.4	52.4	56.3	58.2
Nonmetallic minerals, exc. fuels	1.9	3.2	4.8	5.6	5.2	4.5	5.1	6.2	6.1	6.9	5.9	6.6
<b>Constant (1982) dollars, total</b>	<b>134.5</b>	<b>125.6</b>	<b>142.2</b>	<b>143.5</b>	<b>145.7</b>	<b>132.1</b>	<b>129.9</b>	<b>137.9</b>	<b>139.0</b>	<b>128.3</b>	<b>125.5</b>	<b>127.3</b>
Metal mining	4.0	3.5	2.2	2.1	2.9	2.3	2.2	2.5	2.4	2.6	2.3	2.6
Coal mining	11.2	11.9	11.9	13.9	14.2	15.1	15.5	16.5	16.4	17.0	17.6	19.1
Oil and gas extraction	115.2	105.7	121.7	121.5	123.5	110.2	107.0	112.6	114.1	100.1	100.1	99.5
Nonmetallic minerals, exc. fuels	4.2	4.5	6.3	6.0	5.0	4.5	5.1	6.3	6.1	6.6	5.5	6.2

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

**No. 1214. Mining and Primary Metal Production Indexes: 1970 to 1989**

[1987 = 100. See also *Historical Statistics, Colonial Times to 1970*, series M 68-71]

INDUSTRY GROUP	1970	1975	1980	1981	1982	1983	1984	1985	1986	1988	1989
<b>Mining</b>	<b>100.4</b>	<b>98.0</b>	<b>110.0</b>	<b>114.3</b>	<b>109.3</b>	<b>104.8</b>	<b>111.9</b>	<b>109.0</b>	<b>101.0</b>	<b>101.8</b>	<b>100.5</b>
Coal	67.2	71.5	90.2	89.7	91.3	85.4	97.5	96.3	97.1	105.0	105.7
Antracite	274.1	175.0	169.6	152.6	129.0	115.1	116.9	132.8	120.8	115.6	96.3
Bituminous	66.0	71.0	89.7	89.3	91.1	85.2	97.4	96.1	96.9	105.0	105.8
Oil and gas extraction	104.8	101.8	112.1	118.2	114.2	109.3	115.5	111.9	102.0	99.4	99.5
Crude oil and natural gas	122.3	107.5	108.4	107.9	105.1	102.1	106.4	105.0	101.7	99.2	95.6
Oil and gas drilling	65.2	109.7	181.2	241.5	226.5	197.1	226.6	198.9	109.8	100.0	93.7
Metal mining	129.5	106.4	108.8	117.7	87.1	83.5	91.7	91.3	95.2	122.7	141.4
Iron ore	194.4	172.1	149.4	160.7	79.1	82.0	111.0	104.9	84.4	119.8	123.3
Nonferrous ores	111.5	88.7	95.0	103.2	89.9	84.0	84.8	86.4	99.1	123.3	145.1
Copper ore	123.2	101.5	93.1	121.2	90.3	83.0	85.9	86.9	91.2	113.8	118.4
Lead and zinc ores	192.2	189.9	166.7	142.9	156.9	138.1	109.7	120.1	103.3	119.8	130.4
<b>Primary metals, manufacturing</b>	<b>115.2</b>	<b>107.2</b>	<b>110.8</b>	<b>117.5</b>	<b>83.2</b>	<b>91.0</b>	<b>102.4</b>	<b>101.8</b>	<b>93.8</b>	<b>110.3</b>	<b>109.2</b>
Nonferrous metals	77.1	75.3	92.5	96.2	79.6	84.9	98.2	98.5	97.3	105.4	109.0
Copper	135.2	103.0	94.7	113.7	82.5	85.6	97.0	99.8	99.1	113.5	115.5
Aluminum	107.8	105.2	138.7	134.2	97.9	100.1	122.2	104.7	90.9	117.6	120.8
Iron and steel	148.2	133.5	126.0	135.1	86.2	96.1	105.9	104.5	90.8	113.8	109.3

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.



## No. 1215. Mineral Industries—Summary: 1977 to 1987

["N.e.c." means not elsewhere classified. See also *Historical Statistics, Colonial Times to 1970*, series M1-12.]

MINERAL INDUSTRY	1977			1982			1987							Value of ship-ments and re-exports <sup>6</sup> (mil. dol.)	Capital ex-pen-ditures (mil. dol.)		
	Estab-lish-ments	All employ-ees, pay-rol <sup>1</sup> (mil. dol.)	Value added in min- <sup>2</sup> ing (mil. dol.)	Establishments	All employees		Establishments	All employees	Production workers <sup>4</sup>	Value added in min- <sup>2</sup> ing (mil. dol.)							
					With 20 or more employ-ees	Num-ber <sup>3</sup> (1,000)					Pay-rol <sup>1</sup> (mil. dol.)	With 20 or more employ-ees	Num-ber <sup>3</sup> (1,000)			Pay-rol <sup>1</sup> (mil. dol.)	Num-ber <sup>3</sup> (1,000)
All Industries.....	31,359	13,167	68,013	742,241	(NA)	28,637	186,056	33,617	6,299	698	21,739	451	942	12,443	110,959	157,964	15,418
Metal mining.....	1,206	1,485	3,504	1,434	(NA)	68	1,860	1,027	260	44	1,354	34	68	952	4,610	6,852	899
Iron ores.....	97	3	1,046	78	40	12	340	770	16	224	6	11	166	768	1,382	24	24
Copper ores.....	133	544	1,067	81	51	22	604	672	33	14	405	11	21	283	1,301	2,150	205
Lead and zinc ores.....	88	105	329	71	28	4	112	201	39	19	58	1	3	40	176	268	12
Gold and silver ores.....	175	71	161	371	80	10	263	650	372	101	423	10	21	305	1,814	2,261	555
Ferroalloy ores, except vanadium.....	56	107	256	69	18	5	150	146	58	10	46	1	2	24	61	110	8
Metal mining services.....	270	52	112	313	(NA)	3	61	90	268	42	81	2	5	60	176	251	26
Miscellaneous metal ores.....	387	234	533	451	91	12	332	686	178	4	116	3	5	75	313	449	70
Coal mining.....	5,451	4,171	11,266	5,087	(NA)	251	6,805	3,905	1,418	163	5,567	129	259	4,251	17,068	25,955	1,865
Bituminous coal and lignite mining.....	4,944	4,005	10,837	4,513	1,787	241	6,570	3,507	1,335	158	5,410	124	249	4,125	16,679	25,347	1,614
Anthracite mining.....	156	48	116	152	40	3	67	172	26	2	41	2	3	32	109	206	39
Coal mining services.....	351	119	313	422	(NA)	7	168	418	57	4	116	3	7	94	280	402	12
Oil and gas extraction.....	18,447	5,902	48,587	29,974	(NA)	685	17,693	10,203	3,167	378	11,961	206	437	5,283	80,049	112,363	11,717
Crude petroleum and natural gas.....	8,573	2,738	38,327	12,087	(NA)	264	8,084	10,303	1,170	199	7,510	69	142	2,154	67,955	76,518	10,549
Natural gas liquids.....	892	227	3,286	793	236	14	402	865	120	13	433	10	20	320	4,025	24,750	383
Oil and gas field services.....	9,182	2,936	6,974	17,094	(NA)	406	9,207	11,983	1,786	167	4,018	127	275	2,809	8,069	11,095	786
Drilling oil and gas wells.....	2,625	1,317	3,307	4,385	(NA)	166	4,007	2,591	620	55	1,318	46	93	1,012	2,549	3,626	321
Oil, gas exploratn serv's.....	1,252	420	545	2,934	(NA)	42	810	1,917	143	17	452	13	27	311	771	1,096	69
Oil, gas field services, n.e.c.....	5,305	1,389	3,122	9,775	(NA)	199	4,391	7,485	1,023	95	2,245	69	154	1,486	4,748	6,373	395
Nonmetallic minerals mining.....	6,525	1,609	4,656	5,746	(NA)	110	2,278	5,775	1,454	113	2,858	83	178	1,956	9,233	12,795	1,136
Dimension stone <sup>8</sup> .....	209	19	39	154	22	2	21	50	19	1	25	1	2	18	65	86	4
Crushed and broken stone <sup>9</sup> .....	2,055	543	1,501	1,932	567	37	701	2,002	71	44	1,082	33	72	754	3,465	4,768	521
Sand and gravel.....	2,807	418	1,017	2,758	343	28	520	2,320	436	33	772	24	51	551	2,320	3,139	238
Clay and related minerals <sup>9</sup> .....	255	136	358	224	97	11	212	510	197	10	272	7	15	165	827	1,472	111
Chemical and fertilizer minerals.....	205	372	1,433	196	114	26	681	100	79	16	501	12	24	336	1,999	2,742	192
Nonmetallic minerals, services.....	176	36	70	167	(NA)	3	35	70	23	5	45	1	3	32	119	165	25
Miscellaneous <sup>9</sup> .....	548	87	238	315	72	6	109	283	86	7	162	5	10	101	438	616	46

NA Not available. <sup>1</sup> Gross earnings paid to all employees on payroll. <sup>2</sup> Computed by subtracting cost of supplies, materials received for preparation, purchased fuel and electric energy, contract work, and purchased machinery from the value of shipments and capital expenditures. <sup>3</sup> Excludes proprietors and firm members of unincorporated concerns. <sup>4</sup> Represents employees up through the working "foreign" level engaged in manual work. Includes development and exploration workers. <sup>5</sup> Excludes paid vacations, holidays, and sick leave. Includes actual overtime hours (not straight-time equivalent). <sup>6</sup> Represents value of shipments of primary and secondary products of the industry and amount received for services performed for other establishments on a contract, fee, or other basis. <sup>7</sup> Redefined to conform to 1987 and pre-1982 definition of establishment; for detail, see source. <sup>8</sup> Excludes data for dimension stone quarries operated in conjunction with dressing plants. <sup>9</sup> Excludes data for mining included in establishments classified in manufacturing industries.

Source: U.S. Bureau of the Census, *Census of Mineral Industries: 1977, 1982, and 1987*, final industry series reports.

## No. 1216. Mineral Production and Value, 1980 to 1988,

[Data represent production as measured by mine shipments, mine sales, or marketable production]

	MINERAL	PRODUCTION QUANTITY							
		Unit	1980	1983	1984	1985	1986	1987	1988
1	Total mineral production	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
2	Mineral fuels	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
3	Coal: Bituminous and lignite	Mil. sh. ton.	824	778	892	879	886	915	947
4	Pennsylvania anthracite	Mil. sh. ton.	6	4	4	5	4	4	4
5	Natural gas (wet)	Tril. cu. ft.	20.18	16.82	18.23	17.20	16.79	17.35	17.81
6	Petroleum <sup>2</sup> (crude)	Mil. bbl. <sup>1</sup>	3,146	3,171	3,250	3,274	3,168	3,047	2,983
7	Uranium	Mil. lb.	43.7	21.2	14.9	11.3	13.5	13.0	13.1
8	Industrial minerals	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
9	Abrasive stone <sup>3</sup>	Sh. ton	631	1,101	1,290	1,157	(D)	12,773	14,675
10	Asbestos	1,000 metric ton	(NA)	(NA)	(NA)	57	51	51	51
11	Asphalt and related bitumens (native) <sup>4</sup>	1,000 sh. ton	1,252	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Barite	1,000 sh. ton	2,245	754	775	739	297	448	445
13	Boron minerals	1,000 sh. ton	1,545	1,303	1,367	1,269	1,251	1,385	1,267
14	Bromine	Mil. lb.	378	370	385	320	310	33	360
15	Calcium chloride	1,000 sh. ton	581	(D)	838	(D)	(D)	(D)	(D)
16	Carbon dioxide, natural (estimate)	Mil. cu. ft.	1,628	-	-	-	-	-	-
17	Cement: Portland	Mil. sh. ton.	71.6	67.2	74.4	74.3	75.2	74.9	74.1
18	Masonry	Mil. sh. ton.	3.0	2.9	3.3	3.2	3.5	3.7	3.6
19	Clays	Mil. sh. ton.	48.8	40.9	43.7	45.0	44.6	47.7	49.1
20	Diatomite	1,000 sh. ton	689	619	627	635	628	658	693
21	Feldspar	1,000 sh. ton	710	710	710	700	735	720	715
22	Fluorspar	1,000 sh. ton	93	61	72	66	78	69	(D)
23	Garnet (abrasive)	1,000 sh. ton	26.9	29.8	29.6	36.7	32.3	42.3	46.9
24	Gem stones (estimate)	(X)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
25	Gypsum	Mil. sh. ton.	12.4	12.9	14.3	14.4	15.4	15.6	13.4
26	Helium <sup>6</sup>	Mil. cu. ft.	1,458	1,299	1,642	1,865	1,941	2,230	2,574
27	Lime	Mil. sh. ton.	19.0	14.9	15.9	15.7	14.5	15.7	17.3
28	Magnesium compounds <sup>7</sup>	1,000 sh. ton	(D)	618	(D)	(D)	(D)	(D)	(D)
29	Mica: Scrap	1,000 sh. ton	116	140	161	138	148	161	143
30	Peat	1,000 sh. ton	788	725	814	882	1,038	958	929
31	Perlite	1,000 sh. ton	638	474	498	507	507	533	576
32	Phosphate rock	Mil. metric ton.	(NA)	(NA)	(NA)	50.8	40.3	41.0	45.4
33	Potassium salts (K <sub>2</sub> O equivalent)	1,000 metric ton	(NA)	(NA)	(NA)	1,266	1,147	1,485	1,427
34	Pumice	1,000 sh. ton	543	449	502	508	554	392	389
35	Pyrites	1,000 lg. ton	834	(D)	(D)	(D)	(D)	(D)	(D)
36	Salt (common)	Mil. sh. ton.	40.4	34.6	39.2	40.1	36.7	36.5	38.0
37	Sand and gravel	Mil. sh. ton.	793	682	803	830	910	924	952
38	Sodium carbonate (natural)	1,000 sh. ton	(D)	(D)	(D)	(D)	(D)	(D)	9,632
39	Sodium sulfate (natural)	1,000 sh. ton	583	423	435	389	396	382	398
40	Stone <sup>8</sup>	Mil. sh. ton.	982	863	957	1,002	1,024	1,201	1,249
41	Sulfur: Frasch mines (shipments)	1,000 metric ton	(NA)	(NA)	(NA)	4,678	4,180	3,610	4,341
42	Talc, soapstone, pyrophyllite	1,000 sh. ton	1,473	1,066	1,127	1,269	1,302	1,282	1,377
43	Tripoli	1,000 sh. ton	121	111	124	(D)	117	115	110
44	Vermiculite	1,000 sh. ton	337	282	315	314	317	303	304
45	Nonmetallic minerals, undistributed <sup>9</sup>	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
46	Metals	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
47	Antimony ore and concentrate	Metric ton <sup>10</sup>	311	760	505	(D)	(D)	(D)	(D)
48	Bauxite (dried)	1,000 metric ton <sup>12</sup>	1,559	679	856	674	510	576	588
49	Copper <sup>2</sup>	1,000 metric ton	1,181	1,038	1,103	1,106	1,147	1,244	1,420
50	Gold <sup>2</sup>	1,000 troy oz.	970	2,003	2,085	2,427	3,739	4,947	6,460
51	Iron ore, <sup>13</sup>	Mil. metric tons <sup>14</sup>	70.7	45.3	51.7	50.2	42.0	48.0	57.1
52	Lead <sup>2</sup>	1,000 metric ton	550	449	322	414	340	311	385
53	Manganiferous ore <sup>15</sup>	1,000 sh. ton <sup>14</sup>	174	34	88	20	14	(D)	(D)
54	Mercury	76 lb. flasks	30,657	25,070	19,048	16,530	(D)	(D)	(D)
55	Molybdenum <sup>16</sup>	Mil. lb.	149	49	102	112	95	70	100
56	Nickel <sup>17</sup>	1,000 sh. ton	11	(NA)	10	6	2	-	-
57	Silver <sup>2</sup>	Mil. troy oz.	32.3	43.4	44.6	39.4	34.5	39.9	53.4
58	Titanium concentrate: Ilmenite <sup>2</sup>	1,000 metric ton <sup>14</sup>	539	(D)	(D)	(D)	(D)	(D)	(D)
59	Tungsten ore and concentrate	Metric ton <sup>18</sup>	(NA)	(NA)	(NA)	983	817	(D)	(D)
60	Vanadium <sup>2</sup>	Sh. ton	4,806	2,171	1,617	(D)	(D)	(D)	(D)
61	Zinc mine production <sup>2</sup>	1,000 metric ton	317	275	253	227	203	216	244
62	Metals, undistributed <sup>9</sup>	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)

- Represents zero. D Withheld to avoid disclosing individual company data. NA Not available. X Not applicable. <sup>1</sup> 42 gal. bbl. <sup>2</sup> Recoverable content of ores, etc. <sup>3</sup> Crude production. Grindstones, pulpstones, millstones, grinding pebbles, sharpening stones, and tubemill liners. <sup>4</sup> Contains bituminous limestone and sandstone, and gilsonite. <sup>5</sup> Value included in "Industrial minerals, undistributed." <sup>6</sup> 1980, crude and refined; thereafter, refined only. <sup>7</sup> From sea water and brines, except for metals (M<sub>2</sub>O equiv.). <sup>8</sup> Excludes abrasive stone, bituminous limestone and sandstone, and ground soapstone, all included elsewhere in table. Includes calcareous marl and slate.

## and Principal Producing States, 1988

(including consumption by producers). See *Historical Statistics, Colonial Times to 1970*, series M 13-37 for selected values]

PRODUCTION VALUE (mil.dol.)							Principal producing States ranked by quantity, 1988	
1980	1983	1984	1985	1986	1987	1988		
146,750	168,868.4	179,201.0	167,978.5	117,265.7	123,808.2	(X)	(X)	1
<b>121,616.0</b>	<b>147,748.4</b>	<b>156,040.0</b>	<b>144,671.5</b>	<b>93,801.7</b>	<b>97,462.2</b>	<b>88,897.2</b>	(X)	2
20,200	20,110.0	22,749.8	22,062.9	21,000.6	21,049.6	20,830.0	WY, KY, WV, PA, IL	3
260	210.0	202.5	215.3	189.6	155.4	157.0	PA	4
32,090	43,570.0	48,491.8	43,167.0	32,574.5	28,888.6	30,096.0	TX, LA, OK, NM.	5
67,930	83,050.0	84,110.0	78,870.7	39,631.7	46,929.6	37,477.4	AK, TX, CA, LA, OK.	6
1,136	808.4	485.9	355.6	405.3	355.5	336.8	WY, NM, TX.	7
<b>16,213.0</b>	<b>15,263.0</b>	<b>17,157.0</b>	<b>17,678.0</b>	<b>17,847.0</b>	<b>18,894.0</b>	<b>19,803.0</b>	(X)	8
1.9	0.5	0.6	0.5	(D)	1.0	1.1	OH, AR, IN, WI.	9
30.6	27.9	24.2	20.5	17.4	17.2	(D)	CA and VT.	10
25	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	(NA)	(NA)	(NA)	(NA)	11
66	29.2	25.4	21.5	12.3	15.8	15.5	NV, GA, MO, CA.	12
366.8	439.2	456.7	404.8	426.1	475.1	429.7	CA.	13
95.4	91.0	95.0	80.0	93.0	107.0	144.0	AR and MI.	14
47.9	( <sup>5</sup> )	93.0	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	MI, CA, WA.	15
2.6	-	-	-	(NA)	(NA)	(NA)	(X)	16
3,613.3	3,315.7	3,810.4	3,817.3	3,759.9	3,646.6	3,575.9	CA, TX, PA, MI.	17
188.5	186.2	219.9	213.1	231.6	259.9	243.9	FL, IN, PA, AL	18
898.9	931.1	1,032.1	1,011.4	1,095.2	1,202.3	1,400.8	GA, OH, NC, TX.	19
100.6	114.3	120.9	127.0	128.4	134.2	143.8	CA, NV, WA, OR.	20
23.2	22.5	23.5	22.8	26.1	26.1	28.1	NC, CT, CA, GA.	21
12.6	10.0	( <sup>5</sup> )	(D)	(D)	11.7	(D)	IL and NV.	22
1.9	2.5	2.5	3.0	2.6	4.4	4.7	ID, NY, ME.	23
6.9	7.4	7.5	7.4	9.2	21.4	43.5	(X)	24
103.1	101.4	113.7	111.8	99.6	107.0	109.2	OK, IA, MI, TX.	25
30.2	45.5	61.6	69.9	72.8	82.5	95.2	KS, WY, TX, NM.	26
842.9	757.6	811.2	809.0	757.9	786.1	828.0	OH, MO, PA, KY.	27
( <sup>5</sup> )	182.5	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	MI, CA, UT, DE.	28
6.3	6.5	7.1	6.3	7.1	8.2	6.8	NC, SD, GA, SC.	29
16.2	18.7	19.9	21.9	24.0	21.0	19.9	MI, FL, IN, IL	30
16.5	15.7	16.6	17.2	15.6	16.5	17.7	NM, AZ, CA, ID.	31
1,256.9	1,021.1	1,182.2	1,235.8	897.1	793.3	887.8	FL, NC, ID, UT.	32
(NA)	(NA)	(NA)	178.4	152.0	195.7	240.3	NM, UT, CA.	33
4.3	4.5	4.9	4.6	5.8	4.5	4.1	OR, NM, ID, CA.	34
13.8	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	AZ.	35
656.2	597.1	675.1	739.6	665.4	684.2	680.2	LA, TX, NY, OH.	36
2,289.0	2,270.2	2,621.2	2,812.1	3,106.5	3,366.6	3,514.0	CA, TX, MI, AZ.	37
( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	593.7	645.0	WY and CA.	38
36.4	39.4	40.1	35.9	34.1	33.1	31.4	CA, TX, UT.	39
3,393.5	3,474.8	3,917.5	4,225.4	4,228.3	5,438.8	5,754.3	PA, FL, TX, VA.	40
720.5	414.2	546.1	573.6	508.5	386.8	430.8	TX and LA.	41
25.6	20.3	23.2	29.2	31.2	28.9	29.4	MT, VT, TX, NY.	42
0.7	0.7	(D)	(D)	0.9	1.0	0.9	IL, OK, AR, PA.	43
23.5	27.2	31.5	32.4	34.4	33.9	33.9	SC, MT, VA.	44
941.2	867.5	937.9	1,046.0	994.4	374.8	442.6	(X)	45
<b>8,921.0</b>	<b>5,857.0</b>	<b>6,004.0</b>	<b>5,629.0</b>	<b>5,824.0</b>	<b>7,423.0</b>	<b>10,219.0</b>	(X)	46
( <sup>11</sup> )	( <sup>11</sup> )	( <sup>11</sup> )	( <sup>11</sup> )	( <sup>11</sup> )	(NA)	(NA)	(X)	47
22.4	11.3	15.6	12.9	10.4	10.9	10.6	AR, AL, GA.	48
2,666.9	1,751.5	1,625.1	1,632.5	1,670.7	2,261.8	3,771.6	AZ, NM, VT, MT.	49
594.1	849.1	751.8	771.0	1,376.9	2,216.0	2,831.3	NV, CA, SD, UT.	50
2,544.1	1,945.0	2,247.7	2,076.7	1,472.5	1,503.1	1,716.7	MN, MI, MO, UT.	51
515.2	214.7	181.7	174.0	165.2	246.7	315.2	MO, ID, CO, MT.	52
2.4	0.2	0.9	(D)	(D)	(D)	(D)	SC.	53
11.9	( <sup>11</sup> )	( <sup>11</sup> )	(D)	(D)	(D)	(D)	NV, UT, CA.	54
1,344.2	166.6	326.8	347.8	240.5	179.3	266.9	AZ, CO, MT, VT.	55
( <sup>11</sup> )	-	( <sup>11</sup> )	(D)	(D)	-	-	(X)	56
667.3	496.9	363.0	242.2	188.8	279.7	349.3	NV, ID, MT, AZ.	57
32	( <sup>11</sup> )	( <sup>11</sup> )	( <sup>11</sup> )	( <sup>11</sup> )	( <sup>11</sup> )	( <sup>11</sup> )	FL.	58
50.6	10.5	13.4	9.1	5.8	(D)	(D)	CA.	59
64.4	30.7	( <sup>11</sup> )	( <sup>11</sup> )	( <sup>11</sup> )	( <sup>11</sup> )	( <sup>11</sup> )	ID, CO, UT.	60
261.7	251.2	270.8	201.6	170.1	199.9	324.2	TN, NY, MO, MT.	61
144.8	135.6	2,428.0	2,234.9	1,562.6	1,636.7	159.4	(X)	62

<sup>9</sup> Comprises value of items that cannot be disclosed. <sup>10</sup> Antimony content. <sup>11</sup> Included with "Metals, undistributed."  
<sup>12</sup> Dried equivalent. <sup>13</sup> Represents shipments; includes byproduct ores. <sup>14</sup> Gross weight. <sup>15</sup> 5 to 35 percent manganiferous ore. <sup>16</sup> Content of concentrate. <sup>17</sup> Content of ore and concentrate. <sup>18</sup> Tungsten content.

Source: U.S. Bureau of Mines, *Minerals Yearbook*. Mineral fuels: U.S. Energy Information Administration, *Annual Energy Review*, *Uranium Industry Annual*, *Petroleum Supply Annual*, vol. 1; *Natural Gas Annual*; and *Quarterly Coal Report*.

## No. 1217. Nonfuel Mineral Commodities—Summary: 1989

[Preliminary estimates]

MINERAL	MINERAL DISPOSITION					Average price per unit (dollars)	Employment (number)
	Unit	Production	Exports	Net import reliance <sup>1</sup> (percent)	Consumption, apparent		
Aluminum	1,000 metric ton	5,100	1,500	( <sup>2</sup> )	5,100	<sup>3</sup> 89.0	23,600
Antimony	Metric ton	<sup>4</sup> 37,600	2,600	60	39,500	<sup>5</sup> 99.0	100
Arsenic	Metric ton	-	(NA)	100	24,000	<sup>6</sup> 243.0	(NA)
Asbestos	1,000 metric ton	17	23	65	48	(D)	58
Barite	1,000 sh. ton	387	9	77	1,678	40.91	400
Bauxite	1,000 metric ton	615	60	97	4,800	15-20	50
Beryllium	Metric ton	205	20	23	260	<sup>7</sup> 225	425
Bismuth	Metric ton	(D)	120	(D)	7,400	5.56	30
Boron (B <sub>2</sub> O <sub>3</sub> content)	1,000 sh. ton	620	700	( <sup>2</sup> )	286	247	1,100
Bromine	Mil. lb.	380	28	( <sup>2</sup> )	376	<sup>8</sup> 43-46	300
Cadmium	Metric ton	1,750	500	( <sup>2</sup> )	4,000	<sup>9</sup> 6.35	190
Cement	1,000 sh. ton	77,800	500	17	92,000	50.00	19,900
Cesium	Kilograms	(D)	(NA)	100	(NA)	<sup>10</sup> 275-325	25
Chromium	1,000 metric ton <sup>11</sup>	113	16	79	540	<sup>11</sup> 200	-
Clays	1,000 sh. ton	50,220	4,000	( <sup>2</sup> )	46,250	-	11,200
Columbium	1,000 lb.	-	90	100	7,600	<sup>12</sup> 2.65	450
Copper (Mine)	1,000 metric ton	3,480	640	9	2,250	<sup>13</sup> 32.0	13,000
Diamond (industrial)	Mil. carats	97.3	70.0	( <sup>2</sup> )	82.9	<sup>14</sup> 1.00	-
Diatomite	1,000 sh. ton	695	162	( <sup>2</sup> )	534	36	1,000
Feldspar	1,000 sh. ton	730	12	( <sup>2</sup> )	731	37.00	450
Fluorspar	1,000 sh. ton	170	3	91	760	-	180
Gallium	Kilograms	-	(NA)	(NA)	(NA)	525	20
Garnet (industrial)	Sh. ton	43,920	8,800	( <sup>2</sup> )	40,070	60-2,000	150
Gem stones	Mil. dol.	59.7	1,178	99	4,430	( <sup>15</sup> )	800
Germanium	Kilograms	20,000	(NA)	(NA)	36,000	1,060	(NA)
Gold (gold content)	Metric tons	5,800	190.0	(NA)	130.0	<sup>16</sup> 385.00	15,000
Graphite	1,000 sh. ton	(D)	9	(D)	(D)	<sup>17</sup> 720	(D)
Gypsum	1,000 sh. ton	35,000	160	37	27,000	7.00	6,800
Indium	Kilograms	(NA)	(NA)	(NA)	25,000	<sup>18</sup> 8.72	(NA)
Iodine	1,000 lb.	2,900	4.7	56	8,500	8.62	50
Iron ore	Mil. metric ton	58.7	5.5	20	72.8	<sup>19</sup> 58.0-74.0	7,400
Iron and steel scrap	Mil. sh. ton	84.5	11.8	( <sup>2</sup> )	73.8	108.66	110,000
Iron and steel slag	1,000 sh. ton	22,000	300	(NA)	(NA)	5.50	3,000
Lead	1,000 metric ton	845	60	8	1,210	<sup>20</sup> 40.0	4,300
Lime	1,000 sh. ton	17,100	32	1	17,254	48.00	5,500
Magnesium metal	1,000 metric ton	150	57	( <sup>2</sup> )	135	<sup>21</sup> 1.63	450
Magnesium compounds	1,000 metric ton	625	20	20	780	-	650
Manganese	1,000 sh. ton	-	85	100	740	2.85	-
Mercury	Metric ton	170	250	(D)	(D)	<sup>22</sup> 285.00	20
Mica, scrap and flake	1,000 sh. ton	258	6	7	127	47.00	80
Molybdenum	1,000 lb.	140,000	95,000	( <sup>2</sup> )	51,000	3.65	1,300
Nickel	Sh. ton	750	27,500	65	160,000	6.30	250
Nitrogen	1,000 sh. ton	13,800	600	14	16,120	85.00	2,500
Peat	1,000 sh. ton	870	-	41	1,463	21.00	720
Perlite	1,000 sh. ton	589	25	4	614	31.06	125
Phosphate rock	1,000 metric ton	51,000	9,000	( <sup>2</sup> )	42,700	19.50	6,000
Platinum-group metals	Kilograms	51,010	23,800	94	70,300	510.00	400
Potash	1,000 metric ton	1,540	400	72	5,480	130.00	1,820
Pumice and pumicite	1,000 sh. ton	396	3	43	693	13.37	55
Rare-earth metals	Metric ton	14,000	(NA)	(NA)	(NA)	<sup>23</sup> 20-20	330
Salt	1,000 sh. ton	39,400	1,300	8	42,800	<sup>24</sup> 93.50	4,200
Sand and gravel:							
Construction	1,000 sh. ton	888,000	1,000	( <sup>2</sup> )	887,400	3.64	35,500
Industrial	1,000 sh. ton	28,300	900	( <sup>2</sup> )	27,500	13.60	1,600
Silicon	1,000 sh. ton	470	35	23	609	51.40	2,700
Silver	Metric ton	4,260	1,060	( <sup>2</sup> )	310	<sup>25</sup> 5.55	2,300
Sodium carbonate	1,000 sh. ton	9,775	2,700	( <sup>2</sup> )	7,219	93.00	2,800
Sodium sulfate	1,000 sh. ton	800	60	16	949	117.00	300
Stone (crushed)	Mil. sh. ton	1,220	3	-	1,221	4.38	69,000
Sulfur (all forms)	1,000 metric ton	11,725	850	8	12,725	88.00	3,300

- Represents or rounds to zero. D Withheld to avoid disclosure. NA Not available. <sup>1</sup> Net import reliance as a percent of consumption. <sup>2</sup> Net exporter. <sup>3</sup> Average cents per pound. <sup>4</sup> Refinery production. <sup>5</sup> Metal, 99% As<sub>2</sub>O<sub>3</sub>. <sup>6</sup> Metal, vacuum-cast ingot. <sup>7</sup> Reported consumption. <sup>8</sup> Average dollars per pound, 1 to 5 short ton lots. <sup>9</sup> Metal, dollars per pound. <sup>10</sup> Secondary production. <sup>11</sup> Turkish, dollars per metric ton. <sup>12</sup> Columbite, dollars per pound. <sup>13</sup> Domestic producer cathode, cents per pound. <sup>14</sup> Dollars, per carat. <sup>15</sup> Variable, depending on size, type and quality. <sup>16</sup> Dollars, per ounce. <sup>17</sup> Flake. <sup>18</sup> Dollars, per troy oz. <sup>19</sup> Cents per long ton. <sup>20</sup> Primary. <sup>21</sup> Dollars per pound. <sup>22</sup> Prices per flask. <sup>23</sup> Represents range of values. <sup>24</sup> Vacuum and open pit.

Source: U.S. Bureau of Mines, *Mineral Commodity Summaries*, annual.

## No. 1218. Value of Domestic Nonfuel Mineral Production: 1980 to 1988

(In millions of dollars. For composition of regions see fig. 1, inside front cover)

STATE	1980	1985	1986	1987	1988	Principal minerals in order of value
U.S. ....	25,141	23,303	23,459	26,306	30,015	(X)
AL .....	328	407	405	447	459	Cement, crushed stone, lime.
AK .....	115	90	91	141	119	Gold, sand and gravel, crushed stone.
AZ .....	2,471	1,550	1,560	1,750	2,773	Copper, molybdenum, sand and gravel.
AR .....	293	270	283	264	307	Bromine, crushed stone, cement.
CA .....	1,872	2,112	2,269	2,551	2,709	Sand and gravel, cement, boron minerals.
CO .....	1,265	408	370	373	364	Molybdenum, gold, sand and gravel.
CT .....	66	72	80	122	118	Crushed stone, sand and gravel, feldspar.
DE .....	2	4	4	6	6	Magnesium compounds, sand and gravel, marl.
FL .....	1,509	1,562	1,290	1,346	1,392	Phosphate rock, crushed stone, cement.
GA .....	771	946	1,091	1,212	1,374	Clays, crushed stone, cement.
HI .....	60	53	70	73	75	Crushed stone, cement, sand and gravel.
ID .....	522	359	274	269	291	Phosphate rock, silver, gold.
IL .....	443	460	470	517	588	Crushed stone, cement, sand and gravel.
IN .....	288	303	305	364	406	Crushed stone, cement, sand and gravel.
IA .....	252	228	249	305	290	Crushed stone, cement, sand and gravel.
KS .....	262	322	318	320	292	Cement, crushed stone, salt.
KY .....	204	268	267	290	345	Lime, cement, sand and gravel.
LA .....	584	521	447	424	435	Sulfur (Frasch), salt, sand and gravel.
ME .....	37	41	53	65	68	Sand and gravel, cement, dimension stone.
MD .....	186	258	313	345	363	Crushed stone, sand and gravel, cement.
MA .....	91	117	134	177	192	Crushed stone, sand and gravel, dimension stone.
MI .....	1,485	1,387	1,240	1,366	1,588	Iron ore, cement, sand and gravel.
MN .....	1,782	1,548	1,128	1,143	1,267	Iron ore, sand and gravel, crushed stone.
MS .....	104	103	101	110	103	Sand and gravel, clays, cement.
MO .....	1,055	735	749	863	968	Lead, cement, crushed stone.
MT .....	280	200	238	368	548	Copper, gold platinum - group metals.
NE .....	80	100	94	90	91	Cement, sand and gravel, crushed stone.
NV .....	394	631	977	1,447	1,945	Gold, silver, sand and gravel.
NH .....	25	33	39	55	53	Sand and gravel, dimension stone, crushed stone.
NJ .....	149	178	186	214	242	Crushed stone, sand and gravel, zircon concentrates.
NM .....	766	657	612	738	1,019	Copper, potassium salts, sand and gravel.
NY .....	496	657	678	650	696	Crushed stone, cement, salt.
NC .....	380	466	467	477	529	Crushed stone, phosphate rock, lithium minerals.
ND .....	22	24	21	26	19	Sand and gravel, lime, salt.
OH .....	562	594	610	769	737	Crushed stone, sand and gravel, salt.
OK .....	224	252	247	223	220	Crushed stone, cement, sand and gravel.
OR .....	152	130	126	161	178	Crushed stone, sand and gravel, cement.
PA .....	668	804	843	1,016	1,042	Crushed stone, cement, sand and gravel.
RI .....	6	12	14	119	117	Crushed stone, sand and gravel, gem stones.
SC .....	195	276	296	341	358	Cement, crushed stone, clays.
SD .....	228	208	233	263	286	Gold, cement, crushed stone.
TN .....	394	473	476	528	586	Crushed stone, zinc, cement.
TX .....	1,735	1,737	1,712	1,431	1,469	Cement, crushed stone, magnesium metal.
UT .....	764	313	374	700	1,015	Copper, gold, magnesium metal.
VT .....	43	50	55	73	77	Dimension stone, crushed stone, sand and gravel.
VA .....	305	381	393	461	495	Crushed stone, sand and gravel, cement.
WA .....	207	222	377	438	459	Magnesium metal, gold, sand and gravel.
WV .....	106	105	130	144	127	Crushed stone, cement, sand and gravel.
WI .....	152	125	165	186	205	Crushed stone, sand and gravel, lime.
WY .....	761	551	555	645	710	Natural sodium carbonate, clays, grade-A helium.

X Not applicable. <sup>1</sup> Partial data only.Source: U.S. Bureau of the Census. Compiled from data from U.S. Bureau of Mines, *Minerals Yearbook*, annual.

**No. 1219. Mineral Industries—Gross Assets and Capital Expenditures: 1972 to 1987**

[In millions of dollars]

INDUSTRY AND YEAR	END OF YEAR GROSS VALUE OF DEPRECIABLE ASSETS					CAPITAL EXPENDITURES					
	Total <sup>1</sup>	Buildings and other structures	Machinery and equipment	Mineral exploration and development <sup>1</sup>	Mineral land and rights <sup>1</sup>	Total <sup>2</sup>	New buildings and other structures	New machinery and equipment	Used buildings and other structures	Used machinery and equipment	Mineral exploration and development <sup>2</sup>
Mineral industries: <sup>3</sup>											
1972 . . . . .	21,690	4,244	15,038	( <sup>4</sup> )	4,209	2,802	317	1,407	( <sup>4</sup> )	4128	230
1977 . . . . .	44,664	6,099	33,068	2,825	2,871	6,802	785	5,068	30	399	520
1982 . . . . .	94,613	10,228	73,419	5,036	5,930	13,472	1,229	10,551	78	937	677
1987 . . . . .	84,286	9,314	64,143	5,034	5,795	4,869	349	3,234	88	797	401
Crude oil, nat. gas:											
1972 . . . . .	47,500	(NA)	(NA)	(NA)	(NA)	2,954	403	842	( <sup>4</sup> )	44	1,666
1977 . . . . .	94,414	(NA)	(NA)	(NA)	(NA)	10,916	571	2,269	14	93	7,969
1982 . . . . .	233,052	(NA)	(NA)	(NA)	(NA)	34,281	1,967	5,550	20	215	26,529
1987 . . . . .	(NA)	(NA)	(NA)	(NA)	(NA)	10,549	590	3,176	18	218	6,548

NA Not available. <sup>1</sup> Excludes data for mineral exploration and development, and mineral land and rights portions for mining service industries and natural gas liquids industry. <sup>2</sup> Excludes data for mineral exploration and development portion for mining service industries and natural gas liquids industry. <sup>3</sup> Excludes crude petroleum and natural gas. <sup>4</sup> Not collected separately. Data for mineral exploration and development are combined with mineral land and rights. Data for used buildings and other structures are combined with used machinery and equipment.

Source: U.S. Bureau of the Census, *Census of Mineral Industries, 1987*.**No. 1220. Mineral Industries—Employment, Hours, and Earnings: 1985 to 1989**

ITEM	Unit	1985	1987	1988	1989	ITEM	Unit	1985	1987	1988	1989
All mining:						Avg. weekly hours . .	No . . .	44.2	41.7	41.3	42
All employees . . . . .	1,000	927	717	713	700	Avg. weekly earnings . .	Dol . . .	489	481	489	524
Production workers . . . . .	1,000	658	511	512	499	Metal mining:					
Avg. weekly hours . . . . .	No . . .	43.4	42.4	42.3	43.0	All employees . . . . .	1,000	46	44	50	57
Avg. weekly earnings . . . . .	Dol . . .	520	532	541	570	Production workers . . . . .	1,000	34	33	39	45
Coal mining:						Avg. weekly hours . . . . .	No . . .	40.9	41.9	42.3	42.8
All employees . . . . .	1,000	187	162	151	146	Avg. weekly earnings . . . . .	Dol . . .	547	542	560	582
Production workers . . . . .	1,000	153	132	123	118	Nonmetallic minerals, except fuels:					
Avg. weekly hours . . . . .	No . . .	41.3	42.2	42.2	43.4	All employees . . . . .	1,000	110	110	112	112
Avg. weekly earnings . . . . .	Dol . . .	626	662	676	705	Production workers . . . . .	1,000	84	85	85	85
Oil and gas extraction:						Avg. weekly hours . . . . .	No . . .	44.5	45.4	45.5	45.7
All employees . . . . .	1,000	583	402	401	386	Avg. weekly earnings . . . . .	Dol . . .	453	481	498	514
Production workers . . . . .	1,000	387	261	265	252						

Source: U.S. Bureau of Labor Statistics, *Bulletin 2370 and Employment and Earnings*, monthly.**No. 1221. Selected Mineral Products—Average Prices: 1970 to 1989**

[Excludes Alaska and Hawaii, except as noted. See *Historical Statistics, Colonial Times to 1970*, series M 96, M 139, M 209, M 248, and M 262, for bituminous coal, crude petroleum, iron ore, lead, and aluminum, respectively]

YEAR	Tantalum (dol. per lb.) <sup>1</sup>	Copper, electrolytic (cents per lb.)	Platinum (dol./ troy oz.) <sup>3</sup>	Gold (dol./ fine oz.)	Silver (dol./ fine oz.)	Lead <sup>4</sup> (cents per lb.)	Tin (New York) <sup>5</sup> (cents per lb.)	Zinc <sup>6</sup> (cents per lb.)	Sulfur, crude (dol./ metric ton)	Bituminous coal <sup>8</sup> (dol./ short ton)	Crude petroleum <sup>9</sup> (dol./ bbl.)	Natural gas <sup>1</sup> (dol./ 1,000 cu. ft.)
1970 . . . . .	9.15	58.2	133	36	1.77	15.7	174.2	15.3	922.77	6.26	3.18	0.17
1975 . . . . .	18.32	64.2	164	161	4.42	21.5	339.8	39.0	944.91	19.23	7.67	0.45
1976 . . . . .	20.31	69.6	162	125	4.35	23.1	379.8	37.1	945.72	19.43	8.19	0.58
1977 . . . . .	25.64	66.8	162	148	4.62	30.7	534.6	34.4	944.38	19.82	8.57	0.79
1978 . . . . .	34.19	66.5	237	194	5.40	33.7	629.6	31.0	45.17	21.78	9.00	0.91
1979 . . . . .	80.00	93.3	352	308	11.09	52.6	753.9	37.3	55.75	23.65	12.64	1.18
1980 . . . . .	126.37	101.3	439	613	20.64	42.5	846.0	37.4	89.06	24.52	21.59	1.59
1981 . . . . .	99.51	84.2	475	460	10.52	36.5	733.0	44.6	111.48	26.29	31.77	1.98
1982 . . . . .	49.95	72.8	475	376	7.95	25.5	653.9	38.5	108.27	27.14	28.52	2.46
1983 . . . . .	30.60	76.5	475	424	11.44	21.7	654.8	41.4	87.24	25.85	26.19	2.59
1984 . . . . .	37.44	66.8	475	361	8.14	25.6	623.8	48.6	94.31	25.51	25.88	2.66
1985 . . . . .	33.68	67.0	475	318	6.14	19.1	596.0	40.4	106.46	25.10	24.09	2.51
1986 . . . . .	23.74	66.1	519	368	5.47	22.1	383.2	38.0	105.22	23.70	12.51	1.94
1987 . . . . .	27.08	82.5	600	448	7.01	35.9	418.8	41.9	89.78	23.00	15.40	1.67
1988 . . . . .	47.37	120.5	600	438	6.54	37.1	441.4	60.2	85.95	22.00	12.58	1.69
1989, prel. . . . .	44.93	132.0	600	385	5.55	40.0	536.0	83.0	88.0	21.00	15.85	1.71

<sup>1</sup> Dollars per pound of tantalum content. <sup>2</sup> Domestic market. <sup>3</sup> Average annual producer prices. <sup>4</sup> 1970, New York prices, beginning 1975, nationwide delivered basis. <sup>5</sup> Straits tin through 1975; thereafter, composite price. <sup>6</sup> Prime western. Beginning 1975, delivered price. <sup>7</sup> F.O.B. works. <sup>8</sup> Average value at the point of production. Source: U.S. Energy Information Administration, *Annual Energy Review*. <sup>9</sup> Per long ton.

Source: Except as noted, U.S. Bureau of Mines, *Mineral Facts and Problems*, 1980 edition, and *Mineral Commodity Summaries*, annual.

### No. 1222. Principal Fuels, Nonmetals, and Metals—U.S. Production as Percent of World Production: 1980 to 1988

MINERAL	WORLD PRODUCTION					PERCENT U.S. OF WORLD			
	Unit	1980	1985	1987	1988	1980	1985	1987	1988
<b>Fuels:</b> <sup>1</sup>									
Coal	Bil. sh. ton	4.2	4.8	5.1	5.2	20	18	18	18
Petroleum (crude)	Bil. bbl	21.7	19.6	20.6	21.4	15	17	15	14
Natural gas (dry, marketable)	Tril. cu. ft	53.1	62.0	66.2	67.7	37	26	25	25
Natural gas plant liquids	Bil. bbl	1.4	1.5	1.7	1.8	43	38	34	34
<b>Nonmetals:</b>									
Asbestos	Mil. metric ton	5	4	4	4	2	1	1	(Z)
Barite	Mil. short ton	8.3	6.6	5.1	5.8	27	11	9	8
Feldspar	Mil. short ton	3.5	4.5	4.5	4.7	20	16	15	15
Fluorspar	Mil. short ton	5.3	5.4	5.2	5.7	2	1	1	1
Gypsum	Mil. short ton	86.5	94.3	98.9	104.9	13	15	16	16
Mica (incl. scrap)	1,000 short ton	251.0	280.0	327.0	263.0	46	49	50	48
Nitrogen, agricultural <sup>2</sup>	Mil. short ton	81.4	98.9	102.7	109.0	20	13	13	13
Phosphate rock	Mil. metric ton	139	149	145	164	39	34	28	28
Potash	Mil. metric ton	28	29	30	31	8	4	4	5
Sulfur, elemental	Mil. metric ton	55	54	54	58	22	21	19	18
<b>Metals, mine basis:</b>									
Bauxite	Mil. metric ton	89	85	90	98	2	1	1	1
Columbian concentrates (columbian content)	Mil. lb.	33.4	32.7	20.6	37.0	-	-	-	-
Copper <sup>3</sup>	Mil. metric ton	8	8	8	9	15	14	15	17
Gold	Mil. troy oz	39.2	49.2	53.3	59.4	2	5	9	11
Iron ore	Mil. metric ton	891	861	889	905	8	6	5	6
Lead <sup>3</sup>	1,000 metric ton	4	3	3	3	16	12	9	12
Mercury	1,000 flasks <sup>4</sup>	197	178	169	171	16	8	(NA)	(NA)
Molybdenum <sup>3</sup>	Mil. lb.	242	217	197	208	62	50	38	45
Nickel <sup>3</sup>	1,000 short ton	859	896	910	961	2	(Z)	-	-
Silver	Mil. troy oz	344	420	442	455	9	9	9	12
Tantalum concentrates (tantalum content)	Mil. lb.	1.2	0.7	0.6	0.8	-	-	-	-
<b>Titanium concentrates:</b>									
Ilmenite	Mil. short ton	4.1	3.4	3.9	4.0	14	(NA)	(NA)	(NA)
Tungsten	1,000 metric ton	52	47	42	43	5	2	(Z)	(NA)
Vanadium <sup>3</sup>	1,000 short ton	38.3	33.3	31.3	33.7	13	(NA)	(NA)	(NA)
Zinc <sup>3</sup>	Mil. metric ton	6	7	7	7	5	4	3	4
<b>Metals, smelter basis:</b>									
Aluminum	1,000 metric ton	15	15	16	18	30	23	20	23
Cadmium	Metric ton	40	42	42	41	9	9	8	10
Copper	Mil. metric ton	8	9	9	9	13	14	14	15
Iron, pig (incl. ferroalloys)	Mil. short ton	565	572	583	611	12	9	9	9
Lead	1,000 metric ton	5	6	6	6	23	20	19	20
Magnesium	1,000 short ton	348	362	324	334	49	41	38	42
Steel ingots and castings	Mil. short ton	787	790	808	806	14	11	11	12
Tin	1,000 metric ton	249	198	189	215	1	2	2	1
Zinc	1,000 metric ton	6	7	7	7	6	5	5	5

- Represents zero. NA Not available. Z Less than half the unit of measure. <sup>1</sup> Source: Energy Information Administration, *International Energy Annual*. <sup>2</sup> For fiscal years ending in year shown; see text, section 9. U.S. production includes Puerto Rico. <sup>3</sup> Content of ore and concentrate. <sup>4</sup> 76-lb. flasks.

Source: Except as noted, U.S. Bureau of Mines, *Minerals Yearbook*, annual.

### No. 1223. Federal Strategic and Critical Materials Inventory: 1980 to 1989

[As of Dec. 31. Covers strategic and critical materials essential to military and industrial requirements in time of national emergency. Market values are estimated current trade values of similar materials and not necessarily amounts that would be realized at time of sale]

MINERAL	QUANTITY <sup>1</sup>					VALUE (mil. dol.)			
	Unit	1980	1985	1988	1989	1980	1985	1988	1989
Tin	1,000 metric ton	200	185	174	171	3,158	2,324	1,316	1,182
Silver	1,000 troy oz	139,500	136,006	104,921	98,174	2,288	801	640	543
Cobalt	Mil. lb.	41	53	53	53	1,020	590	398	406
Bauxite	1,000 lg. ton	14,333	17,957	18,031	18,031	583	871	888	888
Manganese <sup>3</sup>	1,000 sh. ton	5,130	4,470	4,146	4,109	599	520	665	881
Tungsten <sup>4</sup>	Mil. lb.	97	87	85	82	817	369	516	291
Zinc	1,000 sh. ton	380	378	378	378	317	268	570	559
Titanium	1,000 sh. ton	43	48	48	36	432	405	314	402
Platinum <sup>5</sup>	1,000 troy oz	466	466	466	452	215	154	261	231
Chromium	1,000 sh. ton	804	854	997	1,022	773	836	920	952
Diamonds: Stones	Carat	19,224	12,549	7,777	7,777	349	336	267	267
Industrial, bort	Carat	23,693	22,001	22,001	22,001	73	39	39	21

<sup>1</sup> Consists of stockpile and nonstockpile grades and reflects uncommitted balances. <sup>2</sup> Consists of abrasive grade, metallic grade Jamaica, metallic grade Suriname, and refractory. <sup>3</sup> Consists of chemical grade, dioxide battery natural, dioxide battery synthetic, electrolytic, ferro-high carbon, ferro-med. carbon, ferro-silicon, and metal. <sup>4</sup> Consists of carbide powder, ferro, metal powder, and ores and concentrates. <sup>5</sup> Consists of ferro-high carbon, ferro-low carbon, ferro-silicon, and metal.

Source: U.S. Defense Logistics Agency, *Statistical Supplement, Stockpile Report to the Congress* (AP-3).

### No. 1224. Selected Mineral and Metal Products—Quantity and Value of Imports and Exports: 1980 to 1988

[Imports represent imports for consumption. Exports include shipments under foreign aid programs. Includes trade of Puerto Rico with foreign countries]

PRODUCT	QUANTITY					VALUE (mil. dol.)			
	Unit	1980	1985	1987	1988	1980	1985	1987	1988
IMPORTS									
Petroleum (crude) <sup>1</sup>	Mil. bbl . . . . .	1,975	1,625	1,735	1,873	61,899	22,608	29,130	25,657
Gem stones: Diamonds	Mil. carat . . . . .	4.2	8.2	9.1	10.4	2,251	3,007	3,423	4,305.8
Ores and concentrates:									
Chromium (Cr <sub>2</sub> O <sub>3</sub> content)	1,000 metric ton	372	160	207	270	57	20	24	42
Copper	1,000 metric ton	14	3	2	3	73	2	2	8
Iron	Mil. lg. ton	25.1	15.8	16.6	19.9	773	452	409	485
Tungsten	Mil. lb.	11.4	10.5	9.7	17.7	87	37	24	48
Metals:									
Aluminum	1,000 sh. ton	581	958	1,373	1,132	778	1,017	1,852	2,198
Cobalt <sup>2</sup>	Mil. lb.	15.0	16.6	18.6	14.7	359	181	123	106
Copper refined ingots, etc.	1,000 metric ton	427	378	469	332	935	492	735	810
Gold (bullion)	1,000 troy oz	4,090	6,361	2,423	1,852	2,507	2,109	1,053	800
Iron and steel products									
(major)	Mil. sh. ton	15.5	24.3	20.4	20.8	7,713	10,874	8,567	8,932
Platinum group <sup>3</sup>	1,000 troy oz	3,502	3,990	3,809	3,997	1,177	1,026	1,240	1,348
Silver (bullion)	Mil. troy oz.	64.9	137.4	68.0	72.7	1,332	856	460	476
Zinc: Blocks, pigs, slabs	1,000 sh. ton	452	673	778	826	319	508	581	834
EXPORTS									
Fuels: <sup>1</sup>									
Bituminous coal	Mil. sh. ton . . . . .	89.9	84.0	77.6	94.0	4,523	3,862	3,309	3,960
Petroleum (crude)	Mil. bbl . . . . .	30.6	6.0	7.1	4.7	751	117	126	77
Nonmetallic minerals:									
Gem stones: Diamonds	Mil. carat . . . . .	1.3	2.4	2.5	2.1	1,041	571	968	1,228
Nitrogen compounds (maj.)	Mil. sh. ton . . . . .	11.1	10.8	10.9	11.3	1,842	1,553	(NA)	(NA)
Phosphatic fertilizers <sup>4</sup>	Mil. sh. ton . . . . .	7.2	6.1	7.5	7.6	1,383	1,225	1,083	(NA)
Metals:									
Aluminum: Ingots, slabs, crude	1,000 sh. ton . . . . .	715	383	310	441	1,107	442	415	926
Plates, sheets, bars, etc.	1,000 sh. ton . . . . .	306	185	278	368	716	411	648	996
Gold (refined bullion)	1,000 troy oz . . . . .	4,702	2,888	2,288	8,724	2,787	919	1,034	3,883
Iron and steel products									
(major)	Mil. sh. ton . . . . .	4.1	0.9	1.1	2.1	3,504	1,321	950	1,702
Magnesium <sup>5</sup>	1,000 sh. ton . . . . .	56.8	40.3	48.7	54.9	128	114	131	145
Molybdenum <sup>6</sup>	1,000 lb. . . . .	614	574	513	995	5	2	4	7
Silver (refined bullion)	Mil. troy oz. . . . .	57.2	12.6	11.2	14.3	1,327	82	79	94
Scrap exports:									
Aluminum	1,000 sh. ton . . . . .	445	413	407	537	483	351	410	774
Iron and steel . . . . .	Mil. sh. ton . . . . .	11.4	10.2	10.7	10.5	1,257	940	996	1,403

NA Not available. <sup>1</sup> Source: U.S. Bureau of the Census, *U.S. Imports for Consumption and General Imports, TSUSA Commodity and Country*, FT 246, annual; and *U.S. Exports, Schedule B Commodity and Country*, FT 446, annual 1980-88. For 1989, *Foreign Trade Import and Export CD-ROM* disc. <sup>2</sup> Includes unwrought metal, waste and scrap. <sup>3</sup> Unwrought and semimanufactured. <sup>4</sup> Superphosphates and ammonium phosphates. <sup>5</sup> Metal and alloys, scrap, semimanufactured forms. <sup>6</sup> Metals and alloys, crude and scrap.

Source: Except as noted, U.S. Bureau of Mines, *Minerals Yearbook*.

### No. 1225. Mineral Industries—Lost Workday Injuries and Fatalities: 1980 to 1989

[Excludes office workers. Lost workday injuries are nonfatal occurrences that result in days away from work, days of restricted work activity or a permanent disability. Data for all years includes injuries to independent contractors at mine sites. Beginning with 1985, rates for the non-coal industries are based only on employment and hours worked by mine employees. See also *Historical Statistics, Colonial Times to 1970*, series M 271-286]

ITEM	COAL MINING			QUARRYING: RELATED INDUS. <sup>1</sup>			METAL: NONMETAL MINING <sup>2</sup>		
	1980	1985	1989	1980	1985	1989	1980	1985	1989
Injuries, total	18,822	9,141	12,040	3,551	2,571	3,966	6,923	2,234	4,083
Fatal	133	68	68	42	26	23	46	22	21
Rate per million work-hrs:									
Fatal	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.1
Nonfatal	43	27	42	21	19	27	28	17	27
Fatalities per 1,000 employed <sup>3</sup>	0.55	0.36	0.44	0.5	0.4	0.3	0.3	0.3	0.3

<sup>1</sup> Includes cement. <sup>2</sup> Nonmetal mines exclude extraction of Frasch process sulfur. <sup>3</sup> Average number of persons at work each day mines were active.

Source: U.S. Mine Safety and Health Administration, Denver, CO, unpublished data.



### No. 1226. Net U.S. Imports of Selected Minerals and Metals as Percent of Apparent Consumption, 1980 to 1988, and by Major Foreign Sources, 1982 to 1988

[In percent. Figures based on net imports which equal the difference between imports and exports plus or minus government stockpile and industry stock changes]

MINERAL	1980	1983	1984	1985	1986	1987	1988	Rank of major foreign sources, 1982-1988
Columbium	100	100	100	100	100	100	100	Brazil, Canada, Thailand.
Mica (sheet)	100	100	100	100	100	100	100	India, Belgium, France.
Strontium	100	100	100	100	100	100	100	Mexico, Spain.
Manganese	98	99	98	100	100	100	100	Gabon, Brazil, Australia.
Bauxite	94	96	96	96	96	97	97	Bauxite: Guinea, Jamaica, Australia.
Platinum group	88	89	89	92	90	94	95	So. Africa, United Kingdom, U.S.S.R.
Tantalum	90	97	92	89	91	85	86	Thailand, Brazil, Canada.
Cobalt	93	95	95	94	85	86	86	Zaire, Zambia, Canada.
Tungsten	53	52	70	68	70	79	76	China: Mainland, Bolivia, F.R. of Germany.
Asbestos	78	65	75	65	58	40	75	Canada, South Africa.
Potassium	65	75	74	76	75	75	71	Canada, Israel, U.S.S.R.
Chromium	91	76	80	75	79	76	77	South Africa, Turkey, Zimbabwe.
Nickel	71	75	68	71	73	75	68	Canada, Norway, Australia.
Tin	79	73	74	72	74	74	78	Brazil, China, Indonesia.
Zinc	60	65	68	70	73	71	69	Canada, Peru, Honduras.
Barium	44	85	69	74	71	65	74	China, India, Morocco.
Titanium	32	(D)	(D)	(D)	(D)	(D)	(D)	Australia, Canada, South Africa.
Silver	7	59	58	59	71	(NA)	(NA)	Mexico, Canada, Peru.
Antimony	48	54	58	63	64	63	65	China: Mainland, Mexico, Hong Kong.
Mercury	26	30	57	50	(D)	(D)	NA	Spain, China: Mainland, Turkey.
Cadmium	55	72	51	57	66	64	48	Canada, Australia, Mexico.
Selenium	59	39	47	(D)	(D)	(D)	56	Canada, United Kingdom, Japan.
Vanadium	35	26	54	(D)	(D)	(D)	(D)	So. Africa, So. America, E.E.C. <sup>3</sup>
Gypsum	35	40	38	38	36	38	36	Canada, Mexico, Spain.
Petroleum	39	30	32	29	36	35	38	Mexico, Canada, Venezuela.
Copper	14	19	23	28	27	26	13	Canada, Chile, Peru.
Iron ore	25	37	19	21	33	22	18	Canada, Brazil, Venezuela.
Aluminum	( <sup>4</sup> )	17	7	16	26	23	7	Canada, Japan, Venezuela.
Iron and steel	15	16	23	22	21	19	17	E.E.C. <sup>3</sup> , Japan, Canada.
Sulfur	14	15	16	5	6	7	16	Canada, Mexico.
Natural gas	5	5	4	5	4	5	7	Canada, Algeria.

D Withheld to avoid disclosure. NA Not available. <sup>1</sup> Includes alumina. <sup>2</sup> Ilmenite. <sup>3</sup> European Economic Community. <sup>4</sup> Includes crude and products. <sup>5</sup> Source: Energy Information Administration, *Annual Energy Review*, and *Monthly Energy Review*. <sup>6</sup> Net exports.

Source: Except as noted, U.S. Bureau of Mines, *Mineral Commodity Summaries*; import and export data from U.S. Bureau of the Census.

### No. 1227. Federal Offshore Leasing, Exploration, Production, and Revenue: 1975 to 1988

[See source for explanation of terms and for reliability statement]

ITEM	Unit	1975	1980	1982	1983	1984	1985	1986	1987	1988
Tracts offered	Number	1,374	483	1,410	21,689	27,984	15,754	10,724	10,928	33,376
Tracts leased	Number	321	218	357	1,251	1,400	667	142	640	1,856
Acres offered	1,000	7,247	2,563	7,637	120,054	154,384	87,029	58,670	59,762	85,366
Acres leased	1,000	1,680	1,134	1,886	6,588	7,495	3,512	734	45,075	10,040
Bonus paid for leased tracts	Bil. dol.	1.1	4.2	4.0	5.7	4.0	1.5	0.2	0.5	1.2
New wells being drilled:										
Active	Number	97	191	166	134	253	195	95	142	116
Suspended	Number	292	739	701	597	313	348	279	265	289
Wells completed	Number	6,104	9,638	11,164	11,990	13,012	12,285	12,536	12,736	12,827
Wells plugged and abandoned	Number	5,617	8,057	8,913	9,374	9,903	10,487	11,909	12,373	13,164
Revenues, total	Bil. dol.	1.7	6.4	7.8	9.2	8.0	5.2	2.8	2.9	3.4
Bonuses	Bil. dol.	1.1	4.2	4.0	5.7	4.0	1.5	0.2	0.5	1.2
Oil and gas royalties	Bil. dol.	0.6	2.1	3.8	3.4	4.0	3.6	2.6	2.3	2.1
Rentals	Bil. dol.	(Z)	(Z)	(Z)	(Z)	(Z)	0.1	0.1	0.1	0.1
Production, value	Bil. dol.	3.9	13.1	22.6	21.0	24.0	22.2	15.7	14.6	12.9
Crude oil	Bil. dol.	2.2	4.8	8.9	9.1	9.6	9.6	5.8	5.6	4.2
Condensate	Bil. dol.	0.2	0.4	1.2	1.1	1.2	1.0	0.7	0.7	0.7
Natural gas	Bil. dol.	1.5	7.9	12.4	11.0	13.2	11.5	9.3	8.1	7.9
Production:										
Crude oil	Mil. bbls.	303	259	284	304	330	352	350	325	279
Condensate	Mil. bbls.	27	19	37	36	40	37	39	41	41
Natural gas	Tril. cu. ft.	3,459	4,641	4,680	3,940	4,537	4,000	3,949	4,425	4,310

Z Less than \$50 million. <sup>1</sup> Includes condensate royalties. <sup>2</sup> Production value is value at time of production, not current value.

Source: U.S. Dept. of the Interior, Minerals Management Service, *Federal Offshore Statistics*, annual.

**No. 1228. Petroleum Industry—Summary: 1975 to 1989**

ITEM	Unit	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989
Crude oil producing wells (Dec.31)	1,000 . . .	500	548	580	603	621	647	623	620	612	603
Daily output per well . . .	Bbl. . . . .	16.8	15.9	14.9	14.4	14.3	13.9	13.9	13.5	13.3	12.7
Completed wells drilled, total . . .	1,000 . . .	39	70	84	75	85	70	39	35	31	28
Crude oil . . . . .	1,000 . . .	17	32	39	37	42	35	19	16	13	11
Gas . . . . .	1,000 . . .	8	17	19	14	17	14	8	8	8	9
Dry . . . . .	1,000 . . .	14	20	26	24	25	21	13	11	10	9
Crude oil production, total . . . . .	Mil. bbl. . .	3,057	3,146	3,157	3,171	3,250	3,275	3,168	3,047	2,979	2,785
Value at wells . . . . .	Bill. dol. . .	23.5	67.9	90.0	83.1	84.1	78.9	39.6	46.9	37.5	44.2
Average price per barrel . . . . .	Dollars . . .	7.67	21.59	28.52	26.19	25.88	24.09	12.51	15.40	12.58	15.85
Refinery input of crude oil . . . . .	Mil. bbl. . .	4,541	4,934	4,297	4,265	4,408	4,381	4,641	4,692	4,848	4,891
Imports: Crude oil . . . . .	Mil. bbl. . .	1,498	1,926	1,273	1,215	1,254	1,168	1,525	1,706	1,869	2,120
Refined petroleum products . . . . .	Mil. bbl. . .	712	603	593	629	736	681	747	731	840	792
Import value . . . . .	Mil. dol. . .	25,059	74,440	59,587	51,333	54,310	50,368	34,790	41,495	39,982	49,624
Export value . . . . .	Mil. dol. . .	1,007	2,871	6,330	5,100	4,801	5,121	3,883	3,922	2,802	4,940
Operable refineries . . . . .	Number . . .	279	319	301	258	247	223	216	219	213	204
Capacity (Jan. 1) . . . . .	Mil. bbl. . .	5,461	6,584	6,530	6,154	5,906	5,716	5,643	5,681	5,825	5,714
Output . . . . .	Mil. bbl. . .	4,995	5,352	4,888	4,795	5,007	5,019	5,301	5,339	5,498	5,530
Utilization rate . . . . .	Percent . . .	85.5	75.4	69.9	71.7	76.2	77.6	82.9	83.1	84.7	86.6
Proved reserves . . . . .	Bill. bbl. . .	32.7	29.8	27.9	27.7	28.4	28.4	26.9	27.3	26.8	(NA)

NA Not available.

Source: U.S. Energy Information Administration, *Annual Energy Review*, and *Petroleum Supply Annual*.**No. 1229. Crude Petroleum and Natural Gas Wells Drilled—Summary: 1970 to 1989**

[Includes all costs incurred for drilling and equipping wells to point of completion as productive wells or abandonment after drilling becomes unproductive. Based on sample of operators of different size drilling establishments]

ITEM	Unit	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
Wells drilled . . . . .	Number . . .	27,177	36,960	62,011	67,536	77,210	67,821	37,173	33,041	29,741	26,693
Offshore . . . . .	Number . . .	1,058	1,028	1,272	1,270	1,421	1,247	898	709	666	746
Footage drilled . . . . .	Mil. ft. . . .	136.9	177.6	296.0	301.2	350.6	314.5	176.3	157.4	150.2	131.5
Drilling cost . . . . .	Mil. dol. . .	2,579	6,571	22,800	25,105	25,206	23,697	13,552	9,239	10,550	9,669
Average depth per well . . . . .	Feet . . . .	5,037	4,806	4,773	4,460	4,541	4,637	4,742	4,762	5,051	4,925
Average cost per well . . . . .	\$1,000 . . .	95	178	368	372	326	349	365	280	355	362
Offshore . . . . .	\$1,000 . . .	566	1,142	3,024	3,906	3,536	4,073	4,004	2,896	3,112	3,197
Average cost per foot . . . . .	Dollars . . .	18.84	36.99	77.02	83.34	71.90	75.35	76.88	58.71	70.23	73.55

Source: American Petroleum Institute, Independent Petroleum Association of America, and Mid-Continent Oil and Gas Association, *Joint Association Survey on Drilling Costs*, annual.**No. 1230. Domestic Motor Gasoline Supply: 1975 to 1989**

[in 1,000 barrels per day, except as noted]

ITEM	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Supply <sup>1</sup> . . . . .	6,875	6,579	6,588	6,539	6,622	6,693	6,831	7,034	7,206	7,336	7,326
Unleaded . . . . .	(NA)	3,067	3,264	3,409	3,647	3,987	4,406	4,854	5,470	5,995	6,500
Production . . . . .	6,520	6,506	6,405	6,338	6,340	6,453	6,419	6,752	6,841	6,956	6,968
Net imports . . . . .	182	139	155	177	237	293	371	293	349	383	324
Stocks (mil.bbl) <sup>2</sup> . . . . .	235	261	253	235	222	243	223	233	226	228	214

NA Not available. <sup>1</sup> Production plus net imports less net increase in primary stocks. <sup>2</sup> End of year, includes motor gasoline blending components.Source: U.S. Energy Information Administration, *Monthly Energy Review*.**No. 1231. Natural Gas Plant Liquids—Production and Value: 1970 to 1989**[Barrels of 42 gallons. See also *Historical Statistics, Colonial Times to 1970*, series M 143-146]

ITEM	Unit	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
Field production <sup>1</sup> . . . . .	Mil. bbl . . .	606	594	578	569	596	582	564	581	593	564
Pentanes plus . . . . .	Mil. bbl . . .	197	149	126	85	107	103	98	106	111	113
Liquefied petroleum gases . . . . .	Mil. bbl . . .	400	444	441	480	488	479	466	474	483	451
Natural gas processed . . . . .	Tril. cu. ft. .	19	18	15	13	14	13	13	14	-	13

- Represents zero. <sup>1</sup> Includes other finished petroleum products, not shown separately. <sup>2</sup> Estimated.Source: Through 1975, U.S. Bureau of Mines, *Minerals Yearbook*; thereafter, U.S. Energy Information Administration, *Energy Data Reports*, *Petroleum Statement Annual*, *Petroleum Supply Annual*, and *Natural Gas Annual*.

**No. 1232. U.S. Petroleum Balance: 1980 to 1989**  
(In millions of barrels)

ITEM	1980	1983	1984	1985	1986	1987	1988	1989
<b>Petroleum products supplied</b>	<b>6,242</b>	<b>5,559</b>	<b>5,756</b>	<b>5,740</b>	<b>5,942</b>	<b>6,083</b>	<b>6,308</b>	<b>6,324</b>
New supply of products	6,249	5,471	5,800	5,676	5,995	6,053	6,290	6,270
Production of products	5,765	5,160	5,392	5,363	5,604	5,680	5,849	5,874
Crude input to refineries	4,934	4,265	4,406	4,381	4,641	4,692	4,835	4,891
Oil, field production	3,146	3,171	3,250	3,275	3,168	3,047	2,979	2,779
Alaska	592	626	631	666	681	716	738	684
Lower 48 States	2,555	2,545	2,619	2,609	2,487	2,331	2,241	2,095
Net imports	1,821	1,155	1,188	1,094	1,468	1,651	1,807	2,081
Imports (gross excluding SPR) <sup>1</sup>	1,910	1,130	1,182	1,125	1,507	1,679	1,845	2,112
SPR <sup>1</sup> imports	16	85	72	43	18	27	19	20
Exports	-105	60	66	75	56	55	57	52
Other sources	33	61	29	12	4	7	57	32
Natural gas plant liquids (NGPL), supply	577	570	596	604	575	585	593	563
Other liquids	253	326	371	378	368	403	418	420
Net imports of refined products	484	311	407	313	391	373	441	396
Imports	578	520	604	523	621	596	681	656
Exports	94	110	197	210	229	223	240	260
Stock withdrawal, refined products	7	88	44	64	53	30	17	53
Ending stocks, all oils	1,392	1,454	1,556	1,519	1,593	1,607	1,597	1,581
Crude oil and lease condensate	358	344	345	321	331	349	330	341
Strategic petroleum reserve (SPR) <sup>1</sup>	108	379	451	493	512	541	560	580
Unfinished oils	124	108	94	107	94	93	100	(NA)
Gasoline blending components	17	38	39	33	39	38	39	(NA)
Pentanes plus	(NA)	16	8	8	7	7	7	(NA)
Finished refined products	785	569	621	557	609	580	562	580
<b>PRODUCT TYPE SUPPLIED</b>								
<b>Total products</b>	<b>6,242</b>	<b>5,559</b>	<b>5,756</b>	<b>5,740</b>	<b>5,942</b>	<b>6,083</b>	<b>6,328</b>	<b>6,324</b>
Finished motor gasoline	2,407	2,417	2,449	2,493	2,567	2,630	2,678	2,675
Distillate fuel oil	1,049	982	1,041	1,047	1,064	1,086	1,140	1,152
Residual fuel oil	918	519	501	439	518	462	5,030	500
Liquidified petroleum gases <sup>2</sup>	414	551	576	584	552	588	604	609
Pentanes plus, other liquids, etc.	1,454	1,067	1,165	1,155	1,223	1,304	1,369	1,378
Crude oil	(NA)	24	23	22	18	12	15	10

NA Not available. <sup>1</sup> SPR=Strategic petroleum reserve. For more information, see table 965. <sup>2</sup> Includes ethane.

Source: U.S. Energy Information Administration, *Petroleum Supply Annual*.

**No. 1233. Crude Petroleum and Natural Gas—Production, by State: 1985 to 1988**

(See also *Historical Statistics, Colonial Times to 1970*, series M 138, M 142, and M 147-161)

STATE	CRUDE PETROLEUM						NATURAL GAS MARKETING PRODUCTION <sup>1</sup>					
	Quantity (mil. bbl.)			Value (mil. dol.)			Quantity (bil. cu. ft.)			Value (mil. dol.)		
	1985	1987	1988	1985	1987	1988	1985	1987	1988	1985	1987	1988
<b>Total<sup>2</sup></b>	<b>3,274</b>	<b>3,053</b>	<b>2,983</b>	<b>78,884</b>	<b>46,930</b>	<b>37,477</b>	<b>17,198</b>	<b>17,349</b>	<b>17,808</b>	<b>43,183</b>	<b>28,889</b>	<b>30,096</b>
AL	22	21	21	579	325	272	107	117	130	398	348	344
AK	666	716	738	10,655	7,962	6,391	321	360	379	236	340	480
AR	19	14	13	443	229	(D)	155	141	167	393	323	323
CA	424	366	356	8,386	4,698	3,693	491	425	359	1,653	1,006	861
CO	30	29	33	758	489	453	178	165	192	517	290	305
FL	11	8	8	(NA)	(NA)	(NA)	11	8	7	26	14	11
IL	30	24	22	795	412	325	1	1	1	4	3	3
IN	5	4	4	134	68	53	(Z)	(Z)	(Z)	1	(Z)	1
KS	75	61	59	1,939	1,054	863	513	457	576	652	526	781
KY	8	6	5	201	96	77	73	70	74	174	128	189
LA	508	175	165	5,387	3,185	2,577	5,014	5,123	5,180	13,355	9,120	9,356
MI	27	26	23	726	461	353	132	147	146	475	476	465
MS	31	28	28	796	494	409	144	140	124	456	271	231
MT	30	25	23	734	412	319	52	46	52	125	84	88
NE	7	6	6	163	104	83	2	1	(Z)	6	3	2
NM	79	72	71	2,028	1,246	1,031	905	824	792	2,370	1,368	1,347
NY	1	1	1	25	11	8	32	26	23	106	51	54
ND	51	41	39	1,307	726	580	73	62	58	138	81	115
OH	15	12	12	361	199	150	182	167	167	580	430	425
OK	163	134	129	4,256	2,391	1,987	1,936	2,005	2,107	4,789	2,938	3,255
PA	5	3	3	114	56	42	150	163	167	474	367	359
TX	889	762	736	23	13,469	10,795	6,053	6,126	6,286	14,097	9,007	9,471
UT	41	36	33	773	536	423	83	87	101	293	164	242
WV	4	3	3	86	47	37	145	160	182	558	616	555
WY	129	116	114	3,061	1,858	1,481	417	498	509	1,252	876	778

D Withheld to avoid disclosure. NA Not available. Z Less than 500 million cubic feet or less than \$500,000. <sup>1</sup> Excludes nonhydrocarbon gases. <sup>2</sup> Includes other States not shown separately. State production does not include State offshore production.

Source: U.S. Energy Information Administration, *Energy Data Reports, Petroleum Supply Annual, Natural Gas Annual*, and *Natural Gas Monthly*.

### No. 1234. Natural Gas—Supply, Consumption, Reserves, and Marketed Production: 1970 to 1989

[See also *Historical Statistics, Colonial Times to 1970*, series M 147-161]

ITEM	Unit	1970	1973	1975	1980	1983	1984	1985	1986	1987	1988	1989
Producing wells (yearend)	1,000	117	124	130	182	222	234	243	242	249	256	261
Production value at wells	Bil. dol.	3.7	4.9	8.9	32.0	43.6	48.4	43.2	32.6	28.9	30.1	30.6
Avg. per 1,000 cu. ft.	Dollars	0.17	0.22	0.45	1.59	2.59	2.66	2.51	1.94	1.67	1.69	1.71
Proved reserves	Tril. cu. ft.	291	250	228	199	200	198	193	192	187	168	(NA)
Marketed production	Tril. cu. ft.	21.92	22.65	20.11	20.18	16.82	18.23	17.20	16.79	17.35	17.81	17.96
Drawn from storage	Tril. cu. ft.	1.46	1.53	1.76	1.97	2.27	2.10	2.40	1.84	1.91	2.27	2.57
Imports	Tril. cu. ft.	0.82	1.03	0.95	0.98	0.92	0.84	0.95	0.75	0.99	1.29	1.38
Consumption, total	Tril. cu. ft.	21.14	22.05	19.54	19.88	16.84	17.95	17.28	16.22	17.21	18.03	18.95
Residential	Tril. cu. ft.	4.84	4.88	4.92	4.75	4.38	4.56	4.43	4.31	4.31	4.63	4.84
Commercial	Tril. cu. ft.	2.40	2.60	2.51	2.61	2.43	2.52	2.43	2.32	2.43	2.67	2.73
Industrial	Tril. cu. ft.	9.25	10.18	8.36	8.20	6.62	7.23	6.87	6.50	7.10	7.48	8.02
Lease and plant fuel	Tril. cu. ft.	1.40	1.50	1.40	1.03	0.98	1.08	0.97	0.92	1.15	1.10	1.19
Other industrial	Tril. cu. ft.	7.85	8.69	6.97	7.17	5.64	6.15	5.90	5.58	5.95	6.38	6.84
Electric utilities	Tril. cu. ft.	3.93	3.66	3.16	3.68	2.91	3.11	3.04	2.60	2.84	2.64	2.77
Transportation	Tril. cu. ft.	0.72	0.73	0.58	0.63	0.49	0.53	0.50	0.49	0.52	0.61	0.59
Extraction losses	Tril. cu. ft.	0.91	0.92	0.87	0.78	0.79	0.84	0.82	0.80	0.81	0.82	0.84
Exports	Tril. cu. ft.	0.07	0.08	0.07	0.05	0.05	0.05	0.06	0.06	0.05	0.07	0.07
Additions to storage	Tril. cu. ft.	1.86	1.97	2.10	1.95	1.82	2.30	2.16	1.98	1.91	2.21	2.21
Unaccounted for gas	Tril. cu. ft.	0.23	0.20	0.24	0.64	0.64	0.14	0.36	0.43	0.36	0.34	-0.12
World production (dry)	Tril. cu. ft.	37.54	43.15	44.10	53.11	54.57	59.66	62.00	63.25	66.17	68.03	(NA)
U.S. production (dry)	Tril. cu. ft.	21.01	21.73	19.24	19.40	16.03	17.39	16.38	15.99	16.54	16.99	17.12
Percent U.S. of world	Percent	56.0	50.4	43.8	36.4	29.4	29.8	26.3	25.3	25.0	25.0	(NA)

NA Not available. <sup>1</sup> Estimated, end of year. Source: 1970-1975; American Gas Association, Arlington, VA (copyright); thereafter, U.S. Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, annual.

<sup>2</sup> Marketed production includes gross withdrawals from reservoirs less quantities used for reservoir repressuring and quantities vented or flared. For 1980 and thereafter, it excludes the nonhydrocarbon gases subsequently removed. <sup>3</sup> Includes imports of liquefied natural gas. <sup>4</sup> Includes deliveries to municipalities and public authorities for institutional heating and other purposes.

<sup>5</sup> Pipeline fuel. <sup>6</sup> Volumetric reduction in natural gas resulting from the extraction of natural gas constituents at natural gas processing plants. <sup>7</sup> Beginning with 1980, includes liquefied natural gas (LNG) storage in above ground tanks. <sup>8</sup> Derived by subtracting the sum of additions to storage, exports and consumption from total supply.

Source: Except as noted, U.S. Energy Information Administration, *Annual Energy Review*, *International Energy Annual*, *Natural Gas Annual*, and *Monthly Energy Review*, March 1990.

### No. 1235. Liquefied Petroleum Gases—Summary: 1980 to 1989

[In millions of 42-gallon barrels. Includes ethane]

ITEM	1980	1985	1988	1989	ITEM	1980	1985	1988	1989
Production	561	622	663	665	Consumption	538	584	604	609
At natural gas plants	441	479	481	452	Ethane	164	210	190	170
At refineries	121	143	182	202	Propane	298	322	338	361
Imports	79	68	76	66	Butane (incl. isobutane)	76	52	80	69
Refinery input	85	111	117	115	Stocks, Dec. 31	116	74	97	80
Exports	9	23	18	13					

<sup>1</sup> Reported consumption of ethane-propane mixtures have been allocated 70 percent ethane and 30 percent propane.

<sup>2</sup> Reported consumption of butane-propane mixtures have been allocated 60 percent butane and 40 percent propane.

Source: U.S. Energy Information Administration, *Petroleum Supply Annual*.

### No. 1236. World Coal Trade: 1975 to 1988

[In millions of short tons]

COUNTRIES	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Exporting countries, total	212.5	222.5	254.9	277.2	288.4	292.0	284.5	332.9	370.2	376.3	383.0	411.0
United States	66.3	40.7	66.0	88.7	106.5	106.5	78.2	82.0	93.2	85.5	79.6	94.9
Australia	33.5	42.6	44.6	46.6	54.3	48.8	62.3	82.2	96.6	101.3	111.9	109.3
South Africa	3.0	17.0	25.7	30.7	33.3	30.5	32.7	40.9	49.8	50.1	46.9	47.0
Soviet Union	28.8	31.6	28.4	26.2	22.5	23.0	22.8	22.8	26.5	36.9	39.1	43.4
West Germany	16.2	21.0	17.2	13.8	13.1	11.2	11.5	12.4	10.5	7.9	6.9	5.5
Canada	12.9	15.1	15.3	16.1	17.9	16.6	18.6	26.8	30.3	28.6	29.5	34.8
Poland	42.4	44.2	45.6	34.6	16.6	30.6	38.7	47.2	39.7	37.9	34.2	35.5
China: Mainland	0.5	0.9	1.7	4.2	4.1	5.1	6.8	7.7	8.6	10.9	14.4	16.2
Importing countries, total	212.5	222.5	254.9	277.2	288.4	292.0	284.5	332.9	370.2	376.3	383.0	411.0
Western Europe/Mediterranean	80.8	94.3	107.4	126.9	129.4	126.5	112.9	132.4	152.3	149.0	145.6	147.0
Japan	68.5	57.5	64.5	75.6	86.0	86.5	82.8	96.2	103.0	79.6	100.2	111.5
Eastern Europe	35.1	38.4	40.2	34.8	30.1	37.0	39.7	39.9	39.1	45.4	44.9	48.5
Canada	16.8	14.6	19.4	17.4	16.3	17.3	16.7	20.3	16.1	14.7	15.8	19.2

<sup>1</sup> Includes areas not shown separately. <sup>2</sup> Includes trade with Japan only.

Source: U.S. Energy Information Administration, 1975-84, *Outlook for U.S. Coal Imports*; thereafter, *Annual Prospects for World Coal Trade*.

## No. 1237. Coal and Coke—Summary: 1970 to 1989

[Includes coal consumed at mines. Demonstrated coal reserve base for United States on Jan. 1, 1989, was an estimated 473 billion tons. Recoverability varies between 40 and 90 percent for individual deposits; 50 percent or more of overall U.S. coal reserve base is believed to be recoverable. See also *Historical Statistics, Colonial Times to 1970*, series M 93-126]

ITEM	Unit	1970	1975	1980	1984	1985	1986	1987	1988	1989 <sup>1</sup>
<b>COAL<sup>2</sup></b>										
Production, total.	Mil. sh. tons	613	655	830	896	884	890	919	950	980
Value	Mil. dol.	3,882	12,670	20,453	22,949	22,277	21,188	21,101	20,890	(NA)
Anthracite production	Mil. sh. tons	9.7	6.2	6.1	4.2	4.7	4.3	3.1	3.6	3.3
Bituminous coal and lignite:										
Number of mines	Number	5,601	6,168	5,598	4,902	4,547	4,203	3,894	3,462	(NA)
Production	Mil. sh. tons	603	648	824	892	879	886	915	947	971
Value, total	Mil. dol.	3,774	12,469	20,196	22,749	22,061	20,999	21,050	20,752	(NA)
Average per ton	Dollars	6,26	19,23	24,52	25,51	25,10	23,70	23,00	22,00	21,00
Exports	Mil. sh. tons	71	66	90	81	91	84	78	94	100
Value	Mil. dol.	961	3,259	4,627	4,098	4,403	3,862	3,354	3,975	4,255
Imports	1,000 sh. tns.	36	940	1,194	1,286	1,952	2,212	1,747	2,134	2,851
Method of mining:										
Underground	Mil. sh. tons	339	293	338	351	350	360	372	382	394
Surface	Mil. sh. tons	264	356	487	540	529	526	543	565	577
Percent of total prod.	Percent	43.8	54.8	59.1	60.6	60.2	59.4	59.4	59.7	59.4
Value	Mil. dol.	(Z)	22	30	45	70	80	(NA)	(NA)	(NA)
Consumption <sup>4</sup>	Mil. sh. tons	515	558	699	788	815	802	834	881	887
Electric power utilities	Mil. sh. tons	318	404	568	663	693	684	717	757	765
Industrial	Mil. sh. tons	184	146	126	117	116	111	112	118	117
Productivity average:										
Daily employment	1,000	140	190	225	178	169	155	143	135	(NA)
Days worked	Number	228	232	210	204	204	205	207	211	(NA)
Tons per worker:										
Per day	Sh./tons.	18.84	14.74	16.32	22.26	23.13	25.69	28.19	(NA)	(NA)
Per year	Sh./tons.	4,296	3,420	3,427	4,541	4,719	5,266	5,835	(NA)	(NA)
Production, by State:										
Alabama	Mil. sh. tons	20.6	22.6	26.4	27.1	27.8	25.8	25.5	26.5	28.5
Illinois	Mil. sh. tons	65.1	59.5	62.5	63.8	59.2	61.9	59.2	58.6	59.7
Indiana	Mil. sh. tons	22.3	25.1	30.9	37.6	33.3	32.9	34.2	31.3	33.7
Kentucky	Mil. sh. tons	125.3	143.6	150.1	158.5	152.3	153.9	163.7	157.9	158.6
Montana	Mil. sh. tons	3.4	22.1	29.9	33.0	33.3	34.0	34.4	38.9	37.7
Ohio	Mil. sh. tons	55.4	46.8	39.4	39.3	35.6	36.4	35.6	34.0	32.5
Pennsylvania	Mil. sh. tons	90.2	90.3	93.1	77.5	71.4	71.6	66.4	67.1	69.0
Virginia	Mil. sh. tons	35.0	35.5	41.0	40.4	40.9	41.2	44.2	45.9	51.2
West Virginia	Mil. sh. tons	144.1	109.3	121.6	131.0	127.8	129.9	135.9	145.0	151.2
Wyoming	Mil. sh. tons	7.2	23.8	94.9	130.9	140.7	136.8	146.8	164.0	171.5
Other States	Mil. sh. tons	44.1	75.9	139.7	155.9	161.3	165.9	165.8	177.6	182.6
World production	Mil. sh. tons	3,295	3,665	4,173	4,623	4,844	4,944	5,070	5,231	(NA)
<b>COKE</b>										
Production <sup>6</sup>	Mil. sh. tons	66.5	57.2	46.1	30.6	28.7	25.5	28.0	32.4	33.0
Oven coke <sup>7</sup>	Mil. sh. tons	65.7	56.5	46.1	30.6	28.7	25.5	28.0	32.4	33.0
Value of product at plant	Mil. dol.	2,193	5,261	6,029	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Coke and breeze	Mil. dol.	1,899	4,607	4,784	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Avg. market value per ton	Dollars	28	84	103	105	103	100	(NA)	(NA)	(NA)
Coal carbonized	Mil. sh. tons	96.5	83.6	66.7	44.0	41.1	36.0	37.0	41.9	41.4
Average value per ton	Dollars	12.47	44.21	56.26	56.58	54.30	50.83	46.55	47.70	47.50
Yield of coke from coal	Percent	69.1	68.4	69.2	69.4	69.8	70.9	75.9	77.3	79.8

NA Not available. Z Less than \$500,000. <sup>1</sup> Preliminary. <sup>2</sup> Includes bituminous coal, lignite, and anthracite. <sup>3</sup> All domestic product data for 1970 and 1975 are for mines producing 1,000 short tons or more per year; thereafter, data are for all mines. <sup>4</sup> Includes some categories not shown separately. <sup>5</sup> Data for 1970 and 1975 are for mines producing 1,000 short tons or more per year; thereafter, for mines producing 10,000 short tons or more. Beginning 1984, includes anthracite. <sup>6</sup> Includes beehive coke. <sup>7</sup> Prior to 1980, excludes screenings or breeze; thereafter, includes beehive and other nonrecoverable coke-oven operations.

Source: 1970 and 1975, U.S. Bureau of Mines, *Minerals Yearbook*; thereafter, U.S. Energy Information Administration, *Coal Production, annual*; *Annual Energy Review*, and *Quarterly Coal Report*.

## No. 1238. Asbestos: 1984 to 1989

[In thousands of metric tons. Two firms in California and Vermont accounted for 100 percent of domestic production in 1988. Asbestos was consumed in roofing products, 28 percent; friction products, 26 percent; asbestos-cement pipe, 14 percent; packing and gaskets, 13 percent; paper, 6 percent; and other, 13 percent]

ITEM	1984	1985	1986	1987	1988	1989
Production (sales), mine	57	57	51	51	18	17
Imports for consumption	210	142	108	94	85	55
Exports	40	46	47	60	32	27
Consumption, apparent	226	162	120	84	71	55
Price, average value, dol./ton, f.o.b. mine	422	357	338	340	(D)	(D)
Stocks, producer, yearend	23	14	6	6	6	7
Employment, mine and mill <sup>1</sup>	190	200	250	230	58	58
Net import reliance as percent of apparent consumption <sup>2</sup>	75	65	58	40	75	49

D Withheld to avoid disclosure. <sup>1</sup> Estimated. <sup>2</sup> Reliance defined as imports minus exports plus adjustments for Government and industry stock changes.

Source: U.S. Bureau of Mines, *Mineral Commodity Summaries*, annual.

### No. 1239. Cement, Sand, Gravel, Stone, Gypsum, Lime, and Phosphate Rock: 1970 to 1988

[See also *Historical Statistics, Colonial Times to 1970*, series M 188-194 and series M 203-204. Lime excludes Puerto Rico]

ITEM	Unit	1970	1975	1980	1983	1984	1985	1986	1987	1988
<b>Cement production</b> <sup>1</sup>	<b>Mil. sh. ton</b>	<b>76.1</b>	<b>69.7</b>	<b>76.7</b>	<b>71.3</b>	<b>78.7</b>	<b>78.9</b>	<b>79.8</b>	<b>78.2</b>	<b>76.9</b>
Portland	Percent	96.1	95.8	95.9	95.9	95.8	95.9	95.5	97.0	97.1
Shipments <sup>2</sup>	Mil. sh. ton	76.4	70.7	77.7	71.9	81.2	84.0	90.3	89.1	89.0
Portland	Mil. sh. ton	73.4	67.8	74.7	68.9	77.9	80.7	85.1	86.6	86.7
Value	Mil. dol.	1,366	2,220	3,780	3,440	4,020	4,142	4,265	4,233	4,233
Average per ton	Dollar	17.88	31.41	50.89	49.89	51.62	51.30	50.10	48.85	48.80
Imports	Mil. sh. ton	2.5	3.6	5.2	4.3	8.8	14.5	16.1	17.7	17.5
Value	Mil. dol.	34	71	196	161	294	437	469	489	516
Exports	Mil. sh. ton	123	417	186	118	80	98	89	52	101
World production (est.)	Mil. sh. ton	630	774	977	1,010	1,045	1,057	1,101	1,151	1,213
<b>Sand and gravel sold</b>	<b>Mil. sh. ton</b>	<b>944</b>	<b>789</b>	<b>793</b>	<b>682</b>	<b>803</b>	<b>830</b>	<b>910</b>	<b>924</b>	<b>952</b>
Value	Mil. dol.	1,116	1,340	2,289	2,270	2,621	2,812	3,107	3,367	3,514
<b>Stone sold or used by producers</b>	<b>Mil. sh. ton</b>	<b>869</b>	<b>901</b>	<b>985</b>	<b>863</b>	<b>957</b>	<b>1,002</b>	<b>1,024</b>	<b>1,200</b>	<b>1,248</b>
Value	Mil. dol.	1,470	2,120	3,405	3,475	3,911	4,225	4,428	5,249	5,558
<b>Crude gypsum:</b>										
Active establishments <sup>5</sup>	Number	108	110	114	111	113	116	113	109	112
Apparent supply	Mil. sh. ton	15.5	15.1	19.7	20.8	23.1	24.3	24.9	25.3	26.1
Mined	Mil. sh. ton	9.4	9.8	12.4	12.9	14.3	14.7	15.4	15.6	16.4
Imports for consumption	Mil. sh. ton	6.1	5.4	7.4	8.0	8.9	9.9	9.6	9.7	9.7
Exports	1,000 sh. ton	41	75	88	117	131	83	155	127	271
<b>Calcined gypsum produced</b>	<b>Mil. sh. ton</b>	<b>8.4</b>	<b>9.2</b>	<b>11.8</b>	<b>13.9</b>	<b>15.5</b>	<b>16.0</b>	<b>17.1</b>	<b>17.6</b>	<b>17.3</b>
Value	Mil. dol.	132	186	270	270	321	367	310	322	313
<b>Gypsum products sold, value</b> <sup>6</sup>	<b>Mil. dol.</b>	<b>353</b>	<b>514</b>	<b>1,242</b>	<b>1,806</b>	<b>2,274</b>	<b>2,418</b>	<b>2,514</b>	<b>2,279</b>	<b>2,091</b>
Building uses, value	Mil. dol.	323	466	1,149	1,504	2,162	2,301	2,399	2,202	2,015
<b>Lime:</b>										
Active plants	Number	194	171	153	139	129	115	116	116	115
Quantity sold	1,000 sh. ton	19,747	19,133	19,010	14,867	15,822	15,690	14,474	15,733	17,293
Value	Mil. dol.	286	524	843	758	811	809	758	788	828
Per ton	Dollars	14.4	27.4	44.3	51.0	51.0	51.6	52.4	49.96	47.88
<b>Phosphate rock:</b>										
Mine production	Mil. ton	125.5	187.5	231.4	138.6	179.7	193.2	149.6	163.6	176.8
P <sub>2</sub> O <sub>5</sub> content	Mil. ton	18.6	23.5	26.2	19.4	23.2	25.2	19.6	21.4	21.1
Marketable production	Mil. ton	38.7	48.8	60.0	46.9	54.2	56.0	44.4	45.1	50.0
P <sub>2</sub> O <sub>5</sub> content	Mil. ton	12.0	15.0	18.4	14.4	16.4	17.2	13.5	13.7	15.2
Value	Mil. dol.	203	1,122	1,257	1,021	1,182	1,236	897	793	888
Per ton	Dollars	5.25	22.99	20.95	21.75	21.80	22.05	20.20	17.58	17.76
Imports	Mil. sh. ton	0.14	0.04	0.54	0.01	0.01	0.03	0.58	0.51	0.74
Value	Mil. dol.	3.8	1.6	12.9	0.4	0.3	1.7	25.4	22.1	25.9
Per ton	Dollars	27.87	43.83	23.99	37.90	27.62	46.61	43.70	43.4	34.9
Exports	Mil. sh. ton	11.7	12.3	15.7	13.2	12.7	10.1	8.7	9.3	8.9
P <sub>2</sub> O <sub>5</sub> content	Mil. sh. ton	3.8	4.0	5.0	4.2	4.0	3.2	2.8	3.0	2.9
Value	Mil. dol.	60.0	429.2	431.4	327.3	324.8	263.6	211.7	194.7	207.0
Per ton	Dollars	5.11	34.98	27.41	24.73	25.56	26.18	24.47	20.90	23.27
Consumption, apparent <sup>8</sup>	Mil. sh. ton	27.2	34.2	45.0	38.4	46.0	41.4	38.0	39.3	45.2
World production	Mil. sh. ton	93.6	118.6	158.9	153.5	167.4	164.0	153.1	<sup>9</sup> 159.0	<sup>10</sup> 180.4

<sup>1</sup> Includes Puerto Rico; excludes Alaska except for imports and exports. <sup>2</sup> Includes natural, slag, and hydraulic lime plants, not shown separately, except 1970, excludes slag cement. <sup>3</sup> Represents sand stone and gravel used by producers. <sup>4</sup> Excludes byproduct gypsum. Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. <sup>5</sup> Each mine, plant, or combination mine and plant is counted as one establishment. <sup>6</sup> Made from domestic, imported, and byproduct gypsum. <sup>7</sup> For consumption; P<sub>2</sub>O<sub>5</sub> content not available. <sup>8</sup> Amount sold or used plus imports minus exports. <sup>9</sup> Preliminary. <sup>10</sup> Estimated.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

### No. 1240. Potash—Summary: 1970 to 1988

[In thousands of short tons, except value. See also *Historical Statistics, Colonial Times to 1970*, series M 201-202]

ITEM	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988
Production of potassium salts (marketable)	4,853	4,576	4,756	3,710	3,053	3,350	2,831	2,625	2,716	3,306
Approximate equivalent K <sub>2</sub> O	2,729	2,501	2,468	1,966	1,575	1,724	1,428	1,325	1,391	1,677
Value (mil. dol.)	96.1	223.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Sales of potassium salts by producers	4,703	3,819	4,701	3,734	3,252	3,510	2,761	2,525	3,201	3,089
Approximate equivalent K <sub>2</sub> O	2,729	2,094	2,444	1,967	1,668	1,807	1,395	1,264	1,637	1,573
Value at plant (mil. dol.)	92.4	187.9	353.9	265.6	220.8	241.8	178.4	144.9	197.7	240.3
Per ton (dollars)	19.64	49.19	75.28	71.13	67.90	68.89	78.48	57.38	61.54	77.79
Imports for consumption of potash materials	4,403	6,271	9,031	6,986	8,071	8,761	8,343	7,643	7,392	7,676
Approximate equivalent K <sub>2</sub> O	2,605	3,797	5,481	4,253	4,894	5,323	5,061	4,643	4,490	4,648
Value (mil. dol.)	94.7	267.2	648.0	575.4	600.6	658.1	499.1	385.1	433.0	623.0
Exports of potash materials	966	1,419	1,746	1,049	822	922	1,072	1,130	1,021	863
Approximate equivalent K <sub>2</sub> O	544	779	926	572	331	492	565	603	518	419
Value (mil. dol.)	28.5	92.7	179.8	93.2	55.8	85.7	(NA)	(NA)	(NA)	(NA)
Apparent consumption of potassium salts <sup>2</sup>	8,140	8,671	11,987	9,671	10,701	11,349	10,032	9,149	9,571	9,902
Approximate equivalent K <sub>2</sub> O	4,730	5,112	6,999	5,647	6,231	6,638	5,891	5,338	5,609	5,802
World production (marketable), approximate equivalent K <sub>2</sub> O	20,013	27,269	30,707	27,187	30,232	31,568	31,537	31,700	33,649	35,393

NA Not available. <sup>1</sup> Derived from reported value of amount sold or used. <sup>2</sup> Amount sold or used plus imports minus exports.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

## No. 1241. Iron Ore—Summary: 1980 to 1989

[In millions of long tons, except as indicated. Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. See also *Historical Statistics, Colonial Times to 1970*, series M 205-211]

ITEM	1980	1982	1983	1984	1985	1986	1987	1988	1989
Number of mines	37	27	20	20	20	19	19	21	(NA)
Production	69.6	35.4	37.6	51.3	48.8	38.9	46.9	56.6	57.0
Lake Superior	62.3	31.0	35.6	49.7	47.4	37.6	45.9	55.2	56.0
Other districts	7.3	4.4	2.0	1.6	1.4	1.3	0.9	1.5	1.0
Shipments <sup>2</sup>	69.6	35.8	44.6	50.9	49.4	41.3	47.2	56.2	55.6
Value <sup>2</sup> (mil. dol.)	2,544	1,492	1,945	2,248	2,077	1,473	1,503	1,717	(NA)
Avg. price/ton at mine (dol.)	36.56	41.72	43.61	44.17	42.03	35.63	31.83	30.54	(NA)
Stocks, Dec. 31 (at mines)	11.7	12.1	4.1	5.3	6.0	3.3	2.4	2.9	4.5
Imports for consumption <sup>3</sup>	25.1	14.5	13.2	17.2	15.8	16.7	16.6	19.9	19.3
Canada	17.3	9.3	8.8	11.2	8.6	8.7	7.9	9.0	8.4
Venezuela	3.6	1.6	1.3	1.5	2.1	2.3	2.6	3.5	4.2
Brazil	2.0	1.0	1.3	2.5	2.5	3.7	3.6	4.9	5.1
Value (mil. dol.)	773	471	446	529	452	461	409	485	522
Exports	5.7	3.2	3.8	5.0	5.0	4.5	5.0	5.2	5.3
Value (mil. dol.)	231	151	183	239	241	205	198	194	193
World production (est.)	877	769	728	816	849	855	876	902	(NA)

NA Not available. <sup>1</sup> Direct-shipping ore, concentrates, agglomerates, and byproduct ore. <sup>2</sup> Includes byproduct ore. <sup>3</sup> Includes countries not shown separately.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

## No. 1242. Gold and Silver—Summary: 1980 to 1989

[See *Historical Statistics, Colonial Times to 1970*, series M 268-269, for mine production]

ITEM	Unit	1980	1983	1984	1985	1986	1987	1988	1989, prel
<b>GOLD</b>									
Ore produced <sup>1</sup>	1,000 sh. ton.	9,893	24,142	30,497	35,909	60,683	92,810	140,968	187,710
Production, U.S.	1,000 fine oz.	970	2,003	2,085	2,427	3,739	4,947	6,460	8,537
Value	Mil. dol.	594	849	752	771	1,377	2,216	2,831	3,266
World production	1,000 fine oz.	39,179	45,163	46,929	49,250	51,512	53,310	59,409	63,369
Industrial consumption									
U.S., net	1,000 fine oz.	3,215	3,226	3,140	3,097	3,126	3,233	3,146	3,111
Imports <sup>2</sup>	Mil. dol.	2,750	1,977	2,947	2,696	5,694	1,633	1,269	1,479
Canada	Mil. dol.	1,234	987	1,554	1,555	2,444	867	693	884
Soviet Union	Mil. dol.	88	-	-	-	155	0.4	0.4	0.5
South Africa	Mil. dol.	33	16	8	79	0.3	0.7	0.7	0.02
Exports	Mil. dol.	3,648	1,326	1,813	1,254	1,819	1,709	4,659	2,275
Price per fine oz. <sup>3</sup>	Dollars	612.6	424.0	360.7	317.7	368.2	448.0	438.3	382.6
Production:									
Nevada	1,000 fine oz.	278	961	1,021	1,276	2,099	2,659	3,676	4,970
South Dakota	1,000 fine oz.	268	310	311	356	(D)	(D)	450	518
Utah	1,000 fine oz.	180	238	(D)	135	(D)	(D)	(D)	(D)
<b>SILVER</b>									
Ore produced <sup>1,4</sup>	1,000 sh. ton.	2,936	8,658	9,392	5,347	6,425	8,758	10,553	(D)
Production, U.S.	1,000 fine oz.	32,329	43,431	44,592	39,449	34,524	39,803	53,402	64,526
Value	Mil. dol.	667	497	363	242	189	280	349	355
World production	1,000 fine oz.	342,804	387,711	420,065	419,599	416,995	442,201	455,479	464,738
Industrial consumption									
U.S., net <sup>5</sup>	1,000 fine oz.	124,694	116,464	114,841	118,555	118,940	115,271	(NA)	(NA)
Imports <sup>2</sup>	Mil. dol.	1,806	2,124	963	952	798	555	578	705
Canada	Mil. dol.	660	420	301	288	261	141	239	242
Mexico	Mil. dol.	282	340	336	251	257	288	254	340
Peru	Mil. dol.	354	269	197	76	57	48	12	15
Exports	Mil. dol.	1,910	377	206	161	143	192	206	239
Price per fine oz. <sup>3,5</sup>	Dollars	20.63	11.44	8.14	6.14	5.47	7.01	6.54	5.50
Production:									
Idaho	Mil. fine oz.	13.7	17.7	18.9	18.8	11.2	(D)	10.9	14.1
Arizona	Mil. fine oz.	6.3	4.5	4.2	4.9	4.2	3.7	4.9	5.5
Utah	Mil. fine oz.	2.2	4.6	(D)	(D)	(D)	(D)	(D)	(D)
Colorado	Mil. fine oz.	3.0	2.1	2.2	0.5	0.6	0.9	0.9	(D)

- Represents zero. D Withheld to avoid disclosure. NA Not available. <sup>1</sup> Gold and silver are also produced from base-metal ores and placers. <sup>2</sup> Imports for consumption. <sup>3</sup> Selling price. <sup>4</sup> Includes gold-silver ore through 1986, silver ore only thereafter. <sup>5</sup> Excludes coinage.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

## No. 1243. Lead—Summary: 1980 to 1989

[In thousands of metric tons, except as indicated. Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports and as noted. See also *Historical Statistics, Colonial Times to 1970*, series M 242-248]

ITEM	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>Smelter production of refined primary lead . . . .</b>	<b>548</b>	<b>512</b>	<b>519</b>	<b>389</b>	<b>494</b>	<b>370</b>	<b>374</b>	<b>382</b>	<b>396</b>
Domestic ores and base bullion . . . . .	508	460	464	324	423	348	337	371	379
Foreign ores and base bullion . . . . .	40	52	55	65	71	22	37	21	17
Recovery of secondary lead . . . . .	676	571	504	633	616	625	710	736	809
Imports for consumption:									
Lead in pigs and bars . . . . .	81	95	134	161	131	140	186	149	116
Lead in ores and matte . . . . .	30	19	20	30	3	5	1	21	5
Exports of refined pig lead <sup>2</sup> . . . . .	157	51	18	5	25	11	4	8	29
Consumption of metal, primary and secondary . . . .	1,070	1,075	1,148	1,207	1,148	1,126	1,230	1,245	1,283
Average price, common lead:									
New York (cents per lb.) . . . . .	42.46	25.54	21.68	25.55	19.07	22.05	35.94	37.14	39.35
London (cents per lb.) . . . . .	41.21	24.66	19.27	20.12	17.84	18.43	26.99	29.73	30.63
Mine production of recoverable lead <sup>3</sup> . . . . .	550	513	449	323	414	340	311	385	411
Value <sup>3</sup> (mil. dol.) . . . . .	515	289	215	182	174	165	247	315	356
World smelter production, primary (est.) . . . . .	3,181	3,211	3,248	3,176	3,403	3,147	3,291	3,298	3,290
World smelter capacity (est.) . . . . .	4,616	4,504	4,555	4,435	4,355	4,385	4,420	4,450	

<sup>1</sup> Excludes lead content of antimonial lead. <sup>2</sup> Pigs, bars, and anodes. <sup>3</sup> Includes Alaska.

## No. 1244. Copper—Summary: 1980 to 1989

[In thousands of metric tons, except as indicated. Excludes Hawaii and Puerto Rico, except for imports and exports. See *Historical Statistics, Colonial Times to 1970*, series M 235-241, for copper in short tons]

ITEM	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>New (primary) copper produced:</b>									
Mines (from domestic ores) . . . . .	1,181	1,147	1,038	1,103	1,105	1,144	1,244	1,417	1,497
Copper ore produced <sup>1</sup> (mil. metric tons) . . . . .	222	182	178	172	165	172	203	224	237
Average yield of copper (percent) . . . . .	0.48	0.55	0.51	0.58	0.62	0.62	0.58	0.50	0.49
Smelters (from domestic ores) . . . . .	994	941	888	990	939	908	972	2,104	2,120
Percent of world total . . . . .	13	12	11	12	11	10	11	12	(NA)
Refineries (from domestic ores) . . . . .	1,126	1,065	1,029	1,090	1,004	1,074	2,127	2,106	1,352
From foreign ores, matte, etc., refinery . . . . .	89	162	154	75	54	(D)	(D)	(D)	125
Total new refined, domestic and foreign . . . . .	1,215	1,227	1,182	1,165	1,057	1,074	1,146	1,406	1,477
Secondary copper produced . . . . .	1,437	1,187	1,084	1,120	1,139	1,136	1,214	1,312	1,258
Recovered from old scrap only . . . . .	613	518	449	461	503	477	498	519	547
Imports (unmanufactured) <sup>3</sup> . . . . .	555	513	675	552	444	597	568	512	458
Refined . . . . .	427	258	460	445	378	502	469	332	300
Exports of refined metallic copper . . . . .	14	31	81	91	38	12	9	58	134
Stocks (refined), Dec. 3 <sup>4</sup> . . . . .	294	676	692	564	320	225	113	98	104
Mine production of recoverable copper . . . . .	1,181	1,147	1,038	1,103	1,105	1,144	1,244	1,417	1,497
Arizona . . . . .	770	770	678	746	796	786	751	843	898
Montana . . . . .	38	65	33	(D)	15	(D)	(D)	(D)	(D)
New Mexico . . . . .	149	(D)	(D)	(D)	(D)	247	(D)	259	259
Utah . . . . .	158	189	170	(D)	(D)	(D)	(D)	(D)	(D)
Other States . . . . .	66	123	157	357	294	111	493	315	340
Avg. price, domestic production (cents per lb.) . . . .	102	74	79	68	67	66	83	121	131
World smelter production . . . . .	7,649	7,951	8,120	8,391	8,664	8,715	8,865	9,023	(D)
World smelter capacity . . . . .	10,201	10,724	10,939	10,972	11,001	11,221	11,600	11,653	(D)

D Withheld to avoid disclosure. NA Not available. <sup>1</sup> Includes old tailings. Not comparable with mine production figures which include recoverable copper content of ores not classified as "copper." <sup>2</sup> Includes production from foreign ores. <sup>3</sup> Includes copper imported for immediate consumption plus material entering country under bond. Includes imports for consumption. Comprises copper in ores and concentrates, matte, refined, blister, and scrap. <sup>4</sup> Includes producers, consumers, COMEX and U.S. Government.

## No. 1245. Cobalt—Summary: 1980 to 1989

[In millions of pounds of contained cobalt, except price]

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989, prel.
<b>Production: Secondary (scrap) <sup>1</sup> . . . . .</b>	<b>1.2</b>	<b>1.0</b>	<b>0.9</b>	<b>0.7</b>	<b>0.9</b>	<b>0.9</b>	<b>2.6</b>	<b>2.5</b>	<b>2.5</b>	<b>(NA)</b>
Imports . . . . .	16.3	15.6	12.9	17.2	25.3	17.7	12.3	19.5	15.5	12.7
Zaire . . . . .	6.2	4.2	5.0	7.7	11.8	4.8	0.7	9.4	5.4	2.2
Zambia . . . . .	2.2	1.5	1.2	2.3	3.8	4.3	3.5	2.9	2.7	3.1
Canada . . . . .	1.1	1.8	1.5	2.0	3.1	3.1	3.4	3.4	3.6	2.7
Exports <sup>3</sup> . . . . .	0.6	0.8	0.6	0.8	0.7	0.6	1.0	0.8	1.2	0.9
Consumption (reported) . . . . .	15.3	11.7	9.5	11.3	12.9	13.5	14.4	14.9	16.0	(NA)
Inventories . . . . .	43.3	42.2	47.1	47.4	47.6	54.3	54.6	55.2	54.8	(NA)
Government <sup>4</sup> . . . . .	40.8	40.8	45.7	46.0	46.2	53.2	53.1	53.1	53.1	53.1
Private <sup>3</sup> . . . . .	2.5	1.4	1.3	1.4	1.4	1.1	1.5	2.1	1.7	(NA)
Price per pound <sup>5</sup> (dollars) . . . . .	25.00	14.58	8.56	5.76	10.40	11.43	7.49	6.56	7.09	7.64

NA Not available. <sup>1</sup> Reported consumption. <sup>2</sup> Includes countries not shown separately. <sup>3</sup> 1980 to 1988—estimated content of unwrought cobalt and waste and scrap. 1989 also includes oxides, acetates and chlorides. <sup>4</sup> Includes cobalt sold but not delivered. <sup>5</sup> Consumer stocks only. <sup>6</sup> 1980 price is producer price, thereafter; prices are weighted average based on the market price quoted by *Metals Week*.

Source of tables 1243-1245: U.S. Bureau of Mines, *Minerals Yearbook*.



## No. 1246. Nickel—Summary: 1980 to 1989

[Quantities in thousands of short tons, except as indicated. Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. See also *Historical Statistics, Colonial Times to 1970*, series M 231-234]

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1988, prel.	1989, prel.
Mine production (gross weight) . . .	1,852	1,794	432	-	1,675	868	603	-	-	-
Plant production:										
Primary <sup>1</sup> . . . . .	11	10	3	(D)	10	5	2	-	-	<sup>1</sup>
Secondary <sup>2</sup> . . . . .	49	52	43	50	53	54	44	-	63	62
Imports (est. nickel content) . . . . .	189	209	130	152	177	158	129	154	154	139
Exports (est. nickel content) . . . . .	57	49	57	44	44	35	15	15	21	24
Consumption . . . . .	206	206	181	201	211	211	181	195	194	181
Stocks (consumer), Dec. 31 . . . . .	15	23	19	20	21	19	17	-	12	9
Price per pound (dollars) . . . . .	2.96	2.71	2.18	2.18	2.16	2.26	1.76	2.28	6.25	6.05
World production, est. . . . .	859	805	675	742	847	896	869	910	961	1,027

- Represents zero. D Withheld to avoid disclosing company proprietary data. <sup>1</sup> From domestic ores. <sup>2</sup> Includes nickel recovered from iron and steel scrap. <sup>3</sup> Represents London Metal Exchange price.

## No. 1247. Tin—Summary: 1980 to 1989

[In metric tons, except price. See headnote, table 1237, for exclusions]

ITEM	1980	1982	1983	1984	1985	1986	1987	1988	1989, prel.
<b>Production:</b> Domestic smelters . . . . .	3,000	3,500	2,500	4,000	3,000	3,213	3,905	1,487	1,000
Secondary sources . . . . .	18,638	14,283	14,205	15,417	14,109	14,850	16,159	15,249	15,213
Imports for consumption:									
Metal . . . . .	45,982	27,939	34,048	41,224	33,830	35,768	41,150	43,493	33,988
Ore (tin content) . . . . .	840	1,961	969	3,272	1,618	3,936	2,953	2,837	216
Exports . . . . .	595	5,769	1,340	1,429	1,478	1,547	1,318	1,209	904
Price of Straits tin at NY, dol. per lb. . . . .	8.46	6.54	6.55	6.24	5.96	3.83	4.19	4.41	5.2
Consumption, primary and secondary . . . . .	56,362	46,295	45,547	46,315	48,689	43,524	44,219	45,601	46,371
World mine production, est. . . . .	247,300	219,463	196,942	188,183	180,725	172,471	178,131	200,150	216,457

<sup>1</sup> See footnote 5, table 1221.

## No. 1248. Tungsten Concentrate—Summary: 1970 to 1989

[Excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1970*, series M 225-226, for related data]

ITEM	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989, prel.
<b>Production:</b>	1,000 sh. ton.										
Concentrates (60% WO <sub>2</sub> basis) <sup>1</sup> . . . . .	ton.	10.1	6.3	3.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Tungsten content . . . . .	Mil. lb.	9.3	6.0	3.5	2.2	2.6	2.2	1.8	0.1	(NA)	(NA)
<b>Shipments from mines:</b>											
Reported value f.o.b. mines . . . . .	Mil. dol.	23.8	50.6	22.1	10.5	13.4	9.1	5.8	0.2	(NA)	(NA)
Avg. value per lb. of tungsten . . . . .	Dollars	2.55	8.38	6.35	4.70	5.20	4.23	3.21	2.88	(NA)	(NA)
Imports for consumption <sup>2</sup> . . . . .	Mil. lb.	31.3	11.4	7.8	6.3	12.8	10.5	5.6	9.7	17.7	17.4
Consumption <sup>2</sup> . . . . .	Mil. lb.	16.7	20.4	9.9	11.4	18.9	15.1	10.6	12.1	17.3	17.0
Stocks, end of year . . . . .	Mil. lb.	2.2	1.4	4.0	2.5	2.2	2.5	1.2	0.8	1.1	2.8
World production <sup>2</sup> . . . . .	Mil. lb.	71.4	114.6	103.7	90.2	101.8	102.7	95.6	93.0	93.9	95.4

NA Not available. <sup>1</sup> A short ton of 60% tungsten trioxide (WO<sub>3</sub>) contains 951.72 pounds of tungsten. <sup>2</sup> Tungsten content. <sup>3</sup> General imports.

Source of tables 1246-1248: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1249. Uranium Concentrate (U<sub>3</sub>O<sub>8</sub>) Industry—Summary: 1980 to 1989

[Middle demand case. See table 981. See also *Historical Statistics, Colonial Times to 1970*, series M266-267]

ITEM	Unit	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Production . . . . .	1,000 sh. tons	21.9	19.2	13.4	10.6	7.4	5.6	6.8	6.5	6.5	6.9
Net imports (U <sub>3</sub> O <sub>8</sub> ) . . . . .	1,000 sh. tons	-1.1	-1.1	6.3	2.4	5.2	3.2	6.0	6.9	6.2	5.5
Utility and Suppliers inventories (U <sub>3</sub> O <sub>8</sub> equivalent) . . . . .	1,000 sh. tons	54.4	64.0	68.6	80.0	<sup>1</sup> 74.7	<sup>1</sup> 68.3	<sup>1</sup> 66.2	<sup>1</sup> 64.5	<sup>1</sup> 59.1	<sup>1</sup> 54.9
Price (1988 dol./lb. U <sub>3</sub> O <sub>8</sub> ):											
Long-term contract price . . . . .	Dollars	41.4	34.3	30.2	31.7	26.4	24.7	19.3	18.5	(NA)	(NA)
Spot market price . . . . .	Dollars	45.0	31.3	24.3	26.8	19.4	17.0	18.1	17.3	14.5	14.2
Delivered price . . . . .	Dollars	39.9	41.7	48.5	44.6	<sup>2</sup> 36.5	<sup>2</sup> 33.6	<sup>2</sup> 31.9	<sup>2</sup> 19.6	<sup>2</sup> 25.7	<sup>2</sup> 27.8
Capital expenditures (1988 dollars) . . . . .	Mil. dol.	1,107	538	202	78	43	37	29	63	36	35
Employment . . . . .	1,000	19.9	13.7	9.0	5.6	3.6	2.4	2.1	2.0	2.1	1.6

NA Not available. <sup>1</sup> Includes natural U<sub>3</sub>O<sub>8</sub> (uranium oxide), natural UF<sub>6</sub> (uranium hexafluoride), natural UF<sub>6</sub> under usage agreement, UF<sub>6</sub> at enrichment suppliers, enriched UF<sub>6</sub> and fabricated fuel. <sup>2</sup> Average U.S. contract prices and market price settlements.

Source: U.S. Department of Energy, *Domestic Uranium Mining and Milling Industry*, annual, and *Uranium Industry*, annual.

## No. 1250. Zinc—Summary: 1980 to 1989

[Production in thousands of metric tons, except value. Excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1970*, series M 249-250, for production in short tons]

ITEM AND STATE	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989, prel.
<b>Smelter production, primary slab zinc</b> . . . . .	<b>340</b>	<b>347</b>	<b>228</b>	<b>236</b>	<b>253</b>	<b>261</b>	<b>253</b>	<b>261</b>	<b>241</b>	<b>263</b>
Value (mil. dol.) . . . . .	280	341	194	215	271	232	212	241	320	476
From domestic ores . . . . .	232	260	193	210	198	198	191	205	196	166
From foreign ores . . . . .	108	87	35	26	55	83	62	56	45	97
Production, redistilled secondary slab zinc . . . . .	29	50	74	69	78	73	63	83	88	95
Avg. price of common zinc (cents per lb.) . . . . .	37.4	44.6	38.5	41.4	48.6	40.4	38.0	41.9	60.2	82.1
World smelter production, est. . . . .	6,049	6,081	5,894	6,249	6,527	6,786	6,691	7,010	7,098	(NA)
World smelter and refining capacity . . . . .	7,650	(NA)	(NA)	7,200	7,800	7,900	7,900	7,900	7,950	8,000
<b>Mine production, recoverable zinc</b> . . . . .	<b>317</b>	<b>312</b>	<b>303</b>	<b>275</b>	<b>253</b>	<b>227</b>	<b>203</b>	<b>216</b>	<b>244</b>	<b>273</b>
Colorado . . . . .	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Idaho . . . . .	28	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Missouri . . . . .	63	53	64	57	45	49	38	35	41	51
New York . . . . .	34	37	52	57	(D)	(D)	(D)	(D)	(D)	(D)
Tennessee . . . . .	112	118	121	110	117	104	102	116	120	(D)
Other States . . . . .	66	104	66	51	91	74	63	65	83	222

D Withheld to avoid disclosure of individual company data. NA Not available.

Source: U.S. Bureau of Mines, *Minerals Yearbook*, and *Mineral Facts and Problems*.

## No. 1251. Bauxite—Summary: 1980 to 1989

[See *Historical Statistics, Colonial Times to 1970*, series M 256-257, for bauxite in short tons]

ITEM	Unit	1980	1983	1984	1985	1986	1987	1988	1989 <sup>1</sup>
<b>Production:</b>									
Crude ore . . . . .	Mil. metric ton . . . . .	1.9	0.8	1.0	0.8	0.6	0.7	0.7	(D)
Dried bauxite . . . . .	Mil. metric ton . . . . .	1.6	0.7	0.9	0.7	0.5	0.6	0.7	(D)
Value . . . . .	Mil. dol. . . . .	22.4	11.3	15.6	12.9	10.4	10.9	10.6	(D)
<b>Imports<sup>2</sup> (crude, dried)</b> . . . . .	<b>Mil. metric ton . . . . .</b>	<b>14.1</b>	<b>7.6</b>	<b>9.4</b>	<b>7.2</b>	<b>6.5</b>	<b>9.2</b>	<b>10.0</b>	<b>10.7</b>
Jamaica . . . . .	Mil. metric ton . . . . .	6.1	3.0	3.8	1.5	2.1	2.8	2.7	3.3
Guinea . . . . .	Mil. metric ton . . . . .	4.1	3.6	3.7	3.8	3.4	4.3	4.5	3.4
Suriname . . . . .	Mil. metric ton . . . . .	1.4	0.2	0.3	12.0	0.1	0.1	-	-
Value . . . . .	Mil. dol. . . . .	380.5	226.9	310.9	210.1	188.8	229.2	250.9	305.0
Exports (as shipped) . . . . .	1,000 metric ton . . . . .	21.0	74.0	82.0	56.0	69.0	201.0	63	44
Consumption (dry equivalent) . . . . .	Mil. metric ton . . . . .	16.0	9.1	10.5	8.2	6.9	9.5	10.1	11.8
World production, est . . . . .	Mil. metric ton . . . . .	89.2	78.7	87.8	84.5	86.1	90.3	97.9	105.0

- Represents or rounds to zero. D Withheld to avoid disclosure. <sup>1</sup> Preliminary. <sup>2</sup> Includes countries not shown separately.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

## No. 1252. Aluminum—Summary: 1980 to 1989

[See *Historical Statistics, Colonial Times to 1970*, series M 258-262, for aluminum in short tons]

ITEM	Unit	1980	1982	1983	1984	1985	1986	1987	1988	1989 <sup>1</sup>
<b>Production</b> . . . . .	<b>1,000 metric ton</b>	<b>5,914</b>	<b>4,740</b>	<b>4,917</b>	<b>5,859</b>	<b>5,262</b>	<b>4,810</b>	<b>5,329</b>	<b>6,066</b>	<b>6,084</b>
Primary aluminum . . . . .	1,000 metric ton . . . . .	4,654	3,274	3,353	4,099	3,500	3,037	3,343	3,944	4,030
Plant capacity, U.S. . . . .	1,000 metric ton . . . . .	(NA)	(NA)	5,001	(NA)	4,706	4,038	3,895	3,960	4,016
<b>Secondary aluminum<sup>2</sup></b> . . . . .	<b>1,000 metric ton</b>	<b>1,260</b>	<b>1,466</b>	<b>1,564</b>	<b>1,760</b>	<b>1,762</b>	<b>1,773</b>	<b>1,986</b>	<b>2,122</b>	<b>2,054</b>
Value <sup>3</sup> (primary metal) . . . . .	Bil. dol. . . . .	9.3	7.9	8.4	10.5	9.4	8.6	8.5	14.7	11.8
Primary aluminum . . . . .	Bil. dol. . . . .	7.3	5.5	5.8	7.3	6.3	5.4	5.3	9.6	7.8
Price . . . . .	Cents/lb. . . . .	71.6	76.0	77.8	81.0	81.0	81.0	81.0	81.0	87.8
Secondary aluminum <sup>3</sup> . . . . .	Bil. dol. . . . .	2.0	2.4	2.6	3.2	3.1	3.2	3.2	5.1	4.0
<b>Imports for consumption<sup>4</sup></b> . . . . .	<b>1,000 metric ton</b>	<b>647</b>	<b>878</b>	<b>1,091</b>	<b>1,477</b>	<b>1,420</b>	<b>1,967</b>	<b>1,850</b>	<b>1,620</b>	<b>1,661</b>
Value . . . . .	Bil. dol. . . . .	0.1	1.3	1.6	2.5	2.0	2.7	2.9	3.5	3.7
<b>Exports<sup>5</sup></b> . . . . .	<b>1,000 metric ton</b>	<b>1,346</b>	<b>748</b>	<b>776</b>	<b>734</b>	<b>908</b>	<b>753</b>	<b>917</b>	<b>1,247</b>	<b>1,613</b>
Value . . . . .	Bil. dol. . . . .	2.4	1.2	1.3	1.3	1.3	1.2	1.6	2.9	3.4
<b>Shipments<sup>6</sup> (net domestic)</b> . . . . .	<b>1,000 metric ton</b>	<b>5,515</b>	<b>5,090</b>	<b>5,857</b>	<b>6,552</b>	<b>6,382</b>	<b>6,545</b>	<b>6,813</b>	<b>6,851</b>	<b>6,857</b>
World production, est . . . . .	1,000 metric ton . . . . .	15,383	13,433	13,904	15,705	15,398	15,354	16,378	17,608	17,980
World plant capacity . . . . .	1,000 metric ton . . . . .	16,978	17,403	17,737	18,215	18,010	17,855	17,968	18,480	(NA)

NA Not available. <sup>1</sup> Preliminary. <sup>2</sup> Recoverable aluminum content from scrap, old and new. <sup>3</sup> Calculated based on published prices for primary metal. See footnote 4. <sup>4</sup> 1980-1986, U.S. producer prices, from *Metals Week*; thereafter, U.S. market price, from *Metals Week*. <sup>5</sup> Based on 7 months. <sup>6</sup> U.S. spot price. <sup>7</sup> Crude and semicrude (including metal and alloys, plates, bars, etc., and scrap). <sup>8</sup> Compiled by Aluminum Association from data on net shipments of aluminum and mill products. Includes changes in aluminum industry and government inventories and net trade.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

## No. 1253. Magnesium—Summary: 1980 to 1989

[In thousands of metric tons, except as indicated. Magnesium metal is used primarily in the manufacturing of aircraft, automotive, and other types of transportation equipment, material-handling equipment, power tools, and alloying with other metals]

ITEM	1980	1982	1983	1984	1985	1986	1987	1988	1989 <sup>1</sup>
Production (domestic) . . . . .	189	132	146	188	178	168	169	192	203
Primary <sup>2</sup> . . . . .	153	93	104	144	136	126	124	142	152
Secondary (recovered from scrap) . . . . .	36	39	42	44	42	42	45	50	51
Exports . . . . .	52	36	43	44	36	40	45	50	57
Value (mil. dol.) . . . . .	127.7	104.8	124.7	136.7	113.6	122.4	130.7	145.3	170.4
Imports . . . . .	4	5	5	8	8	8	11	14	12
Value (mil. dol.) . . . . .	8.3	15.6	16.3	25.7	25.1	24.6	31.0	39.3	37.9
Consumption . . . . .	67	68	74	82	84	79	95	101	105
Castings and wrought products . . . . .	15	13	14	13	15	16	17	20	19
Alloys (aluminum) . . . . .	49	36	41	44	37	37	50	51	52
Other . . . . .	22	19	19	25	24	17	17	30	34
Price per pound (cents) . . . . .	( <sup>3</sup> )	134	138	( <sup>3</sup> )	( <sup>3</sup> )	153	153	( <sup>3</sup> )	163
World production (primary) . . . . .	316	254	260	327	325	322	324	334	344

<sup>1</sup> Preliminary. <sup>2</sup> For 1980, figures are the difference between total North American production reported by the International Magnesium Association and Canadian production. <sup>3</sup> Price range for 1980, 107-125 cents; 1984, 143-148 cents; 1985, 148-153 cents; and 1988, 158-163 cents. <sup>4</sup> Estimated.

## No. 1254. Platinum-Group Metals—Summary: 1980 to 1989

[In thousands of troy ounces, except as indicated. The platinum group is comprised of six closely related metals. The metals commonly occur together in nature and are among the scarcest of the metallic elements. The metals are refractory, are chemically inert toward a wide variety of materials even at high temperatures; are used as catalysts in the chemical, petroleum refining, and automotive industries, and as corrosion-resistant materials in the chemical, electrical, glass, and dental-medical industries]

ITEM	1980	1982	1983	1984	1985	1986	1987	1988 <sup>1</sup>	1989 <sup>1</sup>
<b>World mine production, total<sup>2</sup> . . . . .</b>	<b>6,848</b>	<b>6,424</b>	<b>6,525</b>	<b>7,653</b>	<b>7,941</b>	<b>8,314</b>	<b>8,593</b>	<b>281,854</b>	<b>283,643</b>
United States . . . . .	3	8	6	15	(D)	(D)	(D)	1,240	1,430
Soviet Union . . . . .	3,250	3,500	3,600	3,700	3,800	3,850	3,900	127,500	127,500
South Africa . . . . .	3,100	2,600	2,600	3,500	3,700	3,960	4,220	133,300	135,800
<b>Refinery production, total domestic . . . . .</b>	<b>1,413</b>	<b>1,222</b>	<b>1,307</b>	<b>1,521</b>	<b>1,304</b>	<b>1,513</b>	<b>1,615</b>	<b>51,488</b>	<b>50,546</b>
Primary refined . . . . .	3	9	9	24	7	4	6	297	339
Secondary refined . . . . .	1,410	1,213	1,298	1,497	1,297	1,509	1,609	51,191	50,207
Imports . . . . .	3,502	2,494	3,218	4,474	3,990	4,477	3,807	124,324	113,278
Value (mil. dol.) . . . . .	1,177	554	753	1,118	1,026	1,347	1,240	1,348	1,382
Exports . . . . .	765	836	1,229	1,162	889	751	708	28,787	38,128
Value (mil. dol.) . . . . .	341	182	310	275	187	202	225	310	398
Consumption . . . . .	2,206	1,873	1,914	2,200	2,271	2,080	1,938	70,998	78,439
Industry stocks, Jan. 1 . . . . .	761	918	1,107	943	1,319	1,129	1,292	35,515	32,543
Producer price per troy ounce (dol.):									
Platinum . . . . .	439	475	475	475	475	519	600	600	600
Palladium . . . . .	214	110	130	147	127	131	150	150	150
Rhodium . . . . .	766	600	600	625	915	1,196	1,239	1,275	1,275
Iridium . . . . .	505	600	600	600	600	600	532	420	(NA)

D Withheld to avoid disclosing company proprietary data. NA Not available. <sup>1</sup> 1988 and 1989 data reported in Kilograms. <sup>2</sup> Includes countries not shown separately. <sup>3</sup> Reported sales to industry.

## No. 1255. Titanium—Summary: 1980 to 1989

[In 1,000 metric tons, except as indicated. In 1985, approximately 63 percent of the titanium metal was used in jet engines, airframes, and space and missile applications; approximately 20 percent was used in the chemical processing industry, power generation, and in marine and ordinance applications; and 17 percent in steel and other alloys]

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989 <sup>1</sup>
<b>Ilmenite concentrate:</b>										
Mine shipments . . . . .	539	475	211	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Value (mil. dol.) . . . . .	32.0	37.0	19.1	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Imports . . . . .	324	214	316	235	372	460	423	308	394	412
Value (mil. dol.) . . . . .	6.7	5.9	8.8	9.3	11.1	14.6	16.8	12.0	19.5	25.5
Consumption . . . . .	770	777	529	663	710	686	731	744	679	660
<b>Titanium dioxide pigments:</b>										
Production . . . . .	660	690	599	689	758	784	845	864	927	1,007
Imports for consumption . . . . .	89	113	126	159	176	178	184	174	185	166
Apparent consumption . . . . .	683	731	672	774	831	894	908	966	992	947
Price, Dec. 31:										
Anatase (cents per lb.) . . . . .	57	69	69	69	69	72	77	77	95	102
Rutile (cents per lb.) . . . . .	63	75	75	75	75	78	82	82	97	105
<b>World production:</b>										
Ilmenite concentrate . . . . .	3,726	3,648	3,029	<sup>2</sup> 2,674	<sup>2</sup> 3,475	<sup>2</sup> 3,456	<sup>2</sup> 3,420	<sup>2</sup> 3,879	<sup>2</sup> 4,003	<sup>2</sup> 4,213
Titanium slag . . . . .	1,191	1,129	1,050	1,052	1,143	1,280	1,285	1,575	1,725	1,765
Rutile concentrate, natural <sup>2</sup> . . . . .	435	362	338	316	341	373	394	439	434	476

D Withheld to avoid disclosing company proprietary data. <sup>1</sup> Preliminary. <sup>2</sup> Excludes U.S. production data to avoid disclosing company proprietary data.

Source of tables 1253-1255: U.S. Bureau of Mines, *Minerals Yearbook*.

## No. 1256. Chromite—Summary: 1980 to 1989

[In thousands of metric tons, except as indicated]

ITEM	1980	1982	1983	1984	1985	1986	1987	1988	1989
Imports for consumption <sup>1</sup>	891	460	173	276	376	443	490	615	525
Value (mil. dol.)	57	30	10	15	20	22	24	42	44
South Africa	367	251	131	214	273	309	251	387	368
Soviet Union	154	31	(Z)	-	-	20	19	18	11
Philippines	125	64	12	44	38	17	15	2	22
Exports	5	7	10	50	91	84	1	4	40
Reexports	40	52	4	3	3	1	5	1	2
Consumption, total	886	506	290	465	508	388	504	551	561
Metallurgical industry	740	434	225	376	449	342	459	495	517
Refractory industry	145	72	65	88	59	45	46	56	44
Stocks, Dec. 31 (consumer)	613	495	413	297	272	285	332	390	392
World production <sup>1</sup>	9,902	8,480	8,210	9,776	10,935	11,547	11,355	12,167	11,901
South Africa	3,414	2,431	2,466	3,407	3,699	3,907	3,847	4,245	3,800
Soviet Union	2,903	2,939	2,939	2,940	3,360	3,640	3,570	3,700	3,800
Philippines	496	322	267	261	272	174	188	190	190

- Represents zero. Z Less than 500 short tons. <sup>1</sup> Includes countries not shown separately.Source: U.S. Bureau of Mines, *Minerals Yearbook*.

## No. 1257. Ferroalloys—Summary: 1980 to 1989

[Domestic production data for ferroalloys are developed by the Bureau of Mines by means of monthly and annual surveys. Ferroalloy is defined as an alloy of iron and contains a sufficient amount of one or more chemical elements to be useful as an agent for introducing these elements into molten metal, usually steel. The major consumers of ferroalloys are the steel and ferrous foundry industries; see tables 1330-1334]

ITEM	QUANTITY				VALUE (mil. dol.)					
	1,000 short tons		1,000 (metric tons)							
	1980	1985	1987	1988	1989, prel.	1980	1985	1987	1988	1989, prel.
<b>Domestic shipments <sup>1</sup></b>	<b>1,486</b>	<b>942</b>	<b>872</b>	<b>894</b>	<b>894</b>	<b>1,130</b>	<b>699</b>	<b>719</b>	<b>936</b>	<b>928</b>
Ferromanganese	194	157	129	(3)	(3)	100	101	225	(3)	(3)
Silicomanganese	162	(4)	(4)	(3)	(3)	70	(4)	(4)	(3)	(3)
Manganese metal	(NA)	(4)	(4)	(3)	(3)	(NA)	(4)	(4)	(3)	(3)
Ferrosilicon	681	405	375	431	437	443	190	193	299	320
Silicon metal	125	122	150	147	133	(NA)	157	187	219	176
Chromium alloys	238	109	127	(3)	(3)	180	98	107	(3)	(3)
Ferrophosphorus	85	55	41	46	63	13	8	6	10	10
<b>U.S. exports</b>	<b>156</b>	<b>106</b>	<b>93</b>	<b>95</b>	<b>112</b>	<b>174</b>	<b>135</b>	<b>165</b>	<b>281</b>	<b>182</b>
Ferroalloys	129	99	78	76	102	93	63	45	76	83
Metals	27	8	15	19	10	81	72	116	205	99
Silicon	14	2	9	9	5	66	62	106	184	84
Manganese	12	5	6	9	5	12	7	10	16	11
<b>U.S. imports <sup>1</sup></b>	<b>1,149</b>	<b>1,131</b>	<b>1,229</b>	<b>1,455</b>	<b>1,296</b>	<b>644</b>	<b>601</b>	<b>643</b>	<b>1,140</b>	<b>1,181</b>
Ferroalloys	1,116	1,067	1,124	1,384	1,237	586	488	436	986	1,057
Manganese alloys	684	533	559	693	664	241	156	172	304	398
Ferrosilicon	71	155	231	210	178	43	74	109	158	132
Chromium alloys	302	335	334	432	351	156	159	155	357	335
Metals	33	64	50	71	58	58	112	108	154	125
Silicon	21	52	37	56	43	21	83	74	109	80
Chromium	4	4	4	4	4	28	20	24	30	28
Manganese	8	9	9	11	11	8	9	10	15	17

NA Not available. <sup>1</sup> Includes other not shown separately. <sup>2</sup> Includes fused-salt electrolytic low and medium-carbon ferromanganese. <sup>3</sup> Included in "Domestic Shipments." <sup>4</sup> Included with ferromanganese.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

## No. 1258. Beryllium—Summary: 1980 to 1989

[In metric tons, except as indicated. Represents beryllium mineral concentrates. Beryllium has great stiffness, (exceeding that of other metals, including steels), useful heat dissipation properties, a very high strength-to-weight ratio, useful nuclear moderating and reflecting properties, and excellent corrosion resistance. Its major use is as a beryllium-copper alloy in communications, computers, switching, and other electronic and electrical applications]

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989, prel.
Imports for consumption	1,545	1,940	2,406	1,990	1,208	1,493	1,370	2,088	884	601
Consumption <sup>1</sup>	7,718	7,385	4,887	6,340	8,167	7,167	7,212	8,074	6,068	5,432
Price, per short ton unit BeO <sup>2</sup> (dollars)	69	94	121	126	88	87	88	84	83	90
Year-end stocks	1,225	2,017	4,638	6,384	5,128	4,513	4,423	4,105	3,958	3,832
World production of beryl	9,319	9,624	8,167	9,147	8,982	8,141	8,259	7,932	8,302	7,586

<sup>1</sup> Includes bertrandite ore which was calculated as equivalent to beryl containing 11% BeO. <sup>2</sup> Approximate.Source: U.S. Bureau of Mines, *Minerals Yearbook*.



## Section 26

# Construction and Housing

This section presents data on the construction industry and on various indicators of its activity and costs; on housing units and their characteristics and occupants; on public housing; on mortgages; and on commercial buildings.

The principal source of these data is the U.S. Bureau of the Census, which issues a variety of current publications. Construction statistics compiled by the Bureau appear in its monthly *Current Construction Reports* series with various quarterly or annual supplements; *Housing Starts* and *Housing Completions* present data by type of structure and by 4 major census regions; *New One-Family Houses Sold and For Sale* also provides statistics annually on physical and financial characteristics for all new housing by the 4 major census regions; *Price Index of New One-Family Houses Sold* presents quarterly figures and annual regional data; and *Housing Units Authorized by Building Permits* covers approximately 17,000 permit-issuing jurisdictions in the United States. Statistics on expenditures by owners of residential properties are issued quarterly and annually in *Expenditures for Residential Upkeep and Improvements*. *Value of New Construction Put in Place* presents data on all types of construction and includes monthly composite cost indexes. Reports of the censuses of construction industries (see below) are also issued on various topics.

Other Census Bureau publications include the *Current Housing Reports* series, which comprises the quarterly *Housing Vacancies*, the quarterly *Market Absorption of Apartments*, the American Housing Survey (formerly Annual Housing Survey) and reports of the censuses of housing and of construction industries. *Construction Review*, published quarterly by the International Trade Administration, U.S. Department of Commerce, contains many of the census series and other construction statistics series from the Federal Government and private agencies.

Other sources include the monthly *Dodge Construction Potentials* of F. W. Dodge Division, McGraw-Hill Information Systems Company, New York, NY, which presents State data on construction contracts; the National Association of Home Builders with State-level data on housing starts; the NATIONAL ASSOCIATION OF REALTORS, which presents data on existing home sales and commercial office space; the Bureau of Economic Analysis, which presents data on residential capital and gross housing product; and the U.S. Office of Thrift Supervision (formerly the Federal Home Loan Bank Board), the Department of Housing and Urban Development (HUD), and the Department of Veterans Affairs, which publish financial data. Data on conventional home mortgages are provided by the U.S. Office of Thrift Supervision. The Department of Housing and Urban Development provides data on the gross flow of long-term mortgage loans in its study, *The Supply of Mortgage Credit, 1970-1979*. Data on mortgages insured by the Federal Housing Administration (FHA) and on VA-guaranteed loans are also presented in this section. The Energy Information Administration provides data on commercial buildings through its periodic sample surveys.

**Censuses and surveys.**—Censuses of the construction industry were first conducted by the Bureau of the Census for 1929, 1935, and 1939; beginning in 1967, a census has been taken every 5 years (for years ending in "2" and "7"). The latest reports are for 1987.

The 1987 Census of Construction Industries, in accordance with the 1987 *Standard Industrial Classification Manual* (see text, section 13), covers all employer establishments primarily engaged in (1) building construction by general contractors or operative builders; (2) heavy (non-building) construction by general contractors; and (3) construction by special trade contractors.

From 1850 through 1930, the Bureau of the Census collected some housing data as part of its censuses of population and agriculture. Beginning in 1940, separate censuses of housing have been taken at 10-year intervals. For the 1970 and 1980 censuses, data on year-round housing units were collected and issued on occupancy and structural characteristics, plumbing facilities, value, and rent.

Evaluation studies of the 1950, 1960, 1970, and 1980 censuses estimated the underenumeration of occupied housing units at 2.9 percent, 2.4 percent, 1.7 percent, and 1.5 percent respectively. The missed rate in 1980 for all housing units was 2.6 percent or approximately 2.3 million units, 1 million of which were vacant housing units.

The American Housing Survey (*Current Housing Reports* series H-150 and H-170), which began in 1973, provided an annual and ongoing series of data on selected housing and demographic characteristics until 1983. In 1984 the name of the survey was changed from the Annual Housing Survey. It is currently based on a biennial national sample and on 11 annual MSA samples. All samples represent a cross section of the housing stock in their respective areas. Estimates are subject to both sampling and nonsampling errors; caution should therefore, be used in making comparisons with 1970 and 1980 census data.

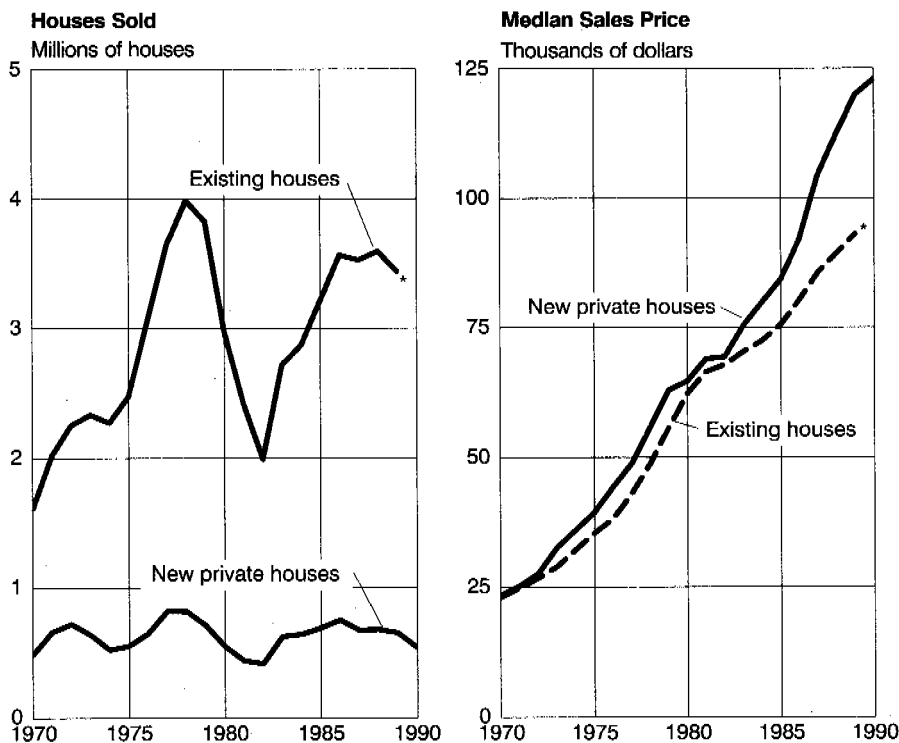
Data on residential mortgages were collected continuously from 1890 to 1970, except 1930, as part of the decennial census by the Bureau of the Census. Since 1973, mortgage status data, which are limited to single family homes on less than ten acres with no business on the property, have been presented in the American Housing Survey.

**Housing units.**—In general, a housing unit is a group of rooms or a single room occupied or intended for occupancy as separate living quarters; that is, the occupants do not live and eat with any other persons in the structure and there is direct access from the outside or through a common hall. Transient accommodations, barracks for workers, and institutional-type quarters are not counted as housing units.

**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

**Historical statistics.** Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States; Colonial Times to 1970*. See Appendix IV.

Figure 26.1

**Single-Family Houses Sold and Sales Price: 1970 to 1990**

Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1272, 1273, and 1275.

**No. 1259. Construction Industries—Summary, by Industry: 1987**

[Based on a probability sample of about 160,000 construction establishments with payroll in 1987; see Appendix III.  
N.e.c. = Not elsewhere classified]

SIC <sup>1</sup> code	INDUSTRY	Estab- lish- ments with payroll (1,000)	EMPLOYEES (1,000)		PAYROLL (mil. dol.)		VALUE OF CONSTRUCTION WORK (mil. dol.)		Value added <sup>3</sup> (mil. dol.)
			Total	Con- struction workers	Total	Con- struction workers	Total	Net <sup>2</sup>	
(X)	<b>All industries, total</b>	<b>544.2</b>	<b>5,054</b>	<b>3,989</b>	<b>111,067</b>	<b>79,742</b>	<b>499,982</b>	<b>367,746</b>	<b>230,174</b>
	Contract construction	536.3	5,015	3,979	110,200	79,589	495,346	365,241	227,934
15	General building contractors	157.8	1,278	926	27,870	17,204	212,629	111,019	65,514
1521	Single-family houses	90.4	396	307	6,272	4,343	39,098	27,319	14,970
1522	Other residential buildings	8.1	82	61	1,752	1,130	13,316	6,257	3,659
1531	Operative builders	20.8	169	80	4,385	1,478	48,960	26,837	15,173
1541	Industrial buildings and warehouses	7.0	143	111	3,619	2,497	21,462	11,095	6,882
1542	Nonresidential buildings, n.e.c.	31.3	488	367	11,843	7,756	89,793	39,510	24,831
16	Heavy construction contractors	36.6	827	683	20,408	15,461	82,285	68,435	44,940
1611	Highway and street construction	11.0	284	239	7,041	5,397	34,161	27,984	17,120
1622	Bridge, tunnel, and elevated highway	1.2	47	40	1,192	910	5,481	4,187	2,430
1623	Water, sewer, and utility lines	10.0	198	166	4,513	3,428	17,010	15,055	10,090
1629	Heavy construction, n.e.c.	14.5	298	238	7,662	5,726	25,633	21,209	15,301
17	Special trade contractors	342.0	2,909	2,370	61,921	46,923	200,434	185,786	117,480
1711	Plumbing, heating, air-conditioning	69.6	617	471	14,330	10,311	49,503	44,518	25,912
1721	Painting and paperhanging	29.9	170	145	2,979	2,386	7,953	7,446	5,716
1731	Electrical work	49.4	509	406	12,664	9,622	35,838	34,658	21,817
1741	Masonry and other stonework	23.3	169	150	2,947	2,462	8,714	8,269	5,476
1742	Plastering, drywall, insulation	17.8	254	217	5,485	4,348	16,427	15,137	9,748
1743	Terrazzo, tile, marble, and mosaic work	5.1	34	28	734	554	2,272	2,182	1,318
1751	Carpentry	36.0	190	164	3,272	2,610	11,244	10,039	6,078
1752	Flooring and other floor work	8.2	45	35	906	645	3,651	3,371	1,880
1761	Roofing, siding, and sheet metal work	25.7	231	187	4,314	3,111	15,028	14,183	8,524
1771	Concrete work	23.4	218	187	4,175	3,278	15,056	13,854	8,443
1781	Water well drilling	3.4	18	14	335	249	1,330	1,299	780
1791	Structural steel erection	4.0	65	55	1,594	1,232	4,863	4,510	3,253
1793	Glass and glazing work	4.6	41	29	919	607	3,222	3,142	1,701
1794	Excavation work	13.4	95	79	2,060	1,598	8,244	7,491	5,708
1795	Wrecking and demolition work	1.2	14	12	261	195	912	845	782
1796	Installing building equipment, n.e.c.	3.8	62	50	1,858	1,447	5,360	5,010	3,723
1799	Special trade contractors, n.e.c.	23.2	176	142	3,089	2,269	10,814	9,833	6,622
6552	Land subdividers and developers, n.e.c.	8.0	40	9	867	153	4,636	2,505	2,240

X Not applicable. <sup>1</sup> Standard Industrial Classification; see, text, section 13. <sup>2</sup> Value of construction work less payments for construction work subcontracted to others, not shown separately. <sup>3</sup> Dollar value of business done less (a) payments for materials, components, and supplies, (b) payments for construction work subcontracted to others, not shown separately.

Source: U.S. Bureau of the Census, *Census of Construction Industries, 1987*, series CCB7-I-28.

**No. 1260. Construction Materials—Producer Price Indexes: 1970 to 1989**

[1982 = 100, except as noted. For discussion of producer price index, see text, section 15. This index, more formally known as the special commodity grouping index for construction materials, covers materials incorporated as integral part of a building or normally installed during construction and not readily removable. Excludes consumer durables such as kitchen ranges, refrigerators, etc. This index is not the same as the stage-of-processing index of intermediate materials and components for construction. See *Historical Statistics, Colonial Times to 1970*, series N 140-155 for similar data]

COMMODITY	1970	1975	1980	1981	1983	1984	1985	1986	1987	1988	1989
<b>Construction materials</b>	<b>39.1</b>	<b>60.4</b>	<b>92.5</b>	<b>98.2</b>	<b>103.4</b>	<b>106.4</b>	<b>107.6</b>	<b>107.3</b>	<b>109.5</b>	<b>115.7</b>	<b>119.5</b>
Interior solvent based paint	40.1	60.2	91.3	97.4	100.0	103.9	107.3	109.9	111.6	120.3	128.8
Plastic construction products	65.5	83.5	103.9	104.3	110.1	115.5	108.6	106.4	108.4	121.1	120.1
Douglas fir, dressed	40.8	79.6	132.6	117.1	135.8	129.2	126.5	124.5	125.1	135.7	151.6
Southern pine, dressed	40.1	61.9	104.0	102.0	115.9	111.9	105.2	104.9	114.1	112.4	108.0
Millwork	41.5	57.4	93.2	97.8	108.2	110.2	111.7	113.7	117.7	121.9	127.8
Softwood plywood	40.3	71.1	109.5	108.7	110.0	107.6	107.4	109.4	109.8	109.1	124.2
Hardwood plywood and related products	56.6	66.0	97.5	99.3	99.3	99.6	89.9	81.0	92.9	94.2	99.8
Softwood plywood veneer, ex. reinforced/backed	(NA)	75.2	126.0	118.9	103.3	103.3	100.1	105.9	108.4	117.3	142.1
Building paper and building board mill products	42.2	53.1	86.1	96.7	104.4	108.2	107.4	108.8	111.2	113.3	115.6
Tube, drawn, 6000 alloy series	35.6	56.5	85.6	94.0	100.9	109.7	109.7	109.8	111.2	128.9	131.0
Builders hardware	41.7	58.7	84.9	94.4	104.8	109.3	113.5	115.8	117.4	122.5	127.8
Plumbing fixtures and brass fittings	39.9	58.2	88.5	96.0	103.8	108.6	111.9	115.5	119.7	128.7	137.1
Heating equipment	46.6	63.5	87.0	94.5	102.7	106.6	109.5	113.0	115.5	126.2	125.1
Metal doors, sash, and trim	38.9	55.9	87.8	96.0	102.8	106.6	107.3	109.8	112.0	122.4	128.0
Incandescent outdoor lighting fixtures	34.4	53.0	82.7	92.6	104.7	109.2	109.2	112.0	117.2	122.4	128.0
Bright nails	31.4	68.1	90.9	97.7	98.0	99.4	100.2	99.8	101.2	104.7	110.4
Welded steel wire fabric for concrete reinforcing	40.6	(NA)	98.9	98.6	98.5	101.9	101.3	99.8	98.3	105.2	106.6
Elevators, escalators, and other lifts	42.3	62.0	87.3	92.7	97.3	97.1	97.7	99.2	100.4	103.6	107.1
Stamped metal outlet box	31.4	(NA)	82.7	91.2	105.2	114.9	119.7	152.0	160.1	168.7	171.7
Concrete ingredients and related products	36.3	55.6	88.4	95.6	101.1	105.1	108.5	109.4	110.4	112.0	113.2
Concrete products	37.7	57.3	92.0	97.8	101.4	103.9	107.5	109.2	109.4	110.0	111.2
Clay construction products exc. refractories	42.1	58.0	88.8	95.8	106.5	110.0	113.5	118.0	121.4	124.9	127.0
Prep. asphalt and tar roofing and siding products	28.8	61.7	105.5	101.6	94.1	97.7	100.5	96.8	91.9	94.4	95.6
Gypsum products	38.9	56.2	100.1	100.1	111.7	135.4	132.3	137.0	125.2	112.9	110.0
Insulation materials	34.6	55.0	80.7	(NA)	103.7	104.0	105.2	105.7	105.0	105.8	106.7
Paving mixtures and blocks	18.1	44.0	83.7	100.5	100.9	106.1	111.6	104.9	100.8	102.7	101.0

NA Not available.

Source: U.S. Bureau of Labor Statistics, *Producer Price Indexes*, monthly and annual.

## No. 1261. Price and Cost Indexes for Construction: 1970 to 1990

[1987 = 100. Excludes Alaska and Hawaii. Indexes of certain of these sources are published on bases different from those shown here. See *Historical Statistics, Colonial Times to 1970*, series N 118-137, for construction cost indexes on a 1947-49 base]

NAME OF INDEX	1970	1975	1980	1983	1984	1985	1986	1988	1989	1990
Bureau of the Census:										
Composite fixed-weighted <sup>1</sup>	31.7	48.5	77.7	86.7	90.3	93.1	96.5	103.8	107.2	109.7
Implicit price deflator <sup>2</sup>	32.6	50.2	79.2	88.7	91.2	93.9	96.7	104.2	108.0	110.2
Bureau of the Census houses under construction:										
Fixed-weighted	30.2	45.0	75.6	85.0	88.8	91.0	95.6	103.6	106.7	109.1
Price deflator	31.4	46.8	77.9	87.7	90.1	92.0	95.8	104.1	107.9	109.9
Federal Highway Administration, composite <sup>4</sup>	36.8	58.1	97.2	87.6	92.6	102.0	101.1	106.6	107.7	108.5
Bureau of Reclamation composite <sup>5</sup>	34	55	81	95	96	98	99	103	107	111
Turner Construction Co.: Building construction <sup>6</sup>	32	50	69	86	91	94	97	104	107	111
E. H. Boeckh, building cost index: <sup>7</sup>										
Residences	(NA)	(NA)	(NA)	(NA)	(NA)	96.2	98.0	102.5	106.3	109.9
Apartments, hotels, and office buildings	(NA)	(NA)	(NA)	(NA)	(NA)	96.3	98.0	102.7	106.2	109.0
Commercial and factory buildings	(NA)	(NA)	(NA)	(NA)	(NA)	96.7	98.3	103.0	107.2	110.8
Engineering News-Record: <sup>8</sup>										
Buildings	32.9	51.4	76.4	93.8	95.1	95.5	97.7	102.2	103.9	106.5
Construction	31.4	50.2	73.5	92.3	94.1	95.2	97.5	102.6	104.5	107.3
Handy-Whitman public utility: <sup>9</sup>										
Buildings	32	57	83	89	94	96	98	104	107	108
Electric <sup>10</sup>	32	55	80	95	97	98	99	107	111	115
Gas	34	54	79	97	100	100	97	106	111	114
Water <sup>11</sup>	32	54	81	91	94	97	98	103	106	108
C. A. Turner Telephone Plant <sup>12</sup>	51	69	103	103	99	101	99	101	110	113

NA Not available. <sup>1</sup> Weighted average of the various indexes used to deflate the Construction Put in Place series. In calculating the index, the weights (i.e., the composition of current dollar estimates in 1987 by category) are held constant. <sup>2</sup> Derived ratio of total current to constant dollar Construction Put in Place (multiplied by 100). <sup>3</sup> Excludes value of site. <sup>4</sup> Based on average contract unit bid prices for composite mile (involving specific average amounts of excavation, paving, reinforcing steel, structural steel, and structural concrete). <sup>5</sup> Derived from the four quarterly indexes which are weighted averages of costs of labor, materials, and equipment for the construction of dams and reclamation projects. <sup>6</sup> Based on firm's cost experience with respect to labor rates, materials prices, competitive conditions, efficiency of plant and management, and productivity. <sup>7</sup> Average of 20 cities for types shown. Weights based on surveys of building costs. <sup>8</sup> Building index computed on the basis of a hypothetical unit of construction requiring 6 bbl. of portland cement, 1,088 M bd. ft. of 2" x 4" lumber, 2,500 lb. of structural steel, and 68.38 hours of skilled labor. Construction index based on same materials components combined with 200 hours of common labor. <sup>9</sup> Based on data covering public utility construction costs in 6 geographic regions. <sup>10</sup> Covers skilled and common labor. <sup>11</sup> As derived by U.S. Bureau of the Census. Covers steam generation plants only. <sup>12</sup> As derived by U.S. Bureau of the Census. Reflects costs for structures and improvements at water pumping and treatment plants. <sup>13</sup> Computed by the Census Bureau by averaging the weighted component indexes published for 6 geographic regions.

Source: U.S. Bureau of the Census. In U.S. Department of Commerce, International Trade Administration, *Construction Review*, bimonthly.

## No. 1262. Value of New Construction Put in Place: 1964 to 1990

[In millions of dollars. Represents value of construction put in place during year; differs from building permit and construction contract data in timing and coverage. Includes installed cost of normal building service equipment and selected types of industrial production equipment (largely site fabricated). Excludes cost of shipbuilding, land, and most types of machinery and equipment. For methodology, see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series N 1-29 and N 66-69]

YEAR	CURRENT DOLLARS					CONSTANT (1987) DOLLARS				
	Total	Private			Public	Total	Private			Public
		Total	Residential buildings	Nonresidential buildings			Total	Residential buildings	Nonresidential buildings	
1964	72,124	51,921	30,526	14,412	20,203	294,569	211,627	124,768	60,892	82,942
1970	100,668	72,781	35,863	22,770	27,908	309,005	224,928	114,138	71,054	84,077
1971	117,313	87,614	48,514	23,872	29,699	337,405	254,456	145,554	68,666	82,949
1972	133,197	103,167	60,893	26,025	30,030	360,440	281,253	170,190	70,028	79,187
1973	146,641	114,293	65,085	29,949	32,348	364,441	285,440	168,249	74,435	79,001
1974	147,039	108,907	55,987	31,325	38,132	318,290	241,201	130,126	68,137	77,089
1975	145,467	102,174	51,581	27,545	43,293	289,581	208,434	109,920	57,220	81,147
1976	165,629	121,649	68,273	27,026	43,979	315,902	235,375	136,685	53,805	80,527
1977	191,211	148,129	92,004	29,693	43,083	337,461	263,021	165,926	54,954	74,440
1978	227,932	177,786	109,838	37,560	50,146	359,135	282,154	174,695	62,714	76,982
1979	256,909	200,284	116,444	49,505	56,646	360,239	284,473	165,116	74,028	75,766
1980	256,467	192,821	100,381	55,431	63,646	324,001	248,212	128,926	75,099	75,790
1981	267,674	202,982	99,241	64,695	64,691	315,651	242,128	118,343	80,423	73,523
1982	255,704	192,640	84,676	69,355	63,064	291,970	220,721	97,595	82,065	71,249
1983	290,933	227,483	125,521	65,675	63,450	327,943	256,717	143,108	75,419	71,227
1984	340,693	270,477	153,849	81,147	70,217	373,575	297,291	170,732	89,652	76,284
1985	368,736	290,913	158,474	95,317	77,823	392,754	312,493	172,398	102,510	80,260
1986	398,206	313,613	187,148	91,171	84,593	411,605	325,948	195,377	94,794	85,658
1987	410,208	319,639	194,656	91,994	90,569	410,196	319,541	194,622	91,944	90,655
1988	422,075	327,102	198,101	97,102	94,973	405,212	314,367	190,292	93,518	90,845
1989	432,068	333,515	196,551	103,358	98,551	399,942	308,514	182,045	96,033	91,429
1990	434,936	325,095	187,422	102,483	109,842	394,432	294,545	170,543	92,758	99,868

Source: U.S. Bureau of the Census, *Current Construction Reports*, series C30, and press release, CB-91-14.



**No. 1263. Value of New Construction Put in Place in Current and Constant (1987)  
Dollars: 1985 to 1990**

[In millions of dollars. Represents value of construction put in place during year; differs from building permit and construction contract data in timing and coverage. Includes installed cost of normal building service equipment and selected types of industrial production equipment (largely site fabricated). Excludes cost of shipbuilding, land, and most types of machinery and equipment. For details on derivation of constant values and description of revised series, see source. For description of nature of revisions and deflators used, see *Construction Reports*, series C30-9005. For methodology, see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series N 1-29 and N 66-69]

TYPE OF CONSTRUCTION	CURRENT DOLLARS					CONSTANT (1987) DOLLARS				
	1985	1987	1988	1989	1990, prel.	1985	1987	1988	1989	1990, prel.
<b>Total new construction</b>	<b>368,736</b>	<b>410,208</b>	<b>422,075</b>	<b>432,066</b>	<b>434,836</b>	<b>392,754</b>	<b>410,196</b>	<b>405,212</b>	<b>399,942</b>	<b>394,432</b>
<b>Private construction</b>	<b>290,913</b>	<b>319,639</b>	<b>327,102</b>	<b>333,515</b>	<b>325,095</b>	<b>312,493</b>	<b>319,541</b>	<b>314,367</b>	<b>308,514</b>	<b>294,545</b>
Residential buildings	158,474	194,656	198,101	196,551	187,422	172,338	194,622	190,292	182,045	170,543
New housing units	114,662	139,915	138,947	139,202	129,780	124,699	139,893	133,469	128,944	118,101
1 unit	86,123	114,463	116,649	116,898	110,690	93,659	114,432	112,045	108,279	100,726
2 or more units	28,539	25,452	22,298	22,304	19,090	31,400	25,462	21,424	20,665	17,375
Improvements	43,812	54,741	59,154	57,349	(NA)	47,639	54,729	56,823	53,101	(NA)
Nonresidential buildings	95,317	91,994	97,102	103,358	102,483	102,510	91,944	93,518	96,033	92,758
Industrial	15,769	13,707	14,930	18,507	20,582	16,960	13,695	14,375	17,188	18,628
Office	31,580	26,430	28,044	28,597	25,303	33,967	26,422	27,012	26,582	22,907
Hotels, motels	7,301	7,380	6,794	7,617	8,404	7,853	7,381	6,547	7,078	7,809
Other commercial	28,048	29,015	30,059	30,791	29,368	30,159	28,994	28,946	28,801	26,581
Religious	2,409	2,753	2,822	2,972	2,992	2,590	2,751	2,718	2,762	2,707
Educational	1,896	3,438	2,912	3,308	3,795	2,039	3,437	2,806	3,072	3,433
Hospital and institutional	5,583	6,035	7,219	7,537	8,111	6,007	6,031	6,954	7,005	7,340
Miscellaneous	2,729	3,236	4,320	4,028	3,926	2,935	3,233	4,160	3,744	3,554
Farm nonresidential	2,197	2,503	2,270	2,356	(NA)	2,366	2,503	2,187	2,190	(NA)
Public utilities	32,200	27,858	27,503	28,549	(NA)	32,528	27,842	26,338	25,746	(NA)
Telecommunications	8,397	9,194	9,801	9,132	(NA)	8,303	9,160	9,690	8,198	(NA)
Other public utilities	23,803	18,664	17,702	19,417	(NA)	24,226	18,683	16,648	17,548	(NA)
Railroads	4,048	2,451	2,793	2,716	(NA)	4,079	2,454	2,868	2,513	(NA)
Electric light and power	15,968	12,656	10,873	11,743	(NA)	16,389	12,669	10,186	10,583	(NA)
Gas	3,517	3,188	3,659	4,616	(NA)	3,506	3,191	3,440	4,144	(NA)
Petroleum pipelines	272	369	377	342	(NA)	271	369	354	307	(NA)
All other private	2,726	2,628	2,126	2,702	3,326	2,751	2,630	2,033	2,501	3,021
<b>Public construction</b>	<b>77,823</b>	<b>90,569</b>	<b>94,973</b>	<b>98,551</b>	<b>109,842</b>	<b>80,260</b>	<b>90,655</b>	<b>90,845</b>	<b>91,429</b>	<b>99,888</b>
Buildings	27,861	32,962	36,163	39,202	45,340	30,000	32,955	34,820	36,404	41,044
Housing and development	2,893	3,262	3,366	3,841	3,925	3,146	3,262	3,233	3,557	3,572
Industrial	1,968	1,457	1,413	1,300	1,471	2,118	1,458	1,361	1,208	1,332
Educational	9,329	11,476	14,267	16,727	20,397	10,033	11,471	13,737	15,534	18,448
Hospital	2,497	2,559	2,693	2,486	2,711	2,686	2,558	2,594	2,310	2,456
Other	11,174	14,208	14,424	14,848	16,835	12,016	14,207	13,896	13,795	15,236
Highways and streets	23,741	26,958	30,141	29,502	32,044	23,455	27,050	28,449	27,368	29,437
Military facilities	3,235	4,324	3,579	3,520	3,788	3,341	4,327	3,417	3,265	3,459
Conservation and development	5,144	5,519	4,728	4,968	4,718	5,279	5,517	4,567	4,589	4,239
Sewer systems	6,960	8,998	8,634	9,229	10,323	7,139	8,994	8,342	8,524	9,269
Water supply facilities	2,580	3,674	3,917	3,923	4,884	2,671	3,669	3,792	3,684	4,500
Miscellaneous public	8,302	8,134	7,810	8,207	8,744	8,374	8,143	7,459	7,593	7,940
Public ownership:										
State and local government	65,820	76,517	82,709	86,255	95,860	67,728	76,598	79,066	80,034	87,215
Federal government	12,004	14,052	12,264	12,296	13,982	12,533	14,057	11,780	11,395	12,673

NA Not available. <sup>1</sup> Includes estimates for types of construction indicated as (NA). <sup>2</sup> Includes amusement and recreational buildings, bus and airline terminals, animal hospitals and shelters, etc. <sup>3</sup> Includes privately owned streets and bridges, parking areas, sewer and water facilities, parks and playgrounds, golf courses, airfields, etc. <sup>4</sup> Includes federal administrative buildings, prisons, police and fire stations, courthouses, civic centers, passenger terminals, space facilities, postal facilities, etc. <sup>5</sup> Includes open amusement and recreational facilities, power generating facilities, transit systems, airfields, open parking facilities, etc.

Source: U.S. Bureau of the Census, *Current Construction Reports*, series C30, and press release, CB-91-14.

**No. 1264. Value of Privately Owned Nonresidential Building Projects, by Construction Status, 1980 to 1989, and by Type of Project, 1989**

[In billions of dollars]

CONSTRUCTION STATUS	1980	1982	1983	1984	1985	1986	1987	1988	1989				
									Total	Industrial	Office building	Other commercial	Other <sup>1</sup>
Value of projects—													
Started	48.3	55.5	63.3	84.7	90.8	89.7	87.2	97.8	85.3	13.6	22.1	27.4	22.2
Completed	48.4	56.3	60.3	68.2	82.8	99.3	83.3	92.2	94.2	15.1	27.6	27.5	24.0

<sup>1</sup> Privately owned hotels and motels, religious, educational, hospital and institutional, and miscellaneous nonresidential building projects.

Source: U.S. Bureau of the Census, *Current Construction Reports*, series C30.

### No. 1265. Construction Contracts—Value of Construction and Floor Space of Buildings, by Class of Construction: 1980 to 1989

[Includes new structures and additions, and major alterations to existing structures which affect only valuation, since no additional floor area is created by "alteration." See also *Historical Statistics, Colonial Times to 1970*, series N 7888-100]

YEAR	Total	Residential buildings	NONRESIDENTIAL BUILDINGS								Non-building con- struction	
			Total	Com- mer- cial <sup>1</sup>	Manu- fac- turing	Educa- tional <sup>2</sup>	Hos- pital	Public build- ings	Reli- gious	Social and recrea- tional		Mis- cella- neous
VALUE (bil. dol.)												
1980	148.4	63.7	52.5	24.8	8.4	6.8	5.3	1.6	1.2	2.7	1.7	32.2
1981	153.5	60.2	60.1	31.7	8.6	5.8	6.4	1.4	1.2	3.0	2.0	33.2
1982	156.2	59.2	59.5	28.2	9.5	6.1	7.8	1.9	1.2	2.8	2.0	37.4
1983	193.6	93.6	62.2	33.7	5.3	6.2	8.5	2.1	1.5	2.8	2.1	37.8
1984	211.5	101.4	74.4	42.1	7.3	7.7	7.2	2.7	1.7	3.3	2.4	35.8
1985	232.3	108.7	83.2	47.8	7.7	8.8	7.8	3.0	2.0	3.6	2.5	40.5
1986	248.6	122.9	83.8	45.8	7.3	10.5	7.9	3.2	2.1	4.2	2.8	42.0
1987	258.1	121.1	91.0	47.5	8.5	11.9	8.8	4.7	2.1	4.3	3.2	45.9
1988	260.8	121.9	90.6	46.1	9.3	12.8	8.2	4.4	2.2	4.6	3.1	48.2
1989	261.2	120.4	93.1	46.7	9.6	14.3	8.6	4.5	2.0	4.6	2.7	47.7
FLOOR SPACE (mil. sq. ft.)												
1980	3,092	1,892	1,201	688	216	95	54	18	28	50	52	(X)
1981	2,797	1,620	1,178	733	187	74	60	14	25	44	41	(X)
1982	2,442	1,497	946	571	119	74	70	19	25	38	30	(X)
1983	3,379	2,349	1,030	647	110	74	83	20	29	36	31	(X)
1984	3,635	2,396	1,238	808	147	90	70	23	29	37	34	(X)
1985	3,822	2,414	1,408	939	159	100	73	26	32	41	38	(X)
1986	3,928	2,578	1,349	869	147	116	73	30	32	43	39	(X)
1987	3,749	2,369	1,380	859	160	126	78	42	32	46	37	(X)
1988	3,578	2,249	1,328	815	158	129	71	38	32	48	36	(X)
1989	3,430	2,153	1,278	782	145	138	71	36	27	45	34	(X)

X Not applicable. <sup>1</sup> Includes nonindustrial warehouses. <sup>2</sup> Includes science.

### No. 1266. Construction Contracts—Value, by State: 1985 to 1989

[In millions of dollars. See headnote, table 1265. Represents value of construction in States in which work was actually done]

STATE	1985	1987	1988	1989			STATE	1985	1987	1988	1989		
				Total (incl. non-bldg.)	Residential	Non-residential					Total (incl. non-bldg.)	Residential	Non-residential
U.S.	232,277	258,090	260,752	261,163	120,436	93,058	MO	3,851	4,421	4,177	4,188	1,866	1,590
AL	2,886	3,114	3,583	2,873	1,155	1,105	MT	898	559	577	483	197	118
AK	1,500	745	826	609	132	151	NE	1,040	960	1,049	1,115	442	413
AZ	6,629	5,785	5,266	4,965	2,117	1,758	NV	1,629	2,625	2,371	3,334	2,183	838
AR	1,649	1,424	1,260	1,836	658	790	NH	1,355	1,738	1,914	1,301	786	356
CA	32,456	37,350	41,492	41,461	23,976	12,843	NJ	8,077	8,667	8,739	7,255	2,637	3,073
CO	4,667	3,139	2,750	2,836	1,198	981	NM	1,771	1,502	1,400	1,266	500	396
CT	3,385	4,293	4,578	3,632	1,347	1,576	NY	11,366	15,609	14,187	16,405	5,958	6,284
DE	715	747	814	877	447	322	NC	6,671	7,089	7,650	7,230	3,514	2,744
DC	985	983	1,103	1,171	106	889	ND	557	429	448	458	171	121
FL	17,820	19,447	19,587	20,481	11,680	5,939	OH	6,943	9,218	9,607	10,338	4,177	4,643
GA	7,566	8,783	8,571	7,793	3,846	3,040	OK	2,650	2,260	1,723	1,918	708	690
HI	873	1,213	1,730	2,005	898	794	OR	1,634	1,832	2,161	2,454	1,319	675
ID	758	637	849	740	345	189	PA	7,008	10,191	9,862	10,478	4,380	3,927
IL	7,513	10,145	10,728	11,822	4,853	4,445	RI	828	1,083	1,051	1,302	424	334
IN	4,045	5,148	5,083	5,498	2,463	2,217	SC	3,446	3,679	3,684	3,369	1,672	1,208
IA	1,532	1,516	1,614	1,811	639	669	SD	485	405	427	498	179	154
KS	2,227	2,247	2,064	2,097	933	709	TN	4,394	5,108	5,019	4,835	2,084	1,693
KY	2,843	3,181	3,141	3,276	1,376	1,249	TX	21,305	14,867	13,724	12,831	4,630	4,942
LA	3,869	3,206	2,761	3,234	821	1,311	UT	1,633	1,409	1,402	1,411	559	462
ME	785	939	1,223	961	537	251	VT	487	530	711	628	399	159
MD	5,703	7,266	6,829	7,137	3,661	2,346	VA	7,586	8,933	9,934	9,005	4,643	2,873
MA	5,806	7,733	7,477	6,363	2,681	2,587	WA	4,409	5,232	5,057	5,236	2,763	1,530
MI	5,827	8,673	8,954	8,144	3,439	3,514	WV	858	1,112	810	844	233	283
MN	4,285	4,993	4,855	4,158	1,845	1,455	WI	3,038	3,638	3,668	4,443	1,829	1,584
MS	1,543	1,635	1,557	1,550	587	399	WY	693	479	507	408	106	69

Source of tables 1265 and 1266: F. W. Dodge, National Information Services Division, McGraw-Hill Information Systems Company, New York, NY. Figures reported currently in *Dodge Construction Potentials*.

## No. 1267. New Privately-Owned Housing Units Authorized, by State: 1988 and 1989

[Based on about 17,000 places in U.S. having building permit systems]

STATE	HOUSING UNITS (1,000)			VALUATION (mil. dol.)			STATE	HOUSING UNITS (1,000)			VALUATION (mil. dol.)		
	1988	1989		1988	1989			1988	1989		1988	1989	
		Total	1 unit		Total	1 unit			Total	1 unit		Total	1 unit
U.S.	1,455.6	1,338.4	931.7	101,625	100,898	83,002	MO	23.5	18.0	13.8	1,448	1,222	1,083
AL	12.8	12.0	8.5	614	595	506	MT	0.8	0.7	0.5	53	54	47
AK	0.8	0.6	0.4	78	64	50	NE	5.7	6.0	3.8	294	313	271
AZ	32.9	23.8	20.2	2,462	1,939	1,791	NV	30.8	29.3	16.1	1,301	1,514	1,098
AR	6.2	6.3	4.6	319	318	274	NH	11.7	7.3	5.5	826	562	483
CA	253.4	237.7	163.0	23,659	24,614	19,884	NJ	40.9	30.3	20.9	2,932	2,272	1,738
CO	12.9	11.1	9.0	980	1,057	949	NM	6.4	6.7	5.3	421	443	409
CT	18.9	12.0	8.0	1,365	902	770	NY	54.7	48.7	31.9	4,016	3,711	2,771
DE	7.4	5.8	4.6	354	331	297	NC	50.3	48.4	35.3	3,020	2,978	2,649
DC	0.9	0.4	0.1	35	17	7	ND	1.8	2.2	0.8	89	102	68
FL	170.6	165.0	107.0	9,670	10,434	7,966	OH	45.1	41.2	27.0	3,076	3,080	2,601
GA	63.0	50.5	35.1	3,688	3,051	2,570	OK	5.0	5.6	4.6	324	407	372
HI	8.4	9.6	6.2	657	889	575	OR	14.0	23.1	11.4	929	1,401	1,028
ID	3.2	4.8	3.6	226	342	308	PA	53.8	45.5	37.7	3,863	3,424	3,097
IL	49.1	42.4	30.2	4,058	3,781	3,213	RI	6.1	3.9	2.9	365	288	252
IN	25.2	26.5	19.0	1,825	1,972	1,724	SC	23.1	21.2	16.9	1,391	1,339	1,194
IA	6.8	7.4	4.9	417	477	387	SD	1.9	2.1	1.2	90	106	78
KS	9.7	8.6	6.8	759	698	638	TN	27.8	24.2	17.6	1,680	1,451	1,284
KY	13.4	12.7	8.9	787	779	685	TX	40.5	41.3	36.6	3,139	3,438	3,314
LA	7.3	6.1	5.2	402	375	349	UT	6.3	6.0	5.6	452	474	457
ME	8.8	6.4	5.2	548	428	380	VT	4.8	3.6	3.0	344	274	246
MD	39.6	40.6	29.7	2,650	2,704	2,314	VA	68.5	56.9	40.5	4,059	3,886	3,199
MA	30.5	21.3	14.5	2,524	1,854	1,492	WA	45.1	48.2	26.4	2,668	3,247	2,319
MI	44.9	45.7	30.8	2,776	2,987	2,480	WV	1.8	1.7	1.4	91	99	82
MN	28.4	25.1	18.3	2,072	1,947	1,668	WI	24.1	26.9	15.4	1,460	1,689	1,257
MS	7.4	6.6	4.7	340	317	269	WY	0.7	0.5	0.5	50	52	50

Source: U.S. Bureau of the Census, *Construction Reports*, series C40, annual.

## No. 1268. Valuation of Construction Authorized by Permit, by Type of Construction and State: 1989

[In millions of dollars]

STATE	Total <sup>1</sup>	Residential	NONRESIDENTIAL				STATE	Total <sup>1</sup>	Residential	NONRESIDENTIAL			
			Total <sup>2</sup>	Industrial	Office	Stores				Total <sup>2</sup>	Industrial	Office	Stores
U.S.	193,795	100,698	48,443	9,558	12,581	13,126	MO	2,827	1,222	796	114	211	227
AL	1,572	595	446	48	106	169	MT	153	54	32	3	4	15
AK	160	64	28	4	3	11	NE	654	313	165	29	38	42
AZ	3,365	1,939	875	104	245	301	NV	2,733	1,514	425	89	53	147
AR	722	318	235	60	24	67	NH	1,043	562	222	40	39	52
CA	40,870	24,614	8,350	1,634	2,517	2,164	NJ	5,732	2,272	1,559	371	520	367
CO	2,121	1,057	478	112	108	112	NM	848	443	186	28	56	58
CT	2,588	902	681	118	224	138	NY	8,446	3,711	2,238	251	503	659
DE	716	331	197	16	53	84	NC	5,549	2,978	1,473	235	410	428
DC	139	17	40		26	7	ND	220	102	49	8	6	8
FL	17,037	10,434	3,610	337	807	1,233	OH	6,583	3,080	1,837	408	570	449
GA	5,846	3,051	1,575	243	434	491	OK	830	407	209	31	44	55
HI	1,783	889	405	11	146	90	OR	2,396	1,401	550	122	167	156
ID	622	342	144	19	35	52	PA	7,356	3,424	2,132	397	583	448
IL	8,239	3,781	2,450	405	888	663	RI	591	288	133	35	21	44
IN	3,730	1,972	1,174	385	138	326	SC	2,601	1,339	727	125	147	231
IA	1,172	477	394	95	99	101	SD	290	106	77	9	12	31
KS	1,334	698	332	86	56	84	TN	3,104	1,451	935	145	216	342
KY	1,483	779	442	68	89	145	TX	8,177	3,438	2,802	1,300	374	494
LA	1,251	375	468	207	54	92	UT	1,012	474	332	54	94	72
ME	876	428	201	39	47	43	VT	493	274	98	29	14	25
MD	4,944	2,704	979	167	301	270	VA	7,361	3,886	1,975	217	719	550
MA	4,397	1,854	1,072	172	295	259	WA	5,211	3,247	1,133	165	380	316
MI	6,112	2,987	1,647	453	362	479	WV	291	99	96	9	21	41
MN	3,888	1,947	855	195	176	187	WI	3,415	1,689	870	236	121	228
MS	792	317	287	129	25	61	WY	115	52	26	3	2	15

<sup>1</sup> Represents zero. <sup>2</sup> Includes residential and nonresidential additions and alterations, residential nonhousekeeping buildings, and residential garages and carports, not shown separately. <sup>3</sup> Includes other types of construction not shown separately.

Source: U.S. Bureau of the Census, unpublished data.

### No. 1269. New Privately-Owned Housing Units Started—Selected Characteristics: 1970 to 1990

[In thousands. For composition of regions, see fig. 1, inside front cover. See also *Historical Statistics, Colonial Times to 1970*, series N 156-163 and 170]

YEAR	Total units	STRUCTURES WITH—			REGION				CONDOMINIUM UNITS <sup>1</sup>			TYPE OF ASSISTANCE	
		One unit	2-4 units	5 or more units	North-east	Mid-west	South	West	Total	Single-family	Multi-family	FHA	VA
1970	1,434	813	85	536	218	294	612	311	(NA)	(NA)	(NA)	421	61
1971	2,052	1,151	120	781	264	434	869	486	(NA)	(NA)	(NA)	528	94
1972	2,357	1,309	141	906	330	443	1,057	527	(NA)	(NA)	(NA)	371	104
1973	2,045	1,132	118	795	277	440	899	429	241	69	172	163	86
1974	1,338	888	68	382	183	317	553	285	175	46	130	95	73
1975	1,160	892	64	204	149	294	442	275	65	20	45	98	77
1976	1,538	1,162	86	289	169	400	569	400	95	30	64	144	100
1977	1,987	1,451	122	414	202	465	783	538	118	41	77	178	131
1978	2,020	1,433	125	462	200	451	824	545	156	42	114	178	127
1979	1,745	1,194	122	429	178	349	748	470	198	43	156	178	122
1980	1,292	852	110	331	125	218	643	306	186	35	150	177	95
1981	1,084	705	91	288	117	165	562	240	181	36	145	145	75
1982	1,062	663	80	320	117	149	591	205	170	40	130	152	73
1983	1,703	1,068	113	522	168	218	935	382	276	77	199	121	107
1984	1,750	1,084	121	544	204	243	866	436	291	96	194	63	97
1985	1,742	1,072	93	576	252	240	782	468	225	79	146	159	90
1986	1,805	1,179	84	542	294	296	733	483	214	80	134	266	80
1987	1,620	1,146	65	409	269	298	634	420	196	73	123	176	58
1988	1,488	1,081	59	348	235	274	575	404	148	53	95	117	52
1989	1,376	1,003	55	318	179	266	536	396	118	37	82	(NA)	(NA)
1990	1,193	895	37	261	131	253	480	329	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. <sup>1</sup> Type of ownership under which the owners of the individual housing units are also joint owners of the common areas of the building or community. Includes a small number of cooperatively-owned units.

Source: U.S. Bureau of the Census, *Construction Reports*, series C20, and press release, CB91-64.

### No. 1270. New Privately-Owned Housing Units Started, by State: 1985 to 1989

[In thousands of units]

REGION, DIVISION, AND STATE	1985	1987	1988	1989		REGION, DIVISION, AND STATE	1985	1987	1988	1989	
				Total units	Single-family units					Total units	Single-family units
U.S. . .	1,741.0	1,622.0	1,488.0	1,374.0	1,002.0	DC. . .	0.7	2.7	2.8	3.5	1.1
Northeast . .	251.0	269.0	235.0	177.0	132.0	VA. . .	74.6	70.0	69.3	66.8	48.2
N.E. . .	90.8	100.1	81.2	58.3	42.7	WV. . .	2.0	2.1	2.1	1.7	1.5
ME. . .	7.8	9.6	8.1	6.7	5.4	NC. . .	82.6	61.6	53.4	51.2	42.5
NH. . .	15.5	14.7	11.2	6.5	4.7	SC. . .	30.8	27.8	24.2	24.0	20.1
VT. . .	3.7	4.6	4.5	3.7	3.2	GA. . .	67.9	69.1	63.1	53.7	36.6
MA. . .	34.6	39.2	29.0	21.9	15.4	FL. . .	193.8	193.9	185.1	165.4	117.8
RI. . .	4.8	6.9	6.8	5.0	3.5	E.S.C. . .	93.6	75.3	65.0	61.6	49.9
CT. . .	24.3	25.1	21.4	14.5	10.5	KY. . .	19.9	15.4	13.3	14.3	11.5
M.A. . .	160.2	168.9	153.8	119.2	89.2	TN. . .	45.5	35.0	30.8	28.3	22.8
NY. . .	60.4	62.5	56.2	42.9	29.2	AL. . .	19.3	17.3	13.9	12.0	10.0
NJ. . .	56.3	51.1	46.3	34.4	25.0	MS. . .	8.9	7.7	7.1	7.0	5.6
PA. . .	43.5	55.4	51.4	41.9	35.1	W.S.C. . .	191.9	82.6	67.6	62.3	56.6
Midwest . .	241.0	299.0	274.0	266.0	190.0	AR. . .	9.9	8.0	11.8	6.7	5.7
E.N.C. . .	149.2	208.8	184.1	192.9	135.2	LA. . .	17.2	9.5	8.0	7.0	5.6
OH. . .	30.2	47.5	43.8	47.3	34.1	OK. . .	14.0	7.5	6.7	7.1	6.0
IN. . .	21.3	30.0	24.5	31.0	23.6	TX. . .	150.8	57.6	41.1	41.6	39.2
IL. . .	42.4	54.3	49.8	46.9	33.6	West . . .	467.0	420.0	404.0	394.0	271.0
MI. . .	38.3	52.9	45.3	40.8	27.0	Mt. . .	157.5	98.3	87.9	81.6	57.0
WI. . .	17.1	24.2	20.8	26.9	16.9	MT. . .	2.8	0.9	1.1	0.6	0.5
W.N.C. . .	91.8	90.2	89.9	73.1	54.8	ID. . .	4.2	3.5	2.9	4.8	3.6
MN. . .	25.7	33.8	34.2	22.9	17.9	WY. . .	3.8	0.7	0.7	0.5	0.5
IA. . .	4.6	6.2	6.0	9.0	6.2	CO. . .	33.6	19.2	11.9	10.7	8.7
MO. . .	33.4	29.0	31.1	19.5	15.3	NM. . .	9.8	7.7	4.9	5.3	3.8
ND. . .	1.9	2.0	1.3	2.3	1.0	AZ. . .	72.1	40.9	38.4	24.1	19.6
SD. . .	2.7	2.0	1.8	2.6	1.5	UT. . .	17.3	8.2	5.7	5.5	5.2
NE. . .	5.4	5.5	5.0	7.1	4.9	NV. . .	14.0	17.3	22.3	30.2	15.2
KS. . .	18.1	11.7	10.5	9.7	8.0	Pac. . .	308.5	321.7	316.1	313.4	214.0
South . .	782.0	634.0	575.0	535.0	409.0	WA. . .	34.4	40.2	31.7	45.9	25.2
S.A. . .	496.5	476.1	442.4	411.8	302.6	OR. . .	11.5	13.5	13.9	13.5	9.7
DE. . .	4.9	7.9	8.9	7.0	6.3	CA. . .	253.4	261.4	265.1	245.5	173.9
MD. . .	39.3	41.1	33.4	38.6	28.4	AK. . .	4.3	0.8	0.6	0.6	0.4
						HI. . .	5.9	5.8	5.0	7.8	4.7

Source: National Association of Home Builders, Economics Division, Washington, DC. Data provided by the Econometric Forec

### No. 1271. Characteristics of New Privately Owned One-Family Houses Completed: 1970 to 1990

[Percent distribution, except as indicated. Data beginning 1980 show percent distribution of characteristics for all houses completed (includes new houses completed, houses built for sale completed, contractor-built and owner-built houses completed, and houses completed for rent). Data for 1970 cover contractor-built, owner-built, and houses for rent for year construction started and houses sold for year of sale. Percents exclude houses for which characteristics specified were not reported]

CHARACTERISTIC	1970	1980	1985	1989	1990, prel.	CHARACTERISTIC	1970	1980	1985	1989	1990, prel.
<b>Total houses (1,000)</b> ..	<b>793</b>	<b>957</b>	<b>1,072</b>	<b>1,026</b>	<b>965</b>	<b>Bedrooms</b> .....	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
<b>Financing</b> .....	<b>100</b>	<b>100</b>	<b>100</b>	<b>(NA)</b>	<b>(NA)</b>	2 or less .....	13	17	25	15	15
Mortgage .....	84	81	81	(NA)	(NA)	3 .....	63	63	57	57	57
FHA-insured .....	30	16	15	(NA)	(NA)	4 or more .....	24	20	18	28	29
VA-guaranteed .....	7	8	7	(NA)	(NA)	<b>Bathrooms</b> .....	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
Conventional .....	47	55	57	(NA)	(NA)	1 or less .....	32	18	13	8	8
Farmers Home .....						1 1/2 .....	20	10	11	6	5
Administration .....	3	3	(NA)	(NA)	(NA)	2 .....	32	48	48	42	42
Cash or equivalent .....	16	18	19	(NA)	(NA)	2 1/2 or more .....	16	25	29	44	45
<b>Floor area</b> .....	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>Heating fuel</b> .....	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
Under 1,200 sq. ft. ....	36	21	20	13	11	Electricity .....	28	50	44	34	33
1,200 to 1,599 sq. ft. ....	28	29	30	23	22	Gas .....	62	41	49	58	59
1,600 to 1,999 sq. ft. ....	16	22	21	22	22	Oil .....	8	3	3	5	5
2,000 to 2,399 sq. ft. ....	21	13	12	16	17	Other .....	1	5	4	3	3
2,400 sq. ft. and over ..		15	17	26	29	<b>Heating system</b> .....	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
Average (sq. ft.) .....	1,500	1,740	1,785	2,035	2,080	Warm air furnace ..	71	57	54	63	65
Median (sq. ft.) .....	1,385	1,595	1,605	1,850	1,905	Electric heat pump ..	(NA)	24	30	24	23
<b>Number of stories</b> .....	<b>100</b>	<b>100</b>	<b>100</b>	<b>(NA)</b>	<b>(NA)</b>	Other .....	29	19	15	13	12
1 .....	74	60	52	(NA)	(NA)	<b>Central air-conditioning</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
2 or more .....	17	31	42	(NA)	(NA)	With .....	34	63	70	77	76
Split level .....	10	8	6	(NA)	(NA)	Without .....	66	37	30	23	24
<b>Foundation</b> .....	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>Fireplaces</b> .....	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
Full or partial basement	37	36	35	37	38	No fireplace .....	65	43	41	35	34
Slab .....	36	45	48	43	41	1 or more .....	35	56	59	65	66
Crawl space .....	27	19	18	19	21	<b>Parking facilities</b> .....	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
						Garage .....	58	69	70	80	82
						Carport .....	17	7	5	3	2
						No garage or carport ..	25	24	25	17	16

NA Not available.

Source: U.S. Bureau of the Census and U.S. Dept. of Housing and Urban Development, *Construction Reports*, series C25, *Characteristics of New Housing*, annual, and press release, CB91-48.

### No. 1272. New Privately Owned One-Family Houses Sold, by Region and Type of Financing, 1970 to 1990, and by Sales-Price Group, 1990

[In thousands. Based on a national probability sample of monthly interviews with builders or owners of 1-family houses for which building permits have been issued or, for nonpermit areas, on which construction has started. For details, see source. For composition of regions, see fig. 1, inside front cover]

YEAR AND SALES-PRICE GROUP	Total sales	REGION				FINANCING TYPE			
		North-east	Midwest	South	West	Conven-tional	FHA and VA	Farm-ers Home Admin.	Cash
1970 .....	485	61	100	203	121	213	244	( )	27
1971 .....	656	82	127	270	176	314	314	( )	28
1972 .....	718	96	130	305	187	447	242	( )	30
1973 .....	634	95	120	257	161	465	134	( )	34
1974 .....	519	69	103	207	139	378	112	( )	28
1975 .....	549	71	106	222	150	363	122	43	22
1976 .....	646	72	128	247	199	458	134	23	31
1977 .....	819	86	162	317	255	592	166	24	38
1978 .....	817	78	145	331	262	575	174	26	43
1979 .....	709	67	112	304	225	469	186	18	36
1980 .....	545	50	81	267	145	302	196	14	32
1981 .....	436	46	60	219	112	244	142	14	36
1982 .....	412	47	48	219	99	193	173	11	34
1983 .....	623	76	71	323	152	350	217	8	49
1984 .....	639	94	76	309	160	423	149	9	58
1985 .....	688	112	82	323	170	403	208	11	64
1986 .....	750	136	96	322	196	411	268	12	59
1987 .....	671	117	97	271	186	408	190	8	64
1988 .....	876	101	97	276	202	437	171	6	62
1989 .....	650	86	102	260	202	416	162	14	58
1990, prel. ....	536	73	89	225	149	339	138	9	50
Under \$80,000 .....	109	3	23	70	13	(NA)	(NA)	(NA)	(NA)
\$80,000 to \$119,999 ..	148	13	27	72	36	(NA)	(NA)	(NA)	(NA)
\$120,000 to \$149,999 ..	89	16	15	30	28	(NA)	(NA)	(NA)	(NA)
\$150,000 to \$199,999 ..	87	15	12	27	33	(NA)	(NA)	(NA)	(NA)
\$200,000 and over .....	103	25	13	25	40	(NA)	(NA)	(NA)	(NA)

NA Not available. <sup>1</sup> Houses financed by Farmers Home Administration included under conventional financing.

Source: U.S. Bureau of the Census and U.S. Dept. of Housing and Urban Development, *Construction Reports*, series C25, *Characteristics of New Housing*, annual; and *New One-Family Houses Sold and For Sale*, monthly.

### No. 1273. Median Sales Price of New Privately Owned One-Family Houses Sold, by Region: 1970 to 1990

[In dollars. For definition of median, see Guide to Tabular Presentation. For composition of regions, see fig. 1, inside front cover]

YEAR	U.S.	North-east	Midwest	South	West	YEAR	U.S.	North-east	Midwest	South	West
1970 . . . . .	23,400	30,300	24,400	20,300	24,000	1981 . . . . .	68,900	76,000	65,900	64,400	77,800
1971 . . . . .	25,200	30,600	27,200	22,500	25,500	1982 . . . . .	69,300	78,200	68,900	66,100	75,000
1972 . . . . .	27,600	31,400	29,300	25,800	27,500	1983 . . . . .	75,300	82,200	79,500	70,900	80,100
1973 . . . . .	32,500	37,100	32,900	30,900	32,400	1984 . . . . .	79,900	88,600	85,400	72,000	87,300
1974 . . . . .	35,900	40,100	36,100	34,500	35,800	1985 . . . . .	84,300	103,300	80,300	75,000	92,600
1975 . . . . .	39,300	44,000	39,600	37,300	40,600	1986 . . . . .	92,000	125,000	88,300	80,200	95,700
1976 . . . . .	44,200	47,300	44,800	40,500	47,200	1987 . . . . .	104,500	140,000	95,000	88,000	111,000
1977 . . . . .	48,800	51,800	51,500	44,100	53,500	1988 . . . . .	112,500	149,000	101,600	92,000	126,500
1978 . . . . .	55,700	58,100	59,200	50,300	61,300	1989 . . . . .	120,000	159,600	108,800	96,400	139,000
1979 . . . . .	62,900	65,500	63,900	57,300	69,600						
1980 . . . . .	64,600	69,500	63,400	59,600	72,300	1990, prel..	123,000	157,500	108,000	99,000	148,000

Source: U.S. Bureau of the Census and U.S. Dept. of Housing and Urban Development, *Construction Reports*, series C25, *Characteristics of New Housing*, annual; and *New One-Family Houses Sold and For Sale*, monthly.

### No. 1274. New Mobile Homes Placed for Residential Use and Average Sales Price, by Region: 1974 to 1989

[A mobile home is a moveable dwelling, 10 feet or more wide and 35 feet or more long, designed to be towed on its own chassis and without need of a permanent foundation. Excluded are travel trailers, motor homes, and modular housing. Data are based on a probability sample and subject to sampling variability; see source. For composition of regions, see fig. 1, inside front cover]

YEAR	UNITS PLACED (1,000)					AVERAGE SALES PRICE (dol.)				
	Total	North-east	Mid-west	South	West	Total	North-east	Mid-west	South	West
1974 . . . . .	332.0	23.3	67.5	170.8	70.4	9,300	9,400	9,300	8,300	11,600
1975 . . . . .	229.3	14.7	48.5	110.8	55.2	10,600	10,500	10,700	9,000	13,600
1976 . . . . .	249.6	16.8	51.5	114.8	66.5	12,300	11,600	11,600	10,800	16,000
1977 . . . . .	257.5	16.7	50.7	112.5	77.7	14,200	12,900	13,500	12,100	18,100
1978 . . . . .	279.9	17.4	49.5	135.3	77.7	15,900	14,300	15,100	13,700	20,600
1979 . . . . .	279.9	16.9	47.3	145.2	70.5	17,600	15,800	16,100	15,800	23,100
1980 . . . . .	233.7	12.3	32.3	140.3	48.7	19,800	18,500	18,600	18,200	25,400
1981 . . . . .	234.1	12.4	30.1	143.5	43.6	19,900	19,000	18,900	18,400	25,600
1982 . . . . .	278.1	16.3	25.6	161.1	35.0	19,700	19,800	20,000	18,500	24,700
1983 . . . . .	287.9	19.8	35.3	193.4	39.4	21,000	21,400	20,400	19,700	27,000
1984 . . . . .	283.4	20.2	38.6	187.6	36.9	21,500	22,200	21,100	20,200	27,400
1985 . . . . .	256.1	21.2	37.2	162.3	35.4	21,800	22,700	21,500	20,400	28,700
1986 . . . . .	239.2	23.6	40.0	145.5	30.1	22,400	24,400	21,800	20,700	29,900
1987 . . . . .	224.3	22.7	39.1	130.7	31.8	23,700	25,600	23,700	21,900	31,000
1988 . . . . .	204.8	20.2	39.1	114.9	30.6	25,100	27,000	24,600	22,700	33,900
1989 . . . . .						26,900	28,600	26,200	24,500	35,700

Source: U.S. Bureau of the Census, *Construction Reports*, series C20.

### No. 1275. Existing One-Family Houses Sold and Price, by Region: 1970 to 1989

[Based on data (adjusted and aggregated to regional and national totals) reported by participating real estate multiple listing services. For definition of median, see Guide to Tabular Presentation. For composition of regions, see fig. 1, inside front cover]

YEAR	HOUSES SOLD (1,000)					MEDIAN SALES PRICE (dol.)				
	Total	North-east	Mid-west	South	West	Total	North-east	Mid-west	South	West
1970 . . . . .	1,612	251	501	568	292	23,000	25,200	20,100	22,200	24,300
1971 . . . . .	2,018	311	583	735	389	24,800	27,100	22,100	24,300	26,500
1972 . . . . .	2,252	361	630	788	473	26,700	29,800	23,900	26,400	28,400
1973 . . . . .	2,334	367	674	847	446	28,900	32,800	25,300	29,000	31,000
1974 . . . . .	2,272	354	645	839	434	32,000	35,800	27,700	32,300	34,800
1975 . . . . .	2,476	370	701	862	543	35,300	39,300	30,100	34,800	39,600
1976 . . . . .	3,064	439	881	1,033	712	38,100	41,800	32,900	36,500	46,100
1977 . . . . .	3,650	515	1,101	1,231	803	42,900	44,400	36,700	39,800	57,300
1978 . . . . .	3,986	516	1,144	1,416	911	48,700	47,900	42,200	45,100	66,700
1979 . . . . .	3,827	526	1,061	1,353	887	55,700	53,600	47,800	51,300	77,400
1980 . . . . .	2,973	403	806	1,092	672	62,200	60,800	51,900	58,300	89,300
1981 . . . . .	2,419	353	632	917	516	66,400	63,700	54,300	64,400	96,200
1982 . . . . .	1,990	354	490	780	366	67,800	63,500	55,100	67,100	98,900
1983 . . . . .	2,719	493	709	1,035	481	70,300	72,200	56,600	69,200	94,900
1984 . . . . .	2,868	511	755	1,073	529	72,400	78,700	57,100	71,900	95,800
1985 . . . . .	3,214	622	866	1,172	554	75,500	88,900	58,900	75,200	95,400
1986 . . . . .	3,565	703	991	1,261	610	80,300	104,800	63,500	78,200	100,900
1987 . . . . .	3,526	685	959	1,282	600	85,600	133,300	66,000	80,400	113,200
1988 . . . . .	3,594	673	929	1,350	642	89,300	143,000	68,400	82,200	124,900
1989 . . . . .	3,440	589	919	1,307	610	93,100	145,200	71,300	84,500	139,900

Source: NATIONAL ASSOCIATION OF REALTORS R, Washington, DC, *Existing Home Sales*, monthly, and *Home Sales Yearbook: 1989*. (Copyright.)

### No. 1276. Median Sales Price of Existing One-Family Homes, by Selected Metropolitan Area: 1985 to 1990

[In thousands of dollars. Areas are metropolitan statistical areas (MSA's) except as indicated; for definitions and components, see Appendix II]

METROPOLITAN AREA	1985	1988	1989	1990, 2d qtr.	METROPOLITAN AREA	1985	1988	1989	1990, 2d qtr.
<b>U.S., all areas</b>	<b>75.5</b>	<b>89.3</b>	<b>93.1</b>	<b>96.9</b>	Louisville, KY-IN	50.6	54.5	58.4	59.7
Akron, OH PMSA	52.7	59.9	64.5	67.0	Memphis, TN-AR-MS	64.6	76.3	78.1	78.1
Albany-Schenectady-Troy, NY	60.3	92.2	104.9	106.9	Miami-Hialeah, FL PMSA	80.5	82.9	86.9	89.0
Albuquerque, NM	76.8	80.4	83.0	86.1	Milwaukee, WI PMSA	67.5	74.5	79.6	86.6
Anaheim-Santa Ana, CA PMSA	136.2	206.9	241.6	248.9	Minneapolis-St. Paul, MN-WI	75.2	85.2	87.2	90.3
Baltimore, MD	72.6	88.7	96.3	100.9	Nashville, TN	66.1	77.6	79.9	82.4
Baton Rouge, LA	74.6	84.7	83.8	86.5	New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA	134.0	183.8	183.2	175.0
Birmingham, AL	64.5	75.7	78.5	82.6	Oklaoma City, OK	64.7	56.2	53.5	54.1
Boston, MA PMSA	134.2	181.2	181.9	176.2	Omaha, NE-IA	58.3	59.5	60.6	61.4
Buffalo-Niagara Falls, NY CMSA	46.7	65.6	72.5	77.3	Orlando, FL	70.3	79.1	79.8	83.3
Chicago, IL PMSA	81.1	98.9	107.0	116.6	Philadelphia, PA-NJ PMSA	74.0	102.4	103.9	110.8
Cincinnati, OH-KY-IN PMSA	60.2	69.7	75.8	81.4	Phoenix, AZ	74.7	80.0	78.8	84.0
Cleveland, OH PMSA	64.4	69.2	75.2	81.5	Portland, OR PMSA	61.5	64.4	70.1	79.7
Columbus, OH	62.2	72.6	77.9	82.4	Providence, RI PMSA	67.5	130.6	130.2	130.5
Dallas, TX PMSA	94.0	90.8	92.4	92.0	Riverside/San Bernardino, CA PMSA	(NA)	106.7	123.8	133.2
Denver, CO PMSA	84.3	81.8	85.5	87.0	Rochester, NY	64.2	75.7	78.5	79.9
Des Moines, IA	52.5	55.8	57.5	58.1	St. Louis, MO-IL	65.7	78.1	76.9	82.0
Detroit, MI PMSA	51.7	73.1	73.7	77.9	Salt Lake City-Ogden, UT	66.7	67.7	69.4	68.2
Ft. Lauderdale-Hollywood-Pompano Beach, FL PMSA	74.6	81.1	83.9	92.2	San Antonio, TX	67.7	65.0	64.2	62.8
Ft. Worth, TX PMSA	74.9	73.3	79.9	74.6	San Diego, CA	106.4	147.8	181.8	183.7
Hartford, CT PMSA	99.6	167.6	165.9	159.3	San Francisco-Oakland-San Jose, CA CMSA	(NA)	212.6	260.2	263.6
Honolulu, HI	162.1	215.1	267.6	345.0	Seattle/Tacoma, WA CMSA	(NA)	88.7	115.0	147.6
Houston, TX PMSA	78.6	61.8	66.7	71.4	Syracuse, NY	58.8	74.6	79.3	80.5
Indianapolis, IN	55.0	66.1	71.2	82.3	Tampa-St. Petersburg-Clearwater, FL	58.4	65.6	71.9	70.4
Jacksonville, FL	58.4	67.7	69.3	73.0	Tulsa, OK	66.7	65.0	62.6	64.4
Kansas City, MO-KS	61.4	70.5	71.6	73.2	Washington, DC-MD-VA	97.1	132.5	144.4	150.9
Las Vegas, NV	75.1	78.8	85.7	93.3	West Palm Beach-Boca Raton-Delray Beach, FL	88.3	99.0	102.6	108.2
Los Angeles-Long Beach, CA PMSA	118.7	179.4	214.1	216.9					

NA Not available.

Source: NATIONAL ASSOCIATION OF REALTORS R, Washington, DC, *Existing Home Sales*, monthly. (Copyright.)

### No. 1277. Existing Home Sales, by State: 1985 to 1989

[In thousands]

REGION, DIVISION, AND STATE	1985	1986	1987	1988	1989	REGION, DIVISION, AND STATE	1985	1986	1987	1988	1989
<b>U.S.<sup>1</sup></b>	<b>3,214.0</b>	<b>3,565.0</b>	<b>3,526.0</b>	<b>3,594.0</b>	<b>3,440.0</b>	DC	9.9	11.6	10.5	10.8	9.0
<b>Northeast</b>	<b>756.3</b>	<b>848.3</b>	<b>874.4</b>	<b>859.3</b>	<b>775.0</b>	VA	107.2	130.4	113.0	113.6	100.3
<b>N.E.</b>	<b>206.0</b>	<b>213.6</b>	<b>233.7</b>	<b>227.1</b>	<b>205.8</b>	WV	37.7	39.7	36.6	44.5	45.9
ME	27.1	30.8	35.2	34.2	30.4	NC	123.3	139.2	140.6	141.8	132.8
NH	19.3	20.3	19.2	15.3	12.7	SC	52.6	58.0	60.9	63.3	60.2
VT	9.9	12.4	12.9	13.4	11.9	GA	65.1	75.1	89.0	84.9	82.0
MA	80.5	84.6	100.5	93.3	86.5	FL	151.3	169.4	184.2	183.1	185.9
RI	13.2	13.5	13.4	13.8	12.9	<b>E.S.C.</b>	<b>252.1</b>	<b>265.6</b>	<b>269.2</b>	<b>253.7</b>	<b>258.7</b>
CT	56.0	52.0	52.5	57.1	51.4	KY	57.7	58.6	64.1	67.9	70.7
<b>M.A.</b>	<b>550.3</b>	<b>634.7</b>	<b>640.7</b>	<b>632.2</b>	<b>569.2</b>	TN	99.2	112.0	111.2	102.6	105.4
NY	190.7	216.8	223.9	213.4	198.3	AL	59.7	60.8	59.7	52.6	51.1
NJ	148.8	159.6	157.3	142.3	128.0	MS	35.5	34.2	34.2	30.6	31.5
PA	210.8	258.3	259.5	276.5	242.9	<b>W.S.C.</b>	<b>344.5</b>	<b>335.1</b>	<b>357.5</b>	<b>369.2</b>	<b>365.8</b>
<b>Midwest</b>	<b>917.1</b>	<b>1,042.6</b>	<b>1,016.9</b>	<b>1,012.2</b>	<b>1,018.3</b>	AR	49.8	52.8	48.2	46.6	47.5
<b>E.N.C.</b>	<b>625.8</b>	<b>708.7</b>	<b>688.9</b>	<b>694.3</b>	<b>713.6</b>	LA	44.1	34.0	40.4	34.5	35.4
OH	162.5	179.9	180.9	181.9	189.1	OK	46.8	49.4	44.6	49.6	53.6
IN	90.1	86.1	89.8	85.1	87.7	TX	203.8	198.9	224.3	238.5	229.3
IL	140.5	179.2	175.3	186.5	187.9	<b>West</b>	<b>703.6</b>	<b>792.0</b>	<b>807.6</b>	<b>872.5</b>	<b>864.6</b>
MI	167.2	186.6	169.6	168.6	178.6	<b>Mt.</b>	<b>195.4</b>	<b>195.7</b>	<b>189.3</b>	<b>187.8</b>	<b>185.8</b>
WI	65.5	76.9	73.3	72.2	70.3	MT	11.1	11.9	11.6	11.9	12.7
<b>W.N.C.</b>	<b>291.3</b>	<b>333.9</b>	<b>326.0</b>	<b>317.9</b>	<b>304.7</b>	ID	11.5	11.3	10.9	11.3	13.5
MN	73.9	96.8	89.4	82.4	72.8	WY	6.5	6.1	6.0	5.8	6.0
IA	39.5	46.1	48.3	54.0	52.9	CO	49.3	47.5	46.7	49.3	43.8
MO	85.8	88.4	88.4	83.1	83.8	NM	19.8	19.5	20.0	18.6	19.1
ND	8.9	9.5	11.2	11.2	11.7	AZ	71.7	73.8	67.3	64.4	63.4
SD	11.3	13.2	13.0	14.2	14.4	UT	15.5	14.6	14.6	14.3	14.4
NE	24.5	25.5	23.3	22.4	24.0	NV	10.0	11.0	12.2	12.2	12.9
KS	47.4	54.4	54.4	50.6	45.1	<b>Pac.</b>	<b>508.2</b>	<b>596.3</b>	<b>618.3</b>	<b>684.7</b>	<b>678.8</b>
<b>South</b>	<b>1,236.9</b>	<b>1,323.9</b>	<b>1,353.9</b>	<b>1,364.4</b>	<b>1,335.4</b>	WA	43.8	50.6	43.6	48.9	61.1
<b>S.A.</b>	<b>640.3</b>	<b>723.2</b>	<b>727.2</b>	<b>741.5</b>	<b>710.9</b>	OR	39.3	45.0	48.5	53.1	59.7
DE	12.3	12.9	14.0	13.3	12.8	CA <sup>2</sup>	407.2	484.6	507.0	562.8	538.8
MD	80.9	86.9	78.5	86.2	82.0	AK	10.0	6.1	7.7	9.6	7.1
						HI	7.9	10.0	11.5	10.3	12.1

<sup>1</sup> U.S. totals are derived independently and therefore are not equal to the sum of the States. <sup>2</sup> Provided by the California Association of Realtors.

Source: NATIONAL ASSOCIATION OF REALTORS, Washington, DC, *Existing Home Sales*, monthly. (Copyright.)

**No. 1278. New Apartments Completed and Rented in 3 Months, by Region: 1980 to 1989**

[Structures with 5 or more units, privately financed, nonsubsidized, unfurnished apartments. Based on sample and subject to sampling variability. For composition of regions, see fig. 1, inside front cover]

YEAR AND RENT	NUMBER (1,000)					PERCENT RENTED IN 3 MONTHS				
	Total	North-east	Mid-west	South	West	Total	North-east	Mid-west	South	West
1980	196.1	14.2	43.8	91.5	46.6	75	77	77	74	75
1981	135.3	4.9	36.9	68.4	25.1	80	85	86	78	75
1982	117.0	4.6	21.9	66.8	23.7	72	74	79	70	72
1983	191.5	3.5	41.1	115.1	31.8	69	73	86	63	69
1984	313.2	3.8	41.2	194.4	73.9	67	64	79	63	70
1985	365.2	8.1	54.0	166.1	137.0	65	69	72	59	68
1986	407.6	16.9	64.5	171.7	154.5	66	70	70	62	67
1987	345.6	11.3	66.0	124.5	143.9	63	73	65	59	64
1988	284.5	8.7	60.4	91.7	123.8	66	52	73	58	69
1989	247.8	13.4	45.8	86.3	102.3	70	74	74	68	69
Less than \$350	14.3	1.4	2.8	7.0	3.2	87	100	81	85	89
\$350-\$549	88.3	3.8	24.8	36.0	23.7	75	72	83	72	73
\$550-\$749	86.6	2.3	13.4	31.2	39.8	67	61	69	63	70
\$750 or more	58.5	5.9	4.8	12.1	35.6	61	74	43	54	64

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-130 and H-131, and unpublished data.

**No. 1279. Gross Housing Product—Summary: 1970 to 1989**

[In billions of dollars. For definition of current and constant dollars, see Guide to Tabular Presentation]

ITEM	CURRENT DOLLARS						CONSTANT (1982) DOLLARS					
	1970	1980	1985	1987	1988	1989	1970	1980	1985	1987	1988	1989
Total value of housing output <sup>1</sup>	90.5	251.2	387.4	450.9	482.5	513.3	207.4	299.9	328.8	344.8	352.0	358.1
Nonfarm housing:	87.3	240.1	376.4	440.6	472.1	503.0	189.1	285.6	317.0	333.8	341.3	347.8
Owner-occupied	61.3	178.3	272.7	316.9	339.2	361.7	132.8	212.0	230.8	241.3	245.6	249.8
Tenant-occupied	26.0	61.9	103.8	123.6	132.9	141.2	56.2	73.6	86.3	92.6	95.7	98.0
Farm housing	3.3	11.0	10.9	10.3	10.4	10.3	18.3	14.3	11.7	11.0	10.7	10.3
Less: Intermediate goods and services consumed	12.7	47.2	63.4	71.0	74.2	73.6	29.9	56.4	53.9	54.4	54.2	52.8
Equals: Gross housing product	77.8	204.0	323.9	379.9	408.3	439.7	177.5	243.5	274.9	290.4	297.7	305.4

<sup>1</sup> Equals personal consumption expenditures (see text, section 14) for housing, less expenditures for transient hotels, motels, clubs, schools, and other group housing.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

**No. 1280. Residential Capital—Yearend Stocks and Average Age: 1970 to 1989**

[As of Dec. 31. Data based on fixed residential capital formation components of the gross national product. For definition of current and constant dollars, see Guide to Tabular Presentation]

ITEM	CURRENT DOLLARS (bil. dol.)					CONSTANT (1982) DOLLARS (bil. dol.)					AVERAGE AGE <sup>1</sup> (years)				
	1970	1980	1985	1988	1989	1970	1980	1985	1988	1989	1970	1980	1985	1988	1989
Gross stocks <sup>2</sup>	1,220	4,184	5,510	6,661	7,152	3,319	4,484	5,008	5,463	5,598	25.1	23.7	24.0	23.7	23.7
Private nonfarm:															
1-4 units	983	3,331	4,395	5,337	5,744	2,689	3,572	3,985	4,365	4,482	25.7	24.5	24.8	24.4	24.3
5 or more units	125	508	695	854	916	343	543	631	697	713	18.1	17.6	18.5	18.8	19.1
Farm (1-4 units)	55	134	152	159	164	150	145	137	130	128	43.9	42.8	42.9	43.5	43.6
Private nonhouse-keeping	10	24	27	30	32	27	25	25	25	25	14.6	19.3	21.8	23.0	23.4
Mobile homes	14	73	90	101	103	29	77	89	89	89	4.7	7.1	8.2	8.5	8.7
Public: Federal, State and local	25	85	112	133	142	68	91	101	108	110	14.9	19.6	21.7	22.8	23.1
Net stocks <sup>2,3</sup>	791	2,734	3,555	4,318	4,635	2,151	2,929	3,230	3,539	3,624	16.5	16.2	16.8	16.6	16.7
Private nonfarm:															
1-4 units	639	2,187	2,853	3,488	3,757	1,748	2,345	2,587	2,852	2,930	17.2	16.8	17.4	17.1	17.1
5 or more units	88	363	486	591	629	243	387	441	483	489	11.1	12.5	13.6	14.1	14.5
Farm (1-4 units)	24	57	64	65	67	64	62	58	53	52	28.8	26.4	26.4	27.4	27.4
Private nonhouse-keeping	6	12	13	13	14	18	13	11	11	11	9.0	16.0	18.3	18.7	18.6
Mobile homes	10	41	46	50	51	21	43	46	45	44	3.3	5.3	5.6	5.8	5.9
Public: Federal, State and local	18	57	72	83	89	51	61	65	68	69	12.7	16.2	17.6	18.1	18.3

<sup>1</sup> Constant-dollar stocks. <sup>2</sup> Includes equipment, not shown separately. <sup>3</sup> Based on straight-line depreciation.

Source: U.S. Bureau of Economic Analysis, *Fixed Reproducible Tangible Wealth in the United States, 1925-85* and *Survey of Current Business*, August issues.



# No. 1281. Housing Units—Summary of Characteristics and Equipment, by Tenure and Region: 1987

[In thousands of units, except as indicated. Based on the American Housing Survey; see Appendix III. For composition of regions, see fig. 1, inside front cover]

ITEM	Total housing units	Seasonal	YEAR-ROUND UNITS								Vacant
			Occupied								
			Total	Owner	Renter	North-east	Mid-west	South	West		
<b>Total units</b> . . . . .	<b>102,652</b>	<b>2,837</b>	<b>90,888</b>	<b>58,164</b>	<b>32,724</b>	<b>18,953</b>	<b>22,267</b>	<b>31,270</b>	<b>18,397</b>	<b>8,927</b>	
Percent distribution . . . . .	100.0	2.8	88.5	56.7	31.9	20.9	24.5	34.4	20.2	8.7	
<b>Units in structure:</b>											
Single family detached . . . . .	61,775	1,741	56,559	48,162	8,397	9,644	15,097	20,694	11,125	3,475	
Single family attached . . . . .	5,496	74	4,820	2,456	2,364	1,378	878	1,619	944	602	
2-4 units . . . . .	10,987	156	9,472	1,872	7,601	3,265	2,297	2,172	1,739	1,359	
5-9 units . . . . .	5,358	63	4,533	325	4,209	988	973	1,469	1,103	761	
10-19 units . . . . .	4,766	57	3,948	279	3,669	767	780	1,487	914	781	
20-49 units . . . . .	3,625	63	2,936	256	2,680	895	553	629	859	626	
50 or more units . . . . .	3,957	79	3,352	544	2,808	1,520	642	617	573	526	
Mobile home or trailer . . . . .	6,688	604	5,267	4,270	997	496	1,048	2,583	1,140	817	
<b>Stories in structure:</b> <sup>1</sup>											
One story . . . . .	2,643	42	2,241	243	1,999	114	309	1,109	709	360	
2 stories . . . . .	8,407	108	6,877	664	6,213	729	909	2,963	2,277	1,422	
3 stories . . . . .	7,034	97	6,018	1,185	4,834	2,397	2,046	882	693	919	
4-6 stories . . . . .	8,073	132	6,930	818	6,112	2,837	1,679	1,095	1,319	1,012	
7 or more stories . . . . .	2,537	40	2,175	367	1,808	1,358	301	325	190	321	
<b>Foundation:</b>											
Full or partial basement . . . . .	30,711	369	29,049	25,392	3,657	9,526	12,150	4,679	2,695	1,292	
Crawlspace . . . . .	18,356	666	16,196	12,684	3,512	540	2,268	8,736	4,653	1,494	
Concrete slab . . . . .	16,402	403	14,868	11,651	3,217	843	1,347	8,178	4,500	1,130	
Other . . . . .	1,802	375	1,265	891	375	114	210	720	221	161	
<b>Year structure built:</b> <sup>2</sup>											
1939 and earlier . . . . .	24,104	575	21,215	12,110	9,105	7,735	6,793	4,233	2,455	2,314	
1940 to 1949 . . . . .	9,038	340	7,945	4,997	2,948	1,692	1,816	2,789	1,647	753	
1950 to 1959 . . . . .	14,249	367	13,056	9,559	3,497	2,730	3,367	4,162	2,797	825	
1960 to 1969 . . . . .	16,768	473	15,136	10,110	5,025	2,594	3,475	5,641	3,425	1,160	
1970 to 1979 . . . . .	24,825	749	21,829	13,777	8,054	2,868	4,894	8,764	5,304	2,246	
1980 or later . . . . .	13,688	334	11,706	7,611	4,095	1,335	1,922	5,681	2,768	1,627	
Median year . . . . .	1962	1963	1962	1962	1962	1950	1958	1968	1967	1965	
<b>Main heating equipment:</b>											
Warm-air furnace . . . . .	54,929	818	49,854	35,049	14,805	6,770	16,059	17,341	9,684	4,258	
Electric heat pump . . . . .	4,361	118	3,688	2,809	878	222	339	2,621	506	556	
Steam or hot water system . . . . .	15,102	100	13,855	7,190	6,665	9,456	2,785	915	699	1,147	
Floor, wall, or pipeless furnace . . . . .	6,059	103	5,450	2,583	2,867	207	424	1,701	3,118	506	
Built-in electric units . . . . .	7,255	329	6,092	2,873	3,220	1,352	1,280	1,724	1,736	833	
Room heaters with flue . . . . .	3,331	276	2,629	1,403	1,226	217	475	1,505	432	426	
Room heaters without flue . . . . .	2,741	36	2,346	1,313	1,033	30	51	2,167	98	359	
Stoves . . . . .	4,501	427	3,762	2,895	867	546	626	1,690	900	312	
Fireplaces . . . . .	1,377	145	1,150	971	178	47	102	512	489	83	
None . . . . .	1,297	389	659	282	377	14	21	202	422	249	
Portable elec. heaters . . . . .	820	71	671	320	351	8	26	442	194	79	
Other . . . . .	879	27	732	476	256	85	78	449	120	120	
<b>Air conditioning:</b>											
Central . . . . .	36,752	529	33,006	23,378	9,628	2,526	7,929	17,484	5,067	3,217	
Percent of total units . . . . .	35.8	18.6	36.3	40.2	29.4	13.3	35.6	55.9	27.5	36.0	
One or more room units . . . . .	28,220	369	26,547	16,885	9,660	7,551	6,988	9,058	2,948	1,305	
<b>Source of water:</b>											
Public system or private company . . . . .	86,952	1,376	77,944	47,446	30,498	16,097	18,361	26,347	17,139	7,631	
Percent of total units . . . . .	84.7	48.5	85.8	81.6	93.2	84.9	82.5	84.3	93.2	85.5	
Well serving 1 to 5 units . . . . .	14,232	941	12,183	10,145	2,038	2,696	3,759	4,558	1,170	1,109	
Other . . . . .	1,468	520	761	573	188	160	148	365	88	187	
<b>Means of sewage disposal:</b>											
Public sewer . . . . .	77,130	975	69,345	40,150	29,195	14,672	17,431	21,770	15,472	6,811	
Percent of total units . . . . .	75.1	34.4	76.3	69.0	89.2	77.4	78.3	69.6	84.1	76.3	
Septic tank, cesspool, chemical toilet . . . . .	24,769	1,537	21,281	17,886	3,395	4,255	4,817	9,302	2,908	1,951	
Other . . . . .	752	325	262	128	134	26	20	198	18	165	

<sup>1</sup> Limited to multiunit structures in 1987. <sup>2</sup> For mobile home, oldest category is 1939 or earlier.

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-87, American Housing Survey.

## No. 1282. Housing Units—Size of Units and Lot: 1987

[In thousands, except as indicated. Based on the American Housing Survey; see Appendix III]

ITEM	Total housing units	Seasonal	YEAR-ROUND UNITS								Vacant
			Occupied								
			Total	Owner	Renter	North-east	Mid-west	South	West		
<b>Total units</b> .....	<b>102,652</b>	<b>2,837</b>	<b>90,888</b>	<b>58,164</b>	<b>32,724</b>	<b>18,953</b>	<b>22,267</b>	<b>31,270</b>	<b>18,397</b>	<b>8,927</b>	
Rooms:											
1 room .....	1,017	119	681	29	652	248	140	110	183	218	
2 rooms .....	1,685	194	1,160	73	1,087	341	219	248	353	331	
3 rooms .....	10,694	484	8,620	963	7,657	2,343	1,798	2,459	2,020	1,590	
4 rooms .....	21,707	983	17,745	6,800	10,945	3,317	4,062	6,393	3,973	2,979	
5 rooms .....	23,393	588	20,940	14,264	6,676	3,665	5,327	7,972	3,976	1,865	
6 rooms .....	19,717	271	18,374	15,017	3,358	3,825	4,691	6,569	3,289	1,072	
7 rooms .....	12,425	93	11,856	10,402	1,454	2,584	3,029	3,983	2,259	476	
8 rooms or more .....	12,013	107	11,512	10,616	896	2,630	3,002	3,535	2,346	395	
Median number of rooms .....	5.2	4.1	5.3	6.0	4.1	5.4	5.4	5.3	5.2	4.3	
Complete bathrooms:											
No bathrooms .....	1,665	506	768	213	555	214	159	289	106	391	
1 bathroom .....	54,110	1,603	46,919	22,398	24,521	11,331	12,505	14,655	8,428	5,588	
1 and one-half bathrooms .....	16,955	264	15,725	12,330	3,395	3,709	4,909	4,443	2,665	966	
2 or more bathrooms .....	29,922	465	27,476	23,223	4,253	3,699	4,695	11,884	7,198	1,981	
Square footage of unit:											
Single detached and mobile homes	68,423	2,343	61,790	52,421	9,369	10,129	16,141	23,277	12,243	4,290	
Less than 500 .....	1,392	360	770	386	384	74	131	347	218	263	
500 to 749 .....	3,842	434	2,909	1,874	1,035	296	663	1,431	519	499	
750 to 999 .....	7,149	362	6,110	4,579	1,532	605	1,461	2,854	1,190	677	
1,000 to 1,499 .....	16,321	311	15,116	12,728	2,389	1,475	3,326	6,845	3,470	894	
1,500 to 1,999 .....	13,450	149	12,718	11,305	1,412	1,869	3,068	4,773	3,008	583	
2,000 to 2,499 .....	9,191	56	8,823	8,080	743	1,872	2,761	2,569	1,621	312	
2,500 to 2,999 .....	4,914	45	4,688	4,364	324	1,187	1,521	1,259	722	181	
3,000 to 3,999 .....	4,263	37	4,101	3,854	246	1,070	1,375	1,079	577	125	
4,000 or more .....	2,465	28	2,352	2,143	208	678	671	700	302	85	
Other <sup>2</sup> .....	5,435	561	4,203	3,108	1,095	1,002	1,185	1,419	617	671	
Median square footage .....	1,604	817	1,653	1,725	1,248	2,065	1,811	1,460	1,569	1,207	
Lot size:											
Single detached and attached units and mobile homes <sup>1</sup>	69,392	176	66,610	54,877	11,732	11,508	17,020	24,896	13,187	2,808	
Less than one-eighth acre .....	7,198	47	6,810	5,665	1,144	1,629	1,684	1,865	1,631	342	
One-eighth to one-quarter acre .....	13,087	22	12,599	11,413	1,186	1,965	3,407	4,153	3,074	466	
One-quarter to one-half acre .....	9,405	20	9,101	8,263	838	1,772	2,301	3,463	1,565	284	
One-half up to one acre .....	6,316	19	6,168	5,553	615	1,446	1,276	2,656	790	129	
1 to 4 acres .....	9,577	23	9,316	8,266	1,050	1,945	1,994	4,271	1,107	238	
5 to 9 acres .....	1,606	4	1,567	1,427	140	221	388	731	227	36	
10 acres or more .....	3,911	9	3,782	3,203	579	479	1,250	1,805	449	120	
Median acreage .....	0.39	0.28	0.39	0.40	0.38	0.41	0.37	0.49	0.24	0.25	

<sup>1</sup> Does not include selected vacant units. <sup>2</sup> Represents units not reported or size unknown. <sup>3</sup> Includes units not reported or for which data are not known, not shown separately.

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-87, American Housing Survey.

## No. 1283. Occupied Housing Units—Tenure, by Race of Householder: 1920 to 1987

[In thousands, except as indicated. As of April 1, except 1985 and 1987, as of fall. Prior to 1960, excludes Alaska and Hawaii. Statistics on the number of occupied units are essentially comparable although identified by various terms—the term "family" applies to figures for 1920 and 1930; "occupied dwelling unit," 1940 and 1950; and "occupied housing unit," 1960 to 1985. For 1920, includes the small number of quasifamilies; for 1930, represents private families only. See also *Historical Statistics, Colonial Times to 1970*, series N 238-245]

RACE OF HOUSEHOLDER AND TENURE	1920	1930	1940	1950	1960	1970	1980	1985	1987
<b>ALL RACES</b>									
Occupied units, total .....	24,352	29,905	34,855	42,826	53,024	63,445	80,390	88,425	90,888
Owner occupied .....	11,114	14,280	15,196	23,560	32,797	39,886	51,795	58,145	58,164
Percent of occupied .....	45.6	47.8	43.6	55.0	61.9	62.9	64.4	63.5	64.0
Renter occupied .....	13,238	15,624	19,659	19,266	20,227	23,560	28,595	32,280	32,724
<b>WHITE</b>									
Occupied units, total .....	21,826	26,983	31,561	39,044	47,880	56,606	68,810	76,266	78,179
Owner occupied .....	10,511	13,544	14,418	22,241	30,823	37,005	46,671	50,938	52,661
Percent of occupied .....	48.2	50.2	45.7	57.0	64.4	65.4	67.8	66.8	67.4
Renter occupied .....	11,315	13,439	17,143	16,803	17,057	19,601	22,139	25,328	25,518
<b>BLACK AND OTHER</b>									
Occupied units, total .....	2,526	2,922	3,293	3,783	5,144	6,839	11,580	12,160	12,709
Owner occupied .....	603	737	778	1,319	1,974	2,881	5,124	5,208	5,504
Percent of occupied .....	23.9	25.2	23.6	34.9	38.4	42.1	44.2	42.8	43.3
Renter occupied .....	1,923	2,185	2,516	2,464	3,170	3,958	6,456	6,952	7,206

Source: U.S. Bureau of the Census, *Census of Housing: 1960*, vol. 1; 1970, vol. 1; 1980 *Census of Housing*, vol. 1, chapter A (HC80-1-A); and *Current Housing Reports*, series H-150, American Housing Survey.

## No. 1284. Housing Units—Selected Characteristics, by State: 1990

(As of April 1)

REGION, DIVISION, AND STATE	Total units (1,000)	Percent change, 1980-90	Occu- pied units (1,000)	Vacant units (1,000)	Vacancy rate (per- cent)	REGION, DIVISION, AND STATE	Total units (1,000)	Percent change, 1980-90	Occu- pied units (1,000)	Vacant units (1,000)	Vacancy rate (per- cent)
<b>U.S.</b> . . .	<b>102,284</b>	<b>15.7</b>	<b>91,947</b>	<b>10,316</b>	<b>10.1</b>	DC . . .	278	0.5	250	29	10.4
<b>Northeast.</b>	<b>20,811</b>	<b>9.0</b>	<b>18,873</b>	<b>1,938</b>	<b>9.3</b>	VA . . .	2,496	23.5	2,292	205	8.2
<b>N.E.</b> . . .	<b>5,570</b>	<b>14.8</b>	<b>4,943</b>	<b>628</b>	<b>11.3</b>	WV . . .	781	4.5	689	93	11.9
ME . . .	587	17.2	465	122	20.7	NC . . .	2,818	23.9	2,517	301	10.7
NH . . .	504	30.4	411	93	18.6	SC . . .	1,424	23.4	1,258	166	11.7
VT . . .	271	21.5	211	61	22.3	GA . . .	2,638	30.1	2,367	272	10.3
MA . . .	2,473	12.0	2,247	226	9.1	FL . . .	6,100	39.3	5,135	965	15.8
RI . . .	415	11.2	378	37	8.8	<b>E.S.C.</b> . . .	<b>6,214</b>	<b>13.1</b>	<b>5,652</b>	<b>562</b>	<b>9.0</b>
CT . . .	1,321	14.0	1,230	90	6.8	KY . . .	1,507	10.1	1,380	127	8.4
<b>M.A.</b> . . .	<b>15,240</b>	<b>7.1</b>	<b>13,930</b>	<b>1,310</b>	<b>8.6</b>	TN . . .	2,026	15.9	1,854	172	8.5
NY . . .	7,227	5.2	6,639	588	8.1	AL . . .	1,670	13.8	1,507	164	9.8
NJ . . .	3,075	10.9	2,795	281	9.1	MS . . .	1,010	10.8	911	99	9.8
PA . . .	4,938	7.4	4,496	442	9.0	<b>W.S.C.</b> . . .	<b>11,132</b>	<b>20.6</b>	<b>9,668</b>	<b>1,465</b>	<b>13.2</b>
<b>Midwest.</b>	<b>24,493</b>	<b>7.3</b>	<b>22,317</b>	<b>2,176</b>	<b>8.9</b>	AR . . .	1,001	11.4	891	109	10.9
<b>E.N.C.</b> . . .	<b>17,028</b>	<b>6.6</b>	<b>15,597</b>	<b>1,431</b>	<b>8.4</b>	LA . . .	1,716	10.8	1,499	217	12.6
OH . . .	4,372	6.4	4,088	284	6.5	OK . . .	1,406	13.7	1,206	200	14.2
IN . . .	2,246	7.4	2,065	181	8.0	TX . . .	7,009	26.3	6,071	938	13.6
IL . . .	4,506	4.3	4,202	304	6.7	<b>West.</b> . . .	<b>20,895</b>	<b>22.3</b>	<b>18,935</b>	<b>1,960</b>	<b>9.4</b>
MI . . .	3,848	7.2	3,419	429	11.1	MT . . .	5,864	29.3	5,033	831	14.2
WI . . .	2,056	10.3	1,822	234	11.4	ID . . .	413	10.2	361	53	12.7
<b>W.N.C.</b> . . .	<b>7,465</b>	<b>9.0</b>	<b>6,720</b>	<b>744</b>	<b>10.0</b>	WY . . .	203	8.1	169	35	17.0
MN . . .	1,848	14.6	1,648	201	10.9	CO . . .	1,477	23.7	1,282	195	13.2
IA . . .	1,144	1.1	1,064	79	6.9	NM . . .	632	24.5	543	89	14.1
MO . . .	2,199	10.6	1,961	238	10.8	AZ . . .	1,659	49.4	1,369	291	17.5
ND . . .	276	6.8	241	35	12.8	UT . . .	598	22.1	537	61	10.2
SD . . .	292	5.6	259	33	11.4	NV . . .	519	52.6	466	53	10.1
NE . . .	661	5.7	602	58	8.8	<b>Pac.</b> . . .	<b>15,031</b>	<b>19.8</b>	<b>13,902</b>	<b>1,129</b>	<b>7.5</b>
KS . . .	1,044	9.3	945	99	9.5	WA . . .	2,032	20.3	1,872	160	7.9
<b>South.</b> . . .	<b>36,065</b>	<b>22.6</b>	<b>31,822</b>	<b>4,243</b>	<b>11.8</b>	OR . . .	1,194	10.2	1,103	90	7.6
<b>S.A.</b> . . .	<b>18,719</b>	<b>27.4</b>	<b>16,503</b>	<b>2,216</b>	<b>11.8</b>	CA . . .	11,183	20.5	10,381	802	7.2
DE . . .	290	21.5	247	42	14.6	AK . . .	233	42.9	189	44	18.8
MD . . .	1,892	20.4	1,749	143	7.6	HI . . .	390	16.6	356	34	8.6

1990 Census Note: The population counts set forth herein are subject to possible correction for undercount or overcount. The United States Department of Commerce is considering whether to correct these counts and will publish corrected counts, if any, not later than July 15, 1991.

Source: U.S. Bureau of the Census, press release, CB91-155.

## No. 1285. Occupied Housing Units—Tenure, by Selected Characteristics of the Unit and Householder: 1987

(In thousands of units, except as indicated. Based on the American Housing Survey; see Appendix III)

CHARACTERISTIC	Total occu- pied units	TENURE		BLACK		HISPANIC ORIGIN <sup>1</sup>		ELDERLY <sup>2</sup>		RECENT MOVERS <sup>3</sup>	
		Owner	Renter	Owner	Renter	Owner	Renter	Owner	Renter	Owner	Renter
<b>Total units</b> . . . . .	<b>90,888</b>	<b>58,164</b>	<b>32,724</b>	<b>4,458</b>	<b>5,794</b>	<b>2,259</b>	<b>3,328</b>	<b>14,790</b>	<b>4,954</b>	<b>4,947</b>	<b>12,275</b>
Units in structure:											
Single family detached . . . . .	56,559	48,162	8,397	3,591	1,273	1,885	742	11,967	1,045	3,632	2,793
Single family attached . . . . .	4,820	2,456	2,364	381	522	98	228	620	324	317	973
2-4 units . . . . .	4,472	1,872	2,601	175	1,450	101	771	617	969	159	2,911
5-9 units . . . . .	4,533	325	4,209	13	835	20	478	94	532	63	1,785
10-19 units . . . . .	3,948	279	3,669	20	616	5	372	106	437	55	1,748
20-49 units . . . . .	2,938	256	2,680	9	463	2	397	125	454	39	1,039
50 or more units . . . . .	3,352	544	2,808	54	579	18	284	221	1,081	74	611
Mobile home or trailer . . . . .	5,267	4,270	997	215	55	130	55	1,040	111	608	415
Stories in structure: <sup>4</sup>											
One story . . . . .	2,241	243	1,999	16	425	21	291	122	370	24	831
2 stories . . . . .	6,877	664	6,213	59	1,176	28	675	244	710	84	2,979
3 stories . . . . .	6,018	1,185	4,834	94	704	35	314	420	710	119	1,917
4-6 stories . . . . .	6,930	818	6,112	48	1,221	51	808	254	997	127	2,086
7 or more stories . . . . .	2,175	367	1,808	55	417	11	213	123	686	35	281
Year structure built: <sup>5</sup>											
1939 or earlier . . . . .	21,215	12,110	9,105	1,158	1,859	331	999	4,486	1,387	626	2,758
1940 to 1949 . . . . .	7,945	4,997	2,948	626	663	278	448	1,851	445	267	945
1950 to 1959 . . . . .	13,056	9,559	3,497	688	660	438	455	3,048	512	476	1,157
1960 to 1969 . . . . .	15,136	10,110	5,025	746	898	331	454	2,389	839	619	1,706
1970 to 1979 . . . . .	21,829	13,777	8,054	865	1,242	579	665	2,272	1,286	1,202	3,274
1980 or later . . . . .	11,706	7,811	4,095	374	471	302	307	745	484	1,757	2,435
Median year . . . . .	1962	1962	1962	1956	1956	1963	1955	1953	1962	1975	1967
Percent of total occupied units—											
With public water system or private company . . . . .	85.8	81.6	93.2	88.6	97.0	94.3	97.2	83.2	93.4	84.0	94.9
With public sewer . . . . .	76.3	69.0	89.2	80.1	95.4	84.6	94.2	71.7	89.9	72.5	91.5
With air conditioning . . . . .	36.3	40.2	29.4	29.0	25.4	35.1	21.7	35.6	25.0	50.4	37.8

<sup>1</sup> Persons of Hispanic origin may be of any race. <sup>2</sup> Householders 65 years old and over. <sup>3</sup> Recent movers are householders that moved during the 12 months prior to interview. <sup>4</sup> Limited to multiunit structure in 1987. <sup>5</sup> For mobile home, oldest category in 1939 or earlier.

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-87, American Housing Survey.

**No. 1286. Occupied Housing Units—Housing Value and Gross Rent: 1987**

[In thousands of units, except as indicated. Specified owner-occupied units are limited to one-unit structures on less than 10 acres and no business on property. Specified renter-occupied units exclude one-units on 10 acres or more. Based on the American Housing Survey; see Appendix III]

VALUE CATEGORY	OWNER OCCUPIED UNITS				RENT CATEGORY	RENTER OCCUPIED UNITS			
	Total units	Black	Hispanic <sup>1</sup>	Elderly <sup>2</sup>		Total units	Black	Hispanic <sup>1</sup>	Elderly <sup>2</sup>
<b>Specified owner occupied</b> . . . . .	<b>46,349</b>	<b>3,819</b>	<b>1,906</b>	<b>11,294</b>	<b>Specified renter occupied</b> . . . . .	<b>32,215</b>	<b>5,758</b>	<b>3,311</b>	<b>4,852</b>
Less than \$20,000 . . . . .	1,988	401	133	796	Less than \$200 . . . . .	3,518	1,107	383	1,231
\$20,000-\$29,999 . . . . .	2,291	348	95	864	\$200-\$249 . . . . .	2,184	547	204	472
\$30,000-\$39,999 . . . . .	3,724	575	137	1,156	\$250-\$299 . . . . .	2,824	534	304	449
\$40,000-\$49,999 . . . . .	4,824	584	196	1,380	\$300-\$349 . . . . .	3,268	622	353	391
\$50,000-\$59,999 . . . . .	4,359	487	160	1,115	\$350-\$399 . . . . .	3,452	632	363	412
\$60,000-\$69,999 . . . . .	5,005	388	168	1,213	\$400-\$449 . . . . .	3,192	569	342	330
\$70,000-\$79,999 . . . . .	4,057	306	183	945	\$450-\$499 . . . . .	2,761	422	328	282
\$80,000-\$99,999 . . . . .	5,773	288	238	1,092	\$500-\$599 . . . . .	4,008	618	433	403
\$100,000-\$119,999 . . . . .	3,068	133	155	623	\$600-\$699 . . . . .	2,213	206	223	202
\$120,000-\$149,999 . . . . .	3,504	124	185	605	\$700-\$799 . . . . .	1,200	101	103	107
\$150,000-\$199,999 . . . . .	3,648	129	137	709	\$800-\$999 . . . . .	1,144	98	68	98
\$200,000-\$299,999 . . . . .	2,640	39	73	549	\$1,000 and over . . . . .	652	56	74	43
\$300,000 and over . . . . .	1,466	16	46	250	No cash rent . . . . .	1,799	245	132	433
Median value (dol.) . . . . .	\$72,400	\$50,000	\$73,500	\$62,800	Median amount (dol.) . . . . .	\$399	\$346	\$398	\$307

<sup>1</sup> Persons of Hispanic origin may be of any race. <sup>2</sup> Householders 65 years old and over.

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-87, American Housing Survey.

**No. 1287. Occupied Housing Units—Financial Summary, by Selected Characteristics of the Householder and Tenure: 1987**

[In thousands of units, except as indicated. Housing costs include real estate taxes, property insurance, utilities, fuel, water, garbage collection, and mortgage. Based on the American Housing Survey; see Appendix III]

ITEM	Total occupied units	TENURE		BLACK		HISPANIC ORIGIN <sup>1</sup>		ELDERLY <sup>2</sup>		HOUSEHOLDS BELOW POVERTY LEVEL	
		Owner	Renter	Owner	Renter	Owner	Renter	Owner	Renter	Owner	Renter
<b>Total units</b> <sup>3</sup> . . . . .	<b>90,888</b>	<b>58,164</b>	<b>32,724</b>	<b>4,458</b>	<b>5,794</b>	<b>2,259</b>	<b>3,328</b>	<b>14,790</b>	<b>4,954</b>	<b>4,608</b>	<b>7,361</b>
Monthly housing costs:											
Less than \$300 . . . . .	30,375	21,738	8,636	1,852	2,195	779	891	10,419	2,175	3,128	3,617
\$300-\$399 . . . . .	13,114	6,351	6,763	520	1,260	209	716	1,623	806	390	1,423
\$400-\$499 . . . . .	11,063	5,075	5,988	399	991	207	673	830	614	251	887
\$500-\$599 . . . . .	8,436	4,413	4,023	324	623	177	433	399	403	161	433
\$600-\$699 . . . . .	5,683	3,460	2,223	207	206	131	223	277	202	112	166
\$700-\$799 . . . . .	4,001	2,793	1,208	218	101	136	103	160	109	60	95
\$800-\$999 . . . . .	4,057	3,808	1,149	240	98	175	68	219	98	66	70
\$1,000 or more . . . . .	6,176	5,508	670	229	56	233	74	282	43	94	66
Median amount (dol.) . . . . .	388	375	399	324	346	416	398	213	306	193	285
Monthly housing costs as percent of income:											
Less than 5 percent . . . . .	2,530	2,336	195	138	34	102	20	506	16	17	16
5-9 percent . . . . .	10,027	9,099	928	554	138	307	89	2,262	59	41	25
10-14 percent . . . . .	12,433	9,799	2,634	602	399	291	202	2,739	176	124	60
15-19 percent . . . . .	12,497	8,605	3,891	572	611	334	326	2,174	272	244	110
20-24 percent . . . . .	11,098	6,991	4,107	540	666	254	443	1,642	395	282	288
25-29 percent . . . . .	8,665	4,787	3,878	339	683	167	385	1,243	636	356	461
30-34 percent . . . . .	6,124	3,167	2,958	275	495	163	309	834	545	306	365
35-39 percent . . . . .	4,045	2,065	1,979	220	335	114	250	642	380	302	313
40 percent or more . . . . .	15,749	6,019	9,729	712	2,079	313	1,131	2,096	1,947	2,319	4,808
Median amount (percent) . . . . .	22	18	29	21	32	20	32	19	36	46	66
Median monthly costs (dol.):											
Electricity . . . . .	60	66	45	68	47	59	40	55	38	56	44
Piped gas . . . . .	45	51	32	59	38	36	525	49	30	47	36
Fuel oil . . . . .	57	60	45	63	45	70	42	63	48	49	42

<sup>1</sup> Persons of Hispanic origin may be of any race. <sup>2</sup> Householders 65 years old and over. <sup>3</sup> Includes units with mortgage payment not reported and no cash rent not shown separately. <sup>4</sup> Money income before taxes. <sup>5</sup> Less than \$25.

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-87, American Housing Survey.

**No. 1288. Heating Equipment and Fuels for Occupied Units: 1950 to 1987**

[See also table 1281 for more data on heating equipment]

ITEM	NUMBER (1,000)					PERCENT DISTRIBUTION				
	1950	1960	1970	1980	1987	1950	1960	1970	1980	1987
<b>Occupied units, total</b> . . . . .	<b>42,826</b>	<b>53,024</b>	<b>63,445</b>	<b>80,390</b>	<b>90,888</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Heating equipment:</b>										
Warm air furnace . . . . .	11,508	17,378	27,515	39,279	49,854	26.9	32.8	43.4	48.9	54.9
Heat pumps . . . . .				2,835	3,688				3.5	4.1
Steam or hot water . . . . .	10,071	11,990	13,211	13,859	13,855	23.5	22.6	20.8	17.2	15.2
Floor, wall, or pipeless furnace . . . . .	( <sup>1</sup> )	6,088	5,552	4,693	5,450	( <sup>1</sup> )	11.5	8.8	5.8	6.0
Built-in electric units . . . . .		664	3,236	6,370	6,092		1.3	5.1	7.9	6.7
Room heaters with flue . . . . .	<sup>2</sup> 15,399	<sup>2</sup> 11,183	7,209	6,098	2,629	<sup>2</sup> 36.0	<sup>2</sup> 21.1	11.4	7.6	2.9
Room heaters without flue . . . . .	5,268	5,218	3,558	2,736	2,346	12.3	9.8	5.6	3.4	2.6
Fireplaces, stoves, portable heaters or other . . . . .	( <sup>3</sup> )	( <sup>3</sup> )	2,766	3,977	6,315	( <sup>3</sup> )	( <sup>3</sup> )	4.4	4.9	6.9
None . . . . .	581	503	398	541	659	1.4	0.9	0.6	0.7	0.7
<b>House heating fuel:</b>										
Utility gas . . . . .	11,387	22,851	35,014	42,658	45,959	26.6	43.1	55.2	53.1	50.6
Fuel oil, kerosene, etc. . . . .	9,686	17,158	16,473	14,655	13,813	22.6	32.4	26.0	18.2	15.2
Electricity . . . . .	283	933	4,876	14,768	20,608	0.7	1.8	7.7	18.3	22.7
Bottled, tank, or LP gas . . . . .	787	2,686	3,807	4,535	3,659	1.8	5.1	6.0	5.6	4.0
Wood and other fuel . . . . .	4,855	2,460	1,060	2,729	5,782	11.3	4.6	1.7	3.4	6.4
Coal or coke . . . . .	14,828	6,456	1,821	504	407	34.6	12.2	2.9	0.6	0.4
None . . . . .	999	478	395	541	(NA)	2.3	0.9	0.6	0.7	(NA)
<b>Cooking fuel:</b>										
Electricity . . . . .	6,403	16,351	25,788	41,906	51,629	15.0	30.8	40.6	52.1	56.8
Gas . . . . .	25,501	33,787	36,558	37,944	38,540	59.6	63.7	57.6	47.2	42.4
Other fuel . . . . .	10,796	2,603	908	398	330	25.2	4.9	1.4	0.5	0.4
None . . . . .	124	280	213	142	(NA)	0.3	0.5	0.3	0.2	(NA)

- Represents zero. NA Not available. <sup>1</sup> "Floor, wall, or pipeless furnace" included in "Warm air furnace." <sup>2</sup> "Fireplaces, stoves, or portable heaters" included in "Room heaters with flue." <sup>3</sup> Includes utility, bottled, tank, and LP gas.

Source: U.S. Bureau of the Census, *Census of Housing, 1960*, vol. 1, and *1980*, vol. 1; *Current Housing Reports*, series H-150-87, American Housing Survey.

**No. 1289. Appliances Used by Households, by Region and Family Income: 1987**

[In millions, except percent. As of November. Represents appliances possessed and generally used by the household. Based on Residential Energy Consumption Survey; see Appendix III. For composition of regions, see fig. 1, inside front cover.]

TYPE OF APPLIANCE	HOUSEHOLDS USING APPLIANCE		REGION				FAMILY INCOME IN 1987			
	Number	Percent of total	North-east	Midwest	South	West	Under \$15,000	\$15,000-\$24,999	\$25,000-\$34,999	\$35,000 and over
<b>Total households</b> . . . . .	<b>90.5</b>	<b>100.0</b>	<b>19.0</b>	<b>22.3</b>	<b>30.9</b>	<b>18.3</b>	<b>30.3</b>	<b>17.8</b>	<b>16.2</b>	<b>26.3</b>
Air conditioners: Room . . . . .	26.9	29.8	7.4	7.9	9.2	2.4	10.1	6.0	4.6	6.2
Central system . . . . .	30.7	33.9	3.0	7.2	16.2	4.3	5.9	5.2	6.4	13.2
Clothes washer . . . . .	67.8	74.9	13.8	17.1	23.8	13.1	18.4	13.0	12.7	23.7
Clothes dryer . . . . .	59.6	65.8	11.3	16.2	20.1	12.0	13.5	11.5	11.7	23.0
Dehumidifier . . . . .	9.0	10.0	2.9	4.7	1.3	0.1	1.4	1.5	2.2	4.0
Dishwasher . . . . .	39.0	43.1	7.4	7.6	14.0	10.0	5.1	6.5	8.4	19.1
Evaporative cooler . . . . .	3.0	3.4	-	0.1	0.6	2.3	1.3	0.6	0.5	0.7
Freezer . . . . .	30.8	34.0	4.8	9.2	11.3	5.4	8.8	5.2	5.8	10.9
Humidifier . . . . .	13.2	14.6	2.8	7.2	2.3	1.0	2.7	2.6	2.6	5.3
Microwave oven . . . . .	55.0	60.8	9.8	14.9	18.7	11.7	12.1	10.8	10.9	21.2
Motor vehicles: <sup>4</sup> One . . . . .	30.8	34.0	6.3	7.5	11.2	5.7	15.0	7.4	4.7	3.7
Two or more . . . . .	48.6	53.7	8.9	12.3	16.4	11.0	6.6	9.0	10.8	22.2
Outdoor gas grill . . . . .	18.3	20.2	4.6	5.4	5.2	3.2	2.1	3.0	3.6	9.6
Outdoor gas light . . . . .	1.3	1.4	0.1	0.4	0.6	0.1	0.2	0.3	0.2	0.5
Oven: Electric . . . . .	51.2	56.6	9.3	11.5	20.1	10.4	13.9	10.2	10.2	17.0
Gas . . . . .	37.1	40.9	9.4	10.3	9.9	7.4	15.3	6.9	5.9	9.0
Portable electric heater . . . . .	9.0	10.0	1.2	2.1	3.5	2.3	3.8	1.9	1.4	2.0
Portable kerosene heater . . . . .	5.3	5.8	1.0	1.3	2.8	0.2	1.8	1.0	1.1	1.4
Range: Electric . . . . .	51.4	56.8	9.0	11.6	20.4	10.3	14.1	10.3	10.1	16.9
Gas . . . . .	38.7	42.7	9.8	10.7	10.2	8.0	15.9	7.4	6.0	9.4
Refrigerator: Frost-free . . . . .	60.9	67.3	11.0	14.5	22.9	12.5	15.8	11.9	11.8	21.6
Non frost-free . . . . .	29.4	32.5	8.0	7.6	7.9	5.9	14.3	5.9	4.6	4.7
Television set: Color . . . . .	83.9	92.7	17.9	20.7	28.4	17.0	25.7	16.6	15.7	25.9
Black and white . . . . .	32.4	35.8	7.1	8.8	10.8	5.6	11.0	5.7	5.7	10.0
Water heater: <sup>5</sup> Gas . . . . .	42.1	46.5	7.0	13.1	11.7	10.3	13.1	7.5	7.4	14.1
Electric . . . . .	30.5	33.7	4.0	5.6	16.1	4.8	10.0	6.6	5.8	8.2
Other fuel . . . . .	3.6	4.0	2.9	0.1	0.2	0.4	0.5	0.6	0.6	1.8
Whole house cooling fan . . . . .	8.6	9.5	1.5	2.4	3.6	1.1	1.7	1.3	1.6	3.9
Window or ceiling fan . . . . .	41.8	46.2	7.8	10.3	17.9	5.8	12.0	8.3	8.0	13.5

- Represents zero. <sup>1</sup> Includes the .9 million households with both Central air conditioning and window or wall air conditioning units. <sup>2</sup> An air-cooling unit used in dry climates that turns air into moist, cool air by saturating the air with water vapor. <sup>3</sup> Microwave is first or second most used oven. <sup>4</sup> All motorized vehicles used by U.S. households for personal transportation excluding motorcycles, mopeds, large trucks, and buses. <sup>5</sup> Includes refrigerators without freezer compartments. <sup>6</sup> Excludes water heaters that serve more than one household.

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey, 1987*.

### No. 1290. Occupied Housing Units—Housing Indicators, by Selected Characteristics of the Householder and Tenure: 1987

[In thousands of units. Based on the American Housing Survey; see Appendix III]

CHARACTERISTIC	Total occupied units	TENURE		BLACK		HISPANIC ORIGIN <sup>1</sup>		ELDERLY <sup>2</sup>		HOUSEHOLDS BELOW POVERTY LEVEL	
		Owner	Renter	Owner	Renter	Owner	Renter	Owner	Renter	Owner	Renter
<b>Total units</b> . . . . .	<b>90,888</b>	<b>58,164</b>	<b>32,724</b>	<b>4,458</b>	<b>5,794</b>	<b>2,259</b>	<b>3,328</b>	<b>14,790</b>	<b>4,954</b>	<b>4,608</b>	<b>7,361</b>
<b>Amenities:</b>											
Porch, deck, balcony or patio . . . . .	68,160	48,325	19,834	3,420	3,253	1,718	1,648	12,035	2,563	3,487	4,070
Usable fireplace . . . . .	27,024	23,121	3,903	983	406	654	266	4,430	275	771	397
Separate dining room . . . . .	35,416	27,515	7,901	2,111	1,331	941	660	6,502	996	1,591	1,462
With 2 or more living rooms or recreation rooms . . . . .	27,849	24,937	2,913	1,547	321	683	154	4,893	378	987	409
Garage or carport with home . . . . .	51,293	41,747	9,546	2,328	894	1,542	936	10,696	1,102	2,359	1,227
<b>Cars available:</b>											
None . . . . .	13,735	5,003	8,732	698	2,482	244	1,166	2,663	2,544	1,333	3,773
1 car . . . . .	42,902	26,373	16,528	2,030	2,515	966	1,474	8,596	2,135	2,490	2,995
2 cars . . . . .	26,423	20,102	6,321	1,280	690	822	582	3,054	238	667	523
3 or more cars . . . . .	7,828	6,686	1,142	449	107	228	105	477	35	118	70
<b>Trucks or vans available:</b>											
None . . . . .	63,509	36,671	26,839	3,401	5,373	1,328	2,796	11,620	4,707	3,321	6,623
1 . . . . .	23,285	18,033	5,252	937	394	796	483	2,809	210	1,103	667
2 or more . . . . .	4,093	3,461	632	119	27	134	48	361	37	185	72
<b>Internal deficiencies:</b>											
Holes in floors . . . . .	1,223	441	782	120	299	29	159	81	78	146	370
Open cracks or holes . . . . .	5,189	2,037	3,152	343	941	161	442	520	296	421	1,118
Broken plaster or peeling paint (interior of unit) . . . . .	4,227	1,749	2,478	280	777	143	348	425	296	367	853
No electrical wiring . . . . .	20	13	7		2			3		6	5
Exposed wiring . . . . .	1,875	882	993	138	266	55	138	313	140	149	324
Rooms without outlet . . . . .	2,229	1,089	1,139	170	318	51	140	404	168	224	404
Water leakage . . . . .	26,950	16,648	10,302	1,493	2,150	560	1,029	3,410	1,146	1,546	2,682

- Represents zero. <sup>1</sup> Persons of Hispanic origin may be of any race. <sup>2</sup> Householders 65 years old and over. <sup>3</sup> During the 12 months prior to the survey.

### No. 1291. Owner Occupied Housing Units—Home Improvements and Repairs, by Selected Characteristics of the Householder: 1987

[Covers only units performing repairs, improvements, or alterations in the 2 years prior to the survey. Based on the American Housing Survey; see Appendix III]

CHARACTERISTIC	NUMBER (1,000)					PERCENT OF TOTAL OWNER OCCUPIED UNITS				
	Total owner occupied units	Household characteristics				Total owner occupied units	Household characteristics			
		Black	Hispanic <sup>1</sup>	Elderly <sup>2</sup>	Below poverty level <sup>3</sup>		Black	Hispanic <sup>1</sup>	Elderly <sup>2</sup>	Below poverty level <sup>3</sup>
<b>Total units</b> . . . . .	<b>58,164</b>	<b>4,458</b>	<b>2,259</b>	<b>14,790</b>	<b>4,608</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Roof replaced . . . . .	9,021	800	365	2,650	783	15.5	17.9	16.2	17.9	17.0
Work mostly done by others . . . . .	6,469	587	216	2,183	565	11.1	13.2	9.6	14.8	12.3
Costing more than \$500 . . . . .	5,833	446	227	1,733	395	10.0	10.0	10.0	11.7	8.6
Additions built . . . . .	3,043	193	124	362	175	5.2	4.3	5.5	2.4	3.8
Work mostly done by others . . . . .	1,397	103	75	238	78	2.4	2.3	3.3	1.6	1.7
Costing more than \$500 . . . . .	2,332	136	101	280	104	4.0	3.1	4.5	1.9	2.3
Kitchen remodeled or added . . . . .	4,532	333	200	578	242	7.8	7.5	8.9	3.9	5.3
Work mostly done by others . . . . .	2,022	219	93	411	114	3.5	4.9	4.1	2.8	2.5
Costing more than \$500 . . . . .	2,957	173	129	372	95	5.1	3.9	5.7	2.5	2.1
Bathroom remodeled or added . . . . .	5,346	374	248	687	298	9.2	8.4	11.0	4.6	6.5
Work mostly done by others . . . . .	2,088	231	103	455	142	3.6	5.2	4.6	3.1	3.1
Costing more than \$500 . . . . .	2,733	162	116	299	91	4.7	3.6	5.1	2.0	2.0
Siding replaced or added . . . . .	3,222	198	95	630	175	5.5	4.4	4.2	4.3	3.8
Work mostly done by others . . . . .	1,945	144	64	490	110	3.3	3.2	2.8	3.3	2.4
Costing more than \$500 . . . . .	1,850	108	55	407	75	3.2	2.4	2.4	2.8	1.6
Storm doors/windows installed . . . . .	8,368	731	222	1,368	484	14.4	16.4	9.8	9.8	10.5
Work mostly done by others . . . . .	4,316	474	102	995	283	7.4	10.6	4.5	6.7	6.1
Costing more than \$500 . . . . .	3,001	263	98	525	116	5.2	5.9	4.3	3.5	2.5
Major equipment replaced or added . . . . .	5,468	307	188	1,127	275	9.4	6.9	8.3	7.6	6.0
Work mostly done by others . . . . .	4,164	251	125	946	211	7.2	5.6	5.5	6.4	4.8
Costing more than \$500 . . . . .	4,065	228	127	863	162	7.0	5.1	5.6	5.8	3.5
Insulation added . . . . .	5,135	307	203	708	308	8.8	6.9	9.0	4.8	6.7
Work mostly done by others . . . . .	2,199	175	139	481	175	3.8	3.9	6.2	3.3	3.8
Costing more than \$500 . . . . .	1,110	61	52	158	48	1.9	1.4	2.3	1.1	1.0

<sup>1</sup> Persons of Hispanic origin may be of any race. <sup>2</sup> Householders 65 years old and over. <sup>3</sup> Household poverty derived by applying to households the Social Security Administration's poverty index for persons.

Source of tables 1290 and 1291: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-87, American Housing Survey.

**No. 1292. Expenditures by Residential Property Owners for Improvements and Maintenance and Repairs, by Type of Property and Activity: 1970 to 1989**

(In millions of dollars)

YEAR AND TYPE OF EXPENDITURE	Total	1-unit properties with owner occu- pant	Other prop- er- ties	ADDITIONS AND ALTERATIONS				Major replaces- ments	Mainte- nance and repairs
				Total	To structures		To property outside of struc- tures		
					Addi- tions	Alter- ations			
1970.	14,770	9,469	5,301	6,246	1,411	3,539	1,296	2,629	5,895
1975.	25,239	15,684	9,556	10,997	1,971	6,844	2,182	4,484	9,758
1976.	29,034	18,854	10,180	12,314	3,493	6,367	2,454	5,341	11,379
1977.	31,280	21,761	9,519	14,237	2,655	8,505	3,077	5,689	11,344
1978.	37,461	24,189	13,272	16,458	3,713	8,443	4,302	8,094	12,909
1979.	42,231	28,280	13,951	18,285	3,280	9,642	5,363	8,996	14,950
1980.	46,338	31,481	14,857	21,336	4,183	11,193	5,960	9,816	15,187
1981.	46,351	30,201	16,150	20,414	3,164	11,947	5,303	9,915	16,022
1982.	45,291	29,779	15,512	18,774	2,641	10,711	5,423	9,707	16,810
1983.	49,295	32,524	16,771	20,271	4,739	11,673	3,859	10,895	18,128
1984.	69,784	43,781	26,003	27,822	6,007	14,486	7,329	13,067	28,894
1985.	80,267	47,742	32,525	28,775	3,966	17,599	7,211	16,134	35,358
1986.	91,274	54,298	36,976	38,608	7,377	21,192	10,040	16,695	35,971
1987, total <sup>1</sup>	94,082	54,791	39,291	39,978	9,557	21,641	8,779	15,875	38,229
Heating and air-conditioning <sup>2</sup>	6,410	3,932	2,478	1,534	(NA)	1,534	(NA)	2,537	2,340
Plumbing	8,510	3,830	4,680	1,856	(NA)	1,856	(NA)	3,220	3,434
Roofing	6,020	2,487	3,533	(NA)	(NA)	(NA)	(NA)	3,457	2,563
Painting	11,504	5,704	5,800	(NA)	(NA)	(NA)	(NA)	(NA)	11,504
1988, total <sup>1</sup>	101,117	60,822	40,295	43,339	11,333	22,703	9,303	16,893	40,885
Heating and air-conditioning <sup>2</sup>	7,460	4,838	2,622	1,357	(NA)	1,357	(NA)	3,352	2,751
Plumbing	8,610	4,414	4,196	1,619	(NA)	1,619	(NA)	2,968	4,024
Roofing	6,665	3,317	3,348	(NA)	(NA)	(NA)	(NA)	4,799	1,866
Painting	12,467	6,159	6,308	(NA)	(NA)	(NA)	(NA)	(NA)	12,467
1989, total <sup>1</sup>	100,891	59,858	41,033	39,786	6,828	23,129	9,828	18,415	42,689
Heating and air-conditioning <sup>2</sup>	5,841	3,589	2,252	1,484	(NA)	1,484	(NA)	2,167	2,191
Plumbing	9,875	5,258	4,617	1,607	(NA)	1,607	(NA)	3,314	4,954
Roofing	10,075	6,266	3,809	(NA)	(NA)	(NA)	(NA)	6,299	3,777
Painting	11,319	5,192	6,127	(NA)	(NA)	(NA)	(NA)	(NA)	11,319

 NA Not available. <sup>1</sup> Includes types of expenditures not separately specified. <sup>2</sup> Central air-conditioning.

 Source: U.S. Bureau of the Census, *Current Construction Reports*, series C50.

**No. 1293. Vacancy Rates for Housing Units—Characteristics: 1985 to 1990**

 (In percent. Annual averages. Based on Current Population Survey and Quarterly Household Survey. Rate is relationship between vacant housing for rent or for sale and the total rental and homeowner supply, which comprises occupied units, units rented or sold and awaiting occupancy, and vacant units available for rent or sale. For composition of regions, see fig. 1, inside front cover. See also *Historical Statistics, Colonial Times to 1970*, series N 249-258)

RENTAL UNITS	1985	1987	1988	1989	1990, 4th qtr.	HOMEOWNER UNITS	1985	1987	1988	1989	1990, 4th qtr.
Total rental units	6.5	7.7	7.7	7.1	7.2	Total home-owner units	1.7	1.7	1.6	1.6	1.7
Inside MSAs	6.3	7.7	7.8	7.2	7.1	Inside MSAs	1.7	1.6	1.6	1.6	1.7
Outside MSAs	7.1	7.8	7.3	6.6	7.7	Outside MSAs	1.9	1.9	1.6	1.6	1.6
Northeast	3.5	4.1	4.8	4.7	6.2	Northeast	1.0	1.2	1.6	1.5	1.5
Midwest	5.9	6.8	6.9	6.6	6.6	Midwest	1.6	1.4	1.2	1.3	1.4
South	9.1	10.9	10.1	9.1	8.9	South	2.1	2.0	1.9	2.0	2
West	6.2	7.3	7.7	6.9	6.4	West	2.1	1.8	1.6	1.4	1.8
Units in structure:						Units in structure:					
1 unit	3.8	4.0	3.6	3.5	(NA)	1 unit	1.4	1.4	1.3	1.3	(NA)
2 units or more	7.9	9.7	9.8	9.0	(NA)	2 units or more	6.6	5.8	6.1	6.7	(NA)
5 units or more	8.8	11.2	11.4	10.3	(NA)	5 units or more	10.1	8.6	9.7	9.8	(NA)
Units with—						Units with—					
3 rooms or less	8.8	10.7	10.6	9.9	(NA)	3 rooms or less	5.8	5.5	5.6	9.0	(NA)
4 rooms	6.9	8.6	8.7	7.9	(NA)	4 rooms	2.3	2.5	2.6	2.5	(NA)
5 rooms	5.0	5.4	5.3	5.3	(NA)	5 rooms	2.0	1.7	1.6	1.9	(NA)
6 rooms or more	3.2	3.3	3.3	3.3	(NA)	6 rooms or more	1.4	1.3	1.2	1.1	(NA)
Year built:						Year built:					
1960 or later	7.9	11.2	9.9	7.1	(NA)	1960 or later	2.0	1.8	1.8	1.6	(NA)
1940-1959	6.2	7.7	7.6	6.7	(NA)	1940-1959	1.2	1.1	1.2	1.3	(NA)
1939 or earlier	5.0	5.1	5.1	7.5	(NA)	1939 or earlier	1.8	1.7	1.6	2.0	(NA)

NA Not available.

 Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-111.

**No. 1294. Recent Home Buyers—General Characteristics: 1976 to 1989**

(As of October. Based on a sample survey; subject to sampling variability)

ITEM	Unit	1976	1980	1983	1984	1985	1986	1987	1988	1989
Median purchase price	Dollars	43,340	68,714	90,000	89,400	90,400	93,680	99,260	121,910	129,800
First-time buyers	Dollars	37,670	61,450	73,100	81,500	75,100	74,700	84,730	97,100	105,200
Repeat buyers	Dollars	50,090	75,750	101,800	100,400	106,200	114,860	115,430	141,400	144,700
Average monthly mortgage payment	Dollars	329	599	794	868	896	852	939	1,008	1,054
Percent of income	Percent	24.0	32.4	32.5	30.3	30.0	28.6	29.3	32.8	31.8
Percent buying—										
New houses	Percent	15.1	22.4	26.4	22.3	23.8	25.7	23.8	26.2	21.8
Existing houses	Percent	84.9	77.6	73.6	77.7	76.2	74.3	76.2	73.8	78.2
Single-family houses	Percent	88.8	82.4	87.8	89.9	87.0	85.1	87.3	83.3	84.8
Condominiums <sup>2</sup>	Percent	11.2	17.6	12.2	10.1	10.6	14.2	12.5	12.4	13.5
For the first time	Percent	44.8	32.9	40.5	37.7	36.6	35.5	36.8	37.8	40.2
Average age:										
First-time buyers	Years	28.1	28.3	28.9	29.1	28.4	30.9	29.6	30.3	29.6
Repeat buyers	Years	35.9	36.4	37.3	37.8	38.4	39.5	39.1	38.9	39.4
Downpayment/sales price	Percent	25.2	28.0	22.9	20.9	24.8	23.4	27.2	24.0	24.4
First-time buyers	Percent	18.0	20.5	15.7	13.2	11.4	13.4	20.4	14.6	15.8
Repeat buyers <sup>1</sup>	Percent	30.8	32.7	27.8	25.6	32.7	28.9	31.3	29.7	30.3

<sup>1</sup> Buyers who previously owned a home. <sup>2</sup> Includes multiple-family houses.Source: Chicago Title Insurance Company, Chicago, IL, *The Guarantor*, bimonthly. (Copyright.)**No. 1295. Low-Income Public Housing Units, by Progress Stage: 1960 to 1988**[In thousands. As of Dec. 31. Housing for the elderly intended for persons 62 years old or over, disabled, or handicapped. Includes Puerto Rico and Virgin Islands. Covers units subsidized by HUD under annual contributions contracts. See also *Historical Statistics, Colonial Times to 1970*, series N 186-191]

YEAR	Total <sup>1</sup>	Occupied units <sup>2</sup>	Under construction	YEAR	Total <sup>1</sup>	Occupied units <sup>2</sup>	Under construction
1960.....	593.3	478.2	36.4	1985.....	1,378.0	1,344.6	9.6
Elderly.....	18.9	1.1	4.1	Elderly.....	373.5	361.1	2.1
1970.....	1,155.3	893.5	126.8	1987.....	1,443.0	1,406.4	9.7
Elderly.....	249.4	143.4	65.7	Elderly.....	378.6	374.2	1.3
1980.....	1,321.1	1,195.6	20.9	1988.....	1,448.8	1,413.3	9.7
Elderly.....	358.3	317.7	11.5	Elderly.....	382.5	374.7	1.4

<sup>1</sup> Includes units to be constructed or to go directly "under management" because no rehabilitation needed, not shown separately. <sup>2</sup> Under management or available for occupancy.

Source: U.S. Dept. of Housing and Urban Development, unpublished data.

**No. 1296. Office Buildings—Vacancy Rates for Major Cities, 1980 to 1990, and Status of Supply, 1990**

[As of December; except 1990, as of June. Excludes government owned and occupied, owner-occupied, and medical office buildings]

CITY	VACANCY RATE FOR EXISTING SPACE (percent)									SUPPLY STATUS, 1990 (mil. sq. ft.)			
	1980	1983	1984	1985	1986	1987	1988	1989	1990	Existing space		Space under construction	
										Total	Available for lease	Total	Available for lease
<b>Total</b> <sup>1</sup> .....	4.6	13.5	15.5	16.9	18.6	19.0	18.6	19.5	19.3	2,149.2	413.9	105.0	73.5
Atlanta, GA.....	10.0	13.7	14.5	21.0	20.1	19.6	18.3	19.9	19.7	79.3	15.7	7.8	4.4
Baltimore, MD.....	7.2	6.4	11.9	11.5	15.9	15.8	13.4	16.4	19.0	27.1	5.2	1.3	0.9
Boston, MA.....	3.8	4.4	8.9	13.1	13.0	12.6	14.1	15.3	17.0	124.6	21.2	7.3	4.8
Charlotte, NC.....	(NA)	(NA)	16.7	16.7	15.5	15.1	16.5	14.3	15.4	16.4	2.5	2.2	1.5
Chicago, IL.....	7.0	12.6	14.8	16.5	19.6	17.0	15.9	17.0	18.1	185.3	33.5	10.9	7.9
Dallas, TX.....	8.6	21.5	18.7	23.0	30.9	29.1	29.7	26.9	25.7	114.7	29.5	3.4	-
Denver, CO.....	6.6	24.1	20.6	24.7	25.1	27.9	27.6	26.1	24.6	65.1	16.0	0.4	0.2
Houston, TX.....	4.0	26.9	25.0	27.6	30.6	31.8	29.2	27.5	25.8	140.0	36.8	(Z)	(Z)
Jacksonville, FL.....	(NA)	(NA)	(NA)	(NA)	17.2	14.7	14.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Kansas City, MO.....	4.2	15.7	18.6	16.2	18.2	18.2	19.9	15.8	15.0	30.5	6.4	2.0	1.1
Los Angeles, CA.....	0.9	14.0	20.4	15.3	13.2	19.0	15.8	19.7	15.4	176.7	47.8	17.1	6.0
Milwaukee, WI.....	(NA)	(NA)	(NA)	(NA)	(NA)	16.8	19.3	20.4	22.9	19.2	4.4	0.1	0.1
New Orleans, LA.....	(NA)	19.0	22.4	21.8	25.5	24.3	25.6	25.7	27.5	22.8	6.2	0.5	0.3
New York, NY <sup>2</sup> .....	3.1	5.0	6.8	7.9	8.9	9.7	11.5	15.1	16.3	236.0	41.2	9.9	6.9
Philadelphia, PA.....	6.3	9.6	9.0	14.5	15.5	16.5	15.8	16.3	15.9	61.6	19.6	10.4	10.2
Pittsburgh, PA.....	1.2	7.8	14.2	(NA)	12.0	12.3	17.6	16.3	17.6	38.5	8.5	2.3	2.3
San Diego, CA.....	(NA)	22.9	21.8	24.7	25.4	22.8	20.1	17.6	23.5	29.4	10.3	4.5	3.7
San Francisco, CA.....	0.4	11.3	9.0	13.7	16.6	15.0	15.5	15.7	14.3	54.4	10.0	1.6	1.2
Seattle, WA.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	13.2	12.4	11.5	27.8	3.2	1.8	0.8
St. Louis, MO.....	(NA)	(NA)	(NA)	(NA)	(NA)	15.6	18.4	22.6	21.5	29.0	7.5	1.1	1.1
Washington, DC.....	2.5	7.2	9.6	9.0	13.6	13.4	13.2	14.4	15.7	148.3	37.6	19.9	16.5

- Represents zero. NA Not available. Z Less than 50,000 square feet. <sup>1</sup> Includes other cities not shown separately. In 1990, 49 cities were covered. <sup>2</sup> Refers to Manhattan.Source: The Office Network, Houston, TX, 1980-1985, *National Office Market Report*, semi-annual; thereafter, *International Office Market Report*, semi-annual. (Copyright.)



### No. 1297. Commercial Office Space—Inventory and Vacancy Rates for the 50 Largest Metropolitan Areas: 1989

[As of December 31, Central business district is the area located near the historical urban core, commonly associated with the traditional government and financial districts in most cities; outside the central business districts is comprised of the suburban area and "urban clusters" with areas of high office space concentrations. Class A space is in "excellent" locations, with high quality finish, well maintained, and professionally managed; Class B space is in "good" locations, professionally managed, with fairly high quality construction and tenancy. Data based on responses from individuals knowledgeable in the local markets]

METROPOLITAN AREAS RANKED BY POPULATION-SIZE, 1989 <sup>1</sup>	INVENTORY (1,000 square feet)				VACANCY RATE <sup>2</sup> (percent)			
	Inside central business district		Outside central business district		Inside central business district		Outside central business district	
	Class A	Class B	Class A	Class B	Class A	Class B	Class A	Class B
Los Angeles-Long Beach, CA PMSA	13,555.9	7,257.9	15,449.3	12,192.0	10.3	19.4	21.3	16.2
New York, NY PMSA	263,440.0	99,240.0	6,800.0	12,000.0	13.2	17.1	32.0	18.9
Chicago, IL PMSA	45,583.0	44,104.0	29,623.0	22,277.0	11.1	14.6	21.0	20.7
Philadelphia, PA-NJ PMSA	23,542.1	7,482.7	54,287.3	13,000.0	11.9	11.6	18.3	23.1
Detroit, MI PMSA	9,298.8	2,402.2	22,982.4	25,954.3	8.3	24.2	21.8	17.3
Boston, MA DECMA	27,200.0	10,300.0	40,900.0	(NA)	8.8	13.6	19.1	(NA)
Washington, DC-MD-VA MSA	378,705.0	(NA)	336,120.0	(NA)	9.5	(NA)	16.2	(NA)
Houston, TX PMSA	25,043.9	10,400.0	33,133.9	62,795.5	12.4	21.1	15.6	26.8
Atlanta, GA MSA	<sup>3</sup> 18,161.4	<sup>3</sup> (NA)	<sup>3</sup> 56,390.4	<sup>3</sup> (NA)	<sup>3</sup> 15.6	<sup>3</sup> (NA)	<sup>3</sup> 17.5	<sup>3</sup> (NA)
Nassau-Suffolk, NY PMSA	(NA)	(NA)	21,449.6	8,124.4	(NA)	(NA)	36.5	13.9
Dallas, TX PMSA	15,800.0	14,000.0	87,000.0	(NA)	19.0	31.4	27.6	(NA)
St. Louis, MO-IL MSA	8,864.2	6,600.0	(NA)	(NA)	18.2	24.2	(NA)	(NA)
Minneapolis-St. Paul, MN-WI MSA	11,120.3	6,801.9	18,031.1	(NA)	13.2	19.7	34.7	(NA)
San Diego, CA MSA	4,665.0	2,629.8	19,355.8	8,077.4	7.3	26.9	26.0	14.4
Baltimore, MD MSA	6,532.4	6,833.5	10,914.4	4,745.3	14.5	19.2	21.0	15.3
Riverside-San Bernardino, CA PMSA	485.3	726.0	1,797.0	3,792.1	32.5	23.7	22.9	23.3
Anaheim-Santa Ana, CA PMSA	<sup>4</sup> 47,856.0	(NA)	(NA)	(NA)	<sup>4</sup> 21.5	(NA)	(NA)	(NA)
Pittsburgh, PA PMSA	13,783.9	6,626.2	5,950.9	4,823.0	15.3	23.8	15.8	17.3
Phoenix, AZ MSA	<sup>3</sup> 21,520.7	<sup>3</sup> (NA)	<sup>3</sup> 43,472.4	<sup>3</sup> (NA)	<sup>3</sup> 22.2	<sup>3</sup> (NA)	<sup>3</sup> 27.5	<sup>3</sup> (NA)
Oakland, CA PMSA	6,113.7	3,084.0	1,402.2	2,357.7	7.2	13.7	23.9	16.8
Tampa-St. Petersburg-Clearwater, FL MSA	3,903.6	869.7	9,361.4	3,850.3	12.3	48.1	24.8	22.6
Newark, NJ PMSA	<sup>3</sup> (NA)	<sup>3</sup> (NA)	<sup>4</sup> 85,459.5	<sup>3</sup> (NA)	<sup>4</sup> 16.1	<sup>3</sup> (NA)	<sup>3</sup> (NA)	<sup>3</sup> (NA)
Seattle, WA PMSA	21,191.1	2,853.1	7,873.6	6,735.4	14.4	20.8	16.0	14.3
Cleveland, OH PMSA	7,593.0	8,551.0	12,057.0	2,010.0	4.8	12.0	18.4	12.3
Miami-Hialeah, FL PMSA	6,700.0	4,700.0	4,400.0	12,100.0	17.9	29.8	36.4	15.7
Denver, CO PMSA	12,100.0	9,000.0	5,800.0	26,400.0	22.3	30.0	12.1	26.5
San Francisco, CA PMSA	31,108.2	4,192.6	8,047.3	5,606.9	13.0	29.4	11.4	11.3
Kansas City, MO-KS MSA	5,000.0	5,000.0	15,350.0	3,150.0	13.5	18.0	14.0	14.0
Cincinnati, OH-KY-IN PMSA	6,085.0	3,200.0	5,210.8	3,840.1	3.6	41.1	11.3	16.5
Milwaukee, WI PMSA	7,000.0	9,000.0	5,000.0	3,000.0	11.4	14.4	12.0	16.7
Sacramento, CA MSA	2,600.0	4,517.0	9,800.0	11,950.0	21.2	8.0	14.9	24.8
Norfolk-Virginia Beach-Newport News, VA MSA	<sup>3</sup> 3,261.2	<sup>3</sup> (NA)	<sup>3</sup> 3,200.0	<sup>3</sup> (NA)	<sup>3</sup> 19.9	<sup>3</sup> (NA)	<sup>3</sup> 25.0	<sup>3</sup> (NA)
Columbus, OH MSA	4,400.0	3,400.0	5,950.0	4,800.0	17.1	11.8	20.0	11.5
San Antonio, TX MSA	2,657.2	2,650.0	6,030.0	9,330.0	18.7	28.3	28.1	32.7
New Orleans, LA MSA	8,875.0	5,921.4	2,176.3	4,691.5	18.4	34.4	23.2	24.9
Indianapolis, IN MSA	5,622.4	2,239.0	<sup>3</sup> 12,570.1	<sup>3</sup> (NA)	19.8	17.5	<sup>3</sup> 22.5	<sup>3</sup> (NA)
Portland, OR PMSA	7,250.0	2,474.0	3,363.0	3,544.0	11.1	18.2	16.0	15.3
Fort Lauderdale-Hollywood-Pompano Beach, FL PMSA	2,625.0	250.0	6,500.0	3,600.0	19.8	40.0	20.0	41.7
Charlotte-Gastonia-Rock Hill, NC-SC MSA	4,606.6	3,055.3	6,279.3	3,458.9	9.1	11.7	17.1	32.0
Salt Lake City-Ogden, UT MSA	6,000.0	6,000.0	7,000.0	6,000.0	10.0	20.0	2.9	25.0
Memphis, TN-AR-MS MSA	1,947.9	3,438.0	8,233.0	2,619.0	13.8	33.6	15.6	20.0
Nashville, TN MSA	2,815.3	3,509.4	5,845.1	8,774.9	21.7	34.0	23.9	26.8
Orlando, FL MSA	<sup>3</sup> 6,290.1	<sup>3</sup> (NA)	<sup>3</sup> 17,713.0	<sup>3</sup> (NA)	<sup>3</sup> 25.4	<sup>3</sup> (NA)	<sup>3</sup> 18.6	<sup>3</sup> (NA)
Oklahoma City, OK MSA	3,393.0	2,457.0	4,870.0	3,870.0	33.9	46.0	16.4	21.9
Buffalo, NY PMSA	2,542.4	1,883.9	874.6	1,118.8	4.2	19.8	23.4	15.5
Dayton-Springfield, OH MSA	1,602.0	1,367.1	1,883.8	1,997.0	28.5	33.3	29.2	26.3
Greensboro-Winston-Salem-High Point, NC MSA	881.0	567.0	1,861.0	1,452.0	8.3	46.4	23.2	11.7
Birmingham, AL MSA	2,435.6	1,783.1	3,583.9	3,570.5	12.1	31.1	27.4	19.4
Jacksonville, FL MSA	5,680.0	2,262.2	3,616.0	1,362.4	19.7	30.2	9.0	35.6
Albany-Schenectady-Troy, NY MSA	2,652.8	1,292.5	3,158.2	1,818.3	8.4	3.4	6.4	7.0

NA Not available. <sup>1</sup> List excludes San Jose, CA MSA; Fort Worth-Arlington, TX PMSA; Bergen-Passaic, NJ PMSA; Rochester, NY MSA; Middlesex-Somerset-Hunterdon, NJ PMSA; Monmouth-Ocean, NJ PMSA; and Louisville, KY-IN MSA. <sup>2</sup> Represents the total vacant space divided by the total inventory of space in that area. <sup>3</sup> Class A includes Class B; data not available separately. <sup>4</sup> Data are for entire metropolitan area. <sup>5</sup> Data are for area identified by source as New Jersey-Central with a market area of Mercer, Middlesex, Monmouth, Morris, Somerset, and Union counties.

Source: Society of Industrial and Office REALTORS® of the NATIONAL ASSOCIATION OF REALTORS®, Washington, DC, 1990 Guide to Industrial and Office Real Estate Markets. (Copyright.)

### No. 1298. Commercial Buildings—Selected Characteristics, by Square Footage of Floorspace: 1986

[Excludes buildings 1,000 square feet or smaller. Building type based on predominant activity in which the occupants were engaged. Based on a sample survey of building representatives conducted between January and April 1986; therefore, subject to sampling variability. For composition of regions, see fig. 1, inside front cover]

CHARACTERISTIC	Number of buildings (1,000)	FLOORSPACE (mil. sq. ft.)							Mean sq. ft. per building (1,000)	Median sq. ft. per building (1,000)
		Total	Within all buildings having square footage of—							
			5,000 or less	5,001 to 10,000	10,001 to 25,000	25,001 to 50,000	50,001 to 100,000	100,001 and over		
All buildings .....	4,154	58,229	6,209	6,861	9,119	8,661	8,559	18,821	14.0	5.0
Region:										
Northeast .....	663	11,830	855	1,358	1,443	1,922	1,525	4,728	17.8	6.0
Midwest .....	1,096	16,034	1,565	2,033	2,431	1,959	2,333	5,714	14.6	5.0
South .....	1,570	19,427	2,528	2,314	3,291	2,938	3,208	5,146	12.4	4.6
West .....	825	10,937	1,261	1,156	1,955	1,842	1,491	3,233	13.3	4.8
Year constructed:										
1900 or before .....	188	2,368	254	490	301	433	(S)	(S)	12.6	6.0
1901 to 1920 .....	255	3,665	361	489	539	616	469	(S)	14.4	5.0
1921 to 1945 .....	629	8,594	922	948	1,753	1,312	1,078	2,581	13.7	5.0
1946 to 1960 .....	878	9,712	1,408	1,335	1,694	1,459	1,529	2,287	11.1	4.6
1961 to 1970 .....	730	11,469	1,027	1,160	1,639	1,850	1,813	3,980	15.7	5.0
1971 to 1973 .....	243	4,307	332	466	463	528	535	1,982	17.7	5.4
1974 to 1979 .....	572	8,230	852	978	1,142	1,155	1,492	2,612	14.4	4.8
1980 to 1983 .....	350	5,205	611	487	803	503	730	2,071	14.9	4.8
1984 to 1986 .....	309	4,678	442	509	785	804	611	1,526	15.1	5.0
Principal activity within building:										
Assembly .....	575	7,339	798	1,020	1,750	1,181	1,040	(S)	12.8	5.6
Education .....	241	7,321	200	375	749	1,424	1,454	(S)	30.3	10.0
Food sales/service .....	303	1,993	566	(S)	(S)	(S)	(S)	(S)	6.6	3.5
Health care .....	52	2,107	63	(S)	(S)	197	(S)	1,563	40.5	5.0
Lodging .....	137	2,785	138	208	508	546	606	(S)	20.4	8.0
Mercantile/services .....	1,287	12,805	2,062	2,260	2,284	1,622	1,700	2,878	9.9	4.5
Office .....	614	9,546	1,003	989	1,284	1,227	1,047	3,996	15.5	4.7
Public order and safety .....	55	680	78	(S)	218	(S)	(S)	(S)	12.4	5.4
Warehouse .....	549	8,996	774	920	1,143	1,574	1,446	(S)	16.4	5.1
Other .....	103	1,726	162	(S)	279	(S)	352	(S)	18.8	4.9
Vacant .....	238	2,931	365	355	458	531	503	(S)	12.3	4.8
Government owned .....	493	12,187	565	752	1,458	2,053	2,068	5,290	24.7	7.0
Non-government owned .....	3,661	46,041	5,644	6,109	7,661	6,607	6,490	13,529	12.6	4.8
Fuels used alone or in combination:										
Electricity .....	4,013	57,036	5,970	6,674	8,901	8,553	8,241	18,697	14.2	5.0
Natural gas .....	2,278	38,140	3,108	4,132	5,779	5,388	5,279	14,454	16.7	5.6
Fuel oil .....	542	11,163	711	1,038	1,138	1,462	1,431	5,383	20.6	6.0
Propane .....	351	3,362	614	473	586	555	597	(S)	9.6	4.0
Steam or hot water .....	78	4,645	66	(S)	316	436	747	3,043	59.5	19.0
Chilled water .....	15	1,191	(S)	(S)	(S)	(S)	(S)	888	79.7	19.5
Minor fuels .....	163	1,557	227	245	251	(S)	(S)	(S)	9.6	3.2
No energy sources used .....	136	1,171	229	174	(S)	(S)	(S)	(S)	8.6	3.2
Workers:										
Fewer than 5 .....	2,033	13,129	3,658	2,835	2,545	1,514	1,256	(S)	6.5	3.2
5 to 9 .....	842	6,576	1,466	1,491	1,321	989	689	(S)	7.8	4.5
10 to 19 .....	587	7,895	777	1,287	2,051	1,531	1,233	(S)	13.4	6.9
20 to 49 .....	434	8,847	253	1,049	2,150	2,423	1,336	(S)	20.4	11.3
50 to 99 .....	152	6,510	(S)	169	836	1,547	1,636	(S)	42.9	25.5
100 to 249 .....	73	6,445	(S)	(S)	213	565	1,929	(S)	87.9	63.0
250 or more .....	33	8,828	(S)	(S)	(S)	(S)	478	8,252	264.5	160.0
Weekly operating hours:										
39 or less .....	870	9,286	1,448	1,333	1,542	1,459	1,279	(S)	10.7	4.3
40 to 48 .....	1,086	15,167	1,623	1,656	2,671	2,624	2,215	4,377	14.0	5.0
49 to 60 .....	919	10,805	1,302	1,770	2,121	1,468	1,360	2,783	11.8	5.0
61 to 84 .....	556	9,760	777	950	1,245	1,510	1,477	3,800	17.5	5.4
85 to 167 .....	375	5,514	582	685	597	634	1,108	(S)	14.7	4.9
168 (open continuously) .....	347	7,696	476	466	943	967	1,119	3,726	22.2	5.5

S Figure does not meet publication standards. <sup>1</sup> Active solar, coal, wood, and biomass.

Source: U.S. Energy Information Administration, *Nonresidential Buildings Energy Consumption Survey: Characteristics of Commercial Buildings, 1986*.

**No. 1299. Commercial Buildings and Workers—Selected Building Characteristics, by Floorspace: 1986**

[See headnote, table 1298]

BUILDING CHARACTERISTICS	NUMBER OF BUILDINGS (1,000)							WORKERS		
	Total	Square footage of—						Number (1,000)	Average sq. ft. per worker	Median sq. ft. per worker
		5,000 or less	5,001 to 10,000	10,001 to 25,000	25,001 to 50,000	50,001 to 100,000	100,001 and over			
<b>All buildings</b>	<b>4,154</b>	<b>2,220</b>	<b>931</b>	<b>557</b>	<b>242</b>	<b>123</b>	<b>81</b>	<b>73,436</b>	<b>792.9</b>	<b>1,000.9</b>
Region:										
Northeast	663	298	183	90	53	21	18	16,183	731.0	1,000.5
Midwest	1,096	559	277	147	56	33	24	17,636	909.2	1,251.9
South	1,570	905	312	200	83	47	22	25,099	774.0	975.8
West	825	458	158	120	51	22	16	14,518	753.4	833.9
Principal activity within building:										
Assembly	575	274	138	106	33	16	(S)	4,303	1,705.7	2,901.9
Education	241	72	50	44	37	21	(S)	6,833	1,071.5	932.5
Food sales/service	303	204	(S)	(S)	(S)	(S)	(S)	5,073	830.8	855.4
Health care	52	27	(S)	(S)	6	(S)	4	5,050	417.3	422.7
Lodging	137	48	29	31	16	9	(S)	2,277	1,223.2	2,001.3
Mercantile/services	1,287	757	309	142	46	23	10	15,870	806.9	900.7
Office	614	343	133	74	35	15	15	25,010	381.7	437.9
Public order and safety	55	26	(S)	13	(S)	(S)	(S)	1,367	497.8	875.3
Warehouse	549	274	123	72	44	21	(S)	5,343	1,683.6	3,001.8
Other	103	58	(S)	18	(S)	5	(S)	1,566	1,102.2	1,601.3
Vacant	238	136	47	30	15	8	(S)	745	3,933.8	(X)
Non-government owned	3,661	2,024	828	471	188	94	56	57,505	800.6	1,000.9
Owner occupied	2,396	1,338	546	301	120	59	32	35,691	811.5	1,000.9
Nonowner occupied	1,265	686	282	170	69	35	23	21,814	793.0	1,033.3
Government owned	493	196	104	86	54	29	25	15,931	765.0	1,000.1

S Figure does not meet publication standards. X Not applicable.

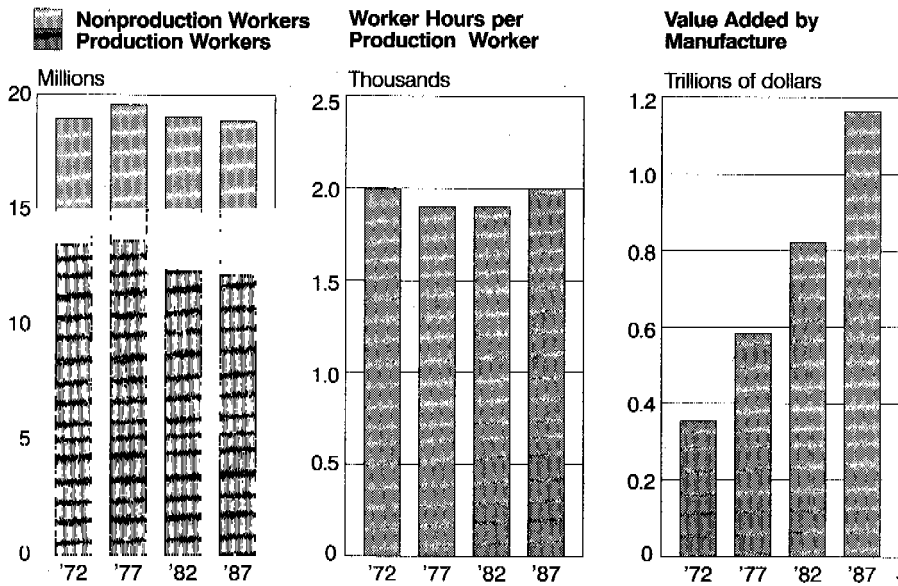
Source: U.S. Energy Information Administration, *Nonresidential Buildings Energy Consumption Survey: Characteristics of Commercial Buildings, 1986*.**No. 1300. Commercial Buildings—Number and Square Footage of Floorspace, by Type of Building and Characteristic: 1986**

[For composition of regions, see fig. 1, inside front cover]

BUILDING CHARACTERISTICS	All buildings	As-sembly	Educa-tion	Food sales/service	Health care	Lodg-ing	Mer-cantile/ser-vices	Offices	Public order and safety	Ware-house	Other <sup>1</sup>
<b>NUMBER (1,000)</b>											
<b>All buildings</b>	<b>4,154</b>	<b>575</b>	<b>241</b>	<b>303</b>	<b>52</b>	<b>137</b>	<b>1,287</b>	<b>614</b>	<b>55</b>	<b>549</b>	<b>341</b>
Region:											
Northeast	663	71	29	(S)	10	22	227	91	13	99	44
Midwest	1,096	156	42	86	9	30	349	153	(S)	154	103
South	1,570	241	80	105	17	53	481	238	18	219	118
West	825	108	90	(S)	17	31	231	131	(S)	77	76
Year constructed:											
1900 or before	188	41	(S)	(S)	(S)	(S)	55	27	(S)	19	(S)
1901 to 1920	255	36	10	(S)	(S)	(S)	86	36	(S)	23	(S)
1921 to 1945	629	94	34	(S)	8	12	193	92	(S)	79	61
1946 to 1960	878	131	68	53	8	32	282	107	(S)	122	65
1961 to 1970	730	103	58	54	14	42	203	104	(S)	92	46
1971 to 1973	243	36	16	(S)	6	(S)	76	40	(S)	29	(S)
1974 to 1979	572	72	21	57	3	14	181	93	(S)	87	(S)
1980 to 1983	350	35	20	(S)	(S)	10	111	64	(S)	53	(S)
1984 to 1986	309	28	12	(S)	(S)	9	101	50	(S)	46	33
Government owned	493	77	161	(S)	8	10	45	55	33	40	52
Non-government owned	3,661	498	80	291	44	127	1,242	559	(S)	509	290
<b>FLOORSPACE (mil. sq. ft.)</b>											
<b>All buildings</b>	<b>58,229</b>	<b>7,339</b>	<b>7,321</b>	<b>1,993</b>	<b>2,107</b>	<b>2,785</b>	<b>12,805</b>	<b>9,546</b>	<b>680</b>	<b>8,996</b>	<b>4,657</b>
Region:											
Northeast	11,830	1,229	1,603	(S)	328	602	2,785	1,782	289	1,905	909
Midwest	16,034	2,004	2,212	664	559	636	3,525	2,535	(S)	2,246	1,475
South	19,427	2,724	2,174	583	806	949	4,487	2,838	147	3,458	1,261
West	10,937	1,382	1,332	(S)	415	597	2,008	2,390	(S)	1,387	1,012
Year constructed:											
1900 or before	2,368	728	(S)	(S)	(S)	(S)	521	343	(S)	318	(S)
1901 to 1920	3,665	600	347	(S)	(S)	(S)	821	688	(S)	301	(S)
1921 to 1945	8,594	1,281	1,228	(S)	316	386	1,507	1,278	(S)	1,304	889
1946 to 1960	9,712	1,332	1,648	296	352	365	2,064	1,003	(S)	1,979	540
1961 to 1970	11,469	1,158	2,045	503	224	803	2,337	1,729	(S)	1,652	821
1971 to 1973	4,307	607	776	(S)	380	(S)	728	672	(S)	614	(S)
1974 to 1979	8,230	903	692	294	319	316	2,306	1,322	(S)	1,484	(S)
1980 to 1983	5,205	376	395	(S)	(S)	190	1,325	1,414	(S)	621	(S)
1984 to 1986	4,678	353	141	(S)	(S)	309	1,196	1,096	(S)	732	391
Government owned	12,187	1,417	5,927	(S)	560	339	682	1,185	533	530	901
Non-government owned	46,041	5,921	1,394	1,880	1,547	2,446	12,123	8,360	(S)	8,466	3,757

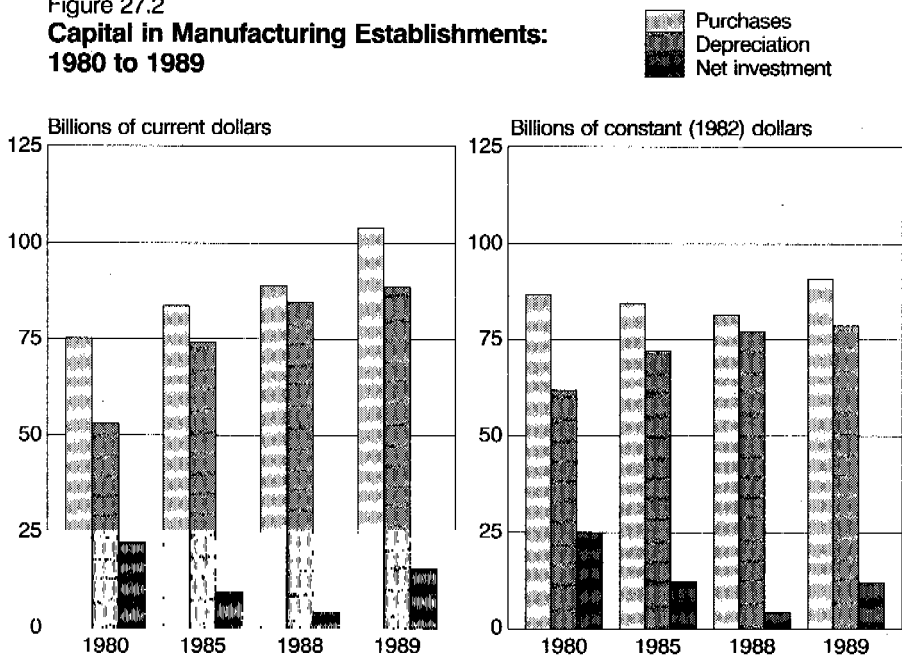
S Figure does not meet publication standards. <sup>1</sup> Includes vacant commercial buildings.Source: U.S. Energy Information Administration, *Nonresidential Buildings Energy Consumption Survey: Characteristics of Commercial Buildings, 1986*.

Figure 27.1  
**Summary of Manufactures: 1972 to 1987**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1302.

Figure 27.2  
**Capital in Manufacturing Establishments: 1980 to 1989**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1307.



## Section 27

# Manufactures

This section presents summary data for manufacturing as a whole and more detailed information for major industry groups and selected specific products. The types of measures shown at the different levels include data for establishments; employment and wages; raw materials, fuels, and electricity consumed; plant and equipment expenditures; value and quantity of production and shipments; value added by manufacture; inventories; and various indicators of financial status.

The principal sources of these data are Bureau of the Census reports of the censuses of manufactures conducted every 5 years; the *Annual Survey of Manufactures*; and the *Current Industrial Reports* series, which presents monthly, quarterly, or annual data on production, shipments, and stocks for particular commodities. Indexes of industrial production are presented monthly in the Federal Reserve Board's *Federal Reserve Bulletin*. Reports on current activities of industries, or current movements of individual commodities, are compiled by such government agencies as the Bureau of Labor Statistics; the Economic Research Service of the Department of Agriculture; the International Trade Administration; and by private research or trade associations such as The Conference Board, Inc., New York, NY and the American Iron and Steel Institute, Washington, DC.

Data on financial aspects of manufacturing industries are collected by the Bureau of Economic Analysis (BEA) and the Bureau of the Census. Industry aggregates in the form of balance sheets, profit and loss statements, analyses of sales and expenses, lists of subsidiaries, and types and amounts of security issues are published for leading manufacturing corporations registered with the Securities and Exchange Commission. The BEA issues data on capital in manufacturing industries and capacity utilization rates in manufacturing. See also section 17, Business Enterprise, in this edition.

**Censuses and annual surveys.**—The first census of manufactures covered the year 1809. Between 1809 and 1963, a census was conducted at periodic intervals. Since 1967 it has been taken every 5 years (for years ending in "2" and "7"). Census data, either direct reports or estimates from administrative records, are obtained for every manufacturing plant with one paid employee or more.

The *Annual Survey of Manufactures (ASM)*, conducted for the first time in 1949, collects data for the years between censuses for the more general measures of manufacturing activity covered in detail by the censuses. The annual survey data are estimates derived from a scientifically selected sample of establishments. The 1988 annual survey is based on a sample of about 56,000 establishments of an approximate total of 220,000. These establishments represent all manufacturing establishments of multiunit companies and all single-establishment manufacturing companies mailed schedules in the 1982 Census of Manufactures. The 1984 through 1988 ASM sample differs slightly from the previous sample. For the current panel, all establishments of companies with 1982 shipments in manufacturing in excess of \$500 million were included in the survey with certainty. For the remaining portion of the mail survey, the establishment was defined as the sampling unit. For this portion, all establishments with 250 employees or more and establishments with a very large value of shipments also were included. Therefore, of the 56,000 establishments included in the ASM panel, approximately 31,000 are selected with certainty. These certainty establishments account for approximately 80 percent of total value of shipments in the 1982 census. Smaller establishments in the remaining portion of the mail survey were selected by sample.

The basic statistical measures of manufacturing activity, such as employment, payrolls, value added, etc., are defined in essentially the same way for both the annual surveys and the census of manufactures. However, the bases for computing average employment vary for different years. For example, beginning with 1949, average employment was calculated from the figures reported for the pay periods ending nearest the 15th of March, May, August, and November; whereas, for 1947 such averages were based on 12 monthly employment figures. In 1967, the average employment calculation was revised to the pay periods which include the 12th of March, May, August, and November to provide data more comparable with other statistical series.

**Establishments and classification.**—The censuses of manufactures for 1947 through 1987 cover operating manufacturing establishments as defined in the *Standard Industrial Classification Manual (SIC)*, issued by the U.S. Office of Management and Budget (see text, section 13). The *Manual* is also used for classifying establishments in the annual surveys. The comparability of manufactures data over time is affected by changes in the official definitions of industries as presented in the *Manual*. It is important to note therefore, that the 1987 edition of the *Manual* was

used for the 1987 census; and the 1972 edition of the *Manual* and the 1977 *Supplement* was used for the 1972 through 1982 censuses. For the censuses from 1947 to 1963, reports were required from all establishments employing one or more persons at any time during the census year. Beginning with the 1967 census, an effort was made to relieve the very small establishments from the necessity of filing a census report. Approximately 150,000 small single-unit manufacturing firms identified as having less than 20 employees (cutoff varied by industry) benefited from this procedure. Data for these single-unit companies were estimated on the basis of government administrative records and industry averages. Each of the establishments tabulated was classified in one of the approximately 459 manufacturing industries as defined by the *SIC Manual* in 1987. The *Manual* defines an industry as a number of establishments producing a single product or a closely related group of products. In the main, an establishment is classified in a particular industry if its production of a product or product group exceeds in value added its production of any other product group. While some establishments produce only the products of the industry in which they are classified, few within an industry specialize to that extent. The statistics on employment, payrolls, value added, inventories, and expenditures, therefore, reflect both the primary and secondary activities of the establishments in that industry. For this reason, care should be exercised in relating such statistics to the total shipments figures of products primary to the industry.

The censuses for 1947 through 1987 were conducted on an establishment basis. The term "establishment" signifies a single physical plant site or factory. It is not necessarily identical with the business unit or company, which may consist of one or more establishments. A company operating establishments at more than one location is required to submit a separate report for each location. An establishment engaged in distinctly different lines of activity and maintaining separate payroll and inventory records is also required to submit separate reports.

**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

### No. 1301. Gross National Product in Manufacturing: 1980 to 1988

[In billions of dollars, except percent. For definition of gross national product, see text, section 14. Based on 1972 Standard Industrial Classification]

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1988
<b>CURRENT DOLLARS</b>									
Manufacturing .....	581.0	643.1	634.6	683.2	771.9	789.5	832.4	872.1	948.6
Durable goods .....	351.8	385.8	362.5	385.6	451.1	458.8	478.1	495.4	530.3
Lumber and wood products .....	18.7	17.1	16.0	20.5	22.8	22.2	24.7	27.8	29.6
Stone, clay, and glass products .....	19.0	19.0	18.2	20.2	22.9	24.8	26.9	28.7	28.3
Primary metal industries .....	44.3	49.8	35.3	30.3	36.3	34.8	39.2	40.1	46.8
Fabricated metal products .....	46.0	49.6	46.3	47.6	55.1	57.8	57.9	59.5	64.0
Machinery, except electrical .....	76.9	86.2	80.0	75.3	85.4	82.7	82.7	84.8	93.1
Electric and electronic equipment .....	55.0	60.7	61.8	67.7	79.9	82.2	82.7	84.9	91.1
Motor vehicles and equipment .....	26.7	31.5	29.5	39.0	49.6	53.7	53.2	53.3	55.1
Nondurable goods .....	229.2	257.3	272.1	297.6	320.8	330.8	354.3	376.6	418.3
Food and kindred products .....	52.2	57.9	61.4	64.7	66.6	69.8	70.9	76.7	83.3
Textile mill products .....	15.0	15.9	14.8	16.9	17.4	17.1	19.1	20.0	20.3
Apparel and other textile products .....	17.1	18.7	18.9	20.3	20.7	20.6	21.9	23.4	24.6
Paper and allied products .....	23.1	25.1	26.7	27.8	31.9	33.1	35.5	40.1	45.8
Printing and publishing .....	31.6	35.2	38.4	42.4	47.6	52.5	56.9	59.9	64.4
Chemicals and allied products .....	45.5	53.3	55.3	59.6	62.0	63.8	70.8	77.0	92.1
Petroleum and coal products .....	16.8	19.8	24.4	28.3	33.7	32.2	35.2	33.3	39.5
<b>CONSTANT (1982) DOLLARS</b>									
Manufacturing .....	673.9	678.6	634.6	674.2	752.4	779.2	803.2	849.7	927.5
Durable goods .....	408.5	408.6	362.5	383.8	448.6	471.5	482.7	517.4	583.2
Lumber and wood products .....	21.3	16.5	16.0	18.8	20.9	19.8	21.3	24.2	25.7
Stone, clay, and glass products .....	21.3	20.2	18.2	19.7	21.3	22.2	22.9	24.9	25.2
Primary metal industries .....	48.2	50.6	35.3	28.9	33.4	32.7	32.2	34.6	37.9
Fabricated metal products .....	53.7	53.0	46.3	48.8	54.8	56.2	54.8	58.4	63.2
Machinery, except electrical .....	86.1	89.6	80.0	84.8	105.7	124.2	129.4	140.7	170.5
Electric and electronic equipment .....	63.3	64.9	61.8	64.6	73.5	74.3	74.1	78.3	88.1
Motor vehicles and equipment .....	35.2	34.8	29.5	37.8	47.3	50.3	46.5	46.4	51.7
Nondurable goods .....	265.5	269.9	272.1	290.4	303.8	307.7	320.5	332.2	344.3
Food and kindred products .....	59.8	58.9	61.4	62.7	62.1	64.8	65.6	66.5	67.8
Textile mill products .....	16.4	15.8	14.8	16.2	16.0	15.6	17.0	17.3	16.8
Apparel and other textile products .....	21.1	20.3	18.9	20.1	20.4	20.1	21.0	22.7	23.2
Paper and allied products .....	25.8	25.5	26.7	29.0	29.5	30.2	31.6	33.8	34.9
Printing and publishing .....	37.0	38.6	38.4	39.6	40.8	42.5	43.1	43.6	45.5
Chemical and allied products .....	50.0	54.0	55.3	59.7	59.1	59.1	64.6	68.2	74.2
Petroleum and coal products .....	22.9	21.8	24.4	29.8	39.5	39.4	41.1	42.6	44.6

<sup>1</sup> Includes industries not shown separately.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

## No. 1302. Manufactures—Summary: 1963 to 1988

[For establishment coverage, see text, section 27. Data based on Census of Manufactures, except as noted. For composition of regions, see fig. 1, inside front cover. See also, *Historical Statistics, Colonial Times to 1970*, series P 1-12]

ITEM	Unit	1963	1967	1972	1977	1982	1985 <sup>1</sup>	1986 <sup>1</sup>	1987	1988
<b>ALL ESTABLISHMENTS</b>										
<b>Number of establishments <sup>2</sup></b>	<b>1,000</b>	<b>312</b>	<b>311</b>	<b>321</b>	<b>360</b>	<b>358</b>	<b>(NA)</b>	<b>(NA)</b>	<b>369</b>	<b>(NA)</b>
With 20 or more employees	1,000	102	110	114	119	123	(NA)	(NA)	126	(NA)
Employee size-class:										
Establishments <sup>3</sup>	1,000	305	306	313	351	348	(NA)	(NA)	359	(NA)
Under 20	1,000	207	199	203	237	230	(NA)	(NA)	238	(NA)
20-99	1,000	70	74	76	78	84	(NA)	(NA)	86	(NA)
100-249	1,000	18	20	21	22	21	(NA)	(NA)	22	(NA)
250-999	1,000	10	11	11	12	11	(NA)	(NA)	11	(NA)
1,000 and over	1,000	3	3	3	2	2	(NA)	(NA)	2	(NA)
Form of organization:										
Corporate	1,000	176.2	153.9	233.2	284.2	283.2	(NA)	(NA)	287.4	(NA)
Noncorporate, total <sup>4</sup>	1,000	130.4	33.2	87.5	75.7	74.0	(NA)	(NA)	81.5	(NA)
Individual proprietorship	1,000	99.2	24.9	42.5	52.3	45.6	(NA)	(NA)	35.4	(NA)
Partnership	1,000	27.7	6.7	17.7	18.3	15.0	(NA)	(NA)	13.2	(NA)
Value added by Region:										
Northeast	Percent	29.8	29.1	26.3	23.7	23.7	23.1	22.7	23.7	(NA)
North Central	Percent	35.4	35.0	34.9	34.4	29.8	30.9	31.0	29.8	(NA)
South	Percent	21.5	22.7	25.5	27.4	29.5	29.3	29.6	29.5	(NA)
West	Percent	13.3	13.0	13.4	14.5	17.0	16.7	16.6	17.0	(NA)
<b>All employees, <sup>5</sup> annual average <sup>6</sup></b>	<b>Million</b>	<b>17.0</b>	<b>19.3</b>	<b>19.0</b>	<b>19.6</b>	<b>19.1</b>	<b>18.8</b>	<b>18.4</b>	<b>18.9</b>	<b>19.1</b>
Payroll, all employees	Bil. dol.	100	132	174	264	380	443	451	476	503
Payroll per employee	\$1,000	5.9	6.8	9.2	13.5	19.9	23.6	24.5	25.1	26.3
Production workers, annual average	Million	12.2	14.0	13.5	13.7	12.4	12.2	11.8	12.2	12.4
Percent of all employees	Percent	71.8	72.2	71.1	69.9	64.9	64.9	64.1	64.6	64.9
Hours, production workers	Billion	24.5	27.8	26.7	26.7	23.5	23.7	23.2	24.3	24.8
Hours per worker	1,000	2.0	2.0	2.0	1.9	1.9	1.9	2.0	2.0	2.0
Wages, production workers	Bil. dol.	62	81	106	157	205	236	237	251	264
Percent of payroll for all employees	Percent	62.0	61.6	60.6	59.5	53.9	53.3	53.3	52.9	52.5
Wages per worker	\$1,000	5.1	5.8	7.8	11.5	16.5	18.8	19.4	20.5	21.3
Wages per worker hour	Dollar	2.53	2.92	3.95	5.89	8.70	9.96	10.22	10.35	10.67
<b>Value added by manufacture <sup>7</sup></b>	<b>Bil. dol.</b>	<b>192</b>	<b>262</b>	<b>354</b>	<b>585</b>	<b>824</b>	<b>1,000</b>	<b>1,035</b>	<b>1,166</b>	<b>1,262</b>
Per production worker	\$1,000	15.7	18.8	26.2	42.7	66.5	82.2	88.0	95.2	101.8
Per production worker hour	Dollar	7.83	9.41	13.26	21.93	35.01	42.14	44.67	47.97	50.98
Per dollar of workers' wages	Dollar	2.90	3.22	3.36	3.72	4.02	4.24	4.38	4.64	4.78
<b>Cost of materials</b>	<b>Bil. dol.</b>	<b>230</b>	<b>299</b>	<b>407</b>	<b>782</b>	<b>1,130</b>	<b>1,276</b>	<b>1,217</b>	<b>1,320</b>	<b>1,438</b>
<b>Value of shipments <sup>8</sup></b>	<b>Bil. dol.</b>	<b>421</b>	<b>557</b>	<b>757</b>	<b>1,359</b>	<b>1,960</b>	<b>2,280</b>	<b>2,260</b>	<b>2,476</b>	<b>2,583</b>
Per production worker	\$1,000	34.4	39.9	55.9	99.2	158.1	187.3	192.1	202.2	216.3
End-of-year inventories	Bil. dol.	60	84	108	188	307	322	311	333	362
Capital expenditures, new <sup>9</sup>	Bil. dol.	11.4	21.5	24.1	47.5	75.0	83.1	76.4	78.6	80.6
Ratios:										
Value added to shipments	Ratio	45.6	47.0	46.7	42.9	42.0	43.8	45.8	47.1	47.1
Inventories to shipments	Ratio	14.2	15.0	14.2	13.8	15.7	14.1	13.8	13.4	13.5
Payroll to value added	Ratio	52.0	50.3	49.1	45.2	46.1	44.3	43.6	40.8	39.8
Gross book value of depreciable assets	Bil. dol.	158	218	301	439	692	821	(NA)	868	(NA)
Machinery and equipment	Bil. dol.	(NA)	157	218	328	527	632	(NA)	671	(NA)
Assets per employee	\$1,000	9.3	11.3	16.4	22.4	36.2	43.7	(NA)	48.6	(NA)
<b>MULTIUNIT COMPANIES</b>										
Establishments	1,000	45.9	51.7	70.2	81.2	81.7	(NA)	(NA)	80.9	(NA)
Employees	Million	11.0	13.3	14.3	15.0	14.3	(NA)	(NA)	13.8	(NA)
Production workers	Million	8.1	9.8	9.8	10.1	8.8	(NA)	(NA)	8.5	(NA)
Payroll, all employees	Bil. dol.	68.2	93.8	138.8	214.2	307.5	(NA)	(NA)	377.3	(NA)
Wages, production workers	Bil. dol.	44.7	60.9	81.9	124.9	159.1	(NA)	(NA)	191.8	(NA)
Value added by manufacture	Bil. dol.	146.6	206.4	286.1	485.0	678.4	(NA)	(NA)	953.6	(NA)
Capital expenditures, new	Bil. dol.	8.9	18.6	20.0	41.0	65.2	(NA)	(NA)	66.5	(NA)
<b>SINGLE UNIT COMPANIES <sup>10</sup></b>										
Establishments	1,000	260.8	254.0	250.5	278.7	276.3	(NA)	(NA)	288.0	(NA)
Employees	Million	5.2	5.2	4.8	4.6	4.8	(NA)	(NA)	5.1	(NA)
Payroll, all employees	Bil. dol.	25.1	28.5	35.4	49.8	72.1	(NA)	(NA)	98.3	(NA)
Value added by manufacture	Bil. dol.	45.5	55.5	67.9	100.1	145.7	(NA)	(NA)	212.1	(NA)

NA Not available. <sup>1</sup> Estimated data based on *Annual Survey of Manufactures*; see text, section 27. <sup>2</sup> Includes administrative and auxiliary units, except as noted. <sup>3</sup> Excludes administrative offices and auxiliary units. <sup>4</sup> Includes forms of organization not shown separately. <sup>5</sup> Includes data for employees of manufacturing establishments engaged in distribution and construction work. <sup>6</sup> Data are based on pay periods ending nearest 15th of March, May, August, and November. <sup>7</sup> Adjusted value added; takes into account (a) value added by merchandising operations (that is, difference between the sales value and cost of merchandise sold without further manufacture, processing, or assembly), plus (b) net change in finished goods and work-in-process inventories between beginning and end of year. <sup>8</sup> Includes extensive and unmeasurable duplication from shipments between establishments in the same industry classification. <sup>9</sup> Includes plants under construction and not yet in operation. <sup>10</sup> Beginning 1967, includes data obtained from Federal administrative records.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1963, 1967, 1972, 1977, 1982, and 1987*; and *Annual Survey of Manufactures*.

## No. 1303. Manufactures—Summary by Industry Group: 1982, 1987, and 1988

[Data based on various editions of the Standard Industrial Classification Manual, published by the Office of Management and Budget; see text, section 27. N.e.c. = Not elsewhere classified. See also *Historical Statistics, Colonial Times to 1970*, series P-58-67]

SIC <sup>1</sup> code	INDUSTRY GROUP	1982				1987				1988			
		All employees		Value of ship- ments (mil. dol.)	Estab- lishments, total	All employees		Value of ship- ments (mil. dol.)	Payroll (mil. dol.)	All employees		Value added by manufac- ture (mil. dol.)	Value of shipments (mil. dol.)
		Number <sup>2</sup> (1,000)	Payroll (mil. dol.)			Number (1,000)	Payroll (mil. dol.)			Number (1,000)	Payroll (mil. dol.)		
(X)	All manufacturing establishments . . . . .	358,061	379,627	1,960,206	368,897	18,950	475,651	2,475,901	502,642	19,148	502,642	1,262,340	2,682,509
20	Food and kindred products . . . . .	22,130	20,088	280,529	20,624	1,449	30,268	329,725	31,420	1,046	31,420	128,766	351,515
201	Meat products . . . . .	3,623	4,993	67,602	3,267	341	5,701	77,002	6,050	299	6,050	13,161	81,169
202	Dairy products . . . . .	2,724	140	2,553	2,366	142	3,217	44,755	3,352	90	3,352	12,657	46,944
203	Preserved fruits and vegetables . . . . .	(NA)	(NA)	(NA)	1,912	209	3,784	36,343	207	171	3,898	17,906	38,301
204	Grain mill products . . . . .	2,745	2,197	31,386	2,610	102	2,704	36,737	102	129	2,840	40,945	24,157
205	Bakery products . . . . .	(NA)	(NA)	(NA)	2,850	217	4,761	23,677	221	129	4,936	16,718	24,157
206	Sugar and confectionery products . . . . .	1,033	1,661	15,576	1,094	90	1,991	18,887	89	72	2,048	8,819	19,641
207	Fats and oils . . . . .	724	39	774	595	30	702	15,881	30	20	3,920	19,641	20,517
208	Beverages . . . . .	2,584	194	4,244	2,214	161	4,521	47,327	159	77	4,552	24,009	49,722
209	Miscellaneous foods and kindred products . . . . .	3,941	2,300	23,959	3,716	158	2,887	29,116	159	117	2,989	14,323	30,099
21	Tobacco products . . . . .	163	1,324	16,061	138	45	1,486	20,757	45	33	1,501	17,155	23,832
211	Cigarettes . . . . .	14	1,094	12,127	11	32	1,486	17,372	32	24	1,239	15,624	20,078
212	Cigars . . . . .	60	59	254	20	3	36	192	2	2	34	115	202
213	Chewing and smoking tobacco . . . . .	29	52	665	77	3	77	1,114	3	84	873	1,185	1,185
214	Tobacco stemming and redrying . . . . .	60	120	3,015	78	7	139	2,079	7	5	145	543	2,367
22	Textile mill products . . . . .	6,630	9,046	47,515	6,412	672	11,410	62,786	689	572	11,554	26,282	64,768
221	Broadwoven fabric mills, cotton . . . . .	269	77	965	301	72	1,260	5,508	72	65	1,228	2,839	5,865
222	Broadwoven fabric mills, manmade . . . . .	523	141	8,191	441	88	1,596	8,049	90	17	1,672	3,754	8,463
223	Broadwoven fabric mills, wool . . . . .	131	176	763	119	14	236	1,051	17	15	298	686	1,928
224	Narrow fabric mills . . . . .	281	216	852	277	19	296	1,136	19	170	331	731	1,342
225	Knitting mills . . . . .	(NA)	(NA)	(NA)	2,130	203	2,988	13,531	197	170	2,986	5,946	13,224
226	Textile finishing, except wool . . . . .	753	834	4,972	971	56	1,036	7,042	54	44	1,017	2,983	6,803
227	Carpets and rugs . . . . .	505	603	5,808	477	53	1,039	9,795	55	100	1,078	3,146	10,256
228	Yarn and thread mills . . . . .	714	98	7,036	610	114	1,850	10,277	111	100	1,803	3,758	10,320
229	Miscellaneous textile goods . . . . .	(NA)	(NA)	(NA)	1,086	53	1,109	6,398	53	41	1,142	3,030	6,967
23	Apparel and other textile products . . . . .	24,391	12,129	53,388	22,872	1,081	13,904	64,243	1,066	895	14,278	32,454	65,032
231	Men's and boys' suits and coats . . . . .	529	75	878	347	55	779	2,863	60	52	878	1,865	3,169
232	Men's and boys' furnishings . . . . .	2,544	2,937	18,225	2,195	280	3,246	15,441	275	242	3,322	6,230	15,294
233	Women's and misses' outerwear . . . . .	10,838	4,110	18,225	10,290	349	4,287	19,389	338	278	4,330	9,776	19,751
234	Women's and children's undergarments . . . . .	755	783	3,323	557	68	8,439	3,738	67	56	857	2,090	3,884

See footnotes at end of table.



No. 1303. Manufactures—Summary by Industry Group: 1982, 1987, and 1988—Continued

(See headnote, p. 740)

SIC <sup>1</sup> code	INDUSTRY GROUP	1982				1987				1988			
		Estab- lishments (number)	All employees		Value of ship- ments (mil. dol.)	Estab- lishments, total	All employees		Value of ship- ments (mil. dol.)	Produc- tion workers	Value added by manufac- ture (mil. dol.)	Value of shipments (mil. dol.)	
			Number <sup>2</sup> (1,000)	Payroll (mil. dol.)			Number (1,000)	Payroll (mil. dol.)					
235	Apparel, other textile products—Con	419	16	157	522	461	17	204	663	209	378	671	
236	Hats, caps, and millinery	968	71	671	2,711	834	72	826	3,753	69	1,902	3,673	
237	Girls' and children's outerwear	504	3	80	419	330	2	48	423	44	129	407	
238	Fur goods	1,223	50	513	2,118	986	41	518	2,229	33	1,195	2,349	
239	Miscellaneous apparel and accessories	6,611	174	2,120	10,281	6,822	198	3,143	15,744	197	6,890	15,833	
24	Miscellaneous fabricated textile products	32,984	576	8,445	42,935	33,982	698	12,707	69,747	704	29,038	72,065	
241	Lumber and wood products <sup>3</sup>	11,658	81	1,208	6,274	11,952	86	1,518	10,938	87	4,324	11,664	
242	Logging	7,403	158	2,306	11,132	6,696	180	3,297	19,220	183	7,929	20,144	
243	Sawmills and planing mills	6,545	165	2,596	11,683	7,930	240	4,658	22,614	241	9,720	22,859	
244	Millwork, plywood, and structural members	2,250	36	391	1,635	2,216	37	483	2,069	38	939	2,234	
245	Wood containers	1,163	60	880	4,955	1,077	65	1,215	6,575	66	2,463	6,627	
25	Wood buildings and mobile homes	10,003	436	6,084	24,129	11,613	511	9,082	37,462	509	20,854	39,226	
251	Furniture and fixtures <sup>3</sup>	5,475	263	3,162	12,776	5,606	284	4,452	18,559	283	9,734	19,131	
252	Household furniture	413	19	295	1,103	484	22	397	2,088	24	1,037	2,661	
253	Public building and related furniture	2,148	60	1,025	3,710	2,455	74	1,552	5,537	74	3,218	5,771	
254	Partitions and fixtures	1,267	36	551	2,390	2,084	50	892	3,740	48	2,168	3,885	
259	Miscellaneous furniture and fixtures	(NA)	(NA)	(NA)	(NA)	6,342	611	16,860	108,989	619	57,355	122,556	
26	Paper and allied products	43	17	468	3,110	39	14	535	4,314	14	3,117	5,260	
261	Pulp mills	289	129	3,431	20,995	281	129	4,597	28,918	130	16,866	33,546	
262	Paper mills	222	56	1,502	9,531	199	52	1,859	13,730	54	1,964	16,094	
263	Paperboard mills	2,781	188	3,517	19,192	2,796	194	4,618	25,863	194	10,194	26,193	
265	Paperboard containers and boxes	3,006	213	3,961	26,701	3,027	226	5,251	36,165	226	18,404	39,463	
267	Miscellaneous converted paper products	53,406	1,922	22,707	85,797	61,774	1,494	33,440	136,196	1,498	94,109	143,907	
27	Printing and publishing	8,846	402	6,555	21,276	9,079	434	9,923	31,850	432	24,892	32,927	
271	Newspapers	3,328	94	1,986	11,478	4,017	110	2,962	17,329	111	12,440	18,612	
272	Periodicals	2,811	112	2,090	10,132	2,856	114	1,513	15,876	116	11,879	16,034	
273	Books	2,057	45	706	2,871	2,376	70	1,513	7,810	68	6,248	8,154	
274	Miscellaneous publishing	(NA)	(NA)	(NA)	(NA)	36,103	553	12,301	44,786	557	25,856	47,480	
275	Commercial printing	810	50	934	5,059	853	53	1,281	7,397	53	1,349	7,781	
276	Manifold business forms	154	21	1,894	1,894	162	22	471	2,911	20	2,279	3,082	
277	Greeting cards	1,467	61	903	2,803	1,545	68	1,265	4,060	69	3,060	4,276	
278	Blankbooks and bookbinding	(NA)	(NA)	(NA)	(NA)	4,783	69	1,784	4,157	71	3,485	4,479	
279	Printing trade services	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	

See footnotes at end of table.

No. 1303. Manufactures—Summary by Industry Group: 1982, 1987 and 1988—Continued

(See headline, p. 740)

SIC <sup>1</sup> code	INDUSTRY GROUP	1982				1987				1988			
		Establish- ments (number)	All employees		Value of ship- ments (mil. dol.)	Establish- ments, total	All employees		Value of ship- ments (mil. dol.)	All employees		Value added by manufac- ture (mil. dol.)	Value of shipments (mil. dol.)
			Number <sup>2</sup> (1,000)	Payroll (mil. dol.)			Number (1,000)	Payroll (mil. dol.)		Number (1,000)	Payroll (mil. dol.)		
28	Chemicals and allied products . . . . .	11,901	873	20,836	170,737	12,109	814	25,016	229,546	930	26,396	137,879	259,699
281	Industrial inorganic chemicals . . . . .	1,365	108	2,795	17,280	1,405	94	3,099	19,774	96	3,264	12,841	22,110
282	Plastics materials and synthetics . . . . .	606	141	3,451	28,428	680	123	4,013	40,851	126	4,285	20,755	48,388
283	Drugs . . . . .	1,281	166	3,966	24,695	1,356	172	5,304	39,263	175	5,957	31,026	43,987
284	Soap, cleaners, and toilet goods . . . . .	2,379	127	2,581	26,031	2,399	119	3,099	34,748	128	3,362	23,602	37,856
285	Paints and allied products . . . . .	1,441	54	1,158	9,162	1,431	55	1,492	12,702	57	1,565	6,489	13,532
286	Industrial organic chemicals . . . . .	969	144	4,005	38,157	961	126	4,541	51,158	124	4,656	26,985	59,972
287	Agricultural chemicals . . . . .	1,127	51	1,156	14,653	973	40	1,171	14,267	41	1,224	7,605	16,077
289	Miscellaneous chemical products . . . . .	2,733	82	1,725	12,330	2,904	85	2,298	16,782	85	2,383	8,576	17,778
29	Petroleum and coal products . . . . .	2,322	152	4,339	208,919	2,254	116	3,996	130,414	115	4,142	25,280	131,415
291	Petroleum refining . . . . .	(NA)	(NA)	(NA)	(NA)	331	75	2,545	118,166	73	2,929	20,688	118,830
295	Asphalt paving and roofing materials . . . . .	1,307	30	629	5,948	1,367	28	786	7,749	29	836	3,059	7,930
299	Miscellaneous petroleum and coal products . . . . .	582	14	312	3,614	556	13	365	4,479	13	377	1,533	4,656
30	Rubber and misc. plastics products . . . . .	13,449	682	11,597	55,416	14,515	831	17,581	86,634	860	18,750	46,585	94,200
301	Tires and inner tubes . . . . .	164	70	1,734	9,340	164	65	2,070	10,427	68	2,238	5,779	11,240
302	Rubber and plastics footwear . . . . .	85	18	197	706	86	11	153	557	12	160	316	583
305	Hose and belting and plastics and packing . . . . .	635	55	999	3,612	693	52	1,159	4,648	57	1,357	2,857	5,288
306	Fabricated rubber products, n.e.c. . . . .	(NA)	(NA)	(NA)	(NA)	1,573	104	2,245	9,227	104	2,290	5,111	9,867
308	Miscellaneous plastics products, n.e.c. . . . .	(NA)	(NA)	(NA)	(NA)	12,019	599	11,955	61,775	620	12,706	32,423	67,242
31	Leather and leather products . . . . .	2,735	200	2,219	9,719	2,193	129	1,831	9,082	128	1,881	4,528	9,664
311	Leather tanning and finishing . . . . .	384	20	311	1,753	344	15	292	2,219	15	314	13	540
313	Footwear cut stock . . . . .	161	7	81	368	128	5	70	324	5	66	4	128
314	Footwear, except rubber . . . . .	751	121	1,250	5,269	479	71	913	4,073	70	924	62	2,172
315	Leather gloves and mittens . . . . .	96	4	37	178	77	3	34	185	3	32	3	73
316	Luggage . . . . .	292	16	194	789	241	11	196	929	11	192	8	505
317	Handbags and personal leather goods . . . . .	636	25	271	1,035	529	17	232	942	17	248	14	551
319	Leather goods, n.e.c. . . . .	415	7	76	327	395	7	95	411	7	104	6	260

See footnotes at end of table.

## No. 1303. Manufactures—Summary by Industry Group: 1982, 1987, and 1988—Continued

[See headnote, page 740]

SIC <sup>1</sup> code	INDUSTRY GROUP	1982					1987					1988				
		Establish- ments (number)	All employees		Value of ship- ments (mil. dol.)	Establish- ments, total	All employees		Value of ship- ments (mil. dol.)	All employees		Value added by manufac- ture (mil. dol.)	Value of shipments (mil. dol.)			
			Number, <sup>2</sup> (1,000)	Payroll (mil. dol.)			Number (1,000)	Payroll (mil. dol.)		Number (1,000)	Payroll (mil. dol.)					
32	Stone, clay, and glass products . . . . .	16,545	522	10,097	45,181	16,166	524	12,349	61,477	523	12,735	34,235	63,059			
321	Flat glass, . . . . .	69	15	414	1,666	81	15	507	1,477	14	513	1,517	2,442			
322	Glass and glassware, pressed or blown . . . . .	459	97	2,032	7,941	522	77	1,959	8,339	76	2,011	5,239	8,563			
323	Products of purchased glass . . . . .	1,337	41	696	2,977	1,432	51	1,060	5,429	53	1,143	3,036	5,801			
324	Cement, hydraulic . . . . .	237	25	636	3,542	215	19	599	4,335	19	584	4,234	4,234			
325	Structural clay products . . . . .	628	30	491	1,868	598	35	689	2,915	34	712	2,185	3,010			
326	Pottery and related products . . . . .	910	37	598	1,762	1,006	38	762	2,416	39	801	1,752	2,551			
327	Concrete, gypsum, and plaster products . . . . .	9,933	167	2,995	14,947	9,814	203	4,632	24,427	200	4,728	24,577	24,577			
328	Cut stone and stone products . . . . .	711	11	156	555	745	13	243	841	13	258	1,176	890			
329	Miscellaneous nonmetallic mineral products . . . . .	(NA)	(NA)	(NA)	(NA)	1,753	73	1,898	10,226	75	1,985	6,420	10,992			
33	Primary metal industries <sup>3</sup> . . . . .	7,061	854	20,603	104,667	6,771	701	19,777	120,248	726	21,465	56,487	149,080			
331	Blast furnace and basic steel products . . . . .	1,068	365	267	46,720	1,241	253	8,766	51,815	266	9,015	25,727	64,059			
332	Iron and steel foundries . . . . .	1,438	157	3,113	9,642	1,231	130	3,426	10,628	137	3,737	113	12,066			
333	Primary nonferrous metals . . . . .	161	44	1,307	11,321	169	32	996	10,969	33	1,105	25	15,918			
334	Secondary nonferrous metals . . . . .	458	19	402	4,852	397	13	312	4,431	13	362	9	6,663			
335	Nonferrous rolling and drawing . . . . .	1,022	167	3,636	25,463	1,066	163	4,298	33,282	163	4,498	11,509	39,601			
336	Nonferrous foundries (castings) . . . . .	(NA)	(NA)	(NA)	(NA)	1,687	80	1,505	6,315	81	1,882	3,666	7,257			
34	Fabricated metal products . . . . .	35,560	1,460	28,283	119,444	36,105	1,458	35,000	147,366	1,488	37,140	79,893	158,834			
341	Metal cans and shipping containers . . . . .	566	59	1,533	12,172	538	48	1,527	12,114	47	1,560	4,329	12,556			
342	Cutlery, handtools, and hardware . . . . .	2,238	141	2,585	10,082	2,327	145	3,389	13,481	148	3,567	8,245	14,109			
343	Plumbing and heating, except electric . . . . .	1,177	46	821	4,003	828	46	1,005	5,283	45	1,084	3,068	5,730			
344	Fabricated structural metal products . . . . .	12,681	422	7,897	34,904	12,579	407	9,042	40,415	413	9,549	19,681	43,390			
345	Screw machine products, bolts, etc. . . . .	2,690	94	1,727	5,834	2,569	95	2,270	7,890	98	2,447	75	8,643			
346	Metal forgings and stampings . . . . .	4,019	236	5,110	20,057	4,062	255	7,235	28,410	252	7,530	14,080	29,932			
347	Metal services, n.e.c. . . . .	5,070	97	1,518	5,125	5,251	113	2,167	7,790	123	2,514	95	9,191			
348	Ordnance and accessories, n.e.c. . . . .	349	78	1,780	4,993	374	88	2,458	7,644	87	2,490	5,194	8,022			
349	Miscellaneous fabricated metal products . . . . .	6,770	284	5,312	22,274	7,577	262	5,906	24,340	274	6,399	14,584	27,262			
35	Industrial machinery and equipment . . . . .	52,912	2,189	46,911	187,896	52,135	1,844	50,553	217,670	1,898	54,254	129,342	243,261			
351	Engines and turbines . . . . .	341	112	2,850	13,040	356	87	2,906	14,570	90	3,121	60	16,223			
352	Farm and garden machinery . . . . .	2,078	114	2,366	13,018	1,804	82	1,917	11,474	89	2,141	64	13,560			
353	Construction and related machinery . . . . .	3,952	326	7,332	32,038	3,467	188	5,272	24,622	197	5,649	125	13,514			
354	Metalworking machinery . . . . .	(NA)	(NA)	(NA)	(NA)	11,470	268	7,301	22,004	274	7,821	196	24,366			
355	Special industry machinery . . . . .	(NA)	(NA)	(NA)	(NA)	4,550	169	4,588	17,096	173	4,911	101	10,644			
356	General industrial machinery . . . . .	(NA)	(NA)	(NA)	(NA)	3,929	240	6,203	24,121	252	6,813	162	15,423			
357	Computer and office equipment . . . . .	(NA)	(NA)	(NA)	(NA)	2,134	328	10,668	60,627	330	11,509	123	33,691			
358	Refrigeration and service machinery . . . . .	1,937	172	3,344	16,450	2,129	190	4,752	23,235	194	4,879	137	12,295			
359	Industrial machinery, n.e.c. . . . .	(NA)	(NA)	(NA)	(NA)	22,296	292	6,946	19,321	300	7,411	229	21,875			

See footnotes at end of table.

## No. 1303. Manufactures—Summary by Industry Group: 1982, 1987, and 1988—Continued

(See headline, page 740)

SIC <sup>1</sup> code	INDUSTRY GROUP	1982				1987				1988			
		Establish- ments (number)	All employees		Value of ship- ments (mil. dol.)	Establish- ments, total	All employees		Value of ship- ments (mil. dol.)	All employees		Value added by manufac- ture (mil. dol.)	Value of shipments (mil. dol.)
			Number <sup>2</sup> (1,000)	Payroll (mil. dol.)			Number (1,000)	Payroll (mil. dol.)		Number (1,000)	Payroll (mil. dol.)		
36	Electronics; other electric equip. . . . .	(NA)	(NA)	(NA)	(NA)	15,962	1,565	38,738	171,286	1,581	41,105	103,475	186,951
361	Electric distribution equipment . . . . .	(NA)	(NA)	(NA)	(NA)	766	77	1,791	8,197	77	1,868	5,031	9,097
362	Electrical industrial apparatus . . . . .	(NA)	(NA)	(NA)	(NA)	2,213	166	3,862	15,266	186	4,049	7,524	16,819
363	Household appliances . . . . .	(NA)	(NA)	(NA)	(NA)	480	117	2,642	16,498	117	3,911	7,563	17,332
364	Electric lighting and wiring equipment . . . . .	(NA)	(NA)	(NA)	12,048	1,966	167	3,732	18,004	166	3,911	10,790	19,236
365	Household audio and video equipment . . . . .	(NA)	(NA)	(NA)	(NA)	854	44	850	7,833	46	971	2,300	8,360
366	Communications equipment . . . . .	(NA)	(NA)	(NA)	(NA)	1,437	260	7,537	34,001	257	8,167	20,759	38,093
367	Electronic components and accessories . . . . .	(NA)	(NA)	(NA)	(NA)	5,911	546	13,623	50,258	532	14,571	35,260	58,999
369	Misc. electrical equipment and supplies . . . . .	(NA)	(NA)	(NA)	(NA)	2,315	188	4,562	21,230	188	4,877	11,449	23,014
37	Transportation equipment . . . . .	9,443	1,596	40,812	201,346	10,500	1,817	58,790	332,936	1,816	61,316	143,500	354,048
371	Motor vehicles and equipment . . . . .	3,867	616	15,393	112,270	4,422	751	23,910	205,923	732	25,069	72,086	221,575
372	Aircraft and parts . . . . .	1,471	539	14,718	52,027	1,618	596	20,590	77,304	597	20,969	40,483	79,553
373	Ship and boat building and repairing . . . . .	2,566	205	4,326	13,326	2,766	177	4,286	13,857	183	4,416	7,902	14,728
374	Railroad equipment . . . . .	200	35	790	3,457	173	22	631	2,471	26	742	1,483	3,286
375	Motorcycles, bicycles, and parts . . . . .	273	13	225	1,341	246	7	158	1,063	8	164	386	1,057
376	Guided missiles, space vehicles, parts . . . . .	105	146	4,481	14,398	156	214	8,114	26,285	224	8,925	18,931	28,194
379	Miscellaneous transportation equipment . . . . .	961	43	879	4,528	1,119	49	1,122	6,033	47	1,111	2,220	5,655
38	Instruments and related products . . . . .	(NA)	(NA)	(NA)	(NA)	10,326	982	28,778	107,325	986	29,937	76,094	114,528
381	Search and navigation equipment . . . . .	(NA)	(NA)	(NA)	(NA)	1,137	369	12,368	36,267	361	12,547	24,667	36,597
382	Measuring and controlling devices . . . . .	(NA)	(NA)	(NA)	(NA)	4,240	285	7,807	26,042	286	8,251	18,328	28,815
384	Medical instruments and supplies . . . . .	2,973	189	3,559	15,133	3,443	204	5,027	22,865	214	5,444	18,967	25,330
385	Optical goods . . . . .	410	26	409	1,273	494	24	475	1,689	28	500	1,345	1,946
386	Photographic equipment and supplies . . . . .	795	119	3,193	17,038	878	88	2,878	19,241	88	2,823	14,223	20,546
387	Watches, clocks, watchcases and parts . . . . .	237	17	248	1,188	221	12	223	1,221	9	231	645	1,295
39	Miscellaneous manufacturing industries . . . . .	15,871	383	5,647	26,891	16,544	374	6,884	32,012	392	7,384	19,028	34,869
391	Jewelry, silverware, and plated ware . . . . .	2,882	50	770	4,379	2,978	50	941	5,554	521	997	2,463	5,769
393	Musical instruments . . . . .	452	18	258	916	425	12	218	814	12	235	539	876
394	Toys and sporting goods . . . . .	2,570	99	1,389	8,256	2,711	89	1,512	8,798	94	1,683	71	9,970
395	Pens, pencils, office, and art supplies . . . . .	1,026	32	485	2,372	1,013	29	540	2,536	30	575	22	2,861
396	Costume jewelry and notions . . . . .	(NA)	(NA)	(NA)	(NA)	1,020	32	498	2,062	34	521	23	2,088
399	Miscellaneous manufactures . . . . .	(NA)	(NA)	(NA)	(NA)	8,397	163	3,174	12,248	172	3,373	7,536	13,287
(X)	Administrative and auxiliary <sup>4</sup> . . . . .	9,676	1,276	38,220	(NA)	9,480	1,234	47,202	(NA)	1,231	51,890	(NA)	(NA)

<sup>1</sup> Represents zero. <sup>2</sup> NA Not available. <sup>3</sup> Standard Industrial Classification Code; see text, section 27. <sup>4</sup> All employees represents the average of production workers plus all other employees for the payroll period ended nearest the 15th of March. <sup>5</sup> Includes other industries, not shown separately. <sup>6</sup> Manufacturing concerns often reported separately for central offices or auxiliaries which serve the manufacturing establishment of a company, rather than the general public. Separate reports were obtained from such units if at a different location or if they serviced more than one establishment.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1987 and Annual Survey of Manufactures*.

**No. 1304. Average Hourly Earnings of Production Workers in Manufacturing Industries, by State: 1980 to 1989**

[In dollars]

DIVISION AND STATE	1980	1983	1984	1985	1986	1987	1988	1989
<b>U.S.</b>	<b>7.27</b>	<b>8.83</b>	<b>9.18</b>	<b>9.54</b>	<b>9.73</b>	<b>9.91</b>	<b>10.19</b>	<b>10.49</b>
<b>New England:</b>								
ME	6.00	7.61	8.05	8.40	8.65	8.77	9.31	9.92
NH	5.87	7.38	7.85	8.39	8.77	9.29	9.97	10.36
VT	6.14	7.66	8.03	8.41	8.83	9.12	9.47	9.94
MA	6.51	8.01	8.50	9.00	9.24	9.77	10.40	10.87
RI	5.59	6.92	7.23	7.59	7.90	8.20	7.64	8.07
CT	7.08	8.76	9.22	9.57	10.07	10.46	10.78	11.20
<b>Middle Atlantic:</b>								
NY	7.18	8.84	9.22	9.67	9.92	10.09	10.43	10.67
NJ	7.31	9.11	9.50	9.86	10.12	10.40	10.86	11.17
PA	7.59	8.95	9.28	9.57	9.74	9.98	10.33	10.66
<b>East North Central:</b>								
OH	8.57	10.56	10.96	11.38	11.56	11.73	12.00	12.26
IN	8.49	10.10	10.45	0.00	10.81	0.00	0.00	11.70
IL	8.02	9.70	10.08	10.37	10.67	10.85	10.98	11.22
MI	9.52	11.62	12.18	12.64	12.80	12.97	13.31	13.51
WI	8.03	9.76	10.03	10.26	10.35	10.55	10.61	10.76
<b>West North Central:</b>								
MN	7.61	9.56	9.75	10.05	10.20	10.37	10.59	10.96
IA	8.67	10.09	10.25	10.32	10.35	10.62	10.56	10.83
MO	7.26	8.89	9.32	9.57	9.83	10.00	10.24	10.49
ND	6.56	7.74	7.86	8.05	8.19	8.43	8.36	8.79
SD	6.50	7.28	7.15	7.43	7.75	7.82	8.09	8.28
NE	7.38	8.75	8.93	9.02	9.26	9.33	9.38	9.55
KS	7.37	9.28	9.40	9.45	9.76	9.97	10.24	10.67
<b>South Atlantic:</b>								
DE	7.58	9.13	9.30	9.86	10.05	10.67	11.49	12.34
MD	7.61	9.02	9.45	9.73	9.91	10.11	10.71	11.20
DC	8.46	9.75	10.10	10.48	10.40	10.73	11.10	11.80
VA	6.22	7.78	8.12	8.51	8.83	9.14	9.37	9.69
WV	8.08	9.74	9.93	10.24	10.38	10.55	10.81	11.16
NC	5.37	6.68	7.01	7.29	7.54	7.84	8.12	8.41
SC	5.59	7.03	7.28	7.61	7.92	8.10	8.30	8.51
GA	5.77	7.13	7.58	8.10	8.35	8.49	8.65	8.84
FL	5.98	7.33	7.62	7.86	8.02	8.16	8.39	8.67
<b>East South Central:</b>								
KY	7.34	8.79	9.28	9.53	9.86	10.02	10.16	10.37
TN	6.08	7.49	7.93	8.29	8.58	8.78	8.96	9.22
AL	6.49	7.58	7.97	8.48	8.64	8.76	8.95	9.11
MS	5.44	6.70	6.95	7.22	7.46	7.59	7.83	8.03
<b>West South Central:</b>								
AR	5.71	7.05	7.31	7.57	7.76	7.88	8.07	8.26
LA	7.74	9.79	10.06	10.43	10.60	10.90	10.94	11.13
OK	7.36	9.21	9.64	9.86	9.80	10.14	10.35	10.44
TX	7.15	8.88	9.04	9.41	9.65	9.85	9.97	10.25
<b>Mountain:</b>								
MT	8.78	10.42	10.74	10.95	10.94	10.61	10.68	11.15
ID	7.55	8.49	9.34	9.41	9.66	9.75	10.00	10.21
WY	7.01	8.72	8.86	9.64	9.68	9.75	10.27	10.58
CO	7.63	8.97	9.24	9.52	9.82	10.05	10.38	10.45
NM	5.79	7.62	7.97	8.41	8.75	8.74	8.87	8.72
AZ	7.29	8.99	9.09	9.48	9.88	9.97	9.85	9.93
UT	7.02	8.71	8.95	9.64	9.98	9.96	10.11	10.14
NV	7.72	9.02	9.12	9.15	9.36	9.76	10.08	10.33
<b>Pacific:</b>								
WA	(NA)	11.41	(NA)	11.63	11.65	11.73	11.90	12.14
OR	8.65	10.24	10.44	10.50	10.57	10.56	10.60	10.80
CA	7.70	9.52	9.77	10.12	10.37	10.75	10.80	11.16
AK	10.22	12.34	12.25	12.19	11.62	11.79	11.98	12.01
HI	6.83	8.23	8.35	8.65	8.86	9.30	9.84	10.37

NA Not available.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

## No. 1305. Manufactures Summary,

[Sum of State totals may not add to U.S. total]

	DIVISION AND STATE	1962						1966			
		Establish- ments, total <sup>1</sup>	All employees <sup>2</sup>		Production workers <sup>2</sup>		Value added by manu- facture <sup>4</sup> (mil. dol.)	Value of ship- ments <sup>5</sup> (mil. dol.)	All employees <sup>2</sup>		Value added by manu- facture <sup>4</sup> (mil. dol.)
			Num- ber <sup>3</sup> (1,000)	Payroll (mil. dol.)	Num- ber <sup>3</sup> (1,000)	Wages (mil. dol.)			Num- ber <sup>3</sup> (1,000)	Payroll (mil. dol.)	
1	U.S. ....	358,061	19,084	379,827	12,401	204,787	824,118	1,960,206	18,371	450,806	1,035,821
2	N.E. ....	25,659	1,445	27,603	916	13,874	56,213	105,938	1,387	33,937	72,032
3	ME. ....	2,009	110	1,775	86	1,237	4,038	8,649	101	2,076	4,777
4	NH. ....	1,961	107	1,792	75	1,055	4,004	7,636	102	2,312	5,248
5	VT. ....	1,104	47	863	30	434	2,037	3,730	43	1,025	2,209
6	MA. ....	11,017	643	12,353	397	6,001	25,968	48,204	615	15,511	33,945
7	RI. ....	2,855	114	1,780	63	1,052	3,793	7,652	108	2,121	4,439
8	CT. ....	6,693	424	9,060	245	4,095	16,373	30,067	398	10,892	21,413
9	M.A. ....	65,443	3,353	66,316	2,048	33,333	139,387	294,829	2,990	75,018	163,215
10	NY. ....	32,651	1,419	29,156	836	13,270	62,907	121,469	1,268	32,638	73,259
11	NJ. ....	15,126	754	15,845	440	7,207	31,656	70,420	680	17,931	37,867
12	PA. ....	17,666	1,180	23,315	772	12,856	44,824	102,940	1,042	24,450	52,089
13	E.N.C. ....	67,378	4,337	92,400	2,664	52,063	184,757	440,702	4,080	111,796	245,282
14	OH. ....	16,960	1,102	24,740	695	13,816	49,641	112,278	1,087	29,803	66,167
15	IN. ....	7,960	585	12,559	406	7,621	25,747	63,332	575	14,772	34,976
16	IL. ....	18,618	1,069	22,681	670	11,951	47,705	112,928	989	25,830	58,621
17	MI. ....	15,158	884	22,223	564	12,505	39,118	99,715	943	29,582	56,879
18	WI. ....	8,682	697	10,197	329	5,990	22,546	52,448	486	11,809	26,639
19	W.N.C. ....	23,940	1,272	25,430	803	13,652	60,413	155,543	1,272	30,934	76,296
20	MN. ....	6,775	350	7,423	201	3,428	15,367	35,321	357	9,526	19,759
21	IA. ....	3,598	213	4,403	140	2,649	12,078	31,397	193	4,506	13,219
22	MO. ....	7,069	406	8,013	256	4,199	18,334	41,459	407	9,916	24,045
23	ND. ....	587	15	246	10	141	652	2,465	14	273	715
24	SD. ....	748	25	398	18	262	1,100	3,005	26	487	1,496
25	NE. ....	1,928	92	1,624	64	1,015	4,445	15,143	88	1,822	5,363
26	KS. ....	3,235	171	3,323	113	1,958	8,437	26,753	167	4,404	11,699
27	SA. ....	48,855	2,930	48,588	2,081	28,351	112,850	256,625	2,970	61,695	155,957
28	DE. ....	632	68	1,743	32	557	2,467	8,383	64	2,025	3,020
29	MD. ....	3,883	234	4,859	146	2,551	10,134	21,282	218	5,655	12,371
30	DC. ....	514	17	394	6	125	929	1,537	16	489	1,302
31	VA. ....	5,568	391	6,649	287	4,192	17,256	36,803	407	8,670	24,010
32	WV. ....	1,662	96	2,007	65	1,233	4,049	9,869	86	2,081	4,775
33	NC. ....	10,133	799	11,717	605	7,297	28,492	64,176	803	14,979	42,162
34	SC. ....	4,206	368	5,540	279	3,576	12,219	27,836	353	6,775	16,472
35	GA. ....	8,534	503	7,906	369	4,864	19,192	48,056	543	10,941	28,764
36	FL. ....	13,723	454	7,773	292	3,956	18,112	38,683	480	10,080	23,081
37	E.S.C. ....	18,573	1,241	20,132	924	13,053	49,514	119,698	1,239	24,699	64,068
38	KY. ....	3,502	247	4,639	174	2,874	11,820	29,639	238	5,433	15,909
39	TN. ....	6,417	462	7,378	338	4,603	17,823	40,777	467	9,275	23,625
40	AL. ....	5,528	330	5,234	254	3,598	12,046	29,794	329	6,432	15,560
41	MS. ....	3,126	202	2,881	158	1,978	7,825	19,488	205	3,559	8,974
42	W.S.C. ....	31,876	1,648	32,573	1,082	17,961	81,011	271,595	1,417	33,860	86,880
43	AR. ....	3,313	190	2,824	149	1,932	7,755	19,747	193	3,563	9,164
44	LA. ....	4,107	202	4,304	142	2,731	11,755	57,058	158	3,951	12,641
45	OK. ....	4,168	197	4,010	121	2,065	8,143	23,116	159	3,902	9,002
46	TX. ....	20,288	1,059	21,435	670	11,233	53,358	171,674	907	22,444	56,073
47	Mt. ....	14,854	556	10,863	342	5,569	23,134	56,997	569	13,702	31,875
48	MT. ....	1,090	20	379	15	265	714	3,668	20	412	907
49	ID. ....	1,404	48	865	34	545	2,077	5,370	49	1,043	2,611
50	WY. ....	511	10	183	7	115	408	2,558	7	150	370
51	CO. ....	4,406	192	3,983	110	1,877	8,057	17,963	181	4,901	10,397
52	NM. ....	1,223	33	521	22	297	1,398	3,815	34	649	1,932
53	AZ. ....	3,407	150	3,037	87	1,423	6,162	12,907	165	4,012	9,509
54	UT. ....	1,962	83	1,539	54	837	3,455	8,960	92	2,083	4,993
55	NV. ....	851	20	356	13	210	863	1,756	21	452	1,156
56	Pac. ....	61,483	2,518	53,724	1,543	26,934	116,846	258,280	2,472	65,168	140,219
57	WA. ....	6,788	291	6,681	178	3,624	12,596	34,665	279	7,848	15,668
58	OR. ....	5,659	185	3,783	130	2,334	7,973	17,897	187	4,369	9,908
59	CA. ....	47,625	2,005	42,630	1,209	20,561	94,388	199,695	1,974	52,296	112,968
60	AK. ....	445	13	270	10	197	769	2,580	9	231	501
61	HI. ....	966	24	360	16	218	1,120	3,443	23	424	1,174

<sup>1</sup> Includes central administrative offices and auxiliary units. <sup>2</sup> Includes employment and payroll at administrative offices and auxiliary units. <sup>3</sup> All employees represents the average of production workers plus all other employees for the payroll period ended nearest the 12th of March. Production workers represents the average of the employment for the payroll periods ended nearest the 12th of March, May, August, and November.

## by State: 1982 to 1987

because U.S. and State figures were independently derived]

Establish- ments, total	1987									
	All employees <sup>2</sup>			Production workers <sup>2</sup>		Value added by manu- facture <sup>4</sup> (mil. dol.)	Value of ship- ments <sup>5</sup> (mil. dol.)	Capital expendi- tures		Cost of materials
	Number <sup>3</sup> (1,000)	Payroll Amount (mil. dol.)	Per employ- ee (dol.)	Number <sup>3</sup> (1,000)	Wages (mil. dol.)					
368,897	18,950	475,851	25,039	12,243	251,433	1,165,917	2,476,071	78,648	1,319,803	1
26,393	1,350	34,455	25,486	821	16,532	78,908	136,989	4,952	59,258	2
2,172	102	2,192	21,451	77	1,457	5,271	10,662	539	5,423	3
2,328	108	2,509	23,306	72	1,427	8,189	12,214	340	4,351	4
1,262	49	1,140	23,265	31	552	2,543	4,753	334	2,202	5
11,006	591	15,211	25,725	348	7,019	35,770	62,794	2,169	27,358	6
2,878	112	2,292	20,594	76	1,252	4,788	9,166	276	4,418	7
6,747	389	11,111	28,484	217	4,826	22,349	37,400	1,293	15,506	8
61,894	3,007	77,767	25,704	1,800	38,529	180,165	346,759	10,050	167,978	9
29,608	1,279	33,916	26,220	723	14,408	80,033	145,657	4,297	66,099	10
14,442	691	18,550	26,728	399	8,389	42,527	82,451	2,313	40,273	11
17,844	1,038	25,302	24,391	682	13,731	57,605	118,651	3,441	61,606	12
69,756	4,186	116,148	27,758	2,735	65,774	266,248	590,487	19,353	325,373	13
17,544	1,100	30,765	27,969	713	17,490	71,707	158,560	4,742	87,238	14
8,841	602	15,757	26,144	427	9,874	39,279	83,788	3,364	44,707	15
18,404	990	26,235	26,484	609	13,401	63,350	132,204	4,426	69,065	16
16,010	980	30,628	31,307	636	17,393	60,259	146,339	4,794	86,313	17
9,157	514	12,763	24,850	350	7,616	31,653	69,596	2,027	38,051	18
24,513	1,322	32,846	24,855	835	17,271	84,891	196,637	5,675	112,363	19
7,112	374	10,142	27,059	215	4,513	23,322	47,774	1,766	24,616	20
3,569	206	4,971	24,136	140	3,043	14,469	35,409	834	21,004	21
7,290	419	10,390	24,833	265	5,402	25,917	58,889	1,620	33,891	22
627	15	310	20,667	10	180	979	2,574	47	1,617	23
764	28	498	18,222	20	313	1,476	3,859	79	2,407	24
1,876	91	1,938	21,267	64	1,212	5,819	16,076	318	10,337	25
3,275	189	4,597	24,317	121	2,609	12,909	31,056	1,011	18,492	26
53,478	3,104	66,893	21,466	2,177	38,411	179,075	373,181	12,100	195,611	27
673	67	2,091	31,412	33	760	3,866	10,730	277	6,926	28
4,244	230	5,956	25,762	140	2,994	14,020	28,009	875	14,010	29
486	17	494	29,059	5	119	1,525	2,128	44	615	30
6,137	429	9,740	22,557	305	5,728	26,857	51,902	1,543	25,454	31
1,619	84	2,108	25,349	59	1,312	5,404	11,561	435	5,980	32
10,985	842	16,293	19,242	637	10,293	47,007	95,317	2,959	48,762	33
4,534	366	7,324	20,022	280	4,742	19,112	41,212	1,586	22,300	34
9,187	570	11,933	20,755	409	7,240	33,708	75,709	2,472	42,271	35
15,603	499	10,954	21,916	309	5,223	27,574	56,613	1,911	29,293	36
19,718	1,303	26,524	20,330	984	17,401	74,296	164,862	5,659	91,048	37
3,693	252	5,885	23,321	185	3,752	18,092	41,827	1,746	23,979	38
6,864	485	9,869	20,320	359	6,283	27,050	57,753	1,905	30,820	39
5,843	347	6,963	19,986	269	4,746	18,852	40,901	1,360	22,299	40
3,318	219	3,827	17,477	171	2,621	10,503	24,381	648	13,950	41
31,304	1,432	34,861	24,232	938	18,879	101,009	262,832	7,398	162,750	42
3,390	206	3,815	18,549	162	2,652	10,827	25,308	892	14,680	43
3,816	161	4,176	25,838	111	2,588	16,426	50,700	1,420	34,284	44
3,728	151	3,629	24,619	105	2,196	9,857	24,074	538	14,289	45
20,370	914	23,241	25,169	561	11,444	63,699	162,751	4,548	99,497	46
16,479	596	14,689	24,613	362	7,282	35,822	73,554	2,739	37,901	47
1,239	20	426	21,400	15	296	1,112	3,498	97	2,394	48
1,491	53	1,149	21,547	38	698	3,057	7,005	235	3,957	49
500	8	180	22,750	5	119	493	2,074	65	1,596	50
4,718	184	4,958	27,098	103	2,286	12,046	23,236	792	11,176	51
1,322	35	713	20,400	24	433	1,653	4,226	196	2,503	52
4,151	184	4,669	25,386	106	2,149	11,299	20,758	837	9,597	53
2,083	89	2,073	23,089	55	1,002	4,883	10,287	404	5,469	54
975	24	521	21,667	16	300	1,279	2,470	114	1,209	55
65,362	2,650	71,469	26,901	1,592	33,353	165,503	330,771	10,723	167,520	56
7,630	310	8,842	28,532	184	4,262	19,016	46,532	1,245	28,698	57
6,353	203	4,767	23,402	144	2,949	11,610	25,352	735	13,831	58
49,930	2,104	57,148	27,089	1,240	25,697	132,638	252,729	8,572	121,049	59
427	11	272	24,000	8	191	834	2,711	69	1,893	60
1,022	22	440	19,818	15	254	1,405	3,448	102	2,049	61

<sup>4</sup> For definition, see footnote 6, table 1302. <sup>5</sup> See footnote 7, table 1302.Source: U.S. Bureau of the Census, *Census of Manufactures, 1982 and 1987 and Annual Survey of Manufactures*.

### No. 1306. Finances of Manufacturing Corporations: 1970 to 1989

[In billions of dollars. Beginning 1986, data exclude estimates for corporations with less than \$250,000 in assets at time of sample selection. Prior period includes estimates for corporations in this size category. See table 909 for individual industry data]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Net sales	709	1,065	1,742	1,897	2,145	2,039	2,114	2,335	2,331	2,221	2,378	2,596	2,745
Net operating profit	50	77	135	129	144	105	125	159	138	125	159	190	182
Net profit:													
Before taxes	48	80	154	145	158	108	133	166	137	129	173	216	189
After taxes	29	49	99	92	101	71	86	108	88	83	116	155	136
Cash dividends	15	20	32	36	40	41	42	45	46	46	50	57	65
Net income retained in business	14	29	66	58	61	30	44	63	42	37	66	98	71

Source: Through 1981, U.S. Federal Trade Commission; thereafter, U.S. Bureau of the Census. *Quarterly Financial Report for Manufacturing, Mining, and Trade Corporations*.

### No. 1307. Capital in Manufacturing Establishments: 1980 to 1989

[In billions of dollars, except percent. Minus sign (-) indicates decline. Data refer to privately owned manufacturing establishments and are based on the capital expenditures data from the Census of Manufactures, the Annual Survey of Manufactures, and the inventory investment component of GNP. For details, see source]

ITEM	CURRENT DOLLARS						CONSTANT (1982) DOLLARS					
	1980	1985	1986	1987	1988	1989	1980	1985	1986	1987	1988	1989
Purchases of equipment and structures	75.3	83.7	76.9	78.8	86.9	104.0	86.8	84.6	75.5	74.6	81.4	90.9
Percent equipment	80.4	80.0	80.6	81.1	81.7	80.6	80.4	82.4	82.9	83.4	83.8	82.9
Depreciation (straight line)	53.1	74.2	78.4	81.7	84.7	88.6	62.0	72.2	74.3	75.8	77.2	78.7
Percent equipment	78.7	78.6	79.0	78.9	79.0	78.8	78.9	80.4	80.8	81.1	81.3	81.6
Net investment	22.2	9.5	-1.5	-2.9	4.2	15.4	24.9	12.4	1.1	-1.2	4.2	12.2
Net stock, end of year	944.6	1,145.1	1,174.1	1,215.6	1,276.7	1,339.9	1,034.0	1,078.6	1,076.0	1,083.4	1,096.2	1,113.6
Equipment and structures	633.9	811.7	845.8	872.1	906.9	957.2	707.2	758.0	760.5	760.6	766.4	780.0
Percent equipment	67.0	66.8	67.4	67.3	67.9	67.8	67.4	68.7	69.0	69.3	69.7	70.1
Inventories	310.7	333.4	328.3	343.5	369.9	382.7	326.8	320.6	315.5	322.7	329.8	333.6

<sup>1</sup> Depreciation and net stock estimates for equipment and structures are derived using the perpetual inventory method and the straight-line depreciation formula. <sup>2</sup> Represents the difference between purchases and depreciation.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82, Fixed Reproducible Tangible Wealth in the United States, 1925-85, and Survey of Current Business*, July 1987, August 1987, July 1989, August 1989, July 1990, and August 1990.

### No. 1308. Manufacturers' Shipments, Inventories, and Orders: 1950 to 1989

[In billions of dollars, except ratio. See also *Historical Statistics, Colonial Times to 1970*, series P 74-92]

YEAR	Shipments, total	Inventories, total (Dec. 31) <sup>1</sup>	Ratio of inventories to shipments <sup>2</sup>	New orders, total	Unfilled orders, total (Dec. 31)	YEAR	Shipments, total	Inventories, total (Dec. 31) <sup>1</sup>	Ratio of inventories to shipments <sup>2</sup>	New orders, total	Unfilled orders, total (Dec. 31)
1950	224	32	1.41	242	41	1970	634	101	1.91	625	106
1951	261	39	1.78	287	67	1971	671	102	1.76	672	107
1952	270	42	1.71	279	76	1972	756	108	1.58	770	120
1953	298	44	1.90	283	60	1973	875	124	1.63	913	158
1954	280	42	1.71	268	48	1974	1,018	158	1.86	1,047	187
1955	318	45	1.63	330	60	1975	1,039	160	1.77	1,023	171
1956	333	51	1.74	340	68	1976	1,186	175	1.66	1,194	180
1957	345	52	1.90	331	53	1977	1,358	188	1.58	1,381	202
1958	327	50	1.75	324	47	1978	1,523	209	1.55	1,580	259
1959	363	53	1.68	369	52	1979	1,727	239	1.61	1,771	303
1960	371	54	1.79	363	45	1980	1,853	262	1.61	1,876	326
1961	371	55	1.67	373	47	1981	2,018	280	1.74	2,015	323
1962	400	58	1.76	401	48	1982	1,960	307	1.91	1,947	310
1963	421	60	1.66	426	53	1983	2,055	308	1.82	2,089	345
1964	448	63	1.62	460	65	1984	2,254	330	1.78	2,277	368
1965	492	68	1.58	505	79	1985	2,280	322	1.72	2,291	379
1966	538	78	1.70	557	97	1986	2,260	311	1.64	2,264	382
1967	558	84	1.71	565	104	1987	2,390	326	1.60	2,424	414
1968	603	90	1.76	608	110	1988	2,612	348	1.53	2,660	464
1969	642	98	1.81	647	115	1989	2,781	365	1.61	2,827	510

<sup>1</sup> Beginning in 1982 inventories are stated at current cost and are not comparable to the book value estimates for prior years. <sup>2</sup> Ratio based on December seasonally adjusted data.

Source: U.S. Bureau of the Census, *Current Industrial Reports, Manufacturers' Shipments, Inventories, and Orders: 1982-1988*, series M3-1(88); and monthly press releases.



# No. 1309. Value of Manufactures Shipments and Inventories—Selected Industries: 1980 to 1989

[In billions of dollars. See also *Historical Statistics, Colonial Times to 1970*, series P 74-79]

SIC code	INDUSTRY	1980	1984	1985	1986	1987	1988	1989
(X)	<b>Shipments, total</b> . . . . .	<b>1,852.7</b>	<b>2,254.4</b>	<b>2,280.2</b>	<b>2,260.3</b>	<b>2,390.0</b>	<b>2,611.6</b>	<b>2,781.4</b>
(X)	<b>Durable goods industries</b> <sup>2</sup> . . . . .	<b>930.6</b>	<b>1,159.5</b>	<b>1,188.2</b>	<b>1,199.9</b>	<b>1,263.5</b>	<b>1,388.2</b>	<b>1,472.0</b>
32	Stone, clay, and glass products . . . . .	46.1	53.4	55.1	57.3	62.1	64.0	64.8
33	Primary metals . . . . .	133.9	119.1	110.5	105.6	117.1	142.2	145.4
34	Fabricated metal products . . . . .	116.2	135.9	139.6	138.0	135.0	144.1	162.6
35	Machinery, exc. electrical <sup>2</sup> . . . . .	180.7	210.4	215.2	208.5	216.6	247.2	266.0
351	Engines and turbines . . . . .	13.7	15.5	14.9	14.1	14.4	16.1	13.7
353	Construction, mining <sup>3</sup> . . . . .	33.6	27.1	27.7	25.9	25.8	29.9	33.6
357	Office and computing machines . . . . .	32.4	59.7	62.2	58.8	61.2	67.9	70.1
36	Electrical machinery <sup>2</sup> . . . . .	128.6	187.6	193.4	196.2	210.7	227.1	239.6
361-2	Elec. transmission and distribution . . . . .	21.3	24.7	24.7	24.6	25.9	27.6	29.8
363	Household appliances . . . . .	12.9	16.3	16.2	16.6	18.0	18.1	19.4
365	Radio and TV . . . . .	8.5	9.9	11.4	11.9	11.5	11.7	12.5
366	Communication equipment . . . . .	36.0	56.7	65.4	67.4	70.8	74.5	78.1
367	Electronic components . . . . .	27.6	48.0	42.9	42.0	47.1	54.7	58.1
37	Transportation equipment <sup>2</sup> . . . . .	186.5	281.2	301.4	313.8	323.0	351.9	372.9
371	Motor vehicles and parts . . . . .	104.6	179.3	188.5	191.6	197.0	219.3	232.9
372, 6	Aircraft, missiles, and parts . . . . .	58.5	78.8	90.8	101.0	103.7	107.6	113.7
38	Instruments and related products <sup>2</sup> . . . . .	44.1	59.4	61.0	61.9	66.8	72.5	77.0
381-4	Scientific and engineering equipment . . . . .	25.6	38.3	40.6	40.8	44.7	48.9	51.2
(X)	<b>Nondurable goods industries</b> <sup>2</sup> . . . . .	<b>922.1</b>	<b>1,095.0</b>	<b>1,092.0</b>	<b>1,060.5</b>	<b>126.0</b>	<b>1,223.4</b>	<b>1,309.3</b>
20	Food and kindred products <sup>2</sup> . . . . .	256.2	300.0	301.6	308.5	325.0	356.8	388.1
208	Beverages . . . . .	33.0	41.2	43.2	45.6	44.9	47.8	50.5
21	Tobacco products . . . . .	12.2	17.4	18.5	19.1	19.9	22.2	24.1
22	Textile mill products . . . . .	47.3	55.5	53.3	55.3	57.5	59.8	63.5
26	Paper and allied products <sup>2</sup> . . . . .	72.8	94.8	93.4	97.9	110.3	124.4	130.4
261-3, 6	Paper, pulp, paperboard mill products . . . . .	31.8	41.4	39.2	41.0	47.0	55.2	57.7
265	Paperboard containers . . . . .	17.2	22.6	22.7	23.1	26.8	30.6	32.3
28	Chemicals and allied products <sup>2</sup> . . . . .	162.5	198.2	197.3	197.1	212.7	240.5	255.5
281	Industrial inorganic chemicals . . . . .	57.3	61.5	59.5	54.1	59.5	67.8	68.9
283-4	Drugs, soaps, toiletries . . . . .	41.9	57.5	60.9	65.8	67.1	73.1	82.0
29	Petroleum and coal products . . . . .	198.7	189.0	179.1	124.9	124.5	124.2	138.5
30	Rubber and plastics products . . . . .	47.3	69.5	71.3	73.4	80.5	91.1	95.8
(X)	<b>Inventories, total (Dec. 31)</b> . . . . .	<b>261.7</b>	<b>329.6</b>	<b>322.4</b>	<b>311.1</b>	<b>325.7</b>	<b>348.5</b>	<b>364.8</b>
(X)	<b>Durable goods industries</b> <sup>2</sup> . . . . .	<b>172.2</b>	<b>214.5</b>	<b>209.9</b>	<b>204.2</b>	<b>212.3</b>	<b>229.0</b>	<b>241.3</b>
32	Stone, clay, and glass products . . . . .	5.8	7.1	7.0	7.0	7.1	7.4	7.7
33	Primary metals . . . . .	23.1	21.9	19.5	17.6	18.0	20.2	20.5
34	Fabricated metal products . . . . .	19.2	22.6	21.9	21.4	22.4	23.1	23.0
35	Machinery, exc. electrical <sup>2</sup> . . . . .	40.3	47.4	44.6	41.2	41.1	45.8	47.1
351	Engines and turbines . . . . .	2.6	3.0	2.6	2.5	2.5	2.8	2.7
353	Construction, mining <sup>3</sup> . . . . .	9.2	9.1	7.7	6.8	6.5	7.6	7.4
357	Office and computing machines . . . . .	8.4	13.2	11.9	10.4	10.5	11.8	12.5
36	Electrical machinery <sup>2</sup> . . . . .	25.4	37.6	37.6	37.5	38.4	39.7	39.8
361-2	Elec. transmission and distribution . . . . .	4.1	5.3	5.0	4.8	4.8	5.1	5.1
363	Household appliances . . . . .	1.8	2.7	2.5	2.6	2.7	2.7	2.8
365	Radio and TV . . . . .	1.3	1.4	1.3	1.4	1.3	1.4	1.8
366	Communication equipment . . . . .	8.8	14.7	15.6	15.8	16.1	15.6	15.5
367	Electronic components . . . . .	5.4	8.0	7.6	7.2	7.7	8.7	8.5
37	Transportation equipment <sup>2</sup> . . . . .	35.3	49.5	50.9	50.9	55.9	61.7	71.0
371	Motor vehicles and parts . . . . .	9.6	11.6	11.7	11.1	11.4	11.8	11.8
372, 6	Aircraft, missiles, and parts . . . . .	21.7	34.4	35.9	36.4	40.8	45.9	54.7
38	Instruments and related products <sup>2</sup> . . . . .	8.8	12.2	12.4	12.2	12.3	13.7	13.7
381-4	Scientific and engineering equipment . . . . .	6.0	8.9	9.1	9.2	9.2	10.1	10.2
(X)	<b>Nondurable goods industries</b> <sup>2</sup> . . . . .	<b>89.5</b>	<b>115.1</b>	<b>112.5</b>	<b>106.9</b>	<b>113.4</b>	<b>119.4</b>	<b>123.5</b>
20	Food and kindred products <sup>2</sup> . . . . .	22.4	24.4	24.0	24.0	25.2	26.9	26.9
208	Beverages . . . . .	3.8	4.4	4.6	4.8	4.5	4.5	4.2
21	Tobacco products . . . . .	3.9	6.9	6.2	5.9	5.9	5.9	5.7
22	Textile mill products . . . . .	6.5	7.5	7.0	6.9	7.2	7.3	7.8
26	Paper and allied products <sup>2</sup> . . . . .	7.7	10.1	9.9	10.2	11.1	11.9	12.5
261-3, 6	Paper, pulp, paperboard mill products . . . . .	2.9	3.8	3.8	3.7	3.9	4.3	5.0
265	Paperboard containers . . . . .	1.9	2.7	2.5	2.6	2.9	3.2	3.2
28	Chemicals and allied products <sup>2</sup> . . . . .	19.6	25.5	25.1	24.2	24.8	27.3	28.7
281	Industrial inorganic chemicals . . . . .	6.5	8.0	7.5	6.6	6.6	7.2	8.0
283-4	Drugs, soaps, toiletries . . . . .	5.9	7.5	7.7	8.1	8.7	9.3	9.6
29	Petroleum and coal products . . . . .	9.9	14.3	13.9	9.2	9.9	8.8	10.2
30	Rubber and plastics products . . . . .	6.0	8.2	8.4	8.3	9.0	10.1	10.4

X Not applicable. <sup>1</sup> Standard Industrial Classification. <sup>2</sup> Includes industries not shown separately. <sup>3</sup> Also includes material handling industries.

Source: U.S. Bureau of the Census, *Current Industrial Reports, Manufactures' Shipments, Inventories, and Orders: 1982-1988*, series M3-1.86 M3-1(88) and monthly press releases.

## No. 1310. Industrial Production Indexes, by Industry: 1970 to 1989

[1987 = 100. Based on 1977 *Standard Industrial Classification Manual*; see text, section 6. See also *Historical Statistics, Colonial Times to 1970*, series P 13 and P 18-39]

SIC <sup>1</sup> code	MAJOR INDUSTRY GROUP	1970	1975	1980	1981	1982	1983	1984	1985	1986	1988	1989
(X)	Industrial production . . . . .	61.4	66.3	84.1	85.7	81.9	84.9	92.8	94.4	95.3	105.4	108.1
(X)	Manufacturing . . . . .	56.4	61.1	78.8	80.3	76.6	80.9	89.3	91.6	94.3	105.8	108.9
(X)	Durable goods . . . . .	53.3	56.7	75.7	77.4	72.7	76.8	88.4	91.8	93.9	107.6	110.9
24	Lumber and products . . . . .	66.7	66.5	76.9	74.7	67.3	79.9	86.0	88.0	95.1	104.6	103.0
25	Furniture and fixtures . . . . .	55.6	59.4	78.5	77.8	74.0	79.6	87.9	88.1	92.5	103.6	105.3
32	Clay, glass, and stone products . . . . .	71.1	77.8	92.0	90.1	80.5	87.2	94.2	93.6	97.1	106.4	108.0
33	Primary metals . . . . .	115.2	107.2	110.8	117.5	83.2	91.0	102.4	101.8	93.8	110.3	109.2
34	Fabricated metal products . . . . .	75.9	76.7	92.5	91.1	83.2	85.5	93.3	94.5	93.8	106.2	107.2
35	Nonelectrical machinery . . . . .	32.8	38.1	60.6	65.9	63.9	64.3	80.8	86.8	90.4	113.8	121.8
36	Electrical machinery . . . . .	40.5	45.1	73.3	75.4	75.9	80.3	94.1	93.1	94.3	106.5	109.5
37	Transportation equipment . . . . .	55.5	59.7	72.3	68.7	64.8	72.7	83.1	91.8	96.9	105.0	107.2
38	Instruments . . . . .	38.8	52.4	78.8	80.8	81.8	83.2	92.1	95.7	95.1	110.1	116.4
(X)	Nondurable goods . . . . .	61.1	67.7	83.1	84.5	82.5	87.0	90.8	91.5	94.9	103.6	106.4
20	Food . . . . .	64.0	71.4	84.6	86.5	87.7	90.1	92.1	94.9	97.4	102.8	105.5
21	Tobacco products . . . . .	90.6	97.8	103.6	104.9	101.5	97.1	97.2	97.3	95.8	101.4	99.7
22	Textile mill products . . . . .	74.4	77.7	92.1	89.4	83.0	93.2	93.7	89.7	93.9	99.8	101.9
26	Paper and products . . . . .	62.9	65.9	83.1	84.6	81.6	89.0	93.5	92.2	97.1	102.9	103.2
27	Printing and publishing . . . . .	52.7	53.7	70.3	72.1	75.2	79.0	84.5	87.6	90.7	103.6	108.5
28	Chemicals and products . . . . .	55.9	69.1	87.8	89.2	81.8	87.5	91.4	91.4	94.6	105.4	108.5
29	Petroleum products . . . . .	83.9	91.5	99.0	94.1	89.3	89.6	92.8	92.6	98.9	103.4	106.1
30	Rubber and plastics products . . . . .	37.6	47.4	61.7	66.6	65.9	74.3	83.8	85.8	90.8	105.9	108.9
31	Leather and products . . . . .	208.0	182.5	161.7	156.7	145.2	140.9	126.5	112.5	102.6	99.6	103.7
(X)	Mining . . . . .	100.4	98.0	110.0	114.3	109.3	104.8	111.9	109.0	101.0	101.8	100.5
(X)	Utilities . . . . .	72.9	84.3	95.9	94.3	91.8	93.6	97.0	99.5	96.3	104.4	107.1

X Not applicable. <sup>1</sup> Standard Industrial Classifications.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

## No. 1311. Index of Manufacturing Capacity: 1950 to 1990

[1987 output = 100. Annual figures are averages of quarterly data. Capacity represents estimated quantity of output, relative to output in 1967, which the *current* stock of plant and equipment in manufacturing industries was capable of producing. Primary processing industries comprise textiles, lumber, paper and pulp, petroleum, rubber, stone, clay, glass, primary metals, fabricated metals, and a portion of chemicals. Advanced processing industries comprise chemical products, food, beverages, tobacco, apparel, furniture, printing and publishing, leather, machinery, transportation equipment, instruments, ordnance, and miscellaneous industry groups]

YEAR	Index of capacity	RELATION OF OUTPUT TO CAPACITY (percent)			YEAR	Index of capacity	RELATION OF OUTPUT TO CAPACITY (percent)		
		All manu- facturing	Primary pro- cessing	Advanced pro- cessing			All manu- facturing	Primary pro- cessing	Advanced pro- cessing
1950 . . . . .	29	83	88	80	1984 . . . . .	111	80	80	80
1960 . . . . .	44	80	80	80	1985 . . . . .	115	80	80	79
1965 . . . . .	54	90	91	89	1986 . . . . .	119	79	81	78
1970 . . . . .	71	80	80	79	1987 . . . . .	123	81	85	80
1975 . . . . .	84	73	73	74	1988 . . . . .	126	84	88	82
1980 . . . . .	98	80	78	81	1989 . . . . .	130	84	87	83
1981 . . . . .	102	79	78	79					
1982 . . . . .	105	73	69	75	1990: 1st qtr . . . . .	132	83	86	81
1983 . . . . .	108	75	75	75	2d qtr . . . . .	133	83	85	82

Source: Board of Governors of the Federal Reserve System, *Capacity Utilization in Manufacturing, Mining, Utilities, and Industrial Materials*, G.3., monthly. (Based on data from Federal Reserve Board, U.S. Dept. of Commerce, U.S. Bureau of Labor Statistics, and McGraw-Hill Information Systems Company, New York, NY; and other sources.)

## No. 1312. Large Manufacturing Companies—Adequacy of Capital Facilities: 1970 to 1989

[Percent distribution. As of July. Number of companies weighted by company assets. Based on replies to the question, "In view of the current rate of order bookings and customer inquiries, are your plant-and-equipment facilities now: Inadequate, Sufficient, or More than adequate?," as part of a quarterly survey conducted among the 1,000 largest manufacturing companies as listed by total assets]

YEAR	Inadequate	Sufficient	More than adequate	YEAR	Inadequate	Sufficient	More than adequate
1970 . . . . .	28	60	12	1984 . . . . .	8	55	37
1975 . . . . .	19	43	38	1985 . . . . .	10	52	38
1980 . . . . .	12	57	31	1986 . . . . .	8	55	37
1981 . . . . .	9	51	40	1987 . . . . .	8	71	21
1982 . . . . .	8	45	47	1988 . . . . .	12	74	14
1983 . . . . .	6	48	46	1989 . . . . .	12	69	19

Source: The Conference Board, New York, NY, *Quarterly Survey of Capital Investment and Supply Conditions in Manufacturing* (copyright).

### No. 1313. Large Manufacturing Companies—Capital Appropriations and Expenditures, by Industry: 1980 to 1989

[In millions of dollars. Based on reports submitted by the 1,000 largest manufacturing companies listed by total assets responding to The Conference Board's *Quarterly Survey of Capital Appropriations*. **Appropriations:** Authorizations by management to spend funds for new plant and equipment; **expenditures:** Cost of new plant and equipment]

INDUSTRY	APPROPRIATIONS					EXPENDITURES				
	1980	1985	1987	1988	1989	1980	1985	1987	1988	1989
<b>Total</b> .....	<b>103,579</b>	<b>108,855</b>	<b>119,168</b>	<b>157,195</b>	<b>165,366</b>	<b>87,007</b>	<b>99,358</b>	<b>103,935</b>	<b>132,448</b>	<b>146,331</b>
Food and beverages .....	6,650	8,139	10,180	20,977	24,151	6,017	6,535	9,357	16,069	15,327
Paper and allied products .....	3,515	3,200	7,308	14,608	13,197	3,839	3,951	5,407	7,535	10,754
Chemicals and allied products .....	12,160	11,528	14,272	17,009	22,907	10,906	10,610	11,624	15,717	20,242
Petroleum and coal products .....	33,597	25,823	15,841	15,847	18,498	22,044	21,866	14,298	14,461	13,687
Primary iron and steel .....	2,890	1,943	2,693	3,920	4,529	3,525	2,551	1,629	2,490	3,150
Elec. mach. and equip. ....	6,519	8,284	22,287	30,902	28,686	6,183	9,185	18,698	27,616	30,424
Machinery, except electrical .....	8,891	11,446	8,689	7,100	7,615	9,301	10,222	6,608	6,977	7,242
Motor vehicles and equipment .....	7,012	11,849	6,584	8,732	9,264	5,558	10,275	9,104	9,559	10,479
Other transportation equipment .....	3,633	5,835	6,220	6,078	7,880	3,744	5,163	5,822	5,702	7,217
Instruments and photo. equip. ....	3,153	4,008	3,913	4,257	2,900	2,873	3,786	3,536	4,815	2,816
Rubber products .....	873	4,744	1,608	2,325	4,980	803	3,439	1,361	2,385	3,085
Other manufacturing .....	14,686	12,056	19,563	25,640	20,779	12,214	11,775	16,491	19,122	21,908

Source: The Conference Board, New York, NY, *Quarterly Survey of Capital Appropriations*. (Copyright.)

### No. 1314. U.S. Share of World Exports of Manufactures: 1980 to 1988

[World exports=exports from 15 major trading countries: United States, Austria, Belgium-Luxembourg, Canada, Denmark, France, West Germany, Italy, Japan, Netherlands, Norway, Sweden, Switzerland, and United Kingdom. Percents are calculated from the values of exports of the 5 commodity groups from each of the 15 countries. Percentage shares are based on dollar values calculated at current exchange rates. Details are reported according to Revision 2 of the United Nations Standard International Trade Classification (SITC)]

PRODUCT CATEGORY	TOTAL (bil. dol.)						PERCENT OF WORLD EXPORTS					
	1980	1984	1985	1986	1987	1988	1980	1984	1985	1986	1987	1988
<b>Total</b> <sup>1</sup> .....	<b>147.2</b>	<b>148.2</b>	<b>150.7</b>	<b>155.1</b>	<b>179.4</b>	<b>225.5</b>	<b>16.8</b>	<b>17.3</b>	<b>16.7</b>	<b>14.1</b>	<b>13.9</b>	<b>15.1</b>
Machinery .....	57.1	63.0	62.7	64.0	73.0	94.6	21.4	22.8	21.4	18.3	17.2	18.9
Transport equipment .....	28.9	30.0	35.2	35.4	40.6	47.8	18.3	17.3	18.7	15.7	15.5	16.6
Chemicals .....	20.8	22.6	21.5	22.4	26.7	32.7	17.9	19.5	17.9	15.5	15.3	16.0
Basic manufactures <sup>2</sup> .....	23.3	16.4	15.0	15.2	18.0	23.8	10.1	8.7	7.9	6.8	6.9	7.8
Misc. articles <sup>3</sup> .....	17.0	16.2	16.3	18.1	21.1	26.7	16.0	15.6	14.6	11.8	12.4	13.6

<sup>1</sup> Represents manufactures exports. Excludes mineral fuel products, processed food, fats, oils, firearms of war, and ammunition. <sup>2</sup> Includes semimanufactures of various materials, such as metals, fibers, wood, glass, leather, rubber, and certain finished products of metal. <sup>3</sup> Includes mainly nondurable consumer goods and professional and scientific instruments.

Source: U.S. Dept. of Commerce, International Trade Administration, Office of Trade and Investment Analysis, *Business America*, biweekly; and *Market Share Reports*, annual; and unpublished data.

### No. 1315. Foreign Direct Investment Position in the United States for Manufacturing: 1980 and 1989

[In millions of dollars. Minus sign (-) indicates a negative position. See table 1392]

AREA OR COUNTRY	TOTAL <sup>1</sup>		FOOD PRODUCTS		CHEMICALS AND ALLIED PRODUCTS		PRIMARY AND FABRICATED METALS		MACHINERY	
	1980	1989	1980	1989	1980	1989	1980	1989	1980	1989
<b>All countries</b> <sup>2</sup> .....	<b>32,993</b>	<b>160,216</b>	<b>4,896</b>	<b>23,927</b>	<b>10,439</b>	<b>46,268</b>	<b>3,576</b>	<b>18,569</b>	<b>6,988</b>	<b>26,472</b>
Canada .....	5,227	11,586	(D)	895	116	546	801	3,900	1,173	2,789
Europe <sup>3</sup> .....	21,953	121,633	2,086	21,597	8,163	42,470	2,194	9,738	4,463	17,976
France .....	2,291	13,916	111	780	633	5,821	555	2,389	61	1,040
Netherlands .....	4,777	24,101	225	6,551	2,002	6,828	170	1,706	1,094	4,751
United Kingdom .....	6,159	50,704	1,098	10,881	2,301	16,248	524	2,228	1,097	5,733
Sweden .....	994	3,557	1	-3	67	484	148	218	613	1,959
Switzerland .....	3,116	10,107	586	(D)	1,154	3,169	264	(D)	681	1,516
West Germany .....	3,875	15,232	43	583	1,815	9,117	333	507	832	2,413
Japan .....	1,033	17,255	98	397	224	2,420	78	3,304	318	4,960
Australia, N. Zealand, S. Africa .....	87	3,396	4	380	5	-223	44	956	-2	4
Latin America .....	4,571	4,230	101	115	1,929	501	412	219	1,027	606
Middle East .....	83	416	(D)	1	1	5	(D)	(D)	(Z)	(D)
Other Africa, Asia and Pacific .....	38	1,701	(D)	543	(Z)	549	(D)	(D)	8	(D)

D Withheld to avoid disclosure of data of individual companies. Z Less than \$500,000. <sup>1</sup> Includes other manufacturing, not shown separately. <sup>2</sup> Includes other countries, not shown separately.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, October 1984 and August 1990 issues.

**No. 1316. Employment Related to Manufactured Exports, by Industry: 1977 to 1987**

[Total employment related to manufactured exports is the sum of employment directly calculated for the plants shipping the exported product, the supplying industries and service organizations and the central administrative offices and auxiliaries. For manufacturing industries, employment is limited to paid employees in manufacturing plants, while for nonmanufacturing it includes an estimate for working proprietors and partners]

INDUSTRY	EMPLOYMENT RELATED TO MANUFACTURED EXPORTS								CIVILIAN EMPLOYMENT (1,000)			
	Employees(1,000)				Percent of civilian employment				1977	1980	1985	1987
	1977	1980	1985	1987	1977	1980	1985	1987				
<b>U.S. ....</b>	<b>3,258</b>	<b>4,808</b>	<b>4,413</b>	<b>5,573</b>	<b>3.6</b>	<b>4.8</b>	<b>4.0</b>	<b>4.9</b>	<b>89,369</b>	<b>100,260</b>	<b>110,136</b>	<b>114,840</b>
Manufacturing ..	1,990	2,639	2,295	2,771	10.2	12.8	12.2	14.7	19,590	20,647	18,788	18,900
Nonmfg. ....	1,268	2,170	2,118	2,802	1.8	2.7	2.3	2.9	69,779	79,613	91,348	95,940
Trade .....	489	845	949	1,207	2.9	4.3	4.3	5.3	16,653	19,737	21,999	22,922
Business serv. .	215	575	227	317	1.3	3.3	1.1	1.4	16,750	17,245	21,139	23,048
Transp. ....	185	305	282	379	3.9	4.8	4.6	6.1	4,797	6,369	6,155	6,223
Agriculture ..	129	144	127	146	4.2	4.5	3.7	4.3	3,044	3,225	3,423	3,425
Mining .....	34	69	50	64	4.6	7.3	4.9	7.3	747	947	1,016	871
Other .....	216	233	483	689	0.8	0.7	1.3	1.7	27,788	32,090	37,616	39,451

<sup>1</sup> Includes communications and utilities.

**No. 1317. Manufacturing Establishments—Export-Related Shipments and Employment, 1977 to 1987, and by Industry, 1987**

[The export-related employment data shown do not include the jobs involved in the export of nonmanufactured goods and various services sold to foreign buyers. Thus, jobs in the manufacturing sector that relate to the export of nonmanufactured goods are excluded from the estimates. In addition, all of the indirect exports being reported are domestically produced, that is, they exclude imports. See source for further details on methodology]

SIC <sup>1</sup> code	INDUSTRY GROUP	MANUFACTURER'S SHIPMENT VALUE				MANUFACTURING EMPLOYMENT			
		Total <sup>2</sup> (bil. dol.)	Export related		Export related as per- cent of ship- ments	Total (1,000)	Export related		Export related as per- cent of total employ- ment
			Total (bil. dol.)	Direct exports <sup>3</sup> (bil. dol.)			Total (1,000)	Direct exports <sup>4</sup> (1,000)	
(X) 1977 .....		1,358.4	142.4	85.8	10.4	19,590	1,990	1,106	10.2
(X) 1980 .....		1,852.7	249.8	151.2	13.5	20,647	2,639	1,486	12.8
(X) 1981 .....		2,017.5	271.7	164.3	13.4	20,264	2,604	1,486	12.9
(X) 1983 .....		2,055.3	246.4	141.6	12.0	18,737	2,173	1,118	11.6
(X) 1984 .....		2,253.8	268.3	151.0	11.9	19,141	2,179	1,083	11.4
(X) 1985 .....		2,278.9	286.7	156.9	12.6	18,788	2,295	1,083	12.2
(X) 1986 .....		2,260.3	294.3	159.4	13.0	18,371	2,318	1,061	12.6
(X) 1987, total .....		<b>2,475.9</b>	<b>378.8</b>	<b>193.6</b>	<b>15.3</b>	<b>18,900</b>	<b>2,771</b>	<b>1,185</b>	<b>14.7</b>
20 Food and kindred products .....		329.7	17.7	12.8	5.4	1,449	68	50	4.7
21 Tobacco products .....		20.8	2.9	2.5	13.8	45	8	7	17.4
22 Textile mill products .....		62.8	5.5	2.1	8.7	672	54	18	8.1
23 Apparel, other textile products .....		64.2	2.6	1.8	4.1	1,081	30	18	2.8
24 Lumber and wood products .....		69.7	6.9	3.6	9.9	698	54	23	7.7
25 Furniture and fixtures .....		37.5	1.2	0.6	3.2	511	15	6	2.9
26 Paper and allied products .....		109.0	16.0	5.0	14.7	611	82	19	13.4
27 Printing and publishing .....		136.2	6.7	1.1	4.9	1,494	68	11	4.6
28 Chemical and allied products .....		229.5	43.7	25.6	19.1	814	139	83	17.1
29 Petroleum and coal products .....		130.4	13.3	3.3	10.2	116	10	4	9.0
30 Rubber, misc. plastics products .....		86.6	12.9	4.0	14.8	831	119	33	14.3
31 Leather, leather products .....		9.1	1.0	0.8	10.6	129	7	5	5.7
32 Stone, clay, glass products .....		61.5	4.9	1.8	8.0	524	42	14	7.9
33 Primary metal industries .....		120.2	33.4	4.7	27.8	701	192	14	27.3
34 Fabricated metal products .....		147.4	22.2	6.1	15.1	1,458	223	56	15.3
35 Machinery, except electric .....		217.7	61.5	39.1	28.3	1,844	464	276	25.1
36 Electric, electronic equipment .....		171.3	54.8	21.4	32.0	1,565	534	187	34.1
37 Transportation equipment .....		332.9	50.7	40.9	15.2	1,817	260	204	14.3
38 Instruments and related products .....		107.3	17.2	13.0	16.0	982	160	119	16.3
39 Misc. manufacturing .....		32.0	3.7	3.0	11.6	374	36	27	9.7
— Administrative and auxiliary .....		-	-	-	-	1,183	205	-	17.3

- Represents zero. X Not applicable. <sup>1</sup> Standard Industrial Classification; see text, section 13. <sup>2</sup> Includes total domestic and export shipments for all manufacturing establishments. <sup>3</sup> Includes only the value of manufactured products exported by the producing plants. <sup>4</sup> Employment is limited to paid employees in manufacturing plants producing the export product. The number of employees related to export shipments was calculated for each establishment, aggregated by industry and by States, and inflated to a level comparable to the plant value of exports reported in the official foreign trade statistics at port value.

Source of tables 1316 and 1317: U.S. Bureau of the Census, *Census of Manufactures, 1977 and 1987; and Annual Survey of Manufactures*.

**No. 1318. Export-Related Shipments and Employment of Manufacturing Establishments, by State: 1987**

[Advance data. See headnote, table 1317. Includes employees of central administrative and auxiliary offices]

REGION, DIVISION, AND STATE	MANUFACTURES SHIPMENT VALUE					MANUFACTURING EMPLOYMENT				
	Total (bil. dol.)	Export related			Export related as percent of ship- ments	Total (1,000)	Export related			Export related as percent of total employ- ment
		Total (bil. dol.)	Direct exports (bil. dol.)	Sup- porting exports (bil. dol.)			Total (1,000)	Direct exports (1,000)	Sup- porting exports (1,000)	
<b>U.S.</b> .....	<b>2,475.9</b>	<b>378.8</b>	<b>193.8</b>	<b>185.2</b>	<b>15.3</b>	<b>18,900.1</b>	<b>2,770.6</b>	<b>1,184.5</b>	<b>1,586.1</b>	<b>14.7</b>
<b>Northeast</b> .....	<b>484.0</b>	<b>75.1</b>	<b>36.8</b>	<b>38.3</b>	<b>15.5</b>	<b>4,337.1</b>	<b>666.2</b>	<b>271.8</b>	<b>394.6</b>	<b>15.4</b>
<b>N.E.</b> .....	<b>137.1</b>	<b>26.5</b>	<b>14.3</b>	<b>12.4</b>	<b>19.3</b>	<b>1,347.3</b>	<b>245.9</b>	<b>110.5</b>	<b>135.4</b>	<b>18.3</b>
ME.....	10.7	1.6	0.8	0.8	14.9	101.4	13.0	5.9	7.1	12.8
NH.....	12.2	2.6	1.2	1.5	21.7	108.0	20.8	8.4	12.4	19.3
VT.....	4.8	1.2	0.6	0.6	25.7	48.5	11.4	5.5	5.9	23.5
MA.....	62.8	11.9	6.3	5.6	19.0	591.4	109.8	47.2	62.6	18.6
RI.....	9.2	1.5	0.7	0.9	16.1	111.9	17.1	7.4	9.7	15.3
CT.....	37.4	7.7	4.7	3.0	20.7	386.1	73.8	36.1	37.7	19.1
<b>M.A.</b> .....	<b>346.9</b>	<b>48.6</b>	<b>22.5</b>	<b>25.9</b>	<b>14.0</b>	<b>2,989.8</b>	<b>420.3</b>	<b>181.1</b>	<b>259.2</b>	<b>14.1</b>
NY.....	145.7	22.0	11.8	10.1	15.1	1,269.8	187.7	83.8	103.9	14.8
NJ.....	62.5	9.6	4.0	5.6	11.6	684.3	86.8	27.3	59.5	12.7
PA.....	118.7	17.0	8.7	10.2	14.3	1,035.7	145.8	50.0	95.8	14.1
<b>Midwest</b> .....	<b>787.1</b>	<b>113.8</b>	<b>58.8</b>	<b>55.1</b>	<b>14.5</b>	<b>5,495.1</b>	<b>816.6</b>	<b>330.5</b>	<b>486.1</b>	<b>14.9</b>
<b>E.N.C.</b> .....	<b>590.5</b>	<b>87.6</b>	<b>43.2</b>	<b>44.4</b>	<b>14.8</b>	<b>4,175.6</b>	<b>636.3</b>	<b>245.3</b>	<b>391.0</b>	<b>15.2</b>
OH.....	158.6	25.8	13.0	12.8	16.3	1,096.6	176.8	69.8	107.0	16.1
IN.....	83.8	12.5	5.0	7.5	14.9	600.7	87.3	31.2	56.1	14.5
IL.....	132.2	19.0	8.7	10.3	14.4	985.0	144.6	50.1	94.5	14.7
MI.....	146.3	21.7	12.4	9.3	14.8	979.0	155.1	65.2	89.9	15.8
WI.....	69.6	8.6	4.1	4.5	12.4	514.3	72.5	29.0	43.5	14.1
<b>W.N.C.</b> .....	<b>196.6</b>	<b>26.2</b>	<b>15.6</b>	<b>10.7</b>	<b>13.3</b>	<b>1,319.5</b>	<b>180.3</b>	<b>85.2</b>	<b>95.1</b>	<b>13.7</b>
MN.....	47.6	8.0	4.7	3.3	16.8	373.5	62.3	28.2	34.1	16.7
IA.....	35.4	4.3	2.6	1.7	12.1	206.0	25.9	13.4	12.5	12.6
MO.....	59.9	8.3	5.1	3.2	13.9	417.7	56.1	26.4	29.7	13.4
ND.....	2.6	0.3	0.2	0.1	12.8	15.4	1.4	0.8	0.6	9.1
SD.....	3.9	0.5	0.3	0.2	12.3	27.3	3.5	1.6	1.9	12.8
NE.....	16.1	1.5	0.8	0.7	9.3	90.6	9.3	3.9	5.4	10.3
KS.....	31.1	3.3	1.9	1.5	10.7	189.0	21.8	10.9	10.9	11.5
<b>South</b> .....	<b>800.9</b>	<b>115.3</b>	<b>55.1</b>	<b>60.2</b>	<b>14.4</b>	<b>5,825.2</b>	<b>720.4</b>	<b>298.6</b>	<b>421.8</b>	<b>12.4</b>
<b>S.A.</b> .....	<b>373.1</b>	<b>49.8</b>	<b>24.6</b>	<b>25.1</b>	<b>13.3</b>	<b>3,097.6</b>	<b>365.3</b>	<b>142.3</b>	<b>223.0</b>	<b>11.8</b>
DE.....	10.7	1.1	0.5	0.6	10.1	66.6	8.2	2.0	6.2	12.3
MD.....	28.0	3.7	1.9	1.7	13.1	230.5	29.3	12.6	16.7	12.7
DC.....	2.1	0.2	0.1	0.1	8.3	17.0	1.0	0.3	0.7	5.9
VA.....	51.9	6.8	3.7	3.1	13.1	426.3	46.4	19.1	27.3	10.9
WV.....	11.6	2.6	1.1	1.4	22.1	83.8	13.8	4.8	9.0	16.5
NC.....	95.3	12.3	5.7	6.6	12.9	841.5	86.9	31.9	55.0	10.3
SC.....	41.2	6.6	3.2	3.4	16.0	366.2	48.1	20.8	27.3	13.1
GA.....	75.7	7.7	3.6	4.2	10.2	567.5	53.9	21.2	32.7	9.5
FL.....	56.6	8.8	4.8	4.0	15.5	498.2	77.7	29.6	48.1	15.6
<b>E.S.C.</b> .....	<b>164.9</b>	<b>22.4</b>	<b>10.3</b>	<b>12.1</b>	<b>13.6</b>	<b>1,304.4</b>	<b>145.0</b>	<b>59.3</b>	<b>85.7</b>	<b>11.1</b>
KY.....	41.8	6.0	2.9	3.1	14.3	251.5	30.5	10.7	19.8	12.1
TN.....	57.8	7.3	3.6	3.7	12.7	484.7	52.2	22.1	30.1	10.8
AL.....	40.9	5.8	2.1	3.7	14.3	348.5	42.0	18.0	24.0	12.1
MS.....	24.4	3.3	1.7	1.6	13.4	219.7	20.3	8.5	11.8	9.2
<b>W.S.C.</b> .....	<b>262.9</b>	<b>43.1</b>	<b>20.2</b>	<b>23.0</b>	<b>16.4</b>	<b>1,423.2</b>	<b>210.1</b>	<b>97.0</b>	<b>113.1</b>	<b>14.8</b>
AR.....	25.3	3.1	1.4	1.8	12.4	205.4	22.2	8.7	13.5	10.8
LA.....	50.7	7.7	3.4	4.3	15.2	160.4	19.2	8.9	10.3	12.0
OK.....	24.1	2.9	1.4	1.5	11.9	151.3	19.9	9.6	10.3	13.2
TX.....	162.8	29.4	14.0	15.4	18.1	906.1	148.8	69.8	79.0	16.4
<b>West</b> .....	<b>404.3</b>	<b>74.6</b>	<b>42.8</b>	<b>31.7</b>	<b>18.5</b>	<b>3,242.9</b>	<b>565.5</b>	<b>281.8</b>	<b>283.7</b>	<b>17.4</b>
<b>Mt.</b> .....	<b>73.6</b>	<b>12.3</b>	<b>5.8</b>	<b>6.4</b>	<b>16.7</b>	<b>596.6</b>	<b>99.6</b>	<b>43.9</b>	<b>55.7</b>	<b>16.7</b>
MT.....	3.5	0.5	0.1	0.4	14.2	20.1	1.9	0.4	1.5	9.5
ID.....	7.0	1.2	0.8	0.4	17.0	52.9	8.8	4.8	4.0	16.6
WY.....	2.1	0.2	-	0.1	9.0	7.9	0.7	0.2	0.5	8.9
CO.....	23.2	3.3	1.8	1.4	14.0	183.7	28.6	14.5	14.1	15.6
NM.....	4.2	0.7	0.2	0.5	16.3	34.7	3.9	1.2	2.7	11.2
AZ.....	20.8	4.8	2.1	2.7	23.2	184.7	40.3	16.2	24.1	21.8
UT.....	10.3	1.3	0.6	0.7	12.9	88.9	11.9	4.7	7.2	13.4
NV.....	2.5	0.3	0.2	0.2	13.8	23.7	3.5	1.9	1.6	14.8
<b>Pac.</b> .....	<b>330.7</b>	<b>62.3</b>	<b>37.0</b>	<b>25.3</b>	<b>18.8</b>	<b>2,646.3</b>	<b>465.9</b>	<b>237.9</b>	<b>228.0</b>	<b>17.6</b>
WA.....	46.5	13.6	10.8	2.8	29.3	309.7	71.3	51.5	19.8	23
OR.....	25.4	4.0	2.1	1.8	15.6	203.0	31.5	16.4	15.1	15.5
CA.....	252.7	43.4	23.0	20.5	17.2	2,100.6	357.7	165.6	192.1	17
AK.....	2.7	1.0	0.9	0.1	37.8	11.0	4.4	4.0	0.4	40
HI.....	3.4	0.3	0.2	0.1	9.2	22.0	1.0	0.4	0.6	4.5

- Represents zero.

Source: U.S. Bureau of the Census, *Exports from Manufacturing Establishments AR87-1*.

## No. 1319. Beverage Industry—Summary: 1970 to 1988

YEAR AND ITEM	Unit	Total	Malt beverages	Malt	Wine, brandy, brandy spirits	Distilled liquor, exc. brandy	Soft drinks (bottled, canned)	Flavoring, extracts, sirup
<b>1970: Employees</b>	1,000	228	57	2	9	21	129	11
Payroll	Mil. dol.	1,884	616	19	71	171	916	91
Value added by manufacture	Mil. dol.	6,144	2,028	58	258	887	2,121	792
Value of shipments	Mil. dol.	12,373	3,822	210	591	1,758	4,631	1,361
<b>1980: Employees</b>	1,000	199	43	2	11	14	118	11
Payroll	Mil. dol.	3,646	1,122	40	191	253	1,850	191
Value added by manufacture	Mil. dol.	13,708	3,639	162	811	1,849	5,348	1,898
Value of shipments	Mil. dol.	33,041	9,362	680	2,189	3,389	13,909	3,513
<b>1985: Employees</b>	1,000	183	40	2	13	10	106	12
Payroll	Mil. dol.	4,624	1,358	44	297	268	2,345	314
Value added by manufacture	Mil. dol.	19,293	5,681	162	1,063	1,691	7,587	3,108
Value of shipments	Mil. dol.	43,243	12,216	571	2,763	3,495	18,358	4,840
<b>1987: Employees</b>	1,000	161	32	1	14	9	96	9
Payroll	Mil. dol.	4,499	1,355	44	329	240	2,277	254
Value added by manufacture	Mil. dol.	22,704	7,285	154	1,351	2,055	8,574	3,285
Value of shipments	Mil. dol.	47,422	13,619	531	3,179	3,441	22,006	4,646
<b>1988: Employees</b>	1,000	159	32	1	14	8	95	8
Payroll	Mil. dol.	4,552	1,317	43	373	237	2,362	221
Value added by manufacture	Mil. dol.	24,009	7,451	178	1,710	2,039	9,122	3,509
Value of shipments	Mil. dol.	49,722	13,871	613	3,528	3,469	23,310	4,931

Source: U.S. Bureau of the Census, *Annual Survey of Manufactures and Census of Manufactures, 1987*.

## No. 1320. Alcoholic Beverages—Summary: 1970 to 1989

[For fiscal years ending in year shown; see text, section 9. Includes Puerto Rico. Excludes imports. See *Historical Statistics, Colonial Times to 1970*, series P 235 for beer production, and P 236a for distilled spirits]

ITEM	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>Beer: Breweries operated</b>	Number	154	86	82	92	96	103	103	120	183	231
Production	Mil. bbl.	135	193	194	196	193	194	194	196	197	198
Value of shipments (SIC 2082)	Mil. dol.	3,822	9,362	11,183	11,798	11,868	12,216	12,678	13,619	13,871	(NA)
Tax-paid withdrawals	Mil. bbl.	123	172	176	178	176	175	177	178	178	179
Stocks on hand, June 30	Mil. bbl.	15	15	14	15	14	14	14	14	14	14
Per capita consumption	Gallons	(NA)	24.5	24.4	24.3	23.9	23.7	24.0	23.7	(NA)	(NA)
<b>Distilled spirits:</b>											
Production facilities operated	Number	140	143	121	121	112	117	117	102	105	119
Warehouses operated	Number	274	200	202	193	202	214	216	211	186	191
Production, total	Mil. tax gal.	355	236	217	181	134	117	102	90	99	135
Whisky	Mil. tax gal.	160	87	96	80	77	65	54	42	38	75
Tax-paid withdrawals, total	Mil. tax gal.	256	330	312	306	301	306	265	271	255	258
Whisky	Mil. tax gal.	112	42	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Stocks on hand, June 30, total	Mil. tax gal.	1,091	696	654	640	636	588	546	508	456	456
Whisky	Mil. tax gal.	960	566	540	523	490	467	445	409	370	361
Bottled for consumption, total	Mil. wine gal.	312	392	375	377	368	371	328	337	317	312
Whisky	Mil. wine gal.	192	165	153	154	142	138	121	119	111	109
Per capita	Wine gal.	(NA)	2.0	1.9	1.8	1.8	1.7	1.6	1.6	(NA)	(NA)
<b>Still wines: Production</b>	Mil. wine gal.	713	982	546	813	684	622	667	677	538	611
Distilling materials	Mil. wine gal.	(NA)	184	138	223	169	148	149	155	119	122
Tax-paid withdrawals	Mil. wine gal.	204	340	365	367	378	414	441	451	451	409
Stocks on hand, June 30	Mil. wine gal.	207	486	519	596	577	602	601	618	570	538
Per capita	Wine gal.	(NA)	2.1	2.2	2.2	2.3	2.4	2.3	2.2	(NA)	(NA)
<b>Effervescent wines:</b>											
Production	Mil. wine gal.	20.0	26.8	30.6	36.6	34.6	32.0	32.1	29.2	29.8	30.9
Tax-paid withdrawals	Mil. wine gal.	17.1	24.1	26.5	31.7	31.9	30.9	31.4	31.2	29.2	27.0
Stocks on hand, June 30	Mil. wine gal.	8.1	11.9	17.6	21.5	20.5	21.3	19.3	18.7	18.2	19.4
Per capita	Wine gal.	0.15	0.17	0.22	0.22	0.21	(NA)	(NA)	(NA)	(NA)	(NA)
Of domestic output	Wine gal.	0.13	0.12	0.17	0.17	0.17	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. <sup>1</sup> Barrels of 31 wine gallons (see footnote 8). <sup>2</sup> Source: U.S. Bureau of the Census, *Census of Manufactures, 1977, 1982 and 1987*, and *Annual Survey of Manufactures*. <sup>3</sup> Source: U.S. Dept. of Commerce, International Trade Administration. Based on resident population as of July 1, including Armed Forces abroad. <sup>4</sup> Excludes alcohol produced for industrial use. <sup>5</sup> A tax gallon for spirits of 100 proof or over is equivalent to the proof gallon; for spirits of less than 100 proof to the wine gallon. (See footnote 8.) A proof gallon is the alcoholic equivalent of a U.S. gallon at 60° F, containing 50 percent of ethyl alcohol by volume. <sup>6</sup> Includes ethyl alcohol. <sup>7</sup> A wine gallon is the U.S. gallon equivalent to the volume of 231 cubic inches. <sup>8</sup> Production represents total amount removed from fermenters, including distilling material, and includes increase after fermentation (by amelioration, sweetening, and addition of wine spirits). <sup>9</sup> Includes special natural wines. <sup>10</sup> Excludes distilling materials. <sup>11</sup> Includes champagne, other effervescent wines, and artificially carbonated wines.

Source: Except as noted, U.S. Bureau of Alcohol, Tobacco, and Firearms, *Alcohol and Tobacco Summary Statistics*, annual.

**No. 1321. Food Manufacturing Industry—Summary: 1970 to 1989**

[Covers manufacturers of food and kindred products (Standard Industrial Classification Code 20); based on various editions of the Standard Industrial Classification Manual, see text, section 13]

ITEM	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
Total employees <sup>1</sup>	1,000	1,786	1,708	1,636	1,615	1,612	1,603	1,609	1,620	1,631	1,645
Production workers	1,000	1,207	1,175	1,126	1,114	1,120	1,118	1,131	1,148	1,158	1,177
Avg. hourly earnings, prod. workers	Dollars	3.16	6.85	7.92	8.19	8.39	8.57	8.75	8.93	9.12	9.38
Salaries and wages	Bil. dol.	11.7	23.2	26.1	26.6	27.4	28.1	28.6	30.2	31.4	(NA)
Value added by manufacture <sup>2</sup>	Bil. dol.	32.3	75.5	88.4	93.4	98.0	104.1	112.2	121.8	128.8	(NA)
Value of shipments <sup>3</sup>	Bil. dol.	98.5	256.2	280.5	287.1	300.0	301.6	308.5	329.4	351.5	(NA)
Total assets	Bil. dol.	23.8	48.6	58.6	61.5	64.6	69.6	(NA)	43.2	(NA)	(NA)
Capital expenditures, new <sup>4</sup>	Bil. dol.	2.1	5.8	6.7	5.8	6.4	7.0	7.0	7.2	7.5	(NA)
Corporate profits before taxes <sup>5</sup>	Bil. dol.	4.8	13.0	13.3	14.8	15.5	20.9	21.1	24.0	30.3	24.8
Corporate profits after taxes <sup>5</sup>	Bil. dol.	2.6	8.2	8.4	9.4	9.8	12.8	13.3	15.6	20.7	16.5
Ratio of profits to stockholders' equity <sup>6</sup>	Percent	10.8	14.7	13.0	12.2	13.3	15.3	16.2	17.4	21.0	17.1
Profits per dollar of sales <sup>6</sup>	Cents	2.5	3.4	3.1	3.3	3.3	4.1	4.2	4.6	5.5	4.2

NA Not available. <sup>1</sup> Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly. <sup>2</sup> See footnote 7, table 1302. <sup>3</sup> See footnote 8, table 1302. <sup>4</sup> Includes expenditures for plants in operation and plants under construction but not yet in operation. <sup>5</sup> Source: Through 1980, U.S. Federal Trade Commission, thereafter U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*. Data are not necessarily comparable from year to year due to changes in accounting procedures, industry classifications, sampling procedures, etc.; for detail, see source. <sup>6</sup> Return on equity and after tax profit rates are averages of quarterly figures at annual rates.

Source: Except as noted, U.S. Bureau of the Census, 1982, and 1987 *Census of Manufactures*, and *Annual Survey of Manufactures*.

**No. 1322. Tobacco Products—Production, Consumption, and Expenditures: 1970 to 1989**

[Production data are for calendar years. Excludes cigars produced in customs bonded manufacturing warehouses. See also *Historical Statistics, Colonial Times to 1970*, series P 239-241]

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Production:													
Cigarettes	Billions	583	651	714	737	694	667	669	665	658	689	695	677
Nonfilter tip	Billions	116	80	54	54	47	43	39	36	33	30	28	24
Regular	Billions	54	36	23	24	21	19	18	16	15	14	12	11
King	Billions	62	44	30	30	26	24	21	20	18	16	16	13
Filter tip	Billions	467	571	661	683	647	625	630	629	625	660	667	654
Long and king	Billions	362	404	439	445	404	384	380	378	373	397	400	392
Extra long	Billions	105	167	222	237	243	241	251	252	252	263	267	261
Cigars	Billions	8.4	5.7	4.0	4.0	3.7	3.6	3.5	3.1	2.9	2.1	2.0	2.0
Tobacco <sup>1</sup>	Mil. lb.	165	152	163	163	163	162	163	158	147	143	142	141
Per capita consumption:													
All products	Lb. <sup>3</sup>	9.7	9.1	7.9	7.6	7.5	7.2	6.9	6.8	6.6	6.3	6.1	5.8
Cigarettes	1,000	4.0	4.1	3.8	3.8	3.7	3.5	3.4	3.4	3.3	3.2	3.1	2.9
Cigars <sup>4</sup>	Number	60	39	24	23	22	21	20	18	17	15	14	14
Expenditures (consumer)	Mil. dol.	11.5	15.5	21.0	23.0	25.3	28.7	30.7	32.2	33.7	35.4	37.8	40.4
Cigarettes	Mil. dol.	10.4	14.3	19.4	21.2	23.5	26.8	28.8	30.3	31.8	33.6	35.9	38.3
Cigars	Mil. dol.	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.7
Other	Mil. dol.	0.4	0.6	0.9	1.0	1.1	1.2	1.2	1.2	1.2	1.3	1.4	1.4

<sup>1</sup> Smoking and chewing tobaccos and snuff output. <sup>2</sup> Based on U.S. Bureau of the Census estimated population 18 years old and over, as of July 1, including Armed Forces abroad. <sup>3</sup> Unstemmed processing weight equivalent. <sup>4</sup> Weighing over 3 pounds per 1,000.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Tobacco Situation and Outlook*, quarterly.

**No. 1323. Mill Consumption of Natural Fibers: 1970 to 1989**

[In million of pounds. See *Historical Statistics, Colonial Times to 1970*, series P 229 and P 230, for wool and silk]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989, prel.
Cotton <sup>1</sup>	3,854	3,027	3,077	3,036	2,715	2,488	2,808	2,716	2,813	3,259	3,753	3,520	3,976
Wool <sup>2</sup>	240	110	117	123	139	116	141	142	117	137	143	133	127
Flax	6	3	5	2	4	8	5	7	4	4	3	4	3
Silk	2	1	2	1	2	2	2	1	2	1	1	1	1

<sup>1</sup> Reported by U.S. Bureau of the Census. For American cotton, tare as reported by Crop Reporting Board is deducted. For foreign cotton, 20 pounds deducted. <sup>2</sup> Reported by U.S. Bureau of the Census. Excludes consumption in cotton and other spinning systems and consumption in batting and felt manufacture.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Cotton and Wool Outlook and Situation*, annual.

### No. 1324. Cotton, Wool, and Manmade Fibers—Consumption and Distribution in Selected Consumer Products: 1980 to 1988

[Represents products manufactured by U.S. mills. Excludes glass fiber]

END-USE AND YEAR	COTTON			WOOL		MAN-MADE FIBERS					
	Total (mil. lb.)	Total (mil. lb.)	Percent end-use	Total (mil. lb.)	Percent end-use	Total (mil. lb.)	Percent end-use	Cellulosic <sup>1</sup>		Non-cellulosic <sup>2</sup>	
								Total (mil. lb.)	Percent end-use	Total (lb.)	Percent end-use
<b>Total:</b>											
1980	11,205	3,125	27.9	167	1.5	7,913	70.6	748	6.7	7,165	63.9
1983	11,265	2,933	26.0	204	1.8	8,128	72.2	576	5.2	7,552	67.0
1984	11,310	3,056	27.0	231	2.1	8,023	70.9	576	5.1	7,447	65.8
1985	11,538	3,176	26.8	194	1.7	8,168	71.5	542	4.7	7,626	66.8
1986	12,500	3,509	27.3	216	1.7	8,775	71.0	606	4.9	8,169	66.1
1987	13,720	4,327	31.5	226	1.6	9,167	66.7	587	4.2	8,580	62.5
1988	13,458	3,962	29.4	211	1.6	9,285	69.0	613	4.6	8,672	64.4
<b>Apparel:</b>											
1980	4,696	1,652	35.2	125	2.7	2,919	62.1	297	6.3	2,622	55.8
1983	4,565	1,646	36.0	153	3.4	2,766	60.6	228	5.0	2,538	55.6
1984	4,389	1,718	39.1	171	3.9	2,500	57.0	239	5.5	2,261	51.5
1985	4,282	1,766	41.2	141	3.3	2,375	55.5	208	4.9	2,167	50.6
1986	4,758	1,961	41.2	159	3.3	2,638	55.5	250	5.3	2,388	50.2
1987	5,336	2,541	47.7	157	2.9	2,638	49.4	236	4.4	2,402	45.0
1988	5,033	2,384	47.4	142	2.8	2,507	49.8	276	5.5	2,231	44.3
<b>Home furnishings:</b>											
1980	1,717	787	45.8	15	0.9	915	53.3	169	9.9	746	43.4
1983	1,775	798	45.0	19	1.0	958	54.0	134	7.5	824	46.5
1984	1,849	863	46.7	21	1.1	965	52.2	133	7.2	832	45.0
1985	1,895	912	48.1	18	0.9	965	51.0	125	6.6	840	44.4
1986	1,938	1,020	52.6	18	0.9	900	46.5	131	6.8	769	39.7
1987	2,193	1,263	57.6	18	0.8	912	41.6	139	6.3	773	35.3
1988	2,082	1,113	53.4	16	0.8	953	45.8	130	6.2	823	39.6
<b>Floor coverings:</b>											
1980	1,926	15	0.8	10	0.5	1,901	98.7	-	-	1,901	98.7
1983	2,207	14	0.6	13	0.6	2,180	98.8	1	0.1	2,179	98.7
1984	2,287	14	0.6	14	0.6	2,259	98.8	1	0.1	2,258	98.7
1985	2,585	15	0.6	12	0.5	2,538	98.9	1	-	2,537	98.9
1986	2,800	16	0.6	17	0.6	2,767	98.8	2	0.1	2,765	98.7
1987	2,975	18	0.6	23	0.8	2,934	98.6	1	-	2,933	98.6
1988	3,060	15	0.5	22	0.7	3,023	98.8	1	-	3,022	98.8
<b>Exports of domestic products:</b>											
1980	617	259	42.0	6	1.0	352	57.0	31	5.0	321	52.0
1983	284	93	32.7	5	1.8	186	65.5	17	6.0	169	59.5
1984	280	85	30.4	4	1.4	191	68.2	16	5.7	175	62.5
1985	328	108	33.0	10	3.0	210	64.0	16	4.9	194	59.1
1986	384	143	37.2	9	2.4	232	60.4	19	4.9	213	55.5
1987	406	127	31.3	15	3.7	264	65.0	22	5.4	242	59.6
1988	456	124	27.2	19	4.2	313	68.6	25	5.5	288	63.1
<b>Industrial: <sup>3</sup></b>											
1980	2,249	412	18.3	11	0.5	1,826	81.2	251	11.2	1,575	70.0
1983	2,434	382	15.7	14	0.6	2,038	83.7	196	8.0	1,842	75.7
1984	2,505	376	15.0	21	0.8	2,108	84.2	187	7.5	1,921	76.7
1985	2,468	375	15.1	13	0.5	2,080	84.4	192	7.9	1,888	76.5
1986	2,620	369	14.1	13	0.5	2,238	85.4	204	7.8	2,034	77.6
1987	2,810	378	13.5	13	0.5	2,419	86.0	189	6.6	2,230	79.4
1988	2,827	326	11.6	12	0.4	2,489	88.0	181	6.4	2,308	81.6

- Represents zero. <sup>1</sup> Rayon and acetate. <sup>2</sup> Nylon, polyester, acrylic, olefin, except as noted. <sup>3</sup> Includes consumer-type products.

Source: Fiber Economics Bureau, Inc., Roseland, NJ, *Textile Organon*, monthly. (Copyright.)

### No. 1325. U.S. Exports and Imports of Textiles and Apparel Products: 1980 to 1989

[In millions of dollars. Excludes glass fibers, linoleum, rubber and leather apparel and clothing donated for charity. Minus sign (-) indicates deficit]

PRODUCT	EXPORTS					GENERAL IMPORTS				
	1980	1985	1987	1988	1989	1980	1985	1987	1988	1989
<b>Total</b>	<b>4,458</b>	<b>2,712</b>	<b>3,619</b>	<b>4,316</b>	<b>4,875</b>	<b>8,139</b>	<b>18,309</b>	<b>24,812</b>	<b>25,107</b>	<b>28,483</b>
Textile mill products	3,457	2,112	2,671	3,046	3,122	2,372	4,714	6,229	5,980	6,287
Yarn and thread	642	569	526	619	693	168	506	679	644	670
Cotton broad woven fabric	546	203	292	286	367	433	837	1,293	984	1,120
Other broad woven and knit fabric	809	477	579	544	602	784	1,353	1,564	1,619	1,435
Narrow fabric	106	160	174	185	132	43	93	141	147	169
Special fabric	709	284	570	704	659	299	361	470	497	570
Made-up articles	318	222	283	335	286	362	1,019	1,385	1,474	1,139
Textile floor coverings	327	197	247	373	383	283	545	697	615	614
Apparel	1,001	600	948	1,270	1,753	5,767	13,595	18,583	19,127	22,196

Source: U.S. Bureau of the Census, *U.S. General Imports, Schedule A Commodity by Country*, Report FT135, and *U.S. Exports, Schedule E Commodity by Country*, Report FT410, monthly, and *U.S. Merchandise Trade: Exports, General Imports, and Imports for Consumption*, Report FT925, monthly.



**No. 1326. Male and Female Clothing—Production: 1980 to 1988**[In millions of units, except as indicated. See also *Historical Statistics, Colonial Times to 1970*, series P 242 and 243]

ITEM	1980	1985	1988	ITEM	1980	1985	1988
<b>MALE CLOTHING</b>				<b>FEMALE CLOTHING</b>			
Suits (men's) . . . . .	14.6	10.8	11.5	Blouses <sup>2</sup> and shirts (mil.do.) . . . . .	25.6	21.3	16.2
Suits (boys') . . . . .	3.4	2.5	3.4	Dresses . . . . .	176.0	151.0	156.2
Trousers (men's) . . . . .	125.1	116.5	107.2	Suits . . . . .	17.6	12.3	8.6
Coats <sup>2</sup> . . . . .	17.9	20.6	17.1	Slacks . . . . .	159.8	160.1	148.5
Woven shirts, (men's) <sup>3</sup> (mil.do.) . . . . .	13.1	12.7	12.8	Jeans . . . . .	98.2	90.1	80.3
Slacks . . . . .	89.0	48.8	43.4	Skirts . . . . .	98.9	95.4	104.7
Jeans . . . . .	242.7	210.5	186.9	Coats . . . . .	17.0	10.7	11.2
Work shirts (mil.do.) . . . . .	3.6	3.5	4.5	Knit outerwear:			
				Sweaters (mil. doz.) . . . . .	4.1	7.6	5.4
				Sport shirts <sup>3</sup> (mil. doz.) . . . . .	10.0	9.6	9.6

<sup>1</sup> Includes uniform suits and coats. <sup>2</sup> Includes men's and boys' coats. <sup>3</sup> Includes knit and woven dress and woven sport.  
<sup>4</sup> Includes only woven blouses. <sup>5</sup> Includes pant suits. <sup>6</sup> Includes blouses.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA23A.**No. 1327. Nonrubber Footwear—Summary: 1970 to 1988**[In millions of pairs, except as indicated. See *Historical Statistics, Colonial Times to 1970*, series P 260-261, for men's and women's shoes]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988, prel.
<b>Apparent consumption</b> . . . . .	801.7	727.9	734.5	729.8	829.7	911.9	1,020.1	1,096.4	1,168.7	1,146.5	1,114.5
Production, shoes and slippers . . . . .	562.3	413.1	386.3	372.0	359.1	339.2	303.2	265.1	240.9	230.0	235.1
Percent exported . . . . .	0.4	1.1	3.3	3.0	2.5	2.2	2.9	4.3	5.2	9.1	7.8
Value (bil. dol.) . . . . .	2.9	3.1	4.7	4.5	4.8	4.8	4.0	4.0	3.6	3.6	3.6
Shoes, sandals, playshoes (production) <sup>1</sup> . . . . .	460.8	339.1	323.5	302.2	305.1	281.5	243.8	210.4	185.0	179.7	179.9
Exports . . . . .	(NA)	4.6	12.8	11.2	8.9	7.5	8.9	11.3	12.5	21.0	18.4
Imports . . . . .	241.5	319.4	361.0	369.0	479.5	580.2	725.8	842.6	940.4	937.5	902.9
Percent of total consumption . . . . .	30.1	43.9	49.1	50.6	57.8	63.6	71.1	76.9	80.5	81.8	81.0

NA Not available. <sup>1</sup> Beginning 1980, includes items not shown separately.Source: U.S. Bureau of the Census, *Current Industrial Reports*, series M31A.**No. 1328. Chemicals and Allied Products—Industry Summary: 1972 to 1988**

[In millions of dollars, except as noted]

ITEM	1972	1977	1982	1983	1984	1985	1986	1987	1988
Employment, total (1,000) . . . . .	837	880	873	851	843	826	802	814	830
Salaries and wages . . . . .	8,731	13,839	20,836	21,411	22,665	23,345	23,711	25,016	26,396
Production workers (1,000) . . . . .	825	544	509	496	491	476	458	463	475
Work-hours (million) . . . . .	1,054	1,090	1,004	981	979	951	928	945	979
Value added . . . . .	32,414	56,721	77,315	86,473	94,728	95,258	100,013	120,778	137,879
Value of shipments . . . . .	57,350	118,154	170,737	183,206	198,233	197,311	197,091	229,546	259,699
Assets, total . . . . .	38,812	65,300	95,125	102,226	106,331	111,945	(NA)	125,482	(NA)
Rents, total . . . . .	293	513	644	734	779	767	(NA)	973	(NA)
Export value <sup>2</sup> . . . . .	4,183	10,700	20,388	20,099	22,626	21,797	22,562	26,090	(NA)
Import value <sup>2</sup> . . . . .	1,749	4,414	7,572	9,314	11,910	12,708	13,191	14,318	(NA)

NA Not available. <sup>1</sup> Value of products and services sold by 28 group industries. <sup>2</sup> Source: U.S. International Trade Administration, *U.S. Industrial Outlook*, annual.Source: Except as noted, U.S. Bureau of the Census, *Census of Manufactures, 1972, 1977, 1982, and 1987*; and *Annual Survey of Manufactures*.**No. 1329. Rubber—New Supply, Distribution, and Stocks: 1970 to 1988**

[In thousands of long tons. Natural rubber refers to dry weights of all types, including liquid latex, guayule, etc. Synthetic comprises SBR (including weight of oil content), neoprene, butyl, butadiene-acrylonitrile, polyisobutylene, chlorosulfonated polyethylene, and polysulfide, silicone, acrylic, stereo, and fluorocarbon rubbers. Reclaimed comprises both natural and synthetic]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
<b>New supply</b> . . . . .	3,042	2,826	3,816	3,137	3,147	2,649	2,996	3,308	3,057	(NA)	(NA)	(NA)
Domestic production <sup>1</sup> . . . . .	2,396	2,077	2,889	2,294	2,277	1,861	2,030	2,248	1,993	2,140	2,296	2,425
Synthetic . . . . .	2,197	1,958	2,764	2,209	2,190	1,788	1,956	2,177	1,932	2,093	2,261	2,393
Imports <sup>2</sup> . . . . .	644	749	927	843	870	788	966	1,060	1,064	(NA)	(NA)	(NA)
Natural . . . . .	550	658	769	650	700	640	766	793	779	(NA)	(NA)	(NA)
Exports <sup>1</sup> . . . . .	324	250	437	494	405	338	304	382	345	390	517	571
Synthetic . . . . .	299	226	416	472	389	325	289	376	343	387	514	569
Stocks, end of year <sup>1</sup> . . . . .	645	528	370	279	299	235	220	248	244	285	273	304

NA Not available. <sup>1</sup> Includes reclaimed and synthetic. <sup>2</sup> Natural, synthetic and reclaimed.Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA30A.

## No. 1330. Iron and Steel Industry—Summary: 1980 to 1989

[The universe for financial data for 1988 represents companies who produced 75 percent of the reported raw steel production. The financial data represents the operations of the steel segment of companies. Minus sign (-) indicates net loss]

ITEM	Unit	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Steel mill products, apparent supply	Mil. tons <sup>1</sup>	95.2	105.4	76.4	83.5	98.9	96.4	90.0	95.9	102.7	96.8
Net shipments	Mil. tons	83.9	88.5	61.6	67.6	73.7	73.0	70.3	76.7	83.8	84.1
Exports	Mil. tons	4.1	2.9	1.8	1.2	1.0	1.0	1.0	1.1	2.1	4.6
Imports	Mil. tons	15.5	19.9	16.7	17.1	26.2	24.3	20.7	20.4	20.9	17.3
Scrap consumed	Mil. tons	88.6	68.3	43.7	49.0	51.8	53.2	49.7	51.7	56.3	52.6
Scrap inventory	Mil. tons	6.9	7.1	5.5	5.0	4.4	4.0	3.4	3.8	3.5	3.5
Iron and steel products: Exports	Mil. tons	5.1	3.8	2.6	1.8	1.7	1.6	1.5	1.7	2.8	5.4
Imports	Mil. tons	17.9	22.6	18.8	19.3	29.5	27.6	24.2	23.8	25.7	22.1
Capacity by steelmaking process	Mil. net tons	153.7	154.3	154.0	150.6	135.3	133.6	127.9	112.2	112.0	115.9
Revenue	Bil. dol.	37.7	43.8	28.7	25.0	30.3	28.4	25.0	27.1	32.7	32.3
Net income	Bil. dol.	0.7	1.7	-3.4	-2.2	(-2)	-1.8	-4.1	1.0	-0.6	1.5
Stockholders' equity	Bil. dol.	14.5	15.4	11.3	8.2	9.4	6.9	2.4	3.0	2.2	2.5
Total assets	Bil. dol.	30.8	31.7	27.9	25.5	26.2	24.0	21.0	21.9	24.2	24.6
Capital expenditures	Bil. dol.	2.7	2.4	2.3	1.9	1.2	1.6	0.9	1.2	1.8	2.3
Working capital ratio <sup>2</sup>	Ratio	1.6	1.7	1.5	1.3	1.4	1.3	1.6	1.5	1.7	1.7
Inventories	Bil. dol.	4.7	5.4	4.0	3.3	4.2	3.5	3.0	3.4	3.8	4.1
Average employment	1,000	399	391	289	243	236	208	175	183	169	169
Hours worked	Million	758	753	526	475	474	419	358	354	363	360
Index of output, all employees <sup>3</sup>	1977=100	103	112	91	116	131	139	142	152	168	165
Producer price indexes:											
Iron and steel, total	1982=100	90.0	98.5	100.0	101.3	105.3	104.8	101.1	104.6	115.7	119.1
Steel mill products	1982=100	86.6	96.6	100.0	100.9	104.7	104.7	99.8	102.3	110.7	114.5
Blast and electric furnace products	1982=100	97.1	99.9	100.0	97.7	97.3	95.6	94.2	97.1	119.6	129.4
Iron ore	1982=100	87.8	96.3	100.0	101.2	101.2	97.5	91.5	84.2	82.8	82.8
Scrap, iron and steel	1982=100	140.9	140.6	100.0	107.4	123.7	112.6	108.6	128.4	177.1	173.7
Foundry and forge shop products	1982=100	89.7	95.4	100.0	101.6	104.4	105.2	105.2	105.7	109.6	114.6

<sup>2</sup> Less than \$50 million. <sup>1</sup> In millions of short tons. <sup>2</sup> Current assets to current liabilities. <sup>3</sup> Index of output per employee hour. <sup>4</sup> Source: U.S. Bureau of Labor Statistics, *Producer Price Indexes*, monthly and annual.

Source: Except as noted, American Iron and Steel Institute, Washington, DC, *Annual Statistical Report*. (Copyright.)

## No. 1331. Mill and Foundry Products—Shipments: 1980 to 1989

ITEM	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>Ferrous castings (1,000 sh. tons):<sup>1</sup></b>									
Gray iron castings	11,799	8,215	9,247	10,520	8,701	8,620	8,606	8,512	7,490
Malleable iron castings	450	284	291	360	376	320	318	364	283
Steel castings	1,878	1,017	729	940	939	826	830	1,013	1,137
<b>Nonferrous castings (1,000 sh. tons):<sup>2,3</sup></b>									
Copper and copper-base alloy	285	222	249	252	235	239	238	250	240
Aluminum and aluminum-base alloy	845	803	949	1,116	1,114	1,138	1,116	1,158	1,100
Zinc and zinc-base alloy	243	208	245	272	255	248	240	244	236
Magnesium and magnesium-base alloy	13	9	13	14	12	20	11	12	12
Lead and lead-base alloy die	23	19	28	25	23	26	24	26	23
<b>Copper-based products (mil. lb.):</b>	<b>5,820</b>	<b>4,774</b>	<b>4,827</b>	<b>5,283</b>	<b>4,657</b>	<b>4,588</b>	<b>5,074</b>	(NA)	(NA)
Brass mill products	2,467	2,014	2,116	2,717	2,363	2,318	2,624	(NA)	(NA)
Copper wire mill products	2,783	2,316	2,213	2,062	1,824	1,792	1,922	(NA)	(NA)
Brass and bronze foundry products	570	444	498	504	470	478	528	(NA)	(NA)
<b>Aluminum mill products (mil. lb.):<sup>4</sup></b>	<b>10,485</b>	<b>9,116</b>	<b>10,624</b>	<b>11,078</b>	<b>11,092</b>	<b>11,416</b>	<b>12,234</b>	<b>12,273</b>	<b>12,304</b>
Plate, sheet, and foil	6,692	6,060	7,171	7,195	7,255	7,490	8,245	8,333	8,499
Extruded shapes and tubing	2,329	1,961	1,980	2,583	2,794	2,944	2,978	2,947	2,835
Rolled structural shapes, rod, bar, cable	1,213	862	936	995	787	744	763	737	719
Powder, flake and paste	117	80	79	99	107	96	92	90	92
Forgings and impacts	134	8152	173	204	149	144	156	166	159

NA Not available. <sup>1</sup> Based on a sample of foundries. <sup>2</sup> Includes shipments "for own use." <sup>3</sup> Includes ductile (nodular) iron castings. <sup>4</sup> Excludes lead die castings for battery plates and parts. <sup>5</sup> Copper content. <sup>6</sup> Producers' net shipments consist of total shipments less shipments to other metal mills for further fabrication into other forms of mill products. <sup>7</sup> Includes wire. <sup>8</sup> Includes welded tubes.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series M33D, M33A, M33E, and U.S. Bureau of the Census and U.S. International Trade Administration, *Current Industrial Reports*, series ITA-9008, annual.

## No. 1332. Net Shipments of Titanium Mill Products: 1980 to 1988

[Thousands of pounds]

PRODUCT	1980	1981	1982	1983	1984	1985	1986	1987	1988
<b>Total<sup>1</sup></b>	<b>54,266</b>	<b>50,985</b>	<b>36,562</b>	<b>31,886</b>	<b>45,429</b>	<b>45,521</b>	<b>41,682</b>	<b>44,572</b>	<b>49,732</b>
Sheet and strip, and plate <sup>2</sup>	37,751	23,904	18,185	15,205	23,809	24,664	21,244	24,181	23,576
Rod and bar	8,472	7,857	4,166	4,316	6,104	6,370	6,022	6,464	7,779
Fastener stock and wire <sup>3</sup>	8,043	19,224	14,211	12,345	15,516	14,487	14,416	13,927	18,377

<sup>1</sup> Net shipments is the sum of mill product shipments plus mill products, less total receipts. <sup>2</sup> Includes forging and extrusion billet. <sup>3</sup> Also includes sheet and strip, plate, extrusions, and pipe and tubing.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, *Titanium Ingot, Mill Products, and Castings*, series ITA991 (87)-5, April 1988.

**No. 1333. Raw Steel, Pig Iron and Ferroalloys Production: 1970 to 1989**[In millions, except percent. See also *Historical Statistics, Colonial Times to 1970*, series P 265-269]

ITEM	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989
RAW STEEL (net tons)											
World production . . . . .	654.2	712.0	790.4	710.7	730.9	782.6	792.9	788.9	811.1	859.2	862.6
U.S. production . . . . .	131.5	116.6	111.8	74.6	84.6	92.5	88.3	81.6	89.2	99.9	97.9
Percent of world . . . . .	20.1	16.4	14.2	10.5	11.6	11.8	11.1	10.3	11.0	11.6	11.4
Basic oxygen process . . . . .	63.3	71.8	67.6	45.3	52.1	52.8	51.9	47.9	52.5	58.0	58.3
Electric . . . . .	20.2	22.7	31.2	23.2	26.6	31.4	29.9	30.4	34.0	36.8	35.2
Open hearth . . . . .	48.0	22.2	13.0	6.1	5.9	8.3	6.4	3.3	2.7	5.1	4.4
Carbon . . . . .	117.4	100.4	94.7	64.1	73.8	79.9	76.7	71.4	78.0	86.8	86.2
Alloy and stainless . . . . .	14.1	16.3	17.1	10.5	10.8	12.6	11.6	10.2	11.2	13.1	11.7
Pig iron and ferroalloys, production (sh. tons) . . . . .	93.5	79.9	68.7	43.3	48.7	51.9	50.4	44.0	48.4	55.7	55.9

<sup>1</sup> Beginning 1975, includes blast furnace ferroalloys.**No. 1334. Steel Products—Net Shipments, by Market Classes: 1970 to 1989**

[In thousands of short tons. Comprises carbon, alloy, and stainless steel]

MARKET CLASS	1970	1975	1980	1984	1985	1986	1987	1988	1989
Total <sup>1</sup> . . . . .	90,798	79,957	83,853	73,739	73,043	70,263	76,654	83,840	84,100
Automotive . . . . .	14,475	15,214	12,124	12,882	12,950	11,889	11,343	12,555	11,763
Steel service centers, distributors . . . . .	16,025	12,700	16,172	18,364	18,439	17,478	19,840	21,037	20,769
Construction, incl. maintenance . . . . .	8,913	8,119	8,742	7,522	7,900	7,336	7,681	8,607	8,318
Containers, packaging, shipping . . . . .	7,775	6,053	5,551	4,352	4,089	4,113	4,372	4,421	4,459
Machinery, industrial equipment, tools . . . . .	5,169	5,173	4,543	2,886	2,271	2,076	2,277	2,798	2,409
Steel for converting and processing . . . . .	3,443	3,255	4,117	5,136	5,484	5,635	7,195	8,492	8,235
Rail transportation . . . . .	3,098	3,152	3,155	1,438	1,061	798	758	1,146	1,229
Contractors' products . . . . .	4,440	3,927	3,148	2,631	3,330	3,278	3,337	3,495	3,182
Oil and gas industries . . . . .	3,550	4,171	5,371	2,003	2,044	1,023	1,489	1,477	1,203
Electrical equipment . . . . .	2,694	2,173	2,441	2,365	1,869	2,113	2,373	2,459	2,449
Appliances, utensils, and cutlery . . . . .	2,160	1,653	1,725	1,635	1,466	1,648	1,633	1,638	1,721

<sup>1</sup> Includes other classes not shown and nonclassified shipments.Source of tables 1333 and 1334: American Iron and Steel Institute, Washington, DC, *Annual Statistical Report*. (Copyright.)**No. 1335. Machine Tool Orders and Shipments: 1970 to 1989**

[In millions of dollars. These data represent total industry volume based on reports from over 200 manufacturers]

YEAR	METAL CUTTING TYPE TOOLS					METAL FORMING TYPE TOOLS				
	New orders (net)		Shipments		Order backlog, end of period	New orders (net)		Shipments		Order backlog, end of period
	Total	Domestic	Total	Domestic		Total	Domestic	Total	Domestic	
1970 . . . . .	651	507	993	827	471	261	227	450	412	235
1975 . . . . .	916	781	1,879	1,548	1,062	361	213	573	485	219
1977 . . . . .	2,202	1,981	1,651	1,470	1,794	793	731	630	560	384
1980 . . . . .	3,885	3,496	3,681	3,206	4,750	870	665	1,011	879	385
1981 . . . . .	2,228	1,946	4,105	3,552	2,873	717	617	991	824	427
1982 . . . . .	1,064	890	2,895	2,599	1,043	433	372	710	600	151
1983 . . . . .	1,152	1,069	1,372	1,200	823	545	489	474	430	222
1984 . . . . .	1,916	1,700	1,607	1,484	1,132	1,000	932	679	609	542
1985 . . . . .	1,853	1,652	1,742	1,549	1,243	675	610	803	743	414
1986 . . . . .	1,544	1,377	1,890	1,685	897	581	507	688	621	307
1987 . . . . .	1,451	1,294	1,677	1,499	672	667	536	647	538	327
1988 . . . . .	2,708	2,316	1,575	1,400	1,806	883	749	825	702	386
1989 . . . . .	1,976	1,723	2,359	2,059	1,423	832	719	837	704	390

Source: NMTBA-The Association For Manufacturing Technology, McLean, VA; data published in U.S. Bureau of Economic Analysis, *Business Statistics*, 1979, for 1970-1978; thereafter, *Survey of Current Business*, monthly.**No. 1336. U.S. Factory Sales of Electronics Shipments: 1975 to 1989**

[In millions of dollars]

TYPE OF ELECTRONICS	1975	1980	1983	1984	1985	1986	1987	1988	1989
Total value <sup>1</sup> . . . . .	42,269	100,550	138,570	196,610	204,570	215,318	234,113	247,728	(NA)
Computers and industrial electronics . . . . .	13,457	39,272	57,265	69,474	70,310	70,994	77,038	84,839	89,430
Communications equip. and systems . . . . .	14,302	30,772	42,119	49,529	57,095	59,823	62,368	64,750	67,230
Electronic components . . . . .	9,286	25,571	33,856	43,306	39,459	38,829	45,335	50,735	54,626
Consumer electronics (excl. imports) . . . . .	5,224	4,935	5,330	5,999	5,240	5,231	5,106	6,206	6,702

NA Not available. <sup>1</sup> Beginning 1984, includes other products and related services not shown separately.Source: Electronic Industries Association, Washington, DC, *Electronic Market Data Book*, annual.

No. 1337. Manufacturing Technology—Percent of Establishments Using and Planning to Use: 1988

ESTABLISHMENT CHARACTERISTIC	ESTABLISHMENTS USING SELECTED TECHNOLOGIES										PLANNING TO USE WITHIN 2 YEARS				
	Computer aided design (CAD) or computer aided engineering	Numerically controlled machines	Auto-mated material handling	Auto-mated sensor based inspection or testing	Communication and control					Design and engineering	Fabrication/ machining/ assembly	Auto-mated material handling	Auto-mated sensor based inspection or testing	Communication and control	
					Program-mable control-lers	Computer control on factory floor	LAN <sup>1</sup>		Inter-company computer network						
							For technical data	For factory use							
Major SIC <sup>2</sup> group:															
34, Fabricated metal products...	26.8	32.2	1.8	15.0	26.8	28.1	13.4	11.6	14.9	20.4	14.7	1.3	6.5	38.8	
35, Industrial mach. and equip. ...	43.2	56.7	5.3	18.4	33.9	21.1	18.5	16.3	12.4	30.8	14.9	2.6	8.2	40.3	
36, Electronic and other...	48.5	34.9	6.7	38.4	38.0	34.5	24.9	21.1	16.2	26.6	21.9	3.3	12.0	49.5	
37, Transportation equip. ....	38.9	37.3	8.0	27.1	32.0	27.4	22.0	18.7	21.7	25.8	20.2	3.5	17.1	36.3	
38, Instruments, related prod. ....	48.9	33.6	5.5	27.6	32.7	32.3	25.8	21.3	13.8	29.7	19.4	2.5	12.0	45.4	
Employment size:															
20 to 99...	29.8	35.9	1.7	13.8	22.5	18.9	13.1	11.0	9.7	23.3	11.4	1.2	6.2	36.2	
100 to 499...	54.4	50.0	5.4	31.6	48.1	41.0	25.9	23.9	22.7	32.6	26.9	3.8	13.4	53.0	
500 and over...	82.6	69.8	37.5	88.8	77.8	68.0	56.6	50.7	41.8	32.6	40.7	10.3	16.0	55.9	
Age of plant (years):															
Less than 5...	44.4	37.3	3.7	24.7	29.5	27.3	21.3	18.0	11.9	32.0	19.5	1.7	13.4	50.3	
5 to 15...	42.6	42.3	4.4	24.8	34.5	29.8	21.3	17.4	16.2	26.8	19.9	3.3	9.9	48.1	
16 to 30...	41.3	48.0	4.7	23.7	34.9	28.0	18.4	17.1	16.6	27.5	17.6	2.2	7.9	45.1	
Over 30...	43.1	50.0	7.3	24.9	39.0	32.1	20.7	18.7	18.0	27.0	17.0	2.6	7.9	38.5	
Manufacturing process:															
Fabrication/ machining...	31.1	53.5	2.4	20.6	31.2	24.7	13.7	12.2	14.6	24.1	15.6	1.6	9.9	45.1	
Assembly...	49.9	15.1	7.4	30.5	30.5	32.6	26.2	22.5	18.3	22.9	19.5	3.9	11.0	45.7	
Both...	47.2	55.0	5.7	25.2	38.7	32.1	21.8	16.8	16.6	33.3	20.1	2.7	9.0	46.0	
Neither...	18.5	9.6	2.7	14.8	24.6	17.4	15.9	12.1	11.9	13.7	10.9	1.3	6.0	36.3	
Market for most products:															
Consumer...	27.6	23.9	4.6	21.2	34.5	27.1	16.1	17.2	17.5	21.7	21.3	3.0	10.6	42.3	
Commercial...	49.1	41.7	6.5	25.9	34.3	33.0	24.4	22.0	16.4	32.1	18.7	2.8	9.8	43.5	
Industrial...	42.8	49.5	3.9	21.3	34.5	27.6	19.1	15.8	13.6	29.9	16.4	2.2	8.5	45.8	
Transportation...	45.7	47.9	8.3	35.4	44.3	34.5	24.8	20.4	32.6	34.1	29.9	3.6	11.9	57.0	
Government...	57.0	62.0	7.9	42.2	39.4	41.0	28.8	22.8	13.9	28.0	20.1	3.7	13.5	51.9	
Other...	36.6	36.9	4.5	14.6	24.5	24.0	16.7	13.3	12.2	16.6	12.4	1.5	5.4	31.6	
Market price for most products:															
Less than \$5...	28.6	29.0	2.2	27.0	39.3	26.4	16.7	15.1	21.5	25.4	22.1	1.7	13.4	47.6	
\$5 to \$100...	33.3	45.1	3.5	25.6	35.7	29.9	16.4	17.7	19.0	28.2	22.1	3.7	11.9	47.1	
\$101 to \$1,000...	41.0	51.5	4.5	24.9	31.6	29.6	20.0	16.1	13.7	27.6	18.5	1.9	8.0	47.0	
\$1,001 to \$2,000...	50.2	49.2	6.0	25.8	32.1	30.5	22.1	18.5	14.1	29.9	16.9	3.6	10.5	43.3	
\$2,001 to \$10,000...	50.9	45.0	4.9	21.2	28.0	30.7	22.0	17.4	11.8	30.7	13.5	2.0	6.7	41.1	
Over \$10,000...	61.8	46.8	9.8	22.2	39.8	31.9	29.9	21.8	14.4	33.5	16.0	1.1	6.0	46.5	

<sup>1</sup> Local area network. <sup>2</sup> Standard Industrial Classification; see text, section 13.Source: U.S. Bureau of the Census, *Current Industrial Reports, Manufacturing Technology, 1988*.

## No. 1338. Robots—Units Shipped and Value: 1985 to 1989

[Based on a survey of all known manufacturers of robots, robot accessories, and components. Shipment value represents the net sales price, i.e., plant, to the customer branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. A robot is a reprogrammable multi-functional manipulator designed to move materials, parts, tools, or specialized devices through variable programmed motions for the performance of a variety of tasks.]

ROBOTS, ACCESSORIES, AND COMPONENTS	UNITS SHIPPED (number)			VALUE OF SHIPMENTS (mil. dol.)		
	1985	1988	1989	1985	1988	1989
<b>Robots, robot accessories, and components . . . . .</b>	<b>(X)</b>	<b>(X)</b>	<b>(X)</b>	<b>345.2</b>	<b>238.0</b>	<b>256.0</b>
Robots, complete . . . . .	5,466	4,603	2,217	275.7	164.1	150.6
Servo-controlled robots . . . . .	2,978	2,072	1,840	254.9	137.7	135.7
Point-to-point type:						
Welding, soldering, brazing, and/or cutting (welding type) . . . . .	839	304	273	74.6	32.3	29.3
Foundry, forging, and/or heat treating . . . . .	65	31	34	4.5	3.2	9.3
Assembly for non-electronic and electronic products . . . . .	547	296	238	17.8	8.0	8.1
Material handling and/or parts transfer . . . . .	463	247	162	44.9	27.0	26.0
Continuous-path type:						
Welding, soldering, brazing, and/or cutting . . . . .	287	79	31	22.4	3.7	2.2
Spraying, painting, gluing, and/or sealing . . . . .	339	292	254	41.4	30.1	35.1
Fettling, grinding, polishing, and/or deburring . . . . .	438	823	848	49.4	33.4	25.6
Nonservo-controlled robots . . . . .	460	336	377	18.0	17.1	14.9
Other robots . . . . .	2,028	2,195	( <sup>3</sup> )	2.8	9.3	( <sup>3</sup> )
Robot accessories, subassemblies, etc . . . . .	(X)	(X)	(X)	69.5	73.9	105.4
Miscellaneous receipts . . . . .	(X)	(X)	(X)	9.2	5.8	2.5

X Not applicable. <sup>1</sup> Includes all point-to-point robots, except assembly, material handling and/or parts transfer. <sup>2</sup> Includes other continuous-path type, not elsewhere classified. <sup>3</sup> Beginning in 1989, other robots which included educational, hobby, experimental and non-industrial robots are no longer collected in this survey.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA 35X(88-1).

## No. 1339. Computer Shipments and Revenues: 1984 to 1988

[Revenue is in if-sold, end-user dollars]

ITEM	Unit	1984	1985	1986	1987	1988
Computer outlays, total <sup>1</sup> . . . . .	Bil. dol.	42.2	45.4	46.5	49.5	62.6
Percent change . . . . .	Percent	(NA)	7.6	2.4	6.3	26.6
Mainframe computers, units shipped <sup>2</sup> . . . . .	1,000	3.5	3.4	3.4	3.7	3.9
Revenues . . . . .	Bil. dol.	12.8	12.6	12.8	13.9	14.4
Super minicomputers, units shipped <sup>3</sup> . . . . .	1,000	6.2	7.3	7.9	7.6	10.4
Revenues . . . . .	Bil. dol.	3.6	3.9	4.4	4.4	5.2
Departmental computers, units shipped <sup>4</sup> . . . . .	1,000	92.7	110.6	116.6	104.1	103.7
Revenues . . . . .	Bil. dol.	7.4	8.3	8.2	6.9	7.3
Multuser microcomputers <sup>5</sup> . . . . .	1,000	198.4	211.2	215.5	238.7	244.6
Revenues . . . . .	Bil. dol.	3.7	3.9	4.1	4.2	4.2
Engineering and technical systems shipped <sup>6</sup> . . . . .	1,000	8.6	20.5	31.1	57.6	84.2
Revenues . . . . .	Bil. dol.	0.4	0.7	0.9	1.5	2.2
Personal computers shipped <sup>7</sup> . . . . .	1,000	7.8	6.1	6.8	8.7	18.5
Revenues . . . . .	Bil. dol.	14.3	16.0	16.2	18.5	29.2
Local area network: Number of connections <sup>8</sup> . . . . .	1,000	340.0	690.0	1,100.0	1,802.0	3,700.0
Revenue . . . . .	Mil. dol.	326.0	593.0	913.0	1,535.0	2,820.0

NA Not available. <sup>1</sup> Shipments into the U.S. market from any manufacturing country. <sup>2</sup> Units costing more than \$1.5 million. <sup>3</sup> Units costing \$250,000 to \$1.5 million. <sup>4</sup> Units costing \$25,000 to \$250,000. <sup>5</sup> Units priced below \$25,000. <sup>6</sup> Single-user systems for technical and engineering applications, excluding CAD/CAM workstations from turnkey vendors. <sup>7</sup> Units costing less than \$10,000. <sup>8</sup> Counts connections to terminals, hosts, PCs, and LAN interconnects.

Source: Dataquest Inc., San Jose, CA, *Consolidated Data Base*, April 1989.

## No. 1340. Domestic Personal Computer Sales and Use: 1981 to 1988

[In millions of units, except as indicated]

ITEM	1981	1982	1983	1984	1985	1986	1987	1988
Personal computers (PC's) sold . . . . .	1.11	3.53	6.90	7.61	6.75	7.04	8.34	9.50
Value (mil. dol.) . . . . .	3,143	5,925	9,779	14,269	17,077	18,888	23,458	27,700
Personal computers in use, total . . . . .	2.12	5.53	12.17	19.18	25.27	31.15	37.84	45.08
Workplace:								
Business: 1-49 employees . . . . .	1.24	2.26	4.00	6.44	9.26	12.22	15.91	20.33
50-999 employees . . . . .	0.30	0.55	0.99	1.71	2.57	3.47	4.55	5.84
Over 999 employees . . . . .	0.24	0.44	0.77	1.26	1.82	2.46	3.25	4.23
Government . . . . .	0.47	0.88	1.61	2.65	3.73	4.82	6.14	7.73
Education . . . . .	0.24	0.40	0.62	0.82	1.14	1.47	1.97	2.53
Kindergarten through grade 12 . . . . .	0.13	0.27	0.54	0.78	1.15	1.55	1.96	2.36
College/university . . . . .	0.10	0.21	0.40	0.59	0.87	1.17	1.48	1.76
Homes . . . . .	0.03	0.06	0.14	0.20	0.28	0.38	0.49	0.60
Personal computer-related equipment in use:								
Impact printers . . . . .	0.72	1.90	4.25	8.70	12.80	17.21	22.49	27.30
Nonimpact printers . . . . .	0.02	0.10	0.31	0.68	1.19	1.83	2.76	3.42
Plotters . . . . .	0.02	0.05	0.12	0.22	0.39	0.61	0.88	1.07
Monochrome monitors . . . . .	0.97	2.24	4.68	7.00	9.74	12.56	15.59	18.65
Color monitors . . . . .	0.13	0.48	1.29	2.98	5.01	7.73	11.68	13.97
Modems . . . . .	0.18	0.53	1.41	3.00	4.66	6.55	8.91	10.91
Add-in boards <sup>2</sup> . . . . .	2.41	5.68	11.43	19.36	29.82	41.22	55.17	65.26
PC hardware maintenance (mil. dol.) <sup>3</sup> . . . . .	76	166	279	558	951	1,061	1,750	2,298

<sup>1</sup> Excluding multuser personal computers. <sup>2</sup> Excluding add-in modem boards. <sup>3</sup> Excluding education and home.

Source: Future Computing/Datapro, Inc. Delran, NJ, unpublished data.

**No. 1341. Semiconductors and Related Devices: 1980 to 1989**

(In million of dollars, except percent. Semiconductors and related devices represent SIC 3674)

ITEM	1980	1983	1984	1985	1986	1987	1988	1989
<b>Semiconductors:</b> <sup>1</sup>								
Sales	6,053	9,092	13,006	9,420	10,844	12,858	15,844	(NA)
Capital expenditures (North America)	1,438	1,452	3,039	2,072	1,438	1,911	2,589	(NA)
Percent of sales	22.6	16.0	23.4	22.0	13.3	14.9	16.2	(NA)
Japanese capital expenditures as a percent of revenues	17.2	21.5	43.0	40.0	16.0	16.0	21.7	(NA)
R&D (North America)	423	757	1,007	1,159	1,250	1,448	1,661	(NA)
<b>Semiconductor imports, total</b> <sup>2</sup>	<b>2,223</b>	<b>4,523</b>	<b>6,699</b>	<b>4,870</b>	<b>5,044</b>	<b>6,656</b>	<b>9,502</b>	<b>10,758</b>
Integrated circuits, total	1,909	4,075	6,055	4,365	4,459	6,000	8,683	9,957
Transistors	193	248	332	242	279	318	402	401
Diodes and rectifiers	121	200	312	263	306	338	417	400
<b>Semiconductors and related devices:</b>								
Shipments	9,455	12,801	17,819	15,253	14,930	17,929	22,597	(NA)
Integrated microcircuits	6,768	8,647	13,484	10,872	10,925	13,300	(NA)	(NA)
Semiconductor devices, n.e.c. <sup>3</sup>	1,398	2,484	2,543	2,569	2,303	2,586	(NA)	(NA)
Assets, beginning of year	4,014	8,400	9,789	12,200	(NA)	16,515	(NA)	(NA)
New capital expenditures	1,596	1,832	2,818	2,832	2,220	1,921	2,681	(NA)
Used capital expenditures	40	65	96	390	66	94	(NA)	(NA)
Retirements	230	562	543	896	(NA)	1,442	(NA)	(NA)
Assets, end of year	5,420	9,735	12,159	14,526	(NA)	17,088	(NA)	(NA)
Depreciation charges	601	1,014	1,309	1,512	(NA)	1,719	(NA)	(NA)
Rental payments	74	147	173	184	(NA)	203	(NA)	(NA)

NA Not available. <sup>1</sup> Source: Dataquest Inc., San Jose, CA, unpublished data. <sup>2</sup> Imports for consumption. Includes imports not shown separately. <sup>3</sup> N.e.c. = Not elsewhere classified.

Source: Except as noted, U.S. Bureau of the Census, *Current Industrial Reports*, series MA-36Q; *U.S. Imports, FT 210, 1980-1988: Import CD-Rom disc 1989*; and *Annual Survey of Manufacturers*.

**No. 1342. Microcontrollers and Chip Shipments: 1982 to 1988**

ITEM	Unit	1982	1983	1984	1985	1986	1987	1988
<b>Microcontrollers, worldwide: Units</b>	Mil. units	212.4	262.6	357.0	340.8	493.9	729.2	948.3
8-bit	Mil. units	54.1	90.6	163.5	163.6	218.0	333.5	477.8
4-bit	Mil. units	158.2	171.9	193.4	177.0	271.9	392.3	465.0
16-bit	Mil. units	0.05	0.09	0.06	0.23	0.40	3.40	5.50
Revenue	Mil. dol.	427.0	526.3	1,406.7	1,114.3	1,392.2	2,072.1	2,706.3
8-bit	Mil. dol.	173.2	267.3	930.3	728.0	830.6	1,250.6	1,724.9
4-bit	Mil. dol.	253.0	257.9	475.8	382.3	554.7	792.4	934.6
16-bit	Mil. dol.	0.9	1.1	0.7	4.0	7.0	29.1	46.8
<b>32-bit processor—Units:</b>								
RISC	Mil. units	(NA)	(NA)	(NA)	0.005	0.017	0.070	0.220
CISC <sup>2</sup>	Mil. units	(NA)	(NA)	0.010	0.095	0.453	1.740	4.945
Revenue	Mil. dol.	(NA)	(NA)	3.0	19.0	88.0	300.6	888.6
RISC	Mil. dol.	(NA)	(NA)	(NA)	3.0	4.0	12.2	38.5
CISC <sup>2</sup>	Mil. dol.	(NA)	(NA)	3.0	16.0	84.0	288.4	850.1
<b>256K DRAM<sup>3</sup> chips</b>	Mil. units	1.0	18.0	200.0	237.9	620.0	775.0	947.1
Revenue	Mil. dol.	-	85	895	868	1,432	1,829	2,898
Price	Dollars	100.00	50.00	25.00	3.65	2.31	2.36	3.06
<b>1-Megabit DRAM chips</b>	Mil. units	(NA)	(NA)	(NA)	-	4.3	42.6	211.6
Revenue	Mil. dol.	(NA)	(NA)	(NA)	5	134	636	3,576
Price	Dollars	(NA)	(NA)	(NA)	162.50	31.16	14.93	16.90

- Represents zero. NA Not available. <sup>1</sup> RISC=Reduced Instruction Set Computer. <sup>2</sup> CISC=Complex Instruction Set Computer. <sup>3</sup> DRAM=Dynamic Random Access Memory.

Source: Dataquest, Inc., San Jose, CA, unpublished data.

**No. 1343. Computers and Industrial Electronic Equipment-Shipments, by Type: 1975 to 1989**

(In millions of dollars)

TYPE OF EQUIPMENT	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Total</b> <sup>1</sup>	<b>13,457</b>	<b>39,272</b>	<b>47,655</b>	<b>53,320</b>	<b>57,265</b>	<b>69,474</b>	<b>70,310</b>	<b>70,994</b>	<b>77,038</b>	<b>84,839</b>	<b>89,430</b>
Computer and peripheral equipment	7,478	24,320	29,099	33,286	37,131	46,486	47,629	48,083	52,879	59,487	62,450
Computers	2,123	9,580	12,438	14,557	16,288	22,532	23,801	24,836	27,778	32,073	33,260
Peripheral equipment	3,732	14,740	16,661	18,728	20,844	23,954	23,828	23,247	25,101	27,414	29,190
Controlling, processing equipment	2,492	5,627	6,717	6,523	6,186	7,294	7,410	7,677	7,892	8,571	9,105
Testing, measuring equipment	1,552	3,584	4,144	4,695	5,200	6,279	6,008	5,736	6,009	6,038	6,450
Medical electronic equipment	829	2,703	3,380	4,402	4,845	5,148	5,028	5,111	5,578	5,982	6,355
Nuclear electronic equipment	292	384	447	546	490	480	519	560	601	614	625

<sup>1</sup> Includes other types of equipment not shown separately.

Source: Electronic Industries Association, Washington, DC, *Electronic Market Data Book*, annual.

## No. 1344. Electric and Electronic Equipment—Industry Summary: 1982 to 1988

SIC <sup>1</sup> code	INDUSTRY	1982		1987		1988					
		Em- ploy- ees (1,000)	Value of ship- ments (mil. dol.)	Em- ploy- ees (1,000)	Value of ship- ments (mil. dol.)	Employees		Value of ship- ments (mil. dol.)	New capital expen- ditures (mil. dol.)	Value added by manu- facture (mil. dol.)	Cost of material (mil. dol.)
						Number (1,000)	Payroll (mil. dol.)				
36	<b>Total</b> .....	(NA)	(NA)	1,566	171,271	1,581	41,105	186,951	7,972	103,475	84,681
361	Electric distributing equipment .....	(NA)	(NA)	77	8,197	77	1,868	9,097	186	5,031	4,197
362	Electrical industrial apparatus .....	(NA)	(NA)	166	15,266	166	4,049	16,819	460	9,724	7,199
363	Household appliances .....	(NA)	(NA)	117	16,498	117	2,672	17,332	469	7,563	9,927
364	Electric lighting and wiring equipment .....	159	12,048	167	18,004	168	3,911	19,236	506	10,790	8,510
365	Household audio and video equipment .....	(NA)	(NA)	44	7,833	46	971	8,360	214	2,900	5,406
366	Communication equipment .....	(NA)	(NA)	260	34,001	267	8,187	36,093	1,388	20,759	15,808
367	Electronic components and accessories .....	(NA)	(NA)	547	50,258	552	14,570	56,999	3,954	35,260	21,914
369	Miscellaneous electrical equipment and supplies .....	(NA)	(NA)	188	21,214	188	4,877	23,014	795	11,449	11,719

NA Not available. <sup>1</sup> Standard Industrial Classification.Source: U.S. Bureau of the Census, *Census of Manufactures, 1987*, and *Annual Survey of Manufactures*.

## No. 1345. Electronic Computing Equipment Industry—Summary: 1988

(In millions of dollars, except as indicated. N.e.c.—Not elsewhere classified)

ITEM	Computer and office equipment (357)	Electronic computers (3571)	Computer storage devices (3572)	Computer terminals (3575)	Computer peripheral equipment, n.e.c. (3577)	Calculating and accounting equipment (3578)	Office machines, n.e.c. (3579)
Employees (1,000) .....	329.8	150.6	56.1	15.8	67.8	12.3	27.2
Payroll .....	11,509	5,514	1,976	452	2,331	348	888
Production workers (1,000) .....	122.6	54.7	20.2	5.9	24.0	5.2	12.6
Hours (million) .....	245.2	109.2	42.6	11.2	46.8	10.4	25.0
Wages .....	2,634	1,211	445	123	515	96	244
Value added .....	33,691	19,703	4,209	1,210	5,928	898	1,743
Cost of materials .....	34,891	18,091	5,471	1,159	7,761	569	1,641
Value of shipments .....	67,644	37,683	9,544	2,333	13,213	1,469	3,402
New capital expenditures .....	2,385	1,304	404	43	462	51	121

Source: U.S. Bureau of the Census, *Census of Manufactures, 1987*, and *Annual Survey of Manufactures*.

## No. 1346. Electronic Components and Accessories Industry—Summary: 1977 to 1988

(In millions of dollars, except as indicated. Included in SIC 367)

ITEM	1977	1980	1981	1982	1983	1984	1985	1986	1987 <sup>1</sup>	1988
Employment, total (1,000) .....	373.5	498.6	503.5	515.8	515.0	582.3	558.1	517.0	547.3	551.8
Salaries and wages .....	4,557	7,780	8,664	9,770	10,605	12,648	12,352	12,306	13,652	14,571
Production workers (1,000) .....	257.9	336.6	325.5	324.8	329.0	374.7	345.2	313.0	329.8	336.5
Work-hours (million) .....	508.7	650.1	631.3	626.3	642.4	736.7	667.0	613.0	653.9	668.0
Workers wages .....	2,457	4,050	4,366	4,645	5,015	6,018	5,808	5,540	6,094	6,530
Value added .....	9,260	16,902	18,537	21,214	23,610	30,427	26,368	25,851	30,815	35,260
Supplemental labor cost .....	811	1,497	1,728	2,065	2,294	2,752	2,639	2,608	2,926	(NA)
Cost of materials .....	6,390	11,434	12,159	15,564	13,912	18,190	16,414	15,843	19,832	21,914
Value of shipments .....	15,390	27,647	30,421	34,517	37,194	47,983	42,921	41,985	50,258	56,999
New capital expenditures .....	783	2,616	2,459	3,013	2,897	4,410	4,495	3,419	3,101	3,954
Inventories .....	2,773	5,388	5,745	6,436	6,841	8,037	7,621	7,227	8,382	9,030
Assets, total .....	6,026	10,615	12,567	15,489	17,609	21,699	25,123	(NA)	30,199	(NA)
Rents, total .....	107	189	247	284	315	373	391	(NA)	474	(NA)

NA Not available. <sup>1</sup> Due to 1987 SIC revisions, prior years data are not comparable to 1987 and later data.Source: U.S. Bureau of the Census, *Census of Manufactures, 1977, 1982, and 1987*, and *Annual Survey of Manufactures*.

# **No. 1347. Factory Sales of Electronic Components and Consumer Electronic Products: 1980 to 1989**

[In millions of dollars]

PRODUCT	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Electronic components</b>	<b>25,571</b>	<b>28,784</b>	<b>29,561</b>	<b>33,856</b>	<b>43,306</b>	<b>39,459</b>	<b>38,829</b>	<b>45,335</b>	<b>50,735</b>	<b>54,626</b>
Solid state products	9,089	10,309	10,729	12,570	17,032	14,650	14,408	16,819	19,685	21,650
Parts	7,080	7,647	7,403	8,318	10,155	9,329	9,169	10,664	11,292	11,678
Electron tubes	1,744	1,959	1,885	2,049	2,137	2,055	2,125	2,176	2,263	2,578
Other components <sup>1</sup>	7,658	8,869	9,544	10,919	13,982	13,423	13,121	15,676	17,495	18,720
<b>Consumer electronic products</b>	<b>10,891</b>	<b>12,438</b>	<b>12,499</b>	<b>14,560</b>	<b>17,594</b>	<b>18,907</b>	<b>21,472</b>	<b>21,828</b>	<b>22,132</b>	<b>(NA)</b>
Color TV receivers	4,210	4,349	4,253	5,002	5,538	5,565	6,040	6,303	6,277	6,530
Car audio	1,368	2,000	2,100	1,900	2,500	2,761	3,135	3,523	3,937	4,125
Video cassette recorders	621	1,127	1,303	2,162	3,585	4,173	3,978	3,442	2,848	2,625
Camcorders	621	1,127	1,303	2,162	3,585	4,738	1,280	1,651	1,972	2,007
Separate audio components	1,424	1,363	1,181	1,268	913	1,132	1,358	1,715	1,854	1,871
Portable audio tape equipment	1,403	1,157	971	1,102	1,191	1,140	1,389	1,469	1,547	1,595
Audio systems <sup>2</sup>	809	720	573	630	976	1,372	1,370	1,048	1,225	1,217
Blank video cassettes	(NA)	(NA)	357	580	770	1,055	1,235	1,006	936	923
Projection TV	(NA)	287	236	268	385	488	529	527	529	478
Home radios	468	501	530	565	661	379	408	409	377	379
Blank audio cassettes	(NA)	227	202	234	256	263	292	364	354	367
Monochrome TV receivers	588	505	507	465	419	328	373	341	236	156
Video disc players	(NA)	55	54	81	45	23	26	30	40	59
Color cameras	(NA)	147	232	303	355	228	59	(NA)	(NA)	(NA)

NA Not available. <sup>1</sup> Includes sockets, delay lines, loudspeakers, magnetic components, transducers, printed circuit boards, microwave components, assemblies, and parts. <sup>2</sup> 1980 includes console phonographs.

Source: Electronic Industries Association, Washington, DC, *Electronic Market Data Book*, annual. (Copyright.)

# **No. 1348. Selected Electric Home Appliances and Consumer Electronic Products—Shipments and Retail Value: 1985 to 1989**

[Compiled from report of associations and manufacturers. Retail value represents median price of product times the number of units shipped. Except as indicated, covers electric appliances only]

PRODUCT	MANUFACTURES SHIPMENTS (1,000 units)					RETAIL VALUE (mil. dol.)				
	1985	1986	1987	1988	1989	1985	1986	1987	1988	1989
<b>Major appliances:</b>										
Air conditioners	2,900	2,765	3,659	4,379	4,909	1,286	1,130	1,502	1,774	2,012
Refrigerators	5,874	6,284	6,724	6,973	6,799	4,121	4,299	4,557	4,880	4,881
Microwave ovens	10,633	12,658	12,741	11,189	10,848	3,468	3,600	3,541	2,726	2,541
Ranges, electric	3,218	3,532	3,362	3,186	3,068	1,517	1,589	1,643	1,545	1,524
Freezers <sup>2</sup>	1,140	1,154	1,180	1,250	1,189	546	517	526	555	544
Ranges, gas	1,807	1,895	2,132	2,132	2,088	821	880	992	989	960
Dryers	3,701	4,114	4,421	4,363	4,404	1,326	1,451	1,544	1,536	1,422
Washers	4,925	5,430	5,610	5,708	5,765	2,231	2,379	2,470	2,514	2,341
<b>Video:</b>										
TV, color	16,894	18,855	18,473	19,173	20,955	7,250	7,632	8,221	8,434	8,749
Videocassette recorders	11,912	12,685	11,700	10,998	9,843	(NA)	5,067	4,553	4,348	3,767
Camcorders	(NA)	1,090	1,600	2,108	2,348	(NA)	1,213	1,674	2,082	2,170
Video cameras	402	181	110	90	81	266	118	77	62	51
Video cassette players	(NA)	150	182	213	234	(NA)	28	28	32	35
<b>Audio/HiFi:</b>										
Components <sup>3</sup>	8,800	10,914	12,085	12,858	14,050	1,653	2,041	2,232	2,571	3,060
Compact disc players	850	1,384	2,490	2,237	2,338	284	356	514	512	511
Tape decks	908	1,508	1,458	1,457	1,542	176	284	282	283	289
Portable tape equipment	27,626	30,635	30,763	29,556	31,085	1,339	1,449	1,442	1,372	1,452
Radios	27,528	29,896	30,678	27,252	28,371	808	845	818	761	815
Headphones	3,167	3,425	3,534	3,477	3,755	134	140	149	146	160
Cartridges	3,047	2,795	2,539	1,803	1,533	94	86	78	58	42
<b>Mobile electronics:</b>										
ID <sup>4</sup> cassette/radio combo	4,030	3,989	4,053	4,256	4,098	789	814	848	905	865
Radios only	867	757	687	684	551	81	65	59	58	49
Car speakers (in pairs)	15,162	15,010	16,241	17,540	18,294	979	942	993	1,070	1,104
Radar detectors	1,227	1,688	1,834	1,953	2,051	187	263	277	295	341
Cellular telephones	(NA)	265	331	700	1,081	(NA)	423	509	578	667
Auto security systems	(NA)	1,028	1,371	1,759	2,023	(NA)	257	308	358	360
<b>Home office:</b>										
Electronic typewriters	850	2,038	2,186	2,481	2,580	185	458	533	672	740
Personal computers	4,025	3,075	3,598	4,192	4,737	(NA)	2,983	3,313	3,810	4,694
Facsimile machines	(NA)	181	525	900	1,400	(NA)	584	1,335	1,335	1,540
Blank floppy disks	205,063	425,000	545,403	651,757	706,505	(NA)	680	764	878	883
<b>Satellite earth stations</b>	<b>630</b>	<b>255</b>	<b>252</b>	<b>277</b>	<b>294</b>	<b>1,366</b>	<b>513</b>	<b>508</b>	<b>624</b>	<b>657</b>
<b>Telephone equipment:</b>										
Corded telephones	22,403	23,768	21,900	20,805	20,493	983	1,006	840	808	798
Cordless telephones	4,076	4,279	5,450	8,000	9,200	380	410	455	680	796
Telephone answering equipment	3,306	4,856	7,332	10,100	12,160	371	535	654	873	986

NA Not available. <sup>1</sup> 6.5 cu. ft. and over. <sup>2</sup> 10 cu. ft. and over. <sup>3</sup> Includes others not shown separately. <sup>4</sup> ID=in dash.

Source: Dealerscope Merchandising, Philadelphia, PA, 68th Annual Statistical and Marketing Report.





## Section 28

## Domestic Trade and Services

This section presents statistics relating to the distributive trades and service industries. Data shown for the trades, classified by kind of business, and for the various categories of services (e.g., personal, business, repair, hotel) cover sales or receipts, establishments, employees, payrolls, and other items. Also included are data for franchised businesses.

The principal sources of these data are census reports and survey reports of the Bureau of the Census. Data on gross product in trade and service industries usually appear in the July issues of the *Survey of Current Business*, issued by the U.S. Bureau of Economic Analysis. Financial data for firms engaged in retail, wholesale, or service activities appear in the annual *Statistics of Income*, published by the Internal Revenue Service.

**Censuses.**—Censuses of retail trade and wholesale trade have been taken at various intervals since 1929. Limited coverage of the service industries started in 1933. Beginning with the 1967 census, legislation provides for a census of each area to be conducted every 5 years (for years ending in "2" and "7").

The industries covered in the censuses and surveys of business are those classified in three divisions defined in the *Standard Industrial Classification Manual* (see text, section 13). *Retail trade* refers to places of business primarily engaged in selling merchandise for personal or household consumption; *wholesale trade*, to establishments primarily engaged in selling goods to dealers and distributors for resale or to purchasers who buy for business and farm uses; and *services*, to establishments primarily engaged in providing a wide range of services for individuals and for businesses.

Beginning with the 1954 Censuses of Retail Trade and Service Industries, data for nonemployer establishments are included and published separately. The census of wholesale trade excludes establishments with no paid employees. Beginning in 1977, sales taxes and finance charges are excluded from sales (or receipt) figures of the three censuses. In 1982 and prior censuses, the count of establishments represented the number in business at the end of the year. For 1987, the count of establishments represents those in business at any time during 1987.

The 1987 Census of Service Industries includes hospitals whereas the 1982 census did not. For 1987, hospitals operated by governmental organizations are included. Government-operated facilities in other service kind-of-business classifications are excluded from the census. In 1982 and 1987, data were not collected for elementary and secondary schools, colleges and universities, labor unions and similar organizations, and political organizations.

The census of retail trade beginning in 1977, excludes nonemployer direct sellers. Beginning 1982, the census treated each leased department in a store as a separate establishment and classified it according to the kind of business it conducted. In prior years, data for leased departments were consolidated with the data for stores in which they were located.

**Current surveys.**—Current sample surveys conducted by the Bureau of the Census cover various aspects of the retail and wholesale trade and selected service industries. Its *Monthly Retail Trade Report* contains monthly estimates of sales, inventories, inventory/sales ratios, and sales of organizations operating 11 or more retail stores, for the United States, by kind of business. In addition, monthly retail sales data for census regions and divisions, large States, metropolitan areas, and cities are included. Annual figures on sales, year-end inventories, and sales/inventory ratios, by kind of business, appear in the *Annual Retail Trade Report*.

Statistics from the Bureau's monthly wholesale trade survey include national estimates of merchant wholesalers' sales, inventories, and stock-sales ratios by major summary groups—durable and nondurable—and selected kinds of business. Merchant wholesalers are those wholesalers who take title to the goods they sell (e.g., jobbers, exporters, importers, major distributors). These data, based on reports submitted by a sample of firms, appear in the *Monthly Wholesale Trade Report*. Annual figures on sales, sales-inventory ratios, and yearend inventories appear in the *Annual Wholesale Trade Report*.

The *Service Annual Survey* provides annual estimates of receipts for selected service kinds of business for the United States as a whole.

For the current sample survey programs, retail trade coverage is the same as for the census; wholesale trade coverage is limited to merchant wholesalers; and selected services coverage is less inclusive than the census.

Estimates obtained from annual and monthly surveys are based on sample data and are not expected to agree exactly with results that would be obtained from a complete census of all establishments. Data include estimates for sampling units not reporting.

**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

### No. 1349. Gross National Product in Domestic Trade and Service Industries in Current and Constant (1982) Dollars: 1980 to 1988

[In billions of dollars, except percent. For definition of gross national product, see text, section 14. Based on 1972 Standard Industrial Classification]

INDUSTRY	1980	1981	1982	1983	1984	1985	1986	1987	1988
<b>CURRENT DOLLARS</b>									
<b>Wholesale and retail trade</b> .....	<b>438.8</b>	<b>483.1</b>	<b>506.5</b>	<b>542.9</b>	<b>614.0</b>	<b>658.2</b>	<b>682.6</b>	<b>724.8</b>	<b>780.8</b>
Percent of gross national product .....	16.1	15.8	16.0	15.9	16.3	16.4	16.1	16.0	16.0
Wholesale trade .....	193.9	214.0	219.0	226.5	263.1	280.8	282.0	300.9	326.1
Retail trade .....	245.0	269.1	287.5	316.4	350.8	377.4	400.5	423.9	454.7
<b>Services</b> .....	<b>374.0</b>	<b>422.6</b>	<b>463.6</b>	<b>515.5</b>	<b>580.2</b>	<b>648.1</b>	<b>717.6</b>	<b>792.7</b>	<b>872.5</b>
Percent of gross national product .....	13.7	13.8	14.6	15.1	15.4	16.1	17.0	17.5	17.9
Hotels and other lodging places .....	18.9	20.4	21.7	24.3	27.0	30.4	32.4	36.3	40.9
Personal services .....	18.8	19.5	21.3	23.1	25.0	29.7	31.9	34.0	36.9
Business services .....	68.8	79.9	90.7	104.8	125.3	145.8	163.6	180.9	200.3
Auto repair, services, and garages .....	21.1	23.1	23.5	26.1	29.2	33.2	36.3	38.6	41.8
Miscellaneous repair services .....	9.2	9.2	9.6	10.8	12.8	12.4	13.7	14.1	15.9
Motion pictures .....	5.0	5.5	6.3	6.6	7.3	9.0	10.5	11.4	12.2
Amusement and recreation services .....	12.4	14.0	15.1	16.8	17.8	19.9	22.1	24.2	26.5
Health services .....	108.1	124.7	142.0	156.1	169.0	184.6	200.3	226.8	248.5
Legal services .....	23.3	25.9	30.6	35.0	41.6	46.3	54.1	59.9	67.4
Educational services .....	16.0	17.5	19.1	21.0	23.5	25.8	27.6	30.0	33.1
Social services, membership organizations .....	26.3	28.4	30.5	32.8	35.7	38.3	41.7	45.2	50.1
Miscellaneous professional services .....	39.6	47.5	45.7	49.9	56.9	63.6	74.4	81.9	89.4
Private households .....	6.6	7.0	7.6	8.2	8.9	9.0	9.1	9.2	9.4
<b>CONSTANT (1982) DOLLARS</b>									
<b>Wholesale and retail trade</b> .....	<b>481.8</b>	<b>499.0</b>	<b>506.5</b>	<b>530.0</b>	<b>589.0</b>	<b>621.5</b>	<b>662.2</b>	<b>659.4</b>	<b>694.0</b>
Percent of gross national product .....	15.1	15.4	16.0	16.2	16.8	17.2	17.8	17.1	17.2
Wholesale trade .....	200.1	212.7	219.0	222.2	254.9	267.1	284.7	289.4	296.8
Retail trade .....	281.7	286.4	287.5	307.8	334.0	354.4	377.5	370.0	397.1
<b>Services</b> .....	<b>450.9</b>	<b>483.0</b>	<b>463.6</b>	<b>480.4</b>	<b>509.7</b>	<b>538.6</b>	<b>565.8</b>	<b>591.4</b>	<b>613.9</b>
Percent of gross national product .....	14.1	14.2	14.6	14.6	14.6	14.9	15.2	15.3	15.3
Hotels and other lodging places .....	22.3	21.7	21.7	23.6	24.3	26.0	26.6	28.4	30.1
Personal services .....	22.3	21.1	21.3	21.7	22.2	25.2	25.9	26.4	27.2
Business services .....	83.9	88.5	90.7	97.3	111.0	120.8	129.8	139.7	147.2
Auto repair, services, and garages .....	24.8	25.2	23.5	24.5	26.2	28.7	29.0	28.9	29.5
Miscellaneous repair services .....	10.6	9.9	9.6	10.5	11.8	10.7	11.2	11.1	12.0
Motion pictures .....	5.7	5.8	6.3	6.2	6.3	7.5	8.6	8.1	8.4
Amusement and recreation services .....	13.4	14.8	15.1	16.1	16.3	17.5	18.4	19.6	21.1
Health services .....	133.8	138.1	142.0	143.7	145.0	148.6	150.5	158.7	159.9
Legal services .....	30.6	30.1	30.6	30.1	32.5	33.5	36.7	36.8	39.6
Educational services .....	18.9	18.7	19.1	19.9	21.1	22.1	22.4	23.1	23.8
Social services, membership organizations .....	30.2	30.5	30.5	31.1	32.3	33.3	34.7	35.9	38.0
Miscellaneous professional services .....	47.0	51.3	45.7	47.7	52.1	56.0	63.3	66.0	68.2
Private households .....	7.4	7.3	7.6	8.1	8.8	8.8	8.8	8.8	8.8

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, January 1991.

## No. 1350. Persons Working in Domestic Trade and Service Industries: 1970 to 1989

[In thousands. Data represent worker-years of full-time equivalent employment by persons working for wages or salaries and number of active partners and proprietors of unincorporated businesses who devote a majority of their working hours to their unincorporated businesses. Based on 1972 Standard Industrial Classification]

INDUSTRY	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>Wholesale and retail.</b>	<b>14,889</b>	<b>19,395</b>	<b>19,419</b>	<b>19,615</b>	<b>21,040</b>	<b>21,747</b>	<b>22,215</b>	<b>22,943</b>	<b>23,558</b>	<b>24,375</b>
Wholesale trade	4,123	5,396	5,409	5,409	5,697	5,804	5,834	5,991	6,149	6,399
Retail trade	10,766	13,999	14,010	14,406	15,343	15,943	16,381	16,952	17,409	17,976
<b>Services</b>	<b>13,380</b>	<b>19,526</b>	<b>20,729</b>	<b>21,571</b>	<b>22,875</b>	<b>23,929</b>	<b>24,787</b>	<b>26,148</b>	<b>27,394</b>	<b>28,614</b>
Hotels and other lodging places	1,003	1,261	1,340	1,382	1,461	1,571	1,598	1,670	1,774	1,834
Personal services	1,341	1,330	1,334	1,379	1,442	1,503	1,523	1,590	1,709	1,699
Business services	1,666	3,077	3,345	3,703	4,273	4,650	5,003	5,479	5,938	6,345
Auto repair, services, and garages	508	838	909	927	1,022	1,090	1,129	1,155	1,203	1,231
Miscellaneous repair services	316	475	515	523	548	555	541	543	563	575
Motion pictures	181	249	266	274	280	283	296	304	312	336
Amusement and recreation services	402	683	702	717	748	751	765	788	815	890
Health services	2,905	5,218	5,677	5,821	5,971	6,142	6,350	6,645	6,774	7,122
Legal services	401	690	786	830	883	921	952	1,047	1,098	1,134
Educational services	1,001	1,241	1,311	1,360	1,387	1,470	1,481	1,532	1,554	1,588
Social services and membership organizations	1,756	2,361	2,382	2,470	2,540	2,607	2,725	2,915	3,107	3,213
Social services	(NA)	1,030	1,063	1,162	1,224	1,302	1,403	1,517	1,615	1,688
Membership organizations	(NA)	1,331	1,319	1,308	1,316	1,305	1,322	1,398	1,492	1,525
Miscellaneous professional services	746	1,348	1,435	1,447	1,541	1,633	1,671	1,744	1,830	1,960
Private households	1,154	755	727	738	779	753	753	734	717	687

NA Not available.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

## No. 1351. Retail Trade—Summary: 1958 to 1987

[1972 through 1982 based on 1972 Standard Industrial Classification (SIC) code; 1987 based on 1987 SIC code. Prior years based on earlier editions of SIC. Comparability of data over time is affected by changes in the SIC code. See also *Historical Statistics, Colonial Times to 1970*, series T 43-47 and T 79-91]

ITEM	Unit	1958	1963	1967	1972	1977	1982	1987
Firms, total <sup>1</sup>	1,000	(NA)	1,532	1,577	1,665	1,567	1,573	1,992
Multiunit establishments <sup>1,2</sup>	1,000	163	220	220	301	343	415	498
Establishments, total	1,000	1,795	1,708	1,763	1,780	1,855	1,923	2,420
With payroll	1,000	1,185	1,206	1,192	1,265	1,304	1,324	1,504
With sales of \$1,000,000 or more	1,000	(NA)	(NA)	(NA)	74	119	193	259
Consumer Price Index: <sup>4</sup>								
All items	1982-84 = 100	28.9	30.6	33.4	41.8	60.6	96.5	113.6
All commodities	1982-84 = 100	33.3	34.4	36.8	44.5	64.2	97.0	107.7
Sales	Bil. dol.	200	244	310	457	723	1,066	1,540
By establishments with payroll	Bil. dol.	188	233	295	440	700	1,039	1,493
By multiunit establishments <sup>2</sup>	Bil. dol.	67	90	124	202	341	567	844
Percent of total sales	Percent	33.5	36.6	39.8	44.0	47.1	53.2	56.5
Percent of multiunit sales by 100-or-more establishment multiunits <sup>2,5</sup>	Percent	42.4	43.1	46.7	55.8	55.8	54.5	54.6
In 1982 dollars <sup>6</sup>	Bil. dol.	(NA)	645	764	943	1,054	1,066	1,393
Percent of sales by corporations	Percent	53.0	61.9	67.4	76.4	79.8	84.6	88.9
Per capita sales: <sup>7</sup>								
Current dollars	Dollars	1,156	1,296	1,571	2,186	3,291	4,599	6,328
Constant (1982) dollars <sup>6</sup>	Dollars	(NA)	3,423	3,869	4,508	4,798	4,599	5,722
Sales as percent of personal income	Percent	<sup>3</sup> 55.5	52.4	49.3	48.1	46.9	41.5	40.9
Sales, inside metropolitan areas <sup>8</sup>	Bil. dol.	<sup>3</sup> 133	170	221	(NA)	552	845	<sup>9</sup> 1,230
Percent of total sales	Percent	66.4	69.5	71.4	(NA)	76.3	79.3	<sup>9</sup> 82.4
Payroll, entire year	Bil. dol.	21.7	27.6	36.2	55.4	85.9	123.6	177.5
Percent of sales	Percent	<sup>10</sup> 11.5	11.3	11.7	12.1	11.9	11.6	11.5
Paid employees, March 12 pay period <sup>10</sup>	1,000	7,942	8,410	9,381	11,211	13,040	14,468	17,780

NA Not available. <sup>1</sup> Through 1982, represents the number of establishments and firms in business at the end of the year. For 1987, represents the number of establishments and firms in business at any time during year. <sup>2</sup> Establishments operated by firms which operate at two or more locations. Beginning 1982, includes single units operated by multiunit establishments. 1972 and 1977 data revised since originally published. <sup>3</sup> Excludes Alaska and Hawaii. <sup>4</sup> Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*. Beginning 1982, CPI-U, see text, section 14. <sup>5</sup> Prior to 1982, data provided for percent of multiunit sales by 101-or-more establishment units. <sup>6</sup> Based on implicit price deflators for retail sales supplied by U.S. Bureau of Economic Analysis. <sup>7</sup> Based on estimated resident population as of July 1. <sup>8</sup> Through 1982 based on Standard Metropolitan Statistical Area definitions. Data for 1987 based on Metropolitan Statistical Area definitions. See Appendix II. <sup>9</sup> Covers only establishments with payroll. <sup>10</sup> 1958 and 1963 data for week including November 15.

Source: Except as noted, U.S. Bureau of the Census, *U.S. Census of Business: 1958*, vol. I; *1963*, vol. I; *1967*, vol. I; and *Census of Retail Trade, 1972*, RC72-S-1; *1977*, RC77-S-2; *1982*, RC82-A-52 and RC82-I-1; and *1987*, RC87-A-52, RC87-N-1, and RC87-S-1.

# No. 1352. Retail Trade Establishments—Number, Sales, Payroll, and Employees, by Kind of Business: 1987

[Each kind-of-business classification includes leased departments classified in that kind of business as if they were separate establishments. See *Historical Statistics, Colonial Times to 1970*, series T 79-196 for similar but not comparable data]

1987 SIC code <sup>1</sup>	KIND OF BUSINESS	ALL ESTABLISHMENTS		ESTABLISHMENTS WITH PAYROLL				
		Num- ber <sup>2</sup> (1,000)	Sales (mil. dol.)	Num- ber <sup>2</sup> (1,000)	Sales		Annual payroll (mil. dol.)	Paid employ- ees <sup>3</sup> (1,000)
					Total (mil. dol.)	Per estab- lish- ment (\$1,000)		
	<b>Retail trade, total</b>	<b>4,240</b>	<b>41,540,263</b>	<b>1,504</b>	<b>1,493,308</b>	<b>993</b>	<b>177,548</b>	<b>17,780</b>
52	Building materials, garden supplies stores	107	83,454	74	81,487	1,104	9,780	668
521, 3	Building materials, supply stores	51	61,302	38	60,525	1,593	6,929	432
525	Hardware stores	27	11,036	20	10,535	525	1,564	138
526	Retail nurseries, lawn and garden supply stores	21	5,809	11	5,411	506	822	71
527	Mobile home dealers	8	5,307	5	5,015	993	445	27
53	General merchandise stores	57	181,971	35	181,147	5,112	19,586	2,003
531	Department stores (incl. leased depts.) <sup>5, 6</sup>	10	153,679	10	153,679	15,305	(NA)	(NA)
531	Department stores (excl. leased depts.) <sup>5, 6</sup>	10	144,017	10	144,017	14,343	16,365	1,651
533	Variety stores	21	7,134	10	6,762	649	926	121
539	Misc. general merchandise stores	26	30,819	15	30,366	2,029	2,294	231
54	Food stores	290	309,460	191	301,847	1,583	29,819	2,855
541	Grocery stores	197	290,979	138	285,481	2,075	27,084	2,502
542	Meat and fish (seafood) markets	(NA)	(NA)	11	5,616	494	606	59
546	Retail bakeries	31	5,194	22	4,871	224	1,353	185
543	Fruit and vegetable markets	(NA)	(NA)	3	1,802	551	186	20
544	Candy, nut, confectionery stores	(NA)	(NA)	6	1,182	193	199	31
55 ex. 554	Automotive dealers	194	342,896	103	333,420	3,246	28,688	1,373
551	New and used car dealers	28	280,529	28	280,529	9,908	22,205	940
552	Used car dealers	75	18,295	15	10,849	726	809	55
553	Auto and home supply stores	67	26,622	46	25,460	551	4,152	286
555	Boat dealers	(NA)	(NA)	5	6,824	1,319	620	35
556	Recreational vehicle dealers	(NA)	(NA)	3	5,538	1,842	437	25
557	Motorcycle dealers	(NA)	(NA)	4	3,475	869	382	27
554	Gasoline service stations	137	104,769	115	101,997	869	6,414	702
56	Apparel and accessory stores	197	79,322	149	77,391	518	9,725	1,121
561	Men's and boys' clothing stores	19	9,017	17	8,869	537	1,361	115
562, 3	Women's clothing, specialty stores	77	29,208	60	28,531	477	3,519	455
562	Women's clothing stores	64	26,366	52	25,868	495	3,150	419
565	Family clothing stores	27	21,472	18	21,117	1,145	2,362	268
568	Shoe stores	43	14,594	39	14,411	365	1,880	205
564	Children's and infants' wear stores	(NA)	(NA)	6	2,101	342	245	37
57	Furniture and homefurnishings stores	180	78,072	110	74,783	682	9,904	703
5712	Furniture stores	46	26,740	33	25,997	793	3,828	247
5713, 4, 9	Homefurnishings stores	63	17,737	32	16,374	512	2,369	176
572	Household appliance stores	17	8,642	11	8,332	744	953	65
573	Radio, television, computer, and music stores	54	24,953	34	24,080	714	2,734	215
5734	Computer and software stores	8	2,799	4	2,651	687	325	22
58	Eating and drinking places	490	153,462	391	148,776	380	38,582	6,100
5812	Eating places	402	142,627	333	139,282	419	36,633	5,787
5812 pt.	Restaurants and lunchrooms	(NA)	(NA)	155	66,364	429	18,796	2,822
5812 pt.	Refreshment places	(NA)	(NA)	138	56,870	412	13,269	2,352
5813	Drinking places	88	10,834	59	9,495	162	1,950	313
591	Drug and proprietary stores	56	54,142	52	53,824	1,031	6,476	574
59 ex. 591	Miscellaneous retail stores	4710	4152,716	284	138,636	489	18,594	1,682
592	Liquor stores	45	19,826	35	18,597	528	1,454	157
593	Used merchandise stores	89	5,217	15	3,502	236	663	69
594	Misc. shopping goods stores	263	53,777	123	49,460	403	6,481	706
5941	Sporting goods, bicycle shops	50	11,256	22	10,077	467	1,218	121
5942	Book stores	19	5,338	11	5,116	462	581	72
5943	Stationery stores	7	1,942	5	1,814	376	287	27
5944	Jewelry stores	50	12,925	28	11,994	428	1,921	163
5945	Hobby, toy, and game shops	28	7,451	10	7,031	730	614	76
5946	Camera, photo supply stores	6	2,383	4	2,294	605	276	21
5947	Gift, novelty, souvenir shops	79	8,446	32	7,459	231	1,055	151
5949	Sewing, needlework, and piece goods stores	22	3,138	10	2,836	294	406	65
596	Nonstore retailers	466	434,878	23	33,994	1,470	4,523	318
5961	Catalog and mail-order houses	31	20,765	7	20,347	2,815	1,932	123
5962	Merchandising machine operators	24	6,258	5	5,692	1,074	1,090	74
5963	Direct selling establishments	411	47,855	11	7,855	746	1,501	121
598	Fuel dealers	17	14,503	13	14,198	1,114	1,824	99
5982	Florists	50	5,441	27	4,810	180	1,019	125
5995	Optical goods stores	15	3,480	14	3,415	251	811	54

NA Not available. <sup>1</sup> Based on 1987 Standard Industrial Classification; see text, section 13. <sup>2</sup> Represents the number of establishments in business at any time during year. <sup>3</sup> For pay period including March 12. <sup>4</sup> Excludes nonemployer direct sellers, SIC 5963. <sup>5</sup> Includes sales from catalog order desks. <sup>6</sup> Establishments defined as department stores with 50 employees or more. <sup>7</sup> Includes other kinds of businesses, not shown separately.

Source: U.S. Bureau of the Census, *1987 Census of Retail Trade*, RC87-A-52 and RC87-N-1.

**No. 1353. Retail Trade—Establishments, Employees, and Payroll: 1987 and 1988**

[Excludes government employees, railroad employees, self-employed persons, etc. For statement on methodology, see Appendix III]

1987 SIC code <sup>1</sup>	KIND OF BUSINESS	ESTABLISHMENTS (1,000)					Em- ploy- ees, 1988 (1,000)	Payroll, 1988 (bil. dol.)	
		1987	1988						
			Total	1-4 employ- ees	5-19 employ- ees	20-99 employ- ees	100 or more employ- ees		
(G)	<b>Retail trade, total . . . . .</b>	<b>1,514.0</b>	<b>1,472.9</b>	<b>661.3</b>	<b>589.9</b>	<b>199.5</b>	<b>22.1</b>	<b>18,802</b>	<b>215.9</b>
52	Building materials and garden supplies <sup>2</sup>	73.0	71.4	33.5	30.3	7.2	0.5	679	10.8
521	Lumber and other building materials	(NA)	27.1	9.4	12.4	4.8	0.5	386	6.8
523	Paint, glass, and wallpaper stores	(NA)	10.2	6.1	3.9	0.3	(Z)	53	0.9
525	Hardware stores	(NA)	19.1	9.7	8.3	1.1	(Z)	140	1.7
526	Retail nurseries and garden stores	(NA)	10.4	5.6	3.9	0.9	(Z)	76	0.9
53	General merchandise stores <sup>2</sup>	36.7	35.1	9.8	10.2	7.6	7.5	2,066	20.1
531	Department stores	(NA)	10.0	0.2	-	2.7	7.1	1,687	16.4
533	Variety stores	(NA)	10.2	2.9	5.6	1.5	0.1	118	0.9
539	Misc. general merchandise stores	(NA)	14.6	6.4	4.5	3.3	0.4	261	2.8
54	Food stores	197.1	183.2	76.7	73.8	27.3	5.4	2,886	31.7
541	Grocery stores	(NA)	132.3	50.0	52.8	24.1	5.4	2,544	28.7
546	Retail bakeries	(NA)	20.4	6.0	10.3	2.0	(Z)	178	1.4
55	Automotive dealers and service stations <sup>2</sup>	209.8	208.3	93.5	92.6	20.6	1.7	2,076	38.7
551	New and used car dealers	(NA)	27.4	3.6	7.8	14.5	1.5	953	24.5
553	Auto and home supply stores	(NA)	44.2	19.7	23.0	1.5	(Z)	287	4.5
554	Gasoline service stations	(NA)	108.1	51.8	52.8	3.4	0.1	683	7.0
56	Apparel and accessory stores <sup>2</sup>	149.6	148.3	66.8	72.2	8.9	0.4	1,157	11.0
561	Men's and boys' clothing and furnishings	(NA)	15.4	6.6	8.0	0.8	(Z)	115	1.5
562	Women's ready-to-wear stores	(NA)	52.8	19.6	29.5	3.5	0.1	451	3.7
565	Family clothing stores	(NA)	17.8	6.1	8.1	3.4	0.2	265	2.5
566	Shoe stores	(NA)	36.5	19.5	18.5	0.4	(Z)	203	2.0
57	Furniture and home furnishings stores <sup>2</sup>	108.0	105.0	56.3	43.0	5.5	0.2	712	11.2
571	Furniture and home furnishings stores	(NA)	61.4	32.6	25.3	3.4	0.1	427	6.8
5712	Furniture stores	(NA)	31.3	15.1	13.9	2.2	0.1	247	4.2
572	Household appliance stores	(NA)	10.4	6.2	3.7	0.5	(Z)	63	1.0
5732	Radio and television stores	(NA)	32.3	16.8	13.9	1.8	0.1	220	3.3
58	Eating and drinking places <sup>2</sup>	388.4	378.5	138.8	136.2	99.6	3.8	6,097	43.2
5812	Eating places	(NA)	317.8	97.7	119.9	96.4	3.8	5,762	40.7
5813	Drinking places	(NA)	52.5	35.1	14.8	2.6	0.1	295	2.0
59	Miscellaneous retail <sup>2</sup>	337.7	326.6	180.1	126.3	19.5	0.8	2,317	28.5
591	Drug stores and proprietary stores	(NA)	50.8	14.4	28.6	7.7	0.1	577	7.0
592	Liquor stores	(NA)	31.9	20.8	10.6	0.6	(Z)	148	1.5
5941	Sporting goods and bicycle shops	(NA)	20.6	12.6	6.8	1.2	(Z)	128	1.4
5944	Jewelry stores	(NA)	27.0	14.2	11.9	0.8	(Z)	160	2.2
5947	Gift, novelty, and souvenir stores	(NA)	30.2	17.6	11.9	0.7	(Z)	157	1.2
5961	Mail order houses	(NA)	6.9	3.6	2.6	0.6	0.2	132	2.2
5963	Direct selling establishments	(NA)	9.3	4.6	3.2	1.5	0.1	121	1.6
5992	Florists	(NA)	25.3	16.0	8.6	0.6	(Z)	125	1.1
5995	Optical goods stores	(NA)	13.7	9.9	3.3	0.4	(Z)	61	1.0
	Administrative and auxiliary	13.7	16.4	5.8	5.3	3.5	1.8	811	20.8

- Represents zero. NA Not available. Z Less than 50. <sup>1</sup> Based on 1987 Standard Industrial Classification; see text, section 13. <sup>2</sup> Includes industries not shown separately.

Source: U.S. Bureau of the Census, *County Business Patterns, 1988*.**No. 1354. Largest Retailing Companies—Sales, Net Income, Assets, and Employees, by Sales Group: 1980 to 1989**

[Sales, net income, and assets in billions of dollars; employees in thousands; except percent. Excludes large privately owned companies that do not publish sales. Includes all reported data for fiscal years ending not later than January following year stated. Minus sign (-) indicates net loss]

RANK BY SALES GROUP	SALES <sup>1</sup>			NET INCOME <sup>2</sup>			ASSETS <sup>3</sup>			EMPLOYEES <sup>4</sup>		
	1980	1985	1989	1980	1985	1989	1980	1985	1989	1980	1985	1989
<b>50 largest . . . . .</b>	<b>200.8</b>	<b>319.3</b>	<b>388.1</b>	<b>3.9</b>	<b>7.6</b>	<b>5.0</b>	<b>96.3</b>	<b>195.0</b>	<b>241.5</b>	<b>3,240</b>	<b>3,887</b>	<b>3,958</b>
Top 10 . . . . .	109.3	168.4	217.0	1.9	3.4	4.8	58.0	114.8	154.3	1,614	1,821	2,131
11th-20th . . . . .	40.6	63.4	71.6	0.5	1.3	0.6	16.4	34.0	35.1	591	720	842
21st-30th . . . . .	23.8	41.8	46.2	0.7	1.5	-0.3	12.3	25.5	22.6	569	764	412
31st-40th . . . . .	15.7	26.7	29.7	0.5	0.6	-0.4	7.3	12.5	17.7	324	317	327
41st-50th . . . . .	11.5	19.1	23.7	0.3	0.8	0.2	4.3	8.2	11.8	143	245	245
<b>Percent of total:</b>												
Top 10 . . . . .	54.4	52.7	55.9	48.7	44.3	(X)	58.2	58.9	63.9	49.8	46.8	53.9
11th-20th . . . . .	20.2	19.9	18.4	12.3	17.0	(X)	17.0	17.4	14.5	18.2	18.5	21.3
21st-30th . . . . .	11.8	13.1	11.9	18.5	20.2	(X)	12.7	13.1	9.4	17.6	20.2	10.4
31st-40th . . . . .	7.8	8.4	7.6	13.8	8.3	(X)	7.6	8.4	7.3	10.0	8.1	8.3
41st-50th . . . . .	5.7	6.0	6.1	6.8	10.2	(X)	4.5	4.2	4.9	4.4	6.3	6.2

X Not applicable. <sup>1</sup> Includes sales of subsidiaries when they are consolidated and sales from discontinued operations. <sup>2</sup> After taxes, and extraordinary charges and credits. <sup>3</sup> Total assets employed in business at end of fiscal year. <sup>4</sup> As of year end, or yearly average.

Source: Time, Inc., New York, NY, adapted from *The Fortune Directories*. (Copyright.)

## No. 1355. Retail Trade Sales—Summary: 1970 to 1990

[Sales and inventories for leased departments and concessions are tabulated in the kind-of-business category of the leased department or concession. Based on Current Business Survey, see Appendix III. Minus sign (-) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series T 245, 246, and 255]

YEAR	CURRENT DOLLARS						CONSTANT (1982) dollars <sup>4</sup>			
	Total sales (bil. dol.)	Annual percent change <sup>1</sup>	Per capita <sup>2</sup> (dol.)	Index of sales (1982=100)	Durable goods (bil. dol.)	Nondurable goods (bil. dol.)		Total sales (bil. dol.)	Annual percent change <sup>1</sup>	Per capita <sup>2</sup> (dol.)
						Total	Dept. stores <sup>3</sup>			
1970	375.2	6.4	1,839	35.1	114.8	260.3	37.4	822.7	2.5	4,033
1971	414.2	10.4	2,002	38.7	135.4	278.8	41.8	874.7	6.3	4,229
1972	458.5	10.7	2,191	42.9	156.3	302.2	45.9	945.6	8.1	4,518
1973	511.9	11.6	2,422	47.9	177.2	334.7	51.0	990.7	4.8	4,887
1974	542.0	5.9	2,541	50.7	172.9	369.1	53.8	937.4	-5.4	4,394
1975	588.1	8.5	2,730	55.0	185.9	402.2	57.5	944.0	0.7	4,381
1976	656.4	11.6	3,017	61.4	220.4	436.0	63.5	1,007.2	6.7	4,629
1977	722.5	10.1	3,288	67.6	249.4	473.1	71.1	1,053.3	4.6	4,793
1978	804.2	11.3	3,621	75.2	281.4	522.7	78.0	1,096.0	4.1	4,935
1979	896.6	11.5	3,993	83.9	307.5	589.2	82.5	1,112.8	1.5	4,955
1980	957.4	6.7	4,213	89.5	299.2	658.1	88.3	1,074.8	-3.4	4,730
1981	1,038.7	8.5	4,527	97.1	324.8	713.9	98.9	1,078.5	0.3	4,700
1982	1,069.4	3.0	4,616	100.0	336.2	733.2	103.3	1,069.4	-0.8	4,616
1983	1,170.8	9.5	5,008	109.5	391.6	779.3	112.1	1,145.6	7.1	4,900
1984	1,287.8	10.0	5,461	120.4	455.3	832.5	124.1	1,228.8	7.3	5,211
1985	1,375.7	6.8	5,782	128.6	498.8	876.9	129.8	1,285.7	4.6	5,404
1986	1,450.3	5.4	6,039	135.6	541.5	908.9	137.8	1,359.2	5.7	5,660
1987	1,542.1	6.3	6,364	144.2	576.6	965.5	147.2	1,394.3	2.6	5,754
1988	1,651.4	7.1	6,753	154.4	627.4	1,024.0	155.1	1,448.6	3.9	5,924
1989	1,741.7	5.5	7,057	162.9	652.2	1,089.6	164.4	1,473.6	1.7	5,970
1990	1,807.2	3.8	7,244	169.0	654.8	1,152.5	170.7	1,468.9	-0.5	5,880

<sup>1</sup> Change from immediate prior year. <sup>2</sup> Based on Bureau of the Census estimates of resident population as of July 1. Estimates used here reflect the census of April 1, 1990 and are subject to change. <sup>3</sup> Excludes leased departments. <sup>4</sup> Based on implicit price deflators for retail sales supplied by U.S. Bureau of Economic Analysis.

## No. 1356. Retail Trade—Sales, by Kind of Business: 1980 to 1990

[In billions of dollars. See headnote, table 1355. Based on Current Business Survey, see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series T 245-271]

1972 SIC code <sup>1</sup>	KIND OF BUSINESS	1980	1984	1985	1986	1987	1988	1989	1990
	<b>Retail trade, total</b>	<b>957.4</b>	<b>1,287.8</b>	<b>1,375.7</b>	<b>1,450.3</b>	<b>1,542.1</b>	<b>1,651.4</b>	<b>1,741.7</b>	<b>1,807.2</b>
	<b>Durable goods stores, total <sup>2</sup></b>	<b>299.2</b>	<b>455.3</b>	<b>498.8</b>	<b>541.5</b>	<b>576.6</b>	<b>627.4</b>	<b>652.2</b>	<b>654.8</b>
55 exc. 554	Automotive dealers	164.1	273.4	303.3	326.3	342.9	371.6	383.6	382.0
551,2,5,6,7,9	Motor vehicle, misc. automotive dealers	146.2	250.3	278.1	301.2	316.3	341.8	353.8	351.0
551,2,5,6,7,9	Motor vehicle dealers	137.7	236.7	263.1	284.5	298.8	323.8	335.3	334.0
551	Motor vehicle dealers, franchised	130.5	225.9	251.6	270.4	280.5	302.4	309.7	308.4
553	Auto and home supply stores	18.0	23.1	25.2	25.1	26.6	29.7	29.8	31.0
52	Building materials, hardware, garden supply, mobile home dealers <sup>2</sup>	50.8	67.1	71.2	77.1	83.5	91.2	92.7	92.5
521,3	Building materials, supply stores	35.0	47.1	50.8	56.5	61.3	66.6	67.0	66.8
525	Hardware stores	8.3	10.4	10.5	10.7	11.0	11.9	12.6	13.3
57	Furniture, home furnishings, equipment <sup>2</sup>	44.2	61.4	68.3	75.7	78.1	85.4	91.5	93.0
571	Furniture, home furnishings stores	26.3	35.6	38.3	43.0	44.5	47.5	51.1	51.6
5722,32	Household appliance, radio, TV	14.0	21.5	25.1	27.0	27.1	30.5	32.4	33.0
	<b>Nondurable goods stores, total <sup>2</sup></b>	<b>658.1</b>	<b>832.5</b>	<b>876.9</b>	<b>908.9</b>	<b>965.5</b>	<b>1,024.0</b>	<b>1,089.6</b>	<b>1,152.5</b>
56	Apparel and accessory stores <sup>2</sup>	49.3	64.3	70.2	75.6	79.3	84.9	91.4	94.7
561	Men's, boys' clothing, furnishings	7.7	8.2	8.5	8.6	9.0	9.4	9.5	9.5
562,3,8	Women's clothing, specialty stores, furriers	17.6	23.8	26.1	28.6	29.2	30.8	32.6	33.1
562	Women's ready-to-wear stores	15.9	21.2	23.6	25.7	26.4	27.5	29.3	29.8
565	Family clothing stores	10.8	16.4	17.8	19.3	21.5	23.6	25.8	28.0
566	Shoe stores	10.5	12.3	13.1	13.9	14.6	15.4	17.2	17.9
591	Drug and proprietary stores	31.0	44.0	47.0	50.5	54.1	57.4	62.5	66.6
58	Eating and drinking places	90.1	121.3	127.9	139.4	153.5	166.9	173.9	182.0
5812	Eating places	80.4	111.5	117.6	128.6	142.6	155.4	162.2	170.3
54	Food stores	220.2	271.9	285.1	297.0	309.5	326.5	345.1	362.4
541	Grocery stores	205.6	256.5	269.5	280.8	291.0	307.2	324.0	338.7
554	Gasoline service stations	94.1	107.6	113.3	102.1	104.8	107.9	117.8	131.7
53	General merchandise group stores	108.7	150.3	158.6	169.2	182.0	191.8	204.4	211.9
531	Department stores	88.3	124.1	129.8	137.8	147.2	155.1	164.4	170.7
533	Variety stores	7.8	8.7	8.5	7.4	7.1	7.2	7.4	7.3
539	Misc. gen. merchandise group stores <sup>4</sup>	12.6	17.6	20.3	24.0	27.7	29.5	32.7	33.9
592	Liquor stores	16.9	18.3	19.5	19.9	19.8	19.6	20.0	20.8
596	Non-store retailers	22.6	27.8	28.3	30.3	35.9	41.2	45.2	50.3
5961 pt.	Mail-order houses (department store merchandise)	4.3	5.1	4.7	4.3	4.1	4.4	4.7	4.7

<sup>1</sup> Based on 1972 Standard Industrial Classification code; see text, section 13. <sup>2</sup> Includes kinds of business, not shown separately. <sup>3</sup> Excludes leased departments. <sup>4</sup> Includes catalog showroom stores.

Source of tables 1355 and 1356: U.S. Bureau of the Census, *Current Business Reports, Revised Monthly Retail Sales and Inventories, January 1981 Through December 1990*, (BR/90-R), prior issues, and unpublished data.

### No. 1357. Retail Trade—Sales of Multiunit Organizations, by Kind of Business: 1980 to 1990

[Data based on sales of companies which had 11 or more retail establishments according to the most recent update of multiestablishment files selected with certainty (i.e., their sales size exceeded specified dollar volume cutoffs which varied by kind of business). For details, see source. See also *Historical Statistics, Colonial Times to 1970*, series T 197-219]

1972 SIC code <sup>1</sup>	KIND OF BUSINESS	SALES (bil. dol.)								PERCENT OF TOTAL RETAIL SALES	
		1980	1985	1986	1987	1988	1989	1990	1980	1990	
	<b>Total sales . . . . .</b>	<b>357.2</b>	<b>514.3</b>	<b>537.6</b>	<b>572.3</b>	<b>608.4</b>	<b>648.4</b>	<b>685.9</b>	<b>37.3</b>	<b>38.0</b>	
	<b>Durable goods stores . . . . .</b>	<b>34.2</b>	<b>54.6</b>	<b>58.8</b>	<b>66.1</b>	<b>72.9</b>	<b>77.1</b>	<b>81.1</b>	<b>11.4</b>	<b>12.4</b>	
553	Auto and home supply stores . . . . .	4.7	5.9	6.5	7.1	7.5	7.9	8.6	26.2	27.7	
	<b>Nondurable goods stores . . . . .</b>	<b>322.9</b>	<b>459.7</b>	<b>478.8</b>	<b>506.3</b>	<b>535.4</b>	<b>571.2</b>	<b>604.8</b>	<b>49.1</b>	<b>52.5</b>	
56	Apparel and accessory stores . . . . .	21.1	35.9	39.6	42.6	45.5	50.1	53.3	42.7	56.3	
562,3,8	Women's clothing specialty stores, furriers . . . . .	8.3	13.6	15.2	16.0	16.4	18.0	18.8	47.1	56.7	
566	Shoe stores . . . . .	5.3	7.7	8.6	8.9	9.6	10.8	11.3	50.8	63.2	
591	Drug and proprietary stores . . . . .	16.8	27.9	29.4	31.8	33.8	37.5	41.9	54.3	61.2	
54	Food stores . . . . .	119.8	162.5	168.6	176.1	185.1	193.0	202.9	54.4	56.0	
541	Grocery stores . . . . .	118.1	160.2	166.4	173.9	182.7	190.4	200.0	57.4	59.1	
53	General merchandise group . . . . .	98.5	145.9	156.0	166.2	176.3	187.5	194.5	50.6	51.8	
531	Department stores . . . . .	84.9	125.7	133.7	142.7	150.1	158.9	165.5	96.1	96.9	
533	Variety stores . . . . .	6.3	7.0	6.0	5.7	5.7	5.8	5.6	80.9	77.4	
539	Misc. general merchandise group stores . . . . .	7.3	13.2	16.3	17.8	20.5	22.8	23.3	58.1	68.8	
5812	Eating places . . . . .	22.6	33.8	36.4	39.7	42.0	44.4	46.0	28.1	27.0	

<sup>1</sup> Based on 1972 Standard Industrial Classification code; see text, section 13. <sup>2</sup> Includes kinds of business not shown separately.

Source: U.S. Bureau of the Census, *Current Business Reports, Revised Monthly Retail Sales and Inventories, January 1981 Through December 1990* (BR/90-R) and prior issues.

### No. 1358. Retail Trade—Merchandise Inventories and Sales-Inventory Ratios, by Kind of Business: 1985 to 1989

[As of Dec. 31. Includes warehouses. See headnote, table 1355]

1972 SIC code <sup>1</sup>	KIND OF BUSINESS	INVENTORIES AT COST <sup>2</sup> (bil. dol.)				SALES-INVENTORY RATIOS <sup>3</sup>			
		1985	1987	1988	1989	1985	1987	1988	1989
	<b>Total . . . . .</b>	<b>176.9</b>	<b>203.3</b>	<b>215.0</b>	<b>233.0</b>	<b>7.8</b>	<b>7.6</b>	<b>7.7</b>	<b>7.5</b>
	<b>Total (excluding automotive dealers) . . . . .</b>	<b>130.4</b>	<b>145.5</b>	<b>154.0</b>	<b>166.6</b>	<b>8.2</b>	<b>8.2</b>	<b>8.3</b>	<b>8.2</b>
	<b>Durable goods stores<sup>4</sup> . . . . .</b>	<b>87.8</b>	<b>105.8</b>	<b>112.7</b>	<b>121.2</b>	<b>5.7</b>	<b>5.4</b>	<b>5.6</b>	<b>5.4</b>
55 exc. 554	Automotive dealers . . . . .	46.4	57.8	61.0	68.4	6.5	5.9	6.1	5.8
551,2,5,6,7,9	Motor vehicle and misc. automotive dealers . . . . .	41.7	52.9	55.9	61.3	6.7	6.0	6.1	5.8
551,2	Motor vehicle dealers . . . . .	38.2	48.8	51.2	56.4	6.9	6.1	6.3	5.9
551	Motor vehicle dealers (franchised) . . . . .	36.5	46.0	48.2	52.7	6.9	6.1	6.3	5.9
553	Automotive and home supply stores . . . . .	4.7	4.9	5.1	5.1	5.4	5.4	5.9	5.8
52	Building materials, hardware, garden supplies, mobile home dealers . . . . .	13.1	14.2	15.2	15.9	5.5	5.9	6.0	5.8
521,3,5	Building materials, supply, hardware stores . . . . .	11.2	12.1	12.8	13.4	5.5	6.0	6.1	6.0
521,3	Building materials and supply stores . . . . .	8.4	9.3	10.0	10.4	6.0	6.6	6.7	6.5
525	Hardware stores . . . . .	2.8	2.8	2.8	3.0	3.8	3.9	4.2	4.2
57	Furniture, home furnishings, equipment stores . . . . .	13.7	15.0	16.1	17.0	5.0	5.2	5.3	5.4
571	Furniture, home furnishings . . . . .	7.1	8.0	8.3	9.1	5.4	5.5	5.7	5.6
5712	Furniture stores . . . . .	4.9	5.3	5.3	6.0	4.9	5.1	5.1	5.0
5722,32	Household appliance, radio, TV . . . . .	5.2	5.2	5.8	5.7	4.8	5.2	5.2	5.7
5722	Household appliance stores . . . . .	1.5	1.5	1.6	1.7	5.9	5.7	5.5	5.5
5944	Jewelry stores . . . . .	4.6	5.2	5.9	5.9	2.4	2.5	2.4	2.4
	<b>Nondurable goods stores<sup>4</sup> . . . . .</b>	<b>89.1</b>	<b>97.4</b>	<b>102.4</b>	<b>111.8</b>	<b>9.8</b>	<b>9.9</b>	<b>10.0</b>	<b>9.7</b>
56	Apparel and accessory stores . . . . .	14.6	15.9	16.5	17.7	4.8	5.0	5.1	5.2
561	Men's, boys' clothing, furnishings . . . . .	2.1	2.1	2.1	2.3	4.1	4.2	4.4	4.2
562	Women's ready-to-wear stores . . . . .	3.8	4.3	4.3	4.4	6.2	6.2	6.5	6.7
565	Family clothing stores . . . . .	3.7	4.2	4.4	5.0	4.8	5.2	5.3	5.2
566	Shoe stores . . . . .	3.2	3.5	3.9	4.2	4.1	4.1	4.0	4.1
591	Drug and proprietary stores . . . . .	8.8	10.1	10.5	11.8	5.4	5.4	5.4	5.3
58	Eating and drinking places . . . . .	3.2	3.4	3.3	3.5	39.5	45.6	50.2	49.7
54	Food stores . . . . .	19.5	20.0	21.8	23.4	14.6	15.5	14.9	14.7
541	Grocery stores . . . . .	18.7	19.2	21.0	22.4	14.4	15.2	14.7	14.5
554	Gasoline service stations . . . . .	3.3	3.1	3.0	3.5	34.2	33.5	35.8	33.2
53	General merchandise group stores . . . . .	31.3	34.8	36.1	40.1	5.1	5.2	5.3	5.1
531,9	Dept. stores, misc. general merchandise stores . . . . .	29.1	32.9	34.2	38.1	5.2	5.3	5.4	5.2
531	Department stores . . . . .	24.0	26.6	27.9	31.2	5.4	5.5	5.6	5.3
533	Variety stores . . . . .	2.1	1.8	1.9	2.0	4.0	3.9	3.8	3.7
592	Liquor stores . . . . .	2.3	2.5	2.4	2.5	8.4	7.9	8.3	8.0

<sup>1</sup> Based on 1972 Standard Industrial Classification code; see text, section 13. <sup>2</sup> Excludes supplies and equipment used in store and warehouse operations that are not for resale. Not adjusted for seasonal variation. <sup>3</sup> Relates annual sales to yearend inventories. <sup>4</sup> Includes kinds of business not shown separately.

Source: U.S. Bureau of the Census, *Current Business Reports*, series BR, *Annual and Monthly Retail Trade Reports*.

## No. 1359. Retail Trade—Sales by Broad Merchandise Lines: 1982 and 1987

[For establishments with payroll]

MERCHANDISE LINES	1982			1987			
	Estab- lish- ments (1,000)	Sales of specified merchandise lines		Estab- lish- ments (1,000)	Sales of specified merchandise lines		
		Total (mil. dol.)	Percent distrib- ution		Total (mil. dol.)	Percent distrib- ution	Percent of total sales of estab- lishments handling line
<b>Retail trade, total</b> .....	<b>21,330</b>	<b>1,039,029</b>	<b>100.0</b>	<b>21,504</b>	<b>1,493,309</b>	<b>100.0</b>	<b>(X)</b>
Groceries and other food .....	267	198,705	19.1	369	247,410	16.6	42.9
Meals and snacks .....	391	92,877	8.9	478	137,954	9.2	40.7
Alcoholic drinks .....	140	14,965	1.4	170	18,721	1.3	27.9
Packaged alcoholic beverages .....	157	25,633	2.5	179	29,651	2.0	11.3
Cigars, cigarettes, and tobacco .....	241	14,664	1.4	275	23,231	1.6	5.0
Drugs, health and beauty aids .....	187	42,337	4.1	219	68,040	4.6	13.2
Soaps, detergents, and household cleaners .....	(3)	(3)	(3)	116	9,902	0.7	3.3
Paper and related products .....	(3)	(3)	(3)	119	9,232	0.6	3.1
Men's, boys' wear, except footwear .....	104	29,461	2.8	117	41,647	2.8	16.9
Women's, girls' wear, except footwear .....	146	57,553	5.5	175	85,617	5.7	29.2
Footwear, except infant's and toddler's .....	112	17,017	1.6	111	22,732	1.5	11.4
Sewing, knitting, and needlework goods .....	45	4,132	0.4	37	4,155	0.3	4.7
Curtains, draperies, and dry goods .....	65	8,926	0.9	68	13,037	0.9	6.3
Major household appliances .....	61	11,337	1.1	66	17,571	1.2	10.6
Small electric appliances .....	70	4,381	0.4	80	6,245	0.4	2.6
TV's and video recorders and tapes .....	59	6,841	0.7	66	13,380	0.9	7.8
Audio equipment, musical instruments and supplies .....	74	11,279	1.1	86	16,944	1.1	8.2
Furniture and sleep equipment .....	68	19,086	1.8	79	29,843	2.0	14.4
Floor coverings .....	57	6,908	0.7	59	11,385	0.8	7.1
Computer hardware and software, and calculating equipment and supplies .....	(3)	(3)	(3)	30	5,828	0.4	4.8
Kitchenware and home furnishings .....	150	15,642	1.5	167	21,512	1.4	6.4
Jewelry .....	95	12,133	1.2	118	20,691	1.4	8.3
Photographic equipment and supplies .....	(3)	(3)	(3)	64	5,381	0.4	2.7
Toys, hobby goods, and games .....	(3)	(3)	(3)	106	12,917	0.9	5.4
Optical goods .....	21	1,851	0.2	29	3,717	0.2	5.0
Sporting goods .....	70	13,038	1.3	73	21,190	1.4	12.0
Recreational vehicles .....	6	2,957	0.3	9	6,092	0.4	14.4
Hardware, tools, plumbing, and electrical supplies .....	103	13,978	1.3	107	20,784	1.4	8.3
Lawn, garden equipment, and supplies .....	95	11,189	1.1	119	16,847	1.1	6.2
Lumber and building materials .....	74	32,179	3.1	65	45,491	3.0	33.3
Paint and related preservatives and supplies .....	5	3,795	0.4	57	7,103	0.5	5.7
Mobile homes .....	5	3,795	0.4	5	4,866	0.3	87.6
Cars, trucks, powered vehicles .....	49	139,687	13.4	51	251,243	16.8	84.0
Automotive fuels .....	156	89,288	8.6	151	87,432	5.9	55.6
Automotive lubricants .....	157	2,850	0.3	154	3,021	0.2	0.9
Automobile tires, batteries, accessories .....	166	31,050	3.0	158	37,734	2.5	8.1
Household fuels .....	21	14,791	1.4	26	12,450	0.8	46.1
Pets, pet food, and supplies .....	(3)	(3)	(3)	82	5,009	0.3	2.8
All other merchandise .....	269	52,892	5.1	261	37,211	2.5	9.2
Unclassified merchandise .....	147	5,451	0.5	161	6,708	0.4	2.3
Nonmerchandise receipts .....	249	30,355	2.9	342	52,381	3.5	8.2

X Not applicable. <sup>1</sup> Excludes establishments not in business at end of year. <sup>2</sup> Detail will not add to total because establishments may carry more than one merchandise line. <sup>3</sup> Included in "All other merchandise".

Source: U.S. Bureau of the Census, *Census of Retail Trade, 1982, and 1987, Merchandise Line Sales*, RC82-L and RC87-S-3.



**No. 1360. Retail Trade—Summary of Establishments, by State: 1987**

(Kind-of-business classification based on 1987 Standard Industrial Classification code; see text, section 13)

DIVISION AND STATE	Estab-lish-ments	Sales (mil. dol.)	Annual payroll (mil. dol.)	Paid employ-ees <sup>1</sup> (1,000)	DIVISION AND STATE	Estab-lish-ments	Sales (mil. dol.)	Annual payroll (mil. dol.)	Paid employ-ees <sup>1</sup> (1,000)
<b>U.S.</b>	<b>2,419,641</b>	<b>1,540,263</b>	<b>177,548</b>	<b>17,780</b>	VA	52,634	39,785	4,557	453
<b>N.E.</b>	<b>137,866</b>	<b>101,632</b>	<b>11,900</b>	<b>1,115</b>	WV	17,621	9,349	984	109
ME	15,242	8,940	959	92	NC	69,125	40,651	4,423	465
NH	12,928	10,212	1,122	102	SC	36,493	19,750	2,177	237
VT	7,981	4,177	473	47	GA	61,886	41,186	4,792	487
MA	58,623	45,997	5,483	530	FL	130,508	90,295	10,297	1,023
RI	10,276	6,521	772	76	<b>E.S.C.</b>	<b>155,870</b>	<b>83,825</b>	<b>8,952</b>	<b>972</b>
CT	32,816	25,785	3,081	268	KY	38,507	19,872	2,132	244
<b>M.A.</b>	<b>354,778</b>	<b>236,566</b>	<b>27,338</b>	<b>2,564</b>	TN	50,423	29,694	3,198	338
NY	171,579	106,453	12,774	1,150	AL	40,218	22,688	2,357	250
NJ	74,524	58,326	6,467	566	MS	26,522	11,991	1,265	140
PA	118,675	73,787	8,097	848	<b>W.S.C.</b>	<b>277,131</b>	<b>152,359</b>	<b>17,171</b>	<b>1,798</b>
<b>E.N.C.</b>	<b>381,109</b>	<b>255,197</b>	<b>29,029</b>	<b>3,081</b>	AR	27,040	12,319	1,246	139
OH	96,973	64,705	7,434	804	LA	40,465	22,446	2,570	278
IN	53,633	33,992	3,727	412	OK	35,949	16,913	1,859	207
IL	98,468	69,937	8,078	820	TX	173,677	100,682	11,496	1,174
MI	80,743	58,026	6,584	673	<b>Mt.</b>	<b>134,395</b>	<b>80,171</b>	<b>9,487</b>	<b>977</b>
WI	50,292	28,537	3,206	372	MT	10,720	4,511	503	57
<b>W.N.C.</b>	<b>189,743</b>	<b>105,042</b>	<b>11,685</b>	<b>1,317</b>	ID	10,953	5,082	556	63
MN	42,874	28,008	3,086	347	WY	6,023	2,614	308	33
IA	32,338	15,581	1,705	204	CO	36,131	21,287	2,668	268
MO	52,540	31,142	3,538	376	NM	15,168	8,202	941	105
ND	7,803	3,849	408	48	AZ	31,519	22,360	2,624	261
SD	8,736	3,822	408	49	UT	13,827	8,620	963	109
NE	17,896	8,776	970	118	NV	10,054	7,495	924	81
KS	27,556	13,863	1,570	175	<b>Pac.</b>	<b>360,529</b>	<b>243,233</b>	<b>29,661</b>	<b>2,693</b>
<b>S.A.</b>	<b>418,420</b>	<b>282,239</b>	<b>32,326</b>	<b>3,263</b>	WA	44,759	27,939	3,402	329
DE	6,380	5,077	568	56	OR	29,488	17,340	2,027	204
MD	39,495	32,680	3,945	378	CA	268,873	185,959	22,732	2,022
DC	4,478	3,465	575	55	AK	6,266	3,728	484	36
					HI	11,143	8,267	1,016	102

<sup>1</sup> For pay period including March 12.

Source: U.S. Bureau of the Census, 1987 Census of Retail Trade, Geographic Area Series, RC87-A-1 to 52; and Nonemployer Statistics Series, RC87-N-1 to 4.

**No. 1361. Retail Trade—Sales, by Metropolitan Area: 1987**

[Covers only establishments with payroll. Areas as defined by U.S. Office of Management and Budget, June 30, 1987. CMSA=consolidated metropolitan statistical area. MSA=metropolitan statistical area. NECMA=New England county metropolitan area. For definition, see Appendix I]

METROPOLITAN AREAS RANKED BY VOLUME OF SALES	Total sales (mil. dol.)	Sales per household <sup>1</sup> (dol.)	METROPOLITAN AREAS RANKED BY VOLUME OF SALES PER HOUSEHOLD	Total sales (mil. dol.)	Sales per household <sup>1</sup> (dol.)
New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA <sup>2</sup>	112,286	16,580	St. Cloud, MN MSA	1,894	32,711
Los Angeles-Anaheim-Riverside, CA CMSA	88,645	18,174	Portland, ME NECMA	2,634	29,467
Chicago-Gary-Lake County, IL-IN-WI CMSA	50,221	17,040	Manchester-Nashua, NH NECMA	3,101	26,079
San Francisco-Oakland-San Jose, CA CMSA	41,889	18,125	Portsmouth-Dover-Rochester, NH NECMA	3,126	25,964
Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA	38,362	17,790	Terre Haute, IN MSA	1,264	25,592
Detroit-Ann Arbor, MI CMSA	29,974	17,630	Bridgeport-Stamford-Norwalk-Danbury, CT NECMA	7,273	24,274
Boston-Lawrence-Salem-Lowell-Brockton, MA NECMA	28,824	20,700	Honolulu, HI MSA	6,080	23,187
Washington, DC-MD-VA MSA	27,984	20,636	Anchorage, AK MSA	1,952	22,944
Dallas-Fort Worth, TX CMSA	26,866	19,541	Bangor, ME NECMA	1,116	22,828
Miami-Fort Lauderdale, FL CMSA	23,188	19,165	Burlington, VT NECMA	1,088	22,658
Houston-Galveston-Brazoria, TX CMSA	22,089	16,632	Rochester, MN MSA	823	22,373
Atlanta, GA MSA	20,714	20,938	Atlantic City, NJ MSA	2,693	22,182
Minneapolis-St. Paul, MN-WI MSA	16,762	18,927	Orlando, FL MSA	8,095	22,124
Cleveland-Akron-Lorain, OH CMSA	16,618	15,786	Rapid City, SD MSA	655	21,904
Seattle-Tacoma, WA CMSA	16,030	17,189	Grand Forks, ND MSA	519	21,441

<sup>1</sup> Based on number of households estimated as of July 1, 1987. <sup>2</sup> Includes Bridgeport-Stamford-Norwalk-Danbury, CT NECMA.

Source: U.S. Bureau of the Census, 1987 Census of Retail Trade, Geographic Area Series, RC87-A-52.

## No. 1362. Retail Sales—

[In millions of dollars, except as indicated. Kind-of-business classification based on

REGION, DIVISION, AND STATE	ALL STORES <sup>1</sup>				FOOD STORES				GENERAL MERCHANDISE STORES			
	1987, total	1989			Total		Supermarkets		Total		Department stores	
		Total	Sales per household <sup>2</sup>		1987	1989	1987	1989	1987	1989	1987	1989
			Amount (dol.)	Percent change, 1987- 1989								
<b>U.S. . . . .</b>	<b>1,540,263</b>	<b>1,722,086</b>	<b>18,534</b>	<b>8.3</b>	<b>309,433</b>	<b>349,811</b>	<b>290,552</b>	<b>328,415</b>	<b>182,257</b>	<b>203,280</b>	<b>144,367</b>	<b>161,133</b>
<b>Northeast . . . . .</b>	<b>338,197</b>	<b>379,036</b>	<b>18,785</b>	<b>9.8</b>	<b>66,778</b>	<b>78,279</b>	<b>60,828</b>	<b>71,343</b>	<b>36,754</b>	<b>39,131</b>	<b>30,011</b>	<b>31,956</b>
<b>N.E. . . . .</b>	<b>101,832</b>	<b>114,023</b>	<b>23,180</b>	<b>9.2</b>	<b>18,752</b>	<b>22,615</b>	<b>17,151</b>	<b>20,684</b>	<b>10,864</b>	<b>11,207</b>	<b>8,445</b>	<b>8,889</b>
ME . . . . .	8,940	10,103	21,542	8.0	1,855	2,222	1,756	2,102	822	874	570	604
NH . . . . .	10,212	11,509	27,866	6.7	1,944	2,331	1,851	2,219	1,185	1,295	847	927
VT . . . . .	4,177	4,729	21,894	6.9	862	1,037	812	977	304	322	211	223
MA . . . . .	45,997	51,106	22,866	8.9	8,266	9,943	7,419	8,928	4,948	4,935	3,917	3,910
RI . . . . .	6,521	7,383	19,635	11.1	1,212	1,484	1,056	1,293	776	820	611	647
CT . . . . .	25,785	29,193	24,106	11.2	4,613	5,599	4,256	5,166	2,629	2,961	2,288	2,576
<b>M.A. . . . .</b>	<b>236,566</b>	<b>265,013</b>	<b>18,612</b>	<b>10.0</b>	<b>48,026</b>	<b>55,664</b>	<b>43,674</b>	<b>50,595</b>	<b>26,099</b>	<b>27,924</b>	<b>21,565</b>	<b>23,067</b>
NY . . . . .	106,453	122,453	17,895	13.1	21,920	25,700	19,478	22,884	11,540	12,564	9,246	10,049
NJ . . . . .	56,326	60,972	21,334	6.3	11,369	12,904	10,479	11,903	5,742	6,162	4,884	5,251
PA . . . . .	73,787	81,589	17,979	8.4	14,837	17,060	13,720	15,772	8,808	9,198	7,435	7,767
<b>Midwest . . . . .</b>	<b>360,239</b>	<b>403,121</b>	<b>17,744</b>	<b>9.2</b>	<b>68,152</b>	<b>75,679</b>	<b>63,974</b>	<b>71,035</b>	<b>45,692</b>	<b>52,118</b>	<b>37,656</b>	<b>42,991</b>
<b>E.N.C. . . . .</b>	<b>255,197</b>	<b>284,608</b>	<b>17,916</b>	<b>8.9</b>	<b>47,744</b>	<b>52,779</b>	<b>44,574</b>	<b>49,277</b>	<b>32,010</b>	<b>36,406</b>	<b>26,810</b>	<b>30,530</b>
OH . . . . .	64,705	69,923	18,817	5.6	13,221	14,076	12,428	13,238	8,374	9,186	6,882	7,545
IN . . . . .	33,992	37,143	17,670	6.5	6,207	6,489	5,911	6,179	4,086	4,486	3,254	3,575
IL . . . . .	69,937	78,949	18,066	10.4	12,724	14,488	11,843	13,484	8,071	9,272	6,857	7,877
MI . . . . .	58,026	64,943	18,967	9.7	10,136	11,299	9,289	10,361	8,065	9,282	7,119	8,207
WI . . . . .	28,537	33,649	18,268	14.3	5,456	6,427	5,104	6,014	3,414	4,179	2,718	3,327
<b>W.N.C. . . . .</b>	<b>105,042</b>	<b>118,513</b>	<b>17,344</b>	<b>10.0</b>	<b>20,408</b>	<b>22,899</b>	<b>19,400</b>	<b>21,758</b>	<b>13,682</b>	<b>15,712</b>	<b>10,846</b>	<b>12,461</b>
MN . . . . .	28,008	32,208	19,603	10.9	5,008	5,743	4,737	5,434	3,767	4,438	2,796	3,291
IA . . . . .	15,581	17,801	16,227	11.9	3,368	3,980	3,228	3,814	1,945	2,163	1,526	1,695
MO . . . . .	31,142	34,070	17,138	6.8	5,977	6,329	5,724	6,064	4,184	4,684	3,535	3,966
ND . . . . .	3,848	4,409	17,850	14.1	700	801	672	769	501	577	386	446
SD . . . . .	3,822	4,366	16,109	11.7	757	880	725	844	392	466	294	350
NE . . . . .	8,776	10,001	16,078	11.2	1,719	1,996	1,538	1,779	1,090	1,237	870	990
KS . . . . .	13,863	15,659	16,227	10.3	2,678	3,169	2,775	3,054	1,802	2,146	1,440	1,724
<b>South . . . . .</b>	<b>518,423</b>	<b>572,898</b>	<b>17,924</b>	<b>6.8</b>	<b>107,316</b>	<b>120,205</b>	<b>102,648</b>	<b>114,995</b>	<b>61,502</b>	<b>70,214</b>	<b>48,012</b>	<b>54,857</b>
<b>S.A. . . . .</b>	<b>282,239</b>	<b>306,821</b>	<b>18,734</b>	<b>3.9</b>	<b>55,731</b>	<b>61,962</b>	<b>53,076</b>	<b>59,012</b>	<b>31,379</b>	<b>35,759</b>	<b>24,707</b>	<b>28,195</b>
DE . . . . .	5,077	5,586	22,343	4.7	918	1,040	851	965	698	820	606	712
MD . . . . .	32,680	35,045	20,269	2.7	6,222	6,857	5,844	6,447	3,750	4,150	2,993	3,326
DC . . . . .	3,465	3,812	15,819	13.7	597	658	537	592	315	378	272	326
VA . . . . .	39,785	44,840	19,719	7.6	8,183	9,344	7,924	9,050	4,330	5,138	3,358	4,002
WV . . . . .	9,349	10,204	14,412	9.1	2,195	2,347	2,083	2,227	1,319	1,507	884	1,008
NC . . . . .	40,651	44,059	17,638	3.7	8,109	8,776	7,862	8,507	4,062	4,727	2,999	3,498
SC . . . . .	19,750	21,713	17,440	5.9	4,222	4,718	4,085	4,565	2,030	2,378	1,533	1,799
GA . . . . .	41,186	43,961	18,612	2.0	7,902	8,418	7,636	8,137	4,921	5,639	3,987	4,562
FL . . . . .	90,295	97,600	19,243	1.9	17,385	19,803	16,254	18,522	9,953	11,023	8,076	8,961
<b>E.S.C. . . . .</b>	<b>83,825</b>	<b>91,924</b>	<b>16,054</b>	<b>6.9</b>	<b>17,781</b>	<b>18,199</b>	<b>17,071</b>	<b>17,480</b>	<b>10,735</b>	<b>11,994</b>	<b>6,282</b>	<b>9,257</b>
KY . . . . .	19,872	22,466	16,093	10.7	4,437	4,667	4,276	4,498	2,581	2,969	1,985	2,290
TN . . . . .	29,694	30,909	16,423	0.7	5,842	5,645	5,583	5,397	3,823	3,999	3,012	3,157
AL . . . . .	22,268	25,123	16,539	10.1	4,638	4,885	4,443	4,682	2,680	3,073	2,152	2,470
MS . . . . .	11,991	13,426	14,453	9.7	2,864	3,002	2,770	2,904	1,650	1,953	1,133	1,341
<b>W.S.C. . . . .</b>	<b>152,359</b>	<b>174,152</b>	<b>17,666</b>	<b>12.0</b>	<b>33,804</b>	<b>40,044</b>	<b>32,501</b>	<b>38,504</b>	<b>19,389</b>	<b>22,461</b>	<b>15,023</b>	<b>17,404</b>
AR . . . . .	12,319	14,401	15,791	14.9	2,605	3,188	2,523	3,087	1,731	2,084	1,437	1,733
LA . . . . .	22,446	26,522	16,980	18.1	5,561	6,786	5,333	6,508	3,044	3,632	2,272	2,707
OK . . . . .	16,913	19,852	15,882	16.7	3,781	4,619	3,614	4,415	2,097	2,441	1,678	1,959
TX . . . . .	100,682	113,376	18,483	9.4	21,857	25,451	21,030	24,993	12,517	14,304	9,636	11,005
<b>West . . . . .</b>	<b>323,404</b>	<b>367,031</b>	<b>19,238</b>	<b>8.3</b>	<b>67,188</b>	<b>75,647</b>	<b>63,102</b>	<b>71,041</b>	<b>38,309</b>	<b>41,817</b>	<b>28,688</b>	<b>31,329</b>
<b>MT . . . . .</b>	<b>80,171</b>	<b>86,518</b>	<b>17,440</b>	<b>3.9</b>	<b>17,435</b>	<b>18,785</b>	<b>16,785</b>	<b>18,087</b>	<b>9,018</b>	<b>10,096</b>	<b>6,771</b>	<b>7,591</b>
MT . . . . .	4,511	4,904	15,974	7.3	1,052	1,161	1,014	1,119	427	463	325	352
ID . . . . .	5,082	5,514	14,902	5.0	1,163	1,259	1,128	1,220	488	514	366	384
WY . . . . .	2,614	2,812	15,887	7.6	555	588	541	573	265	292	194	214
CO . . . . .	21,287	22,925	17,896	5.4	4,372	4,746	4,211	4,571	2,540	2,867	1,982	2,237
NM . . . . .	8,202	8,945	16,323	5.9	1,712	1,787	1,630	1,701	941	1,111	662	784
AZ . . . . .	22,360	24,046	18,455	2.3	5,077	5,529	4,906	5,343	2,489	2,769	1,730	1,934
UT . . . . .	8,620	9,341	17,492	5.1	1,939	2,030	1,856	1,944	1,027	1,123	799	875
NV . . . . .	7,495	8,030	18,168	-3.8	1,565	1,684	1,500	1,615	843	957	712	812
<b>Pac . . . . .</b>	<b>243,233</b>	<b>280,513</b>	<b>19,872</b>	<b>9.6</b>	<b>49,752</b>	<b>56,863</b>	<b>46,317</b>	<b>52,955</b>	<b>29,291</b>	<b>31,721</b>	<b>21,917</b>	<b>23,738</b>
WA . . . . .	27,939	32,892	17,617	11.1	6,317	7,560	6,043	7,229	3,365	3,613	2,500	2,681
OR . . . . .	17,340	20,226	17,947	11.2	3,412	3,880	3,209	3,651	2,534	2,870	1,795	2,034
CA . . . . .	185,959	213,317	20,180	9.1	37,490	42,509	34,690	39,345	21,609	23,284	16,256	17,525
AK . . . . .	3,728	4,343	24,126	12.6	932	1,062	902	1,028	526	591	370	418
HI . . . . .	8,267	9,737	26,971	12.2	1,601	1,852	1,472	1,701	1,257	1,362	997	1,080

<sup>1</sup> Includes other types of stores, not shown separately. <sup>2</sup> Based on number of households as of July 1 as estimated by U.S. Bureau of the Census. Minus sign (-) indicates decrease. <sup>3</sup> Includes hardware dealers. <sup>4</sup> Includes home furnishings stores.

## by Type of Store and State: 1987 and 1989

1987 Standard Industrial Classification code; see text, section 13. Data are estimates]

AUTOMOTIVE DEALERS		EATING AND DRINKING PLACES		GASOLINE SERVICE STATIONS		BUILDING MATERIALS DEALERS <sup>3</sup>		APPAREL AND ACCESSORIES STORES		FURNITURE AND APPLIANCE STORES <sup>4</sup>		REGION, DIVISION, AND STATE
1987	1989	1987	1989	1987	1989	1987	1989	1987	1989	1987	1989	
342,884	381,909	153,463	173,702	104,808	114,733	83,453	91,118	79,407	90,268	78,065	89,347	U.S.
71,415	79,357	31,641	37,717	18,978	20,171	18,250	17,847	20,855	23,248	17,660	20,826	Northeast
22,617	24,829	9,524	11,678	6,077	6,565	6,512	6,222	5,705	6,122	4,839	5,579	N.E.
1,975	2,193	718	889	569	614	692	659	349	364	316	356	ME
2,486	2,737	780	963	506	553	821	783	446	510	537	600	NH
944	1,029	377	474	277	312	381	370	179	208	170	204	VT
10,093	11,019	4,826	5,881	2,587	2,830	2,542	2,424	2,827	3,006	2,180	2,546	MA
1,310	1,465	663	823	441	496	399	385	367	370	269	320	RI
5,808	6,386	2,159	2,649	1,697	1,759	1,678	1,601	1,537	1,662	1,367	1,552	CT
48,798	54,528	22,118	26,039	12,900	13,607	11,737	11,625	15,151	17,127	12,821	15,047	M.A.
19,247	22,431	10,807	13,076	5,110	5,465	5,232	5,323	7,631	8,794	6,150	7,391	NY
13,044	13,854	4,820	5,451	3,233	3,259	2,651	2,538	3,755	4,132	3,328	3,751	NJ
16,507	18,243	6,490	7,513	4,557	4,883	3,854	3,764	3,765	4,201	3,343	3,905	PA
80,836	92,639	35,971	38,558	28,361	32,590	20,054	22,969	16,795	19,136	17,437	19,429	Midwest
57,690	65,240	25,828	27,390	19,092	22,205	13,742	15,601	12,304	14,014	12,590	14,740	E.N.C.
14,735	16,197	6,680	6,649	5,016	5,697	3,298	3,559	2,656	2,980	2,995	3,404	OH
7,927	9,043	3,345	3,536	2,694	3,067	2,039	2,244	1,407	1,515	1,493	1,712	IN
15,096	16,711	7,147	7,915	4,725	5,690	3,463	4,167	4,133	4,947	3,643	4,401	IL
13,802	15,824	5,679	6,054	4,331	4,921	3,240	3,623	2,891	3,271	3,010	3,485	MI
6,132	7,465	2,977	3,237	2,326	2,831	1,703	2,008	1,116	1,300	1,449	1,738	WI
22,946	27,399	10,144	11,168	9,269	10,384	6,311	7,369	4,491	5,121	4,847	4,690	W.N.C.
5,681	6,856	2,659	3,001	2,284	2,654	1,863	2,217	1,243	1,437	1,418	1,361	MN
3,489	4,195	1,418	1,530	1,451	1,661	898	1,047	657	752	644	644	IA
7,053	8,296	3,135	3,334	2,789	2,975	1,791	2,054	1,305	1,436	1,347	1,280	MO
900	1,080	351	408	379	431	250	291	171	194	142	137	ND
872	1,055	351	382	394	451	236	282	159	184	154	150	SD
1,851	2,226	896	1,012	804	904	471	549	381	449	479	473	NE
3,101	3,692	1,333	1,501	1,169	1,309	803	928	575	668	662	644	KS
121,944	133,241	50,220	55,659	36,601	38,954	28,605	30,115	25,572	28,258	25,557	28,308	South
67,577	70,026	27,851	30,712	19,237	20,781	16,709	16,584	13,583	14,561	15,168	16,612	S.A.
1,160	1,173	449	500	291	335	324	325	223	240	274	305	DE
7,945	8,058	3,071	3,409	2,174	2,317	1,601	1,601	1,793	1,908	1,816	2,071	MD
183	172	841	952	132	138	72	68	328	346	200	189	DC
9,609	10,270	3,651	4,246	2,845	3,201	2,212	2,361	1,881	2,137	2,206	2,411	VA
2,071	2,179	760	879	710	782	626	627	344	364	364	402	WV
9,682	10,157	3,740	4,131	2,814	3,038	3,076	3,015	1,954	2,106	2,329	2,562	NC
4,347	4,661	1,917	2,163	1,543	1,669	1,419	1,395	1,052	1,143	1,029	1,141	SC
9,655	10,009	4,097	4,421	3,058	3,281	2,579	2,534	1,909	1,969	2,107	2,235	GA
22,925	23,347	9,324	10,010	5,670	6,020	4,798	4,658	4,100	4,349	4,842	5,297	FL
19,826	23,138	7,477	7,994	6,211	6,919	4,868	4,639	3,864	4,379	3,695	4,121	E.S.C.
4,162	5,024	1,898	2,137	1,603	1,863	1,188	1,153	786	901	846	978	KY
7,375	8,175	2,712	2,724	2,276	2,336	1,703	1,583	1,382	1,552	1,429	1,540	TN
5,596	6,720	1,921	2,118	1,513	1,760	1,302	1,252	1,191	1,346	964	1,113	AL
2,893	3,219	947	1,015	819	958	675	650	505	580	456	490	MS
34,540	40,076	14,892	16,954	11,153	11,254	7,028	8,892	8,125	9,317	6,694	7,575	W.S.C.
2,864	3,398	979	1,126	983	990	835	1,074	532	603	472	533	AR
4,417	5,353	2,106	2,494	1,601	1,633	1,067	1,363	1,110	1,296	965	1,108	LA
4,043	4,858	1,684	1,955	1,218	1,324	781	1,005	921	1,025	717	868	OK
23,216	26,467	10,123	11,379	7,350	7,308	4,345	5,450	5,561	6,393	4,541	5,066	TX
68,889	76,672	35,631	41,768	20,868	23,019	16,544	20,186	16,185	19,626	17,410	20,983	West
17,583	18,555	8,387	8,904	6,282	6,146	4,346	5,271	3,367	3,874	3,900	4,528	Mt
952	1,021	489	515	413	405	276	336	177	192	189	228	MT
1,187	1,329	467	503	455	446	317	380	201	222	226	264	ID
549	590	282	305	311	309	137	166	109	124	85	101	WY
4,532	4,684	2,442	2,543	1,589	1,561	1,066	1,302	924	1,077	1,098	1,290	CO
1,838	1,976	884	967	657	653	500	600	352	404	351	411	NM
5,035	5,181	2,266	2,370	1,619	1,550	1,141	1,391	858	1,012	1,144	1,362	AZ
1,871	2,068	781	859	725	713	457	546	416	459	474	536	UT
1,618	1,705	777	841	533	508	452	551	329	383	334	336	NV
51,306	58,117	27,243	32,864	14,586	16,873	12,199	14,915	12,818	15,752	13,511	16,455	Pac
5,479	6,336	3,032	3,732	1,776	2,071	1,571	1,899	1,400	1,737	1,405	1,708	WA
3,912	4,653	1,769	2,142	1,075	1,271	859	1,024	784	956	818	981	OR
40,135	45,042	20,604	24,718	11,111	12,789	9,317	11,453	9,849	12,102	10,877	13,269	CA
521	628	471	581	187	219	215	244	198	242	118	135	AK
1,258	1,458	1,369	1,691	438	523	238	295	586	714	294	362	HI

Source: Market Statistics, New York, NY, The Survey of Buying Power Data Service, annual (copyright).

**No. 1363. Retail Foodstores—Number and Sales, by Type: 1980 to 1989**

TYPE OF FOODSTORE	NUMBER (1,000)					SALES <sup>2</sup> (bil. dol.)					PERCENT DISTRIBUTION			
	1980	1985 <sup>1</sup>	1987 <sup>1</sup>	1988 <sup>1</sup>	1989 <sup>1</sup>	1980	1985	1987	1988	1989	Number		Sales	
											1980	1988	1980	1988
<b>Total</b> . . . . .	<b>253.4</b>	<b>255.9</b>	<b>257.3</b>	<b>255.9</b>	<b>254.4</b>	<b>220.2</b>	<b>285.1</b>	<b>309.5</b>	<b>326.5</b>	<b>349.3</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Grocery stores . . . . .	178.3	177.2	176.8	174.5	172.3	205.6	269.5	291.0	307.2	329.4	70.4	68.2	93.4	94.1
Supermarkets <sup>3</sup> . . . . .	26.3	26.2	26.8	23.2	23.0	157.0	201.8	219.9	230.6	247.4	10.4	9.1	71.3	70.6
Convenience stores <sup>4</sup> . . . . .	35.8	45.4	50.0	52.5	(NA)	18.9	33.7	36.1	38.3	41.0	14.1	20.5	8.6	11.7
Superette <sup>5</sup> . . . . .	116.2	105.6	99.9	98.8	(NA)	28.7	34.0	35.0	38.2	41.0	45.9	38.6	13.5	11.7
Specialized food stores <sup>6</sup> . . . . .	75.0	78.7	80.6	81.3	82.1	14.6	15.5	18.5	19.3	19.9	29.6	31.8	6.6	5.9

NA Not available. <sup>1</sup> Estimated. <sup>2</sup> Includes nonfood items. <sup>3</sup> A grocery store, primarily self-service in operation, providing a full range of departments, and having at least \$2.5 million in annual sales in 1985 dollars. <sup>4</sup> A small grocery store selling a limited variety of food and nonfood products, typically open extended hours. <sup>5</sup> A grocery store, primarily self-service in operation, selling a wide variety of food and nonfood products with annual sales below \$2.5 million (1985 dollars). <sup>6</sup> Primarily engaged in the retail sale of a single food category such as meat and seafood stores and retail bakeries.

**No. 1364. Supermarkets—Number and Sales, by Type of Format: 1980 to 1989**

[For definition of supermarket, see footnote 3, table 1363]

SUPERMARKET FORMAT	NUMBER				SALES (bil. dol.)				PERCENT DISTRIBUTION			
	1980	1986	1988	1989	1980	1986	1988	1989	Number		Sales	
									1980	1989	1980	1989
<b>Supermarkets, total</b> . . . . .	<b>26,321</b>	<b>25,629</b>	<b>23,236</b>	<b>23,000</b>	<b>157.0</b>	<b>211.0</b>	<b>230.6</b>	<b>247.4</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Conventional . . . . .	21,009	15,812	12,526	12,190	114.7	99.8	98.9	103.9	79.8	53.0	73.1	42.0
Superstore . . . . .	3,150	5,100	5,600	5,642	27.8	57.9	69.6	75.7	12.0	24.5	17.7	30.6
Warehouse <sup>2</sup> . . . . .	1,670	3,382	3,375	3,395	6.6	25.9	28.1	30.4	6.3	14.8	4.2	12.3
Combination food and drug <sup>3</sup> . . . . .	475	1,150	1,250	1,273	6.3	16.8	19.8	21.8	1.8	5.5	4.0	8.8
Superwarehouse <sup>4</sup> . . . . .	7	305	375	385	1.6	6.7	9.0	9.9	(Z)	1.7	1.0	4.0
Hypermarket <sup>5</sup> . . . . .	10	80	110	115	(NA)	3.4	5.1	5.7	(Z)	0.5	(NA)	2.3

NA Not available. Z Less than .05 percent. <sup>1</sup> Contains greater variety of products than conventional supermarkets, including specialty and service departments, and considerable nonfood (general merchandise) products. <sup>2</sup> Contains limited product variety and fewer services provided, incorporating case lot stocking and shelving practices. <sup>3</sup> Contains a pharmacy, a nonprescription drug department, and a greater variety of health and beauty aids than that carried by conventional supermarkets. <sup>4</sup> A larger warehouse store that offers expanded product variety and often service meat, deli, or seafood departments. <sup>5</sup> A very large store offering a greater variety of general merchandise—like clothes, hardware, and seasonal goods—and personal care products than other grocery stores.

Source of tables 1363 and 1364: U.S. Dept. of Agriculture, Economic Research Service, *Food Marketing Review*, annual.**No. 1365. Commercial and Institutional Groups—Food and Drink Sales: 1970 to 1990**

[Excludes military. Data refer to sales to consumers of food and alcoholic beverages. Sales are estimated. For details, see source]

TYPE OF GROUP	Number, 1988	SALES (mil. dol.)							
		1970	1980	1985	1986	1987	1988	1989 <sup>1</sup>	1990 <sup>1</sup>
<b>Total</b> . . . . .	<b>655,663</b>	<b>42,199</b>	<b>119,004</b>	<b>173,889</b>	<b>187,984</b>	<b>198,848</b>	<b>213,009</b>	<b>226,145</b>	<b>240,139</b>
Commercial foodservice <sup>2 3</sup> . . . . .	483,216	34,829	101,529	152,864	166,322	176,419	189,446	201,177	213,928
Eating places <sup>4</sup> . . . . .	286,116	21,614	72,275	111,598	121,937	129,889	138,670	147,040	156,362
Restaurants, lunchrooms . . . . .	130,566	13,348	39,307	58,444	62,391	65,389	69,574	73,235	77,190
Limited menu restaurants . . . . .	135,227	6,190	28,689	47,191	52,509	56,359	61,319	65,529	70,380
Bars and taverns <sup>5</sup> . . . . .	32,308	5,008	7,785	8,428	8,976	9,771	8,929	8,983	9,010
Food contractors <sup>6</sup> . . . . .	15,739	2,442	6,818	9,460	10,095	11,075	12,071	13,083	14,162
Manufacturing and industrial plants. . . . .	(NA)	915	2,121	2,721	2,824	3,042	3,356	3,655	3,944
Colleges and universities . . . . .	(NA)	496	1,140	1,738	1,882	2,057	2,284	2,426	2,701
Lodging places . . . . .	27,051	2,585	6,768	10,699	11,383	12,328	13,253	14,141	15,088
Hotel restaurants . . . . .	16,338	1,554	4,964	8,748	9,404	10,263	11,079	11,853	12,684
Motel restaurants . . . . .	8,906	643	1,151	1,209	1,225	1,275	1,340	1,404	1,467
Retail hosts <sup>2</sup> . . . . .	110,669	1,652	3,264	6,196	7,052	7,827	8,510	9,457	10,326
Department store restaurants . . . . .	4,932	424	857	1,052	1,092	1,145	1,206	(NA)	(NA)
Grocery store restaurants . . . . .	44,244	189	830	2,466	2,988	3,422	3,739	(NA)	(NA)
Gasoline service stations . . . . .	33,132	109	492	1,291	1,527	1,733	1,969	(NA)	(NA)
Recreation and sports . . . . .	6,599	514	1,452	1,957	2,055	2,213	2,367	2,551	2,736
Institutional foodservice <sup>2</sup> . . . . .	172,447	7,370	17,475	21,025	21,661	22,429	23,563	24,968	26,211
Employee foodservice . . . . .	7,910	688	1,635	1,971	1,976	1,978	1,980	1,942	1,912
Industrial, commercial organizations . . . . .	3,309	561	1,377	1,682	1,694	1,680	1,658	(NA)	(NA)
Educational foodservice . . . . .	95,784	2,102	4,610	5,978	6,253	6,542	6,883	7,243	7,540
Elementary and secondary schools . . . . .	93,009	1,163	2,312	2,919	3,060	3,189	3,347	3,544	3,704
Hospitals . . . . .	6,734	2,991	6,668	7,104	7,170	7,436	7,826	8,327	8,785
Miscellaneous <sup>2</sup> . . . . .	28,589	646	1,521	2,077	2,197	2,365	2,489	2,750	2,964
Clubs . . . . .	10,310	525	1,056	1,537	1,620	1,743	1,809	(NA)	(NA)

NA Not available. <sup>1</sup> Projection. <sup>2</sup> Includes other types of groups, not shown separately. <sup>3</sup> Data for establishments with payroll. <sup>4</sup> Fast-food restaurants. <sup>5</sup> For establishments serving food.

Source: National Restaurant Association, Washington, DC, *Foodservice Numbers: A Statistical Digest for the Foodservice Industry, 1986; Foodservice Industry in Review*, annual; and 1990 National Restaurant Association Foodservice Industry Forecast, December 1989. (Copyright.)

### No. 1366. Shopping Centers—Number, Gross Leasable Area, and Retail Sales, by Gross Leasable Area: 1986 to 1989

[As of December 31. A shopping center is a group of architecturally unified commercial establishments built on a site which is planned, developed, owned and managed as an operating unit related in its location, size, and type of shops to the trade area that the unit serves. The unit provides on-site parking in definite relationship to the types and total size of the stores. The data base attempts to include all centers with 3 or more stores. Estimates are based on a sample of data available on shopping center properties; for details, contact source]

YEAR	Total	GROSS LEASABLE AREA (sq. ft.)					
		Less than 100,001	100,001-200,000	200,001-400,000	400,001-800,000	800,001-1,000,000	More than 1 million
NUMBER							
1986	28,496	18,230	6,692	2,083	918	261	312
1987	30,641	19,679	7,195	2,231	954	263	319
1988	32,583	20,829	7,713	2,421	999	270	331
1989	34,683	22,016	8,337	2,637	1,065	280	348
Percent distribution	100.0	63.5	24.0	7.6	3.1	0.8	1.0
Percent change, 1988-89	6.5	5.7	8.1	8.9	6.6	3.7	5.1
GROSS LEASABLE AREA							
1986 (mil. sq. ft.)	3,523	801	917	555	522	234	393
1987 (mil. sq. ft.)	3,723	967	984	593	539	236	403
1988 (mil. sq. ft.)	3,947	1,022	1,058	643	563	242	420
1989 (mil. sq. ft.)	4,214	1,074	1,146	699	598	252	444
Percent distribution	100.0	25.5	27.2	16.6	14.2	6.0	10.5
Percent change, 1988-89	6.8	5.1	8.4	8.7	6.3	3.9	5.9
RETAIL SALES							
1986 (bil. dol.)	556.5	160.3	140.4	84.8	73.9	36.2	60.8
1987 (bil. dol.)	602.3	174.5	153.0	92.5	78.4	38.5	65.4
1988 (bil. dol.)	641.1	185.9	162.9	98.3	83.4	40.9	69.8
1989 (bil. dol.)	682.8	198.3	173.4	104.4	88.7	43.6	74.4
Percent distribution	100.0	29.0	25.4	15.3	13.0	6.4	10.9
Percent change, 1988-89	6.5	6.7	6.5	6.3	6.3	6.4	6.6

Source: National Research Bureau, 225 West Wacker Drive, Chicago, IL 60606-1229. Data for 1986-1988 published by Communication Channels Inc., Atlanta, GA, in *Shopping Center World*, February issues. (Copyright.) Data for 1989 published by Monitor Publishing, Clearwater, FL, in *Monitor Magazine*, November/December 1989. (Copyright.)

### No. 1367. Shopping Centers—Number, Gross Leasable Area, and Retail Sales, by State: 1989

[Minus sign (-) indicates decrease. See headnote, table 1366]

DIVISION AND STATE	Number	Gross leasable area (mil. sq. ft.)	Retail sales (mil. dol.)	PERCENT CHANGE, 1988-89			DIVISION AND STATE	Number	Gross leasable area (mil. sq. ft.)	Retail sales (mil. dol.)	PERCENT CHANGE, 1988-89		
				Number	Gross leasable area	Retail sales per sq. ft.					Number	Gross leasable area	Retail sales per sq. ft.
<b>U.S.</b>	<b>34,683</b>	<b>4,214</b>	<b>682,753</b>	<b>6.5</b>	<b>6.8</b>	<b>-0.2</b>	<b>VA.</b>	<b>988</b>	<b>129.1</b>	<b>20,266</b>	<b>7.5</b>	<b>8.4</b>	<b>-1.4</b>
<b>N.E.</b>	<b>2,000</b>	<b>220.1</b>	<b>35,507</b>	<b>5.4</b>	<b>6.3</b>	<b>-0.3</b>	<b>WV</b>	<b>138</b>	<b>18.8</b>	<b>2,783</b>	<b>6.2</b>	<b>9.2</b>	<b>-4.3</b>
ME	163	14.3	2,573	7.2	3.6	2.4	NC	1,157	124.2	19,222	7.5	10.4	-3.5
NH	157	15.8	2,484	10.6	9.1	-1.4	SC	640	64.4	10,535	5.3	4.6	2.1
VT	89	6.1	1,055	4.7	8.6	-2.1	GA	1,254	130.1	20,652	9.2	10.3	-2.6
MA	818	93.1	15,190	3.8	4.9	1.1	FL	2,715	343.5	57,869	4.2	5.4	2.7
RI	172	15.2	2,515	4.9	5.1	0.7	<b>E.S.C.</b>	<b>2,452</b>	<b>284.9</b>	<b>41,923</b>	<b>6.5</b>	<b>7.3</b>	<b>-1.4</b>
CT	601	75.7	11,689	6.2	8.2	-2.2	KY	538	59.2	9,658	3.1	6.2	-0.8
<b>M.A.</b>	<b>3,375</b>	<b>487.9</b>	<b>75,860</b>	<b>5.9</b>	<b>6.3</b>	<b>-0.7</b>	TN	987	107.3	15,491	12.2	12.5	-5.7
NY	1,329	186.1	30,445	4.7	5.3	0.3	AL	556	63.9	10,818	1.7	1.7	4.0
NJ	810	118.9	18,212	10.1	8.3	-2.0	MS	371	34.4	5,955	4.8	4.9	0.9
PA	1,236	182.9	27,203	4.5	6.0	-0.9	<b>W.S.C.</b>	<b>4,149</b>	<b>470.3</b>	<b>85,589</b>	<b>1.7</b>	<b>2.2</b>	<b>4.9</b>
<b>E.N.C.</b>	<b>5,061</b>	<b>661.4</b>	<b>96,959</b>	<b>10.6</b>	<b>9.5</b>	<b>-4.1</b>	AR	323	30.8	5,293	1.9	2.8	2.9
OH	1,310	190.0	28,831	7.3	6.2	-1.3	LA	626	75.9	12,962	3.3	4.4	1.6
IN	776	101.6	14,934	5.7	10.9	-5.4	OK	517	53.8	9,469	1.4	2.8	3.5
IL	1,629	194.8	28,101	19.3	14.1	-7.8	TX	2,683	309.8	57,866	1.4	1.5	6.1
MI	825	110.1	17,315	5.6	5.3	-0.5	<b>Mt.</b>	<b>2,389</b>	<b>278.5</b>	<b>47,448</b>	<b>4.5</b>	<b>6.7</b>	<b>0.9</b>
WI	521	64.8	9,779	9.5	11.0	-5.2	MT	82	8.1	1,370	5.1	3.2	2.2
<b>W.N.C.</b>	<b>2,117</b>	<b>268.2</b>	<b>44,357</b>	<b>4.3</b>	<b>4.6</b>	<b>0.9</b>	ID	115	14.6	2,296	6.5	8.1	-2.0
MN	387	54.0	9,306	3.5	2.7	3.1	WY	47	5.4	988	4.4	-	6.2
IA	249	32.8	5,273	5.5	5.3	-0.8	CO	646	83.6	14,594	2.9	4.5	2.7
MO	766	95.1	15,493	5.1	5.8	-0.1	NM	241	24.1	4,272	2.1	4.1	3.1
ND	70	8.7	1,453	6.1	2.9	2.9	AZ	833	91.9	15,416	4.9	9.6	-0.9
SD	40	5.3	886	5.3	3.2	2.1	UT	176	26.4	4,425	7.3	5.7	1.5
NE	200	26.2	3,973	7.5	9.2	-3.5	NV	229	24.4	4,108	7.0	9.3	-1.2
KS	405	46.1	7,974	1.3	1.9	3.8	<b>Pac.</b>	<b>5,379</b>	<b>625.5</b>	<b>101,505</b>	<b>9.6</b>	<b>8.4</b>	<b>-1.0</b>
<b>S.A.</b>	<b>7,781</b>	<b>937.1</b>	<b>151,605</b>	<b>6.4</b>	<b>7.1</b>	<b>0.2</b>	WA	575	77.4	11,462	8.1	10.9	-4.3
DE	101	16.9	2,727	6.3	5.8	0.5	OR	364	42.5	6,151	6.4	9.4	-3.7
MD	730	102.3	16,364	7.2	4.4	2.2	CA	4,246	484.5	80,260	10.1	8.0	-0.4
DC	58	7.8	1,189	9.4	14.3	-7.6	AK	53	7.1	1,209	8.2	9.2	0.4
							HI	141	14.0	2,423	9.3	5.3	1.5

- Represents zero.

Source: National Research Bureau, 225 West Wacker Drive, Chicago, IL 60606-1229. Data published by Monitor Publishing, Clearwater, FL, in *Monitor Magazine*, November/December 1989. (Copyright.)

## No. 1368. Domestic and International Franchising—Summary: 1970 to 1990

[Franchising is a form of marketing or distribution in which a parent company customarily grants an individual or a company the right, or privilege, to do business in a prescribed manner over a certain period of time in a specified place. The parent company is termed the franchisor; the receiver of the privilege the franchisee; and the right, or privilege, the franchise.]

ITEM	Unit	1970	1980	1983	1984	1985	1986	1987	1988	1989 <sup>1</sup>	1990 <sup>1</sup>
<b>DOMESTIC<sup>2</sup></b>											
Number of franchised establishments.	1,000 ..	398	442	442	444	455	462	479	481	499	533
Company-owned .....	1,000 ..	72	85	86	87	86	88	89	94	95	98
Franchisee-owned .....	1,000 ..	324	357	355	357	369	374	390	387	404	435
Sales of products and services .....	Bil. dol.	120	336	423	492	543	589	599	648	679	716
Company-owned .....	Bil. dol.	23	47	59	64	68	85	90	98	104	112
Franchisee-owned .....	Bil. dol.	96	289	364	428	475	484	509	550	575	604
Average sales per establishment .....	\$1,000	302	780	958	1,108	1,193	1,231	1,251	1,348	1,360	1,344
Employment .....	1,000 ..	(NA)	4,668	5,165	5,671	6,283	6,501	(NA)	(NA)	(NA)	(NA)
<b>INTERNATIONAL</b>											
U.S. companies operating foreign outlets	Number.	<sup>4</sup> 156	279	305	328	342	354	374	(NA)	(NA)	(NA)
Foreign outlets .....	1,000 ..	<sup>3</sup> 3.4	20.4	25.7	27.0	30.2	31.6	(NA)	35.0	(NA)	(NA)

NA Not available. <sup>1</sup> Estimated by respondents to annual survey of franchisors. <sup>2</sup> Excludes foreign outlets of U.S. companies. <sup>3</sup> Represents establishments owned by the parent company. <sup>4</sup> 1971 data.

Source: U.S. Dept. of Commerce, International Trade Administration, *Franchising in the Economy, 1986-88*, 1988. Beginning 1988, International Franchise Association Educational Foundation, Inc., Washington, DC and Horwath International, New York, NY, *Franchising in the Economy, 1988-1990*, 1990.

## No. 1369. Domestic Franchising—Number of Establishments and Sales, by Kind of Franchised Business: 1980 to 1990

[See headnote, table 1368, for definition of franchising. Excludes foreign outlets of U.S. companies]

KIND OF FRANCHISED BUSINESS	NUMBER OF ESTABLISHMENTS (1,000)						SALES (bil. dol.)					
	1980	1985	1987	1988	1989 <sup>1</sup>	1990 <sup>1</sup>	1980	1985	1987	1988	1989 <sup>1</sup>	1990 <sup>1</sup>
All franchising, total .....	442.4	455.2	479.1	480.8	496.8	533.0	336.2	543.0	599.4	648.1	678.8	716.4
Auto and truck dealers <sup>2</sup> .....	29.4	27.5	27.6	27.8	27.6	27.6	143.9	282.6	319.7	345.1	353.6	362.3
Percent .....	6.6	6.0	5.8	5.8	5.5	5.2	42.8	52.0	53.3	53.2	52.1	50.6
Restaurants (all types) .....	60.0	73.9	83.3	90.3	94.3	102.1	27.9	47.7	56.8	64.3	69.1	76.5
Percent .....	13.6	16.2	17.4	18.8	18.9	19.2	8.3	8.8	9.5	9.9	10.2	10.7
Gasoline service stations <sup>2</sup> .....	158.5	124.6	115.9	113.2	112.0	111.7	94.5	100.8	89.2	101.9	108.5	115.1
Percent .....	35.8	27.4	24.2	23.5	22.1	20.9	28.1	18.6	14.9	15.7	16.0	18.1
Retailing (nonfood) .....	35.2	45.1	47.9	46.2	49.2	54.1	10.5	20.6	25.4	23.3	26.0	28.6
Percent .....	8.0	9.9	10.0	9.6	9.7	10.2	3.1	3.8	4.2	3.6	3.8	4.0
Auto, truck rental services .....	7.3	11.2	10.0	9.5	9.9	10.6	3.1	5.7	6.5	6.6	7.0	7.6
Automotive products and services .....	40.2	36.5	39.3	34.7	35.8	38.6	7.1	10.7	12.3	11.4	12.2	13.6
Business aids and services .....	40.7	49.8	56.7	55.8	59.8	67.3	6.7	12.0	14.7	15.7	17.1	19.5
Employment services .....	4.4	4.8	6.1	6.5	6.6	7.4	1.6	2.7	3.7	4.7	5.0	5.8
Tax preparation services .....	9.2	8.1	8.5	8.3	8.2	8.5	0.3	0.4	0.5	0.6	0.7	0.7
Accounting, credit, collection, and general .....	2.4	2.1	2.0	1.7	1.7	1.8	0.1	0.2	0.2	0.2	0.2	0.2
Real estate <sup>3</sup> .....	17.3	13.9	15.2	15.3	16.0	17.0	3.6	4.6	5.6	5.9	6.2	6.8
Printing and copying .....	2.8	4.5	5.6	5.9	6.5	7.4	0.4	0.9	1.2	1.5	1.6	1.9
Other .....	4.8	16.4	19.4	17.9	20.8	25.1	0.8	3.1	3.5	3.0	3.4	4.1
Construction, home improvement, maintenance, and cleaning .....	14.3	17.5	21.7	22.0	24.7	28.3	1.5	4.1	5.2	5.3	6.0	6.8
Convenience stores .....	15.6	15.1	16.3	17.2	17.3	17.5	7.8	10.8	12.3	13.9	14.1	14.4
Educational products and services .....	3.2	8.2	9.6	11.6	11.9	13.3	0.3	0.8	1.0	1.7	1.9	2.3
Equipment rental services .....	2.2	2.5	2.8	3.0	3.0	3.4	0.4	0.7	0.7	0.7	0.7	0.8
Food retailing .....	15.5	16.7	20.5	21.6	23.0	25.4	7.4	10.1	11.1	10.2	10.9	11.9
Hotels and motels .....	6.4	7.5	9.3	9.3	10.1	11.1	9.5	14.8	17.7	19.7	21.3	23.9
Laundry, dry cleaning services .....	3.4	2.3	2.2	2.3	2.5	2.6	0.3	0.3	0.3	0.3	0.3	0.3
Recreation, entertainment, travel .....	4.6	7.8	8.2	8.8	9.5	10.3	0.5	2.3	4.0	3.5	4.1	4.7
Soft drink bottlers .....	1.9	1.4	1.1	0.9	0.8	0.8	14.4	18.3	20.9	22.7	24.2	25.8
Miscellaneous .....	3.6	5.5	6.8	6.9	7.3	8.4	0.4	0.9	1.5	1.7	1.9	2.2

<sup>1</sup> Estimated by respondents. <sup>2</sup> Estimated by source on basis of Bureau of the Census and trade association data. <sup>3</sup> Includes some establishments with significant sales of nonautomotive products such as household appliances, garden supplies, etc. <sup>4</sup> Gross commissions. <sup>5</sup> Excludes convenience stores. <sup>6</sup> Includes campgrounds. <sup>7</sup> Includes soft drinks, fruit drinks and ades, syrups, flavoring agents and bases. Excludes independent private label and contract-filler bottling companies, which accounted for 22 percent of the value of shipments of the total industry in recent years.

Source: U.S. Dept. of Commerce, International Trade Administration, *Franchising in the Economy, 1986-88*, 1988. Beginning 1988, International Franchise Association Educational Foundation, Inc., Washington, DC and Horwath International, New York, NY, *Franchising in the Economy, 1988-1990*, 1990.

## No. 1370. Franchised New Car Dealerships—Summary: 1970 to 1989

(Calendar year, except as indicated)

ITEM	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>Dealerships<sup>1</sup></b>	<b>Number</b>	<b>30,800</b>	<b>27,900</b>	<b>25,700</b>	<b>24,725</b>	<b>24,725</b>	<b>24,725</b>	<b>24,825</b>	<b>25,150</b>	<b>24,950</b>	<b>24,925</b>
Sales	Bil. dol.	51.8	130.5	154.7	187.7	225.9	251.6	270.4	280.5	302.4	304.3
New cars	1,000	8,393	8,979	7,980	9,182	10,390	11,038	11,455	10,277	10,639	9,903
Used vehicles	1,000	11,283	9,717	10,080	10,930	12,420	13,330	13,460	13,400	14,940	14,710
Employment	1,000	702.9	753.7	702.3	748.8	813.8	861.4	906.0	939.0	953.0	955.0
Annual payroll	Bil. dol.	5.5	11.2	12.6	15.0	18.2	20.2	21.9	23.0	24.0	24.8
Advertising expenses	Bil. dol.	0.4	1.2	1.4	1.7	2.1	2.8	3.2	3.7	4.1	3.8
Dealer pretax profits as a percentage of sales	Percent	2.00	0.61	1.30	2.14	2.18	2.20	2.16	1.88	1.71	1.00
Inventory: <sup>2</sup>											
Domestic: <sup>3</sup>											
Total	1,000	1,409	1,506	1,294	1,209	1,413	1,510	1,687	1,724	1,543	1,677
Days' supply	Days	80	71	71	55	55	58	63	75	63	72
Imported: <sup>3</sup>											
Total	1,000	(NA)	458	381	260	216	271	392	551	626	648
Days' supply	Days	(NA)	55	54	34	26	30	37	53	62	70

NA Not available. <sup>1</sup> At beginning of year. <sup>2</sup> Annual average. <sup>3</sup> Classification based on where automobiles are produced (i.e., automobiles manufactured by foreign companies but produced in the United States are classified as domestic).

Source: National Automobile Dealers Association, McLean, VA, *NADA Data*, annual.

## No. 1371. Wholesale Trade—Summary: 1958 to 1987

[Data prior to 1972 based on earlier editions of Standard Industrial Classification (SIC) code. Comparability of data over time is affected by changes in the SIC code; for details, see source. See also *Historical Statistics, Colonial Times to 1970*, series T 43-47, and T 274-279]

ITEM	Unit	1958	1963	1967	1972 <sup>1</sup>	1977 <sup>1</sup>	1982 <sup>1</sup>	1987 <sup>1</sup>	1987 <sup>2</sup>
Firms, total <sup>3</sup>	1,000	(NA)	232	233	276	289	335	(NA)	364
Establishments, total <sup>3</sup>	1,000	287	308	311	370	383	435	467	470
With sales of \$1,000,000 or more	1,000	(NA)	62	75	103	152	(NA)	(NA)	222
Sales, all establishments	Bil. dol.	286	358	460	695	1,258	1,998	2,524	2,525
Merchant wholesalers	Bil. dol.	122	157	206	354	678	1,159	1,477	1,478
Inventories, end of year	Bil. dol.	15.0	20.1	28.1	45.7	82.3	130.7	(NA)	165.1
Payroll, entire year	Bil. dol.	13.2	18.1	23.9	36.9	58.3	95.2	133.2	133.4
Paid employees, Mar. 12 workweek <sup>4</sup>	1,000	2,808	3,089	3,519	4,026	4,397	4,985	5,584	5,609

NA Not available. <sup>1</sup> Based on 1972 SIC code. <sup>2</sup> Based on 1987 SIC code. <sup>3</sup> Through 1977 number of firms and establishments in business at end of year; beginning 1982 number of firms and establishments in business at any time during year. <sup>4</sup> 1958 and 1963 data for workweek including Nov. 15.

## No. 1372. Wholesale Trade, by Type of Operation and Kind of Business: 1982 and 1987

[Based on 1972 Standard Industrial Classification code; see text, section 13. See *Historical Statistics, Colonial Times to 1970*, series T 274-287 and T 352-369 for similar but not comparable data]

TYPE OF OPERATION AND KIND OF BUSINESS	ESTABLISHMENTS (1,000)		SALES (mil. dol.)		ANNUAL PAYROLL (mil. dol.)		PAID EMPLOYEES <sup>2</sup> (1,000)	
	1982	1987	1982	1987	1982	1987	1982	1987
<b>Wholesale trade</b>	<b>435.1</b>	<b>466.7</b>	<b>1,997,895</b>	<b>2,523,688</b>	<b>95,209</b>	<b>133,153</b>	<b>4,985</b>	<b>5,584</b>
Merchant wholesalers	353.1	388.1	1,159,334	1,477,132	69,936	100,210	3,918	4,461
Other operating types	82.1	78.6	838,561	1,046,557	25,273	32,944	1,067	1,133
<b>Durable goods</b>	<b>267.4</b>	<b>292.8</b>	<b>881,212</b>	<b>1,258,483</b>	<b>57,368</b>	<b>82,248</b>	<b>2,913</b>	<b>3,303</b>
Motor vehicles, automotive equipment	41.1	43.0	187,607	(D)	7,524	(D)	433	(D)
Furniture, home furnishings	13.1	14.5	32,452	48,123	2,367	3,652	126	153
Lumber, construction materials	17.9	19.1	50,694	79,946	3,429	5,476	184	231
Sporting, recreational, photographic goods <sup>3</sup>	7.6	8.9	26,980	40,965	1,646	2,312	85	97
Metals and minerals, except petroleum	10.6	11.1	102,690	114,528	3,359	4,038	148	143
Electrical goods	30.4	35.3	120,062	(D)	7,462	(D)	357	(D)
Hardware, plumbing, heating equipment	21.6	23.1	43,529	57,126	4,051	5,610	217	235
Machinery, equipment, supplies	103.4	114.4	263,309	336,976	24,804	35,612	1,192	1,353
Miscellaneous	21.7	23.4	53,889	75,506	2,726	3,777	171	184
<b>Nondurable goods</b>	<b>167.8</b>	<b>173.9</b>	<b>1,116,883</b>	<b>1,265,205</b>	<b>37,841</b>	<b>50,905</b>	<b>2,072</b>	<b>2,290</b>
Paper, paper products	14.5	16.8	53,493	83,173	3,588	5,202	187	228
Drugs, drug proprietaries <sup>4</sup>	4.0	4.9	33,987	64,280	1,975	2,968	106	133
Apparel, piece goods, notions	15.0	16.9	55,897	81,476	2,897	4,661	144	181
Groceries and related products	40.4	42.1	288,659	380,945	12,269	16,729	674	763
Farm-product raw materials	14.4	12.6	153,419	117,606	1,839	1,847	136	117
Chemicals, allied products	11.2	12.7	76,103	94,620	2,902	3,847	124	131
Petroleum, petroleum products	20.3	16.7	296,995	234,874	3,433	3,658	188	175
Beer, wines, distilled alcoholic beverages	6.7	5.8	42,122	49,433	3,091	3,849	141	146
Miscellaneous	41.2	45.3	116,008	158,800	5,849	8,143	372	417

D Data withheld to avoid disclosure. <sup>1</sup> Number of establishments in business at any time during the year. <sup>2</sup> For pay period including March 12. <sup>3</sup> Includes toys, hobby goods, and supplies. <sup>4</sup> Includes druggists sundries.

Source of tables 1371 and 1372: U.S. Bureau of the Census, *U.S. Census of Business: 1958*, vol. III; *1963*, vol. IV; *1967*, vol. III; and *Census of Wholesale Trade: 1972*, vol. I; *1977*, WC77-A-52; *1982*, WC82-A-52; and *1987*, WC87-A-52.

## No. 1373. Merchant Wholesalers—Summary: 1980 to 1990

[Inventories and stock/sales ratios, as of December, seasonally adjusted. Data reflect latest revision. Based on Current Business Survey; see Appendix III. See *Historical Statistics, Colonial Times to 1970*, series T 280-371, for related sales data]

1972 SIC code <sup>1</sup>	KIND OF BUSINESS	1980	1984	1985	1986	1987	1988	1989	1990
	<b>SALES (bil. dol.)</b>								
	<b>Merchant wholesalers</b>	<b>1,124.5</b>	<b>1,360.7</b>	<b>1,375.5</b>	<b>1,393.8</b>	<b>1,491.0</b>	<b>1,622.1</b>	<b>1,728.1</b>	<b>1,790.3</b>
50	<b>Durable goods</b>	<b>483.1</b>	<b>621.8</b>	<b>650.5</b>	<b>679.6</b>	<b>727.7</b>	<b>795.4</b>	<b>842.1</b>	<b>876.2</b>
501	Motor vehicles and automotive equipment	83.1	124.3	137.7	150.9	155.2	164.5	163.6	175.0
502	Furniture and home furnishings	16.3	23.2	23.4	24.5	26.9	29.2	29.7	30.3
503	Lumber and other construction material	36.4	45.3	47.4	51.8	58.4	58.9	57.6	56.1
504	Sporting, recreational, photographic, and hobby goods, toys, and supplies	(S)	14.9	17.3	19.4	20.4	23.0	24.6	25.2
505	Metals and minerals, except petroleum	63.4	64.9	60.8	58.9	67.6	81.6	86.9	90.9
506	Electrical goods	48.9	86.0	87.3	89.0	93.7	101.6	112.9	116.9
507	Hardware, plumbing and heating equipment	29.1	35.4	37.5	39.0	41.4	42.9	44.0	44.9
508	Machinery, equipment, and supplies	140.7	170.3	177.7	182.4	197.1	225.4	251.1	264.4
509	Miscellaneous durable goods	52.5	57.4	61.4	63.7	67.0	68.3	71.6	72.5
51	<b>Nondurable goods</b>	<b>641.4</b>	<b>738.9</b>	<b>725.0</b>	<b>714.2</b>	<b>783.3</b>	<b>826.7</b>	<b>886.0</b>	<b>914.1</b>
511	Paper and paper products	22.6	32.6	33.7	35.8	40.8	46.6	50.0	51.5
512	Drugs, drug proprietaries and druggists' sundries	13.6	22.7	26.0	29.2	34.0	39.3	43.0	47.2
513	Apparel, piece goods and notions	28.5	37.9	40.9	42.4	46.6	51.9	59.0	64.2
514	Groceries and related products	155.4	203.3	208.1	222.4	223.0	228.1	242.7	238.5
515	Farm-product raw materials	125.4	133.2	103.7	94.1	102.2	127.9	129.5	122.4
516	Chemicals and allied products	(S)	22.7	23.2	23.6	26.5	35.9	37.6	41.9
517	Petroleum and petroleum products	171.5	148.3	147.2	116.4	124.9	124.4	140.7	154.2
518	Beer, wine, and distilled beverages	31.9	36.9	38.2	39.3	41.6	42.1	42.9	44.7
519	Miscellaneous nondurable goods	77.5	101.4	104.0	111.0	123.8	130.7	140.5	149.5
	<b>INVENTORIES (bil. dol.)</b>								
	<b>Merchant wholesalers</b>	<b>123.0</b>	<b>143.6</b>	<b>148.5</b>	<b>154.7</b>	<b>165.3</b>	<b>180.3</b>	<b>188.3</b>	<b>195.6</b>
50	<b>Durable goods</b>	<b>78.7</b>	<b>95.2</b>	<b>97.1</b>	<b>102.1</b>	<b>107.7</b>	<b>117.3</b>	<b>123.4</b>	<b>128.6</b>
501	Motor vehicles and automotive equipment	12.4	15.8	17.1	19.2	21.0	22.2	21.9	23.6
502	Furniture and home furnishings	2.5	3.0	3.4	3.6	4.2	4.4	4.4	4.3
503	Lumber and other construction material	(S)	4.5	4.7	5.1	5.5	5.7	5.8	5.6
504	Sporting, recreational, photographic, and hobby goods, toys, and supplies	(S)	2.9	3.1	3.8	3.8	4.2	4.5	4.5
505	Metals and minerals, except petroleum	10.6	10.0	8.7	8.3	8.7	10.6	10.6	10.2
506	Electrical goods	7.6	12.6	12.2	12.9	13.3	14.3	15.6	15.8
507	Hardware, plumbing and heating equipment	5.3	6.1	6.1	6.4	6.6	6.7	7.2	7.1
508	Machinery, equipment, and supplies	29.3	34.6	36.2	36.7	38.0	42.9	47.0	51.8
509	Miscellaneous durable goods	(S)	5.6	5.7	6.1	6.5	6.3	6.4	5.6
51	<b>Nondurable goods</b>	<b>44.3</b>	<b>48.3</b>	<b>51.3</b>	<b>52.6</b>	<b>57.8</b>	<b>63.0</b>	<b>64.8</b>	<b>66.9</b>
511	Paper and paper products	2.0	2.9	3.2	3.4	3.5	4.0	4.1	4.3
512	Drugs, drug proprietaries and druggists' sundries	(S)	3.0	3.5	4.1	4.8	5.3	5.7	5.9
513	Apparel, piece goods and notions	(S)	6.3	6.6	7.4	7.7	8.2	8.8	10.3
514	Groceries and related products	7.8	9.7	10.9	12.1	12.5	12.5	13.1	12.4
515	Farm-product raw materials	7.6	7.3	7.9	6.2	7.2	9.2	7.8	8.2
516	Chemicals and allied products	(S)	2.3	2.3	2.3	2.5	2.9	2.6	3.1
517	Petroleum and petroleum products	(S)	4.0	4.2	3.7	3.4	3.6	3.9	4.3
518	Beer, wine, and distilled beverages	3.2	3.6	3.9	3.9	4.0	3.9	3.9	3.8
519	Miscellaneous nondurable goods	7.2	9.1	8.9	9.6	11.9	13.5	13.8	14.5
	<b>STOCK/SALES RATIO</b>								
	<b>Merchant wholesalers</b>	<b>1.19</b>	<b>1.27</b>	<b>1.26</b>	<b>1.30</b>	<b>1.31</b>	<b>1.28</b>	<b>1.28</b>	<b>1.32</b>
50	<b>Durable goods</b>	<b>1.65</b>	<b>1.82</b>	<b>1.73</b>	<b>1.74</b>	<b>1.75</b>	<b>1.68</b>	<b>1.76</b>	<b>1.81</b>
501	Motor vehicles and automotive equipment	1.74	1.47	1.44	1.45	1.60	1.59	1.72	1.70
502	Furniture and home furnishings	1.73	1.70	1.62	1.75	1.82	1.71	1.83	1.83
503	Lumber and other construction material	(S)	1.21	1.19	1.13	1.12	1.12	1.33	1.40
504	Sporting, recreational, photographic, and hobby goods, toys, and supplies	(S)	2.37	2.04	2.21	2.37	1.92	2.20	2.17
505	Metals and minerals, except petroleum	1.83	1.95	1.75	1.62	1.43	1.46	1.51	1.38
506	Electrical goods	1.76	1.70	1.60	1.68	1.76	1.59	1.59	1.70
507	Hardware, plumbing and heating equipment	2.15	1.99	1.93	1.93	1.90	1.86	1.96	1.94
508	Machinery, equipment, and supplies	2.37	2.38	2.35	2.24	2.33	2.12	2.16	2.31
509	Miscellaneous durable goods	(S)	1.22	1.03	1.28	1.08	1.08	0.99	0.95
51	<b>Nondurable goods</b>	<b>0.73</b>	<b>0.79</b>	<b>0.84</b>	<b>0.88</b>	<b>0.88</b>	<b>0.89</b>	<b>0.85</b>	<b>0.87</b>
511	Paper and paper products	1.02	1.10	1.12	1.09	0.93	1.01	0.97	1.03
512	Drugs, drug proprietaries and druggists' sundries	(S)	1.47	1.57	1.54	1.63	1.51	1.48	1.49
513	Apparel, piece goods and notions	(S)	1.94	2.06	2.16	1.89	1.83	1.81	1.84
514	Groceries and related products	0.57	0.57	0.61	0.66	0.66	0.61	0.66	0.65
515	Farm-product raw materials	0.83	0.68	0.95	0.79	0.84	0.86	0.76	0.85
516	Chemicals and allied products	(S)	1.24	1.14	1.13	0.96	0.99	0.80	0.82
517	Petroleum and petroleum products	(S)	0.34	0.34	0.39	0.34	0.35	0.28	0.31
518	Beer, wine, and distilled beverages	1.19	1.14	1.20	1.15	1.16	1.11	1.08	0.95
519	Miscellaneous nondurable goods	0.99	1.10	0.98	0.99	1.12	1.20	1.12	1.17

S Data do not meet publication standards. <sup>1</sup> Based on 1972 Standard Industrial Classification code; see text, section 13.

Source: U.S. Bureau of the Census, *Current Business Reports, Revised Monthly Wholesale Trade Sales and Inventories, December 1980 Through December 1989*, (BW89-R) and *January 1984 Through December 1990* (BW/90-R).



**No. 1374. Wholesale Trade—Summary, by State: 1987**

[Kind-of-business classification based on 1972 Standard Industrial Classification code; see text, section 13]

DIVISION AND STATE	Estab-lish-ments <sup>1</sup>	Sales (bil. dol.)	Paid employ-ees <sup>2</sup> (1,000)	Annual payroll (mil. dol.)	DIVISION AND STATE	Estab-lish-ments <sup>1</sup>	Sales (bil. dol.)	Paid employ-ees <sup>2</sup> (1,000)	Annual payroll (mil. dol.)
<b>U.S. . . . .</b>	<b>466,680</b>	<b>2,523.7</b>	<b>5,593.8</b>	<b>133,153</b>	VA . . . . .	8,369	44.7	114.6	2,618
<b>N.E. . . . .</b>	<b>23,628</b>	<b>146.1</b>	<b>322.6</b>	<b>8,482</b>	WV . . . . .	2,421	5.9	24.2	476
ME . . . . .	1,845	6.5	22.6	460	NC . . . . .	12,037	57.0	139.8	3,059
NH . . . . .	1,952	6.8	22.5	560	SC . . . . .	5,229	17.1	54.3	1,063
VT . . . . .	978	2.8	10.2	205	GA . . . . .	13,580	86.8	177.8	4,111
MA . . . . .	11,029	74.7	160.5	4,386	FL . . . . .	25,482	97.3	261.0	5,545
RI . . . . .	1,708	6.0	22.2	489	<b>E.S.C. . . . .</b>	<b>24,778</b>	<b>109.3</b>	<b>296.3</b>	<b>6,031</b>
CT . . . . .	6,116	49.2	84.6	2,382	KY . . . . .	5,582	24.4	63.3	1,237
<b>M.A. . . . .</b>	<b>78,914</b>	<b>532.7</b>	<b>983.3</b>	<b>25,987</b>	TN . . . . .	8,745	48.3	115.8	2,517
NY . . . . .	41,647	283.7	465.4	12,636	AL . . . . .	6,626	24.3	77.3	1,545
NJ . . . . .	17,575	144.6	270.7	7,524	MS . . . . .	3,825	12.2	39.9	732
PA . . . . .	19,692	104.4	247.2	5,827	<b>W.S.C. . . . .</b>	<b>52,344</b>	<b>256.6</b>	<b>569.0</b>	<b>12,555</b>
<b>E.N.C. . . . .</b>	<b>75,156</b>	<b>431.6</b>	<b>954.4</b>	<b>22,925</b>	AR . . . . .	3,976	12.8	38.8	704
OH . . . . .	18,577	104.0	247.5	5,757	LA . . . . .	7,598	31.5	80.3	1,650
IN . . . . .	9,811	40.5	107.8	2,338	OK . . . . .	5,913	20.2	54.7	1,115
IL . . . . .	23,521	167.4	318.9	8,072	TX . . . . .	34,857	192.1	395.2	9,085
MI . . . . .	14,682	86.0	178.7	4,562	<b>Mt. . . . .</b>	<b>24,666</b>	<b>84.1</b>	<b>258.1</b>	<b>5,444</b>
WI . . . . .	8,765	33.7	101.4	2,195	MT . . . . .	1,792	4.4	14.8	264
<b>W.N.C. . . . .</b>	<b>40,506</b>	<b>196.0</b>	<b>441.1</b>	<b>9,608</b>	ID . . . . .	2,112	5.1	20.7	353
MN . . . . .	9,436	55.3	114.1	2,820	WY . . . . .	1,016	2.2	6.3	125
IA . . . . .	6,983	24.5	65.8	1,279	CO . . . . .	7,038	30.0	76.1	1,768
MO . . . . .	10,605	53.5	124.8	2,815	NM . . . . .	2,373	5.1	22.0	421
ND . . . . .	2,044	6.0	17.5	324	AZ . . . . .	5,826	20.8	64.5	1,418
SD . . . . .	1,783	5.2	15.3	255	UT . . . . .	2,934	11.1	34.1	717
NE . . . . .	3,949	21.3	43.0	834	NV . . . . .	1,575	5.5	17.6	378
KS . . . . .	5,706	30.2	60.6	1,281	<b>Pac. . . . .</b>	<b>71,398</b>	<b>406.8</b>	<b>875.7</b>	<b>22,075</b>
<b>S.A. . . . .</b>	<b>75,290</b>	<b>360.7</b>	<b>895.3</b>	<b>20,048</b>	WA . . . . .	9,250	41.5	102.3	2,374
DE . . . . .	985	7.9	15.5	452	OR . . . . .	5,878	28.8	63.7	1,461
MD . . . . .	6,636	41.1	99.3	2,493	CA . . . . .	53,508	327.2	692.4	17,622
DC . . . . .	551	2.8	8.8	231	AK . . . . .	773	2.7	7.1	204
					HI . . . . .	1,989	5.4	20.1	415

<sup>1</sup> Number of establishments in business at any time during the year. <sup>2</sup> For the pay period including March 12.

Source: U.S. Bureau of the Census, 1987 Census of Wholesale Trade, Geographic Area Series, WC87-A-1 to 52.

**No. 1375. Wholesale Trade—Establishments and Sales by Selected Metropolitan Areas: 1987**

[Kind-of-business classification based on 1987 Standard Industrial Classification code; see text, section 13. Metropolitan statistical areas (MSA's) and consolidated metropolitan statistical areas (CMSA's) are as defined by the U.S. Office of Management and Budget as of June 30, 1987; see Appendix II for definitions and components]

METROPOLITAN AREA	ALL ESTABLISHMENTS <sup>1</sup>			MERCHANT WHOLESALERS	
	Estab-lish-ments	Sales		Estab-lish-ments	Sales (bil. dol.)
		Amount (bil. dol.)	Percent of U.S. total		
New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA . . . . .	47,892	398.6	15.8	40,798	271.7
Los Angeles-Anaheim-Riverside, CA CMSA . . . . .	28,918	203.5	8.1	24,155	137.7
Chicago-Gary-Lake County, IL-IN-WI CMSA . . . . .	17,043	139.8	5.5	12,978	63.9
San Francisco-Oakland-San Jose, CA CMSA . . . . .	12,714	83.4	3.3	10,089	40.4
Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA . . . . .	11,192	73.6	2.9	8,859	33.6
Houston-Galveston-Brazoria, TX CMSA . . . . .	8,258	72.4	2.9	6,651	42.5
Dallas-Fort Worth, TX CMSA . . . . .	10,158	71.1	2.8	7,523	27.3
Atlanta, GA MSA . . . . .	7,963	70.0	2.8	5,655	23.1
Boston-Lawrence-Salem, MA-NH CMSA . . . . .	8,694	66.5	2.6	6,807	36.0
Detroit-Ann Arbor, MI CMSA . . . . .	8,122	60.5	2.4	6,141	23.0
Minneapolis-St. Paul, MN-WI MSA . . . . .	5,645	44.7	1.8	4,189	24.3
Cleveland-Akron-Lorain, OH CMSA . . . . .	5,675	34.2	1.4	4,270	14.4
Miami-Fort Lauderdale, FL CMSA . . . . .	9,924	33.5	1.3	8,637	24.1
St. Louis, MO-IL MSA . . . . .	5,057	31.7	1.3	3,875	15.1
Seattle-Tacoma, WA CMSA . . . . .	5,745	31.3	1.2	4,490	18.2
Washington, DC-MD-VA MSA . . . . .	4,353	31.2	1.2	3,509	13.5
Kansas City, MO-KS MSA . . . . .	3,710	30.1	1.2	2,726	14.6
Cincinnati-Hamilton, OH-KY-IN CMSA . . . . .	3,283	26.9	1.1	2,358	9.5
Pittsburgh-Beaver Valley, PA CMSA . . . . .	4,051	26.5	1.1	3,140	10.7
Charlotte-Gastonia-Rock Hill, NC-SC MSA . . . . .	3,394	25.7	1.0	2,477	7.7

<sup>1</sup> Includes other types of operations, not shown separately.

Source: U.S. Bureau of the Census, 1987 Census of Wholesale Trade, Geographic Area Series, WC87-A-52.

## No. 1376. Selected Service Industries—Summary: 1982 and 1987

[For establishments with payroll]

1972 SIC code <sup>1</sup>	KIND OF BUSINESS	ESTABLISH- MENTS <sup>2</sup> (1,000)		RECEIPTS OR EXPENSES <sup>3</sup> (mil. dol.)		PAID EMPLOYEES <sup>4</sup> (1,000)	
		1982	1987	1982	1987	1982	1987
(X)	<b>Firms subject to Federal income tax<sup>5</sup></b>	<b>1,339.2</b>	<b>1,624.6</b>	<b>426,982</b>	<b>752,474</b>	<b>11,106</b>	<b>15,688</b>
70	Hotels, rooming houses, camps, and other lodging places	44.3	46.8	33,215	51,865	1,102	1,411
72	Personal services	179.6	196.1	22,980	35,133	970	1,209
73	Business services	230.1	339.3	106,866	216,807	3,152	5,250
75	Automotive repair, services, and parking	123.6	151.2	30,695	51,423	553	785
76	Miscellaneous repair services	58.2	65.5	14,133	20,838	300	346
78, 79	Amusement and recreation services <sup>6</sup>	73.0	74.3	33,115	52,808	804	929
80 ex. 806	Health services, except hospitals	360.4	405.4	95,610	162,569	2,433	3,226
81	Legal services	122.7	138.2	34,325	66,998	569	808
823, 4, 9	Selected educational services	7.8	10.6	2,400	4,882	68	109
83	Social services	29.7	43.1	3,636	7,330	222	357
891	Engineering, architectural, surveying services	47.6	62.3	34,315	53,563	581	747
893	Accounting, auditing, and bookkeeping services	55.3	69.8	14,596	24,483	330	448
(X)	<b>Firms exempt from Federal income tax<sup>5</sup></b>	<b>151.6</b>	<b>169.9</b>	<b>54,522</b>	<b>87,448</b>	<b>2,280</b>	<b>2,773</b>
805, 6, 9	Selected health services	10.2	13.2	10,438	19,084	476	684
83	Social services	54.2	63.0	16,455	26,884	904	1,110
861, 2, 4, 9	Selected membership organizations	63.2	68.0	15,093	22,028	493	539

X Not applicable. <sup>1</sup> Based on 1972 Standard Industrial Classification; see text, section 13. <sup>2</sup> Number of establishments in business at any time during the year. <sup>3</sup> Receipts refer to establishments subject to Federal income tax. Expenses refer to establishments exempt from Federal income tax. <sup>4</sup> For pay period including March 12. <sup>5</sup> Excludes hospitals. Includes other kinds of business, not shown separately. <sup>6</sup> Includes motion pictures.

Source: U.S. Bureau of the Census, 1987 Census of Service Industries, Geographic Area Series, SC87-A-52.

## No. 1377. Service Industries—Summary of Establishments, by State: 1987

[Based on 1987 Standard Industrial Classification code; see text, section 13]

DIVI- SION AND STATE	FIRMS SUBJECT TO FEDERAL INCOME TAX			TAX-EXEMPT FIRMS <sup>3</sup>		DIVI- SION AND STATE	FIRMS SUBJECT TO FEDERAL INCOME TAX			TAX-EXEMPT FIRMS <sup>3</sup>	
	Estab- lish- ments <sup>1</sup> (1,000)	Re- cei- pts (mil. dol.)	Paid employ- ees <sup>2</sup> (1,000)	Estab- lish- ments <sup>1</sup>	Reve- nues (mil. dol.)		Estab- lish- ments <sup>1</sup> (1,000)	Re- cei- pts (mil. dol.)	Paid employ- ees <sup>2</sup> (1,000)	Estab- lish- ments <sup>1</sup>	Reve- nues (mil. dol.)
<b>U.S.</b>	<b>6,254.5</b>	<b>868,343</b>	<b>16,055</b>	<b>175,829</b>	<b>267,490</b>	<b>VA.</b>	137.3	22,172	439	3,885	6,304
<b>N.E.</b>	<b>385.9</b>	<b>55,493</b>	<b>996</b>	<b>13,154</b>	<b>19,578</b>	<b>WV.</b>	32.2	3,249	67	1,407	1,625
ME.	32.8	2,728	58	1,406	1,258	<b>NC.</b>	130.9	14,354	331	3,884	5,083
NH.	32.1	3,541	68	1,127	984	<b>SC.</b>	62.6	7,146	170	1,756	2,217
VT.	18.2	1,591	37	897	587	<b>GA.</b>	134.3	20,644	415	3,140	5,131
MA.	184.0	30,252	523	6,005	11,115	<b>FL.</b>	340.8	50,997	975	7,028	9,875
RI.	24.5	2,955	61	895	1,417	<b>E.S.C.</b>	<b>286.0</b>	<b>33,760</b>	<b>723</b>	<b>8,638</b>	<b>11,777</b>
CT.	94.3	14,426	250	2,824	4,216	<b>KY.</b>	74.9	7,267	166	2,213	2,655
<b>M.A.</b>	<b>940.7</b>	<b>156,935</b>	<b>2,582</b>	<b>28,944</b>	<b>54,676</b>	<b>TN.</b>	101.5	13,449	263	3,010	4,320
NY.	476.5	83,524	1,293	13,691	30,583	<b>AL.</b>	69.1	9,198	190	1,947	3,024
NJ.	198.3	35,953	596	4,196	7,618	<b>MS.</b>	40.5	3,846	84	1,468	1,778
PA.	265.9	37,458	694	10,857	16,475	<b>W.S.C.</b>	<b>682.4</b>	<b>81,375</b>	<b>1,545</b>	<b>14,803</b>	<b>19,659</b>
<b>E.N.C.</b>	<b>925.7</b>	<b>120,455</b>	<b>2,459</b>	<b>30,592</b>	<b>49,332</b>	<b>AR.</b>	49.1	4,295	94	1,579	1,751
OH.	232.1	29,471	648	8,222	12,973	<b>LA.</b>	92.3	11,583	241	2,087	3,334
IN.	117.5	12,605	282	4,396	5,389	<b>OK.</b>	91.1	7,575	149	2,133	2,616
IL.	277.0	40,742	730	7,907	15,201	<b>TX.</b>	449.9	57,922	1,061	8,004	11,959
MI.	203.5	26,574	533	6,205	10,827	<b>Mt.</b>	<b>393.6</b>	<b>50,083</b>	<b>994</b>	<b>9,868</b>	<b>11,371</b>
WI.	95.6	11,063	265	3,662	4,942	<b>ID.</b>	24.6	1,680	36	1,170	779
<b>W.N.C.</b>	<b>459.9</b>	<b>46,896</b>	<b>1,021</b>	<b>17,372</b>	<b>20,282</b>	<b>MT.</b>	25.7	2,355	48	727	594
MN.	121.9	13,196	295	4,412	5,781	<b>WY.</b>	14.4	1,041	22	640	403
IA.	69.0	5,830	131	3,122	2,928	<b>CO.</b>	125.8	13,236	256	2,780	3,580
MO.	122.9	15,173	324	3,679	6,078	<b>NM.</b>	36.4	4,655	88	1,232	1,124
ND.	16.6	1,244	28	920	843	<b>AZ.</b>	91.8	11,981	244	2,020	3,241
SD.	17.9	1,177	27	957	757	<b>UT.</b>	44.6	4,407	94	768	1,114
NE.	42.3	4,004	89	1,679	1,583	<b>NV.</b>	30.3	10,728	206	531	536
KS.	69.3	6,072	128	2,603	2,312	<b>Pac.</b>	<b>1,180.2</b>	<b>175,020</b>	<b>2,802</b>	<b>25,457</b>	<b>36,438</b>
<b>S.A.</b>	<b>1,000.3</b>	<b>148,531</b>	<b>2,932</b>	<b>27,001</b>	<b>42,376</b>	<b>WA.</b>	131.3	14,495	277	4,238	4,578
DE.	15.1	2,313	46	562	730	<b>OR.</b>	82.1	7,509	157	2,467	2,611
MD.	125.0	19,369	369	3,156	5,570	<b>CA.</b>	918.5	146,288	2,248	17,048	29,382
DC.	22.1	8,287	121	2,183	5,841	<b>AK.</b>	18.2	1,826	28	706	644
						<b>HI.</b>	30.1	4,902	92	998	1,222

<sup>1</sup> Number of establishments in business at any time during year. <sup>2</sup> For the pay period including March 12. <sup>3</sup> Covers only establishments with payroll.

Source: U.S. Bureau of the Census, 1987 Census of Service Industries, Geographic Area Series, SC87-A-1 to 52 and Nonemployer Statistics Series, SC87-N-1 to 4.

**No. 1378. Service Industries—Summary of Establishments, by Tax Status: 1987**

[Data for firms subject to Federal income tax cover all establishments, except as noted. Data for firms exempt from Federal income tax cover only establishments with payroll. See *Historical Statistics, Colonial Times to 1970*, series T 391-443, for similar but not comparable data]

1987 SIC code <sup>1</sup>	KIND OF BUSINESS	Establishments <sup>2</sup> (1,000)	Receipts or revenues <sup>3</sup> (mil. dol.)	Annual payroll (mil. dol.)	Paid employees <sup>4</sup> (1,000)	Receipts or revenues per establishment (\$1,000)	Annual payroll per employee (dol.)
(X)	<b>Firms subject to Federal income tax<sup>5</sup></b>	<b>6,254.5</b>	<b>866,343</b>	<b>289,807</b>	<b>16,054.7</b>	<b>138.8</b>	<b>18,051</b>
70 ex. 704	Hotels, rooming houses, camps, and other lodging places <sup>6</sup>	85.7	53,630	14,452	1,410.8	625.8	10,244
701	Hotels and motels <sup>6</sup>	63.4	51,633	14,135	1,380.2	814.4	10,241
72	Personal services <sup>6</sup>	1,037.4	43,247	10,853	1,105.0	41.7	9,822
721	Laundry, cleaning, and garment services <sup>6</sup>	108.6	14,184	4,388	408.3	130.6	10,746
722	Photographic studios, portrait <sup>6</sup>	56.2	2,929	514	50.1	52.1	10,253
723, 4	Beauty and barber shops <sup>6</sup>	407.3	11,990	3,538	390.7	29.4	9,055
726	Funeral service and crematories <sup>6</sup>	22.3	5,668	1,362	82.6	254.2	16,479
73	Business services <sup>6</sup>	1,433.2	188,856	66,456	4,414.4	131.8	15,054
731	Advertising <sup>6</sup>	79.2	16,802	5,537	181.6	212.1	30,483
732	Consumer credit, mercantile reporting agencies <sup>6</sup>	<sup>87.1</sup>	<sup>84,124</sup>	<sup>1,415</sup>	<sup>82.8</sup>	<sup>958.8</sup>	<sup>17,078</sup>
733	Mailing, reproduction, commercial art <sup>6</sup>	<sup>87.2</sup>	<sup>812,407</sup>	<sup>3,945</sup>	<sup>210.6</sup>	<sup>945.6</sup>	<sup>18,729</sup>
734	Services to dwellings and other buildings <sup>6</sup>	290.4	15,649	6,555	746.0	53.9	8,788
735	Miscellaneous equipment rental and leasing <sup>6</sup>	49.1	15,472	3,579	185.3	315.1	19,319
736	Personnel supply services <sup>6</sup>	43.2	20,336	13,590	1,397.1	470.7	9,727
737	Computer programming, data processing <sup>10</sup>	140.5	56,004	19,142	637.4	398.6	30,031
7381, 2	Detective agencies and protective services <sup>6</sup>	45.2	9,303	5,040	475.8	205.8	10,594
75	Automotive repair, services, and parking <sup>6</sup>	388.2	58,278	11,690	785.3	150.1	14,886
751	Automotive rental and leasing, without drivers <sup>6</sup>	19.9	16,679	2,366	134.6	838.1	17,578
752	Automobile parking <sup>6</sup>	10.5	2,691	491	45.7	256.3	10,751
753	Automotive repair shops <sup>6</sup>	301.3	34,182	7,727	485.6	113.4	15,913
754	Automotive services, except repair <sup>6</sup>	56.4	4,726	1,106	119.4	83.8	9,258
76	Miscellaneous repair services <sup>6</sup>	247.6	24,597	6,416	345.8	99.3	18,551
762	Electrical repair shops <sup>6</sup>	65.7	7,584	2,107	107.4	115.4	19,618
78, 79, 84	Amusement and recreation services <sup>5, 11</sup>	467.0	64,524	15,474	1,094.4	138.2	14,139
781, 2	Motion picture prod., distribution, services <sup>6</sup>	37.1	20,778	4,973	171.3	560.1	29,029
783	Motion picture theaters <sup>6</sup>	8.6	4,056	584	94.1	471.6	6,211
784	Video tape rental <sup>6</sup>	24.7	2,920	581	79.6	118.2	7,300
792	Theatrical producers, bands, entertainers <sup>12</sup>	186.9	7,725	1,607	55.2	41.3	29,092
793	Bowling centers <sup>6</sup>	8.3	2,597	702	99.8	313.1	7,039
794	Commercial sports <sup>6</sup>	50.6	5,966	2,047	75.5	117.9	27,106
7991	Physical fitness facilities <sup>6</sup>	22.3	2,721	745	104.9	122.0	7,097
7996	Amusement parks <sup>6</sup>	<sup>80.7</sup>	<sup>83,470</sup>	<sup>820</sup>	<sup>60.4</sup>	<sup>84,663.8</sup>	<sup>13,566</sup>
7997	Membership sports and recreation clubs <sup>6</sup>	<sup>87.7</sup>	<sup>83,700</sup>	<sup>1,173</sup>	<sup>112.7</sup>	<sup>483.1</sup>	<sup>10,403</sup>
80	Health services <sup>6</sup>	800.6	196,211	78,820	3,592.5	245.1	21,940
801	Offices and clinics of doctors of medicine <sup>6</sup>	297.7	96,698	43,856	1,131.6	324.8	38,756
802	Offices and clinics of dentists <sup>6</sup>	131.3	25,258	8,760	491.5	192.4	17,822
8041	Offices and clinics of chiropractors <sup>6</sup>	31.4	3,707	900	58.0	118.0	15,34
8042	Offices and clinics of optometrists <sup>6</sup>	23.1	3,755	893	57.9	162.8	15,29
805	Nursing and personal care facilities <sup>6</sup>	38.3	20,570	9,465	961.6	537.1	9,843
806	Hospitals <sup>6</sup>	<sup>81.4</sup>	<sup>819,720</sup>	<sup>6,582</sup>	<sup>366.5</sup>	<sup>814,136.2</sup>	<sup>17,958</sup>
807	Medical and dental laboratories <sup>6</sup>	<sup>814.8</sup>	<sup>87,114</sup>	<sup>2,567</sup>	<sup>131.8</sup>	<sup>479.4</sup>	<sup>19,474</sup>
808	Home health care services <sup>6</sup>	<sup>5.1</sup>	<sup>83,024</sup>	<sup>1,578</sup>	<sup>184.8</sup>	<sup>595.3</sup>	<sup>8,542</sup>
81	Legal services <sup>6</sup>	273.2	72,115	26,078	807.6	264.0	32,291
823, 4, 9	Selected educational services <sup>5</sup>	155.9	6,102	1,657	109.4	39.1	15,144
824	Vocational schools <sup>6</sup>	<sup>83.7</sup>	<sup>83,058</sup>	<sup>1,086</sup>	<sup>65.3</sup>	<sup>826.1</sup>	<sup>16,637</sup>
83	Social services <sup>6</sup>	319.5	9,561	2,971	357.3	29.9	8,315
835	Child day care services <sup>6</sup>	248.7	4,284	1,307	199.7	17.2	6,547
871	Engineering, architectural, and surveying services <sup>6</sup>	195.3	57,051	23,175	747.0	292.1	31,024
872	Accounting, auditing, and bookkeeping services <sup>6</sup>	250.1	26,612	10,204	448.1	106.4	22,768
873 ex. 8733	Research, development, and testing services <sup>13</sup>	<sup>812.4</sup>	<sup>814,184</sup>	<sup>5,615</sup>	<sup>222.2</sup>	<sup>81,144.8</sup>	<sup>25,266</sup>
874	Management and public relations services <sup>6</sup>	418.8	43,381	14,515	551.8	103.6	26,303
(X)	<b>Firms exempt from Federal income tax<sup>5</sup></b>	<b>175.8</b>	<b>267,490</b>	<b>117,976</b>	<b>6,736.7</b>	<b>1,521.3</b>	<b>17,513</b>
7997	Membership sports and recreation clubs <sup>6</sup>	6.5	3,694	1,467	116.4	564.0	12,607
84	Museums, art galleries, botanical gardens, and zoos <sup>6</sup>	2.7	2,597	778	52.1	963.7	14,937
805	Nursing and personal care facilities <sup>6</sup>	4.1	8,201	4,264	371.5	1,995.5	11,479
806	Hospitals <sup>6</sup>	5.9	172,001	82,342	3,964.1	29,137.9	20,772
83	Social services <sup>6</sup>	63.0	31,552	11,617	1,109.5	500.8	10,470
832	Individual and family social services <sup>6</sup>	21.9	8,585	3,629	312.7	392.7	11,606
833	Job training, vocational rehabilitation services <sup>6</sup>	5.0	3,664	1,741	238.2	732.0	7,307
836	Residential care <sup>6</sup>	10.5	6,125	2,768	240.5	584.8	11,507
861	Business associations <sup>6</sup>	12.3	6,756	1,996	87.5	549.3	22,819
862	Professional membership organizations <sup>6</sup>	5.6	4,110	1,133	49.3	732.6	22,981
864	Civic, social, and fraternal associations <sup>6</sup>	40.4	8,569	2,779	322.9	212.0	8,604
873	Research, development, and testing services <sup>6</sup>	3.2	8,303	3,088	107.8	2,623.5	28,643

X Not applicable. <sup>1</sup> Based on 1987 Standard Industrial Classification; see text, section 13. <sup>2</sup> Represents the number of establishments in business at any time during year. <sup>3</sup> Receipts refer to establishments subject to Federal income tax. Revenues refer to establishments exempt from Federal income tax. <sup>4</sup> For pay period including March 12. <sup>5</sup> Includes other kinds of businesses, not shown separately. <sup>6</sup> Excludes membership lodging. <sup>7</sup> Includes adjustment and collection agencies.

<sup>8</sup> Covers only establishments with payroll. <sup>9</sup> Includes photography and stenographic services. <sup>10</sup> Includes other computer related services. <sup>11</sup> Includes motion pictures and museums. <sup>12</sup> Excludes motion picture producers and includes orchestras.

<sup>13</sup> Excludes noncommercial research organizations.

**No. 1379. Services—Establishments, Employees, and Payroll: 1987 and 1988**

[Covers establishments with payroll. Excludes government employees, railroad employees, self-employed persons, etc. For statement on methodology, see Appendix III]

1987 SIC code <sup>1</sup>	KIND OF BUSINESS	ESTABLISHMENTS (1,000)						Em- ploy- ees, 1988 (1,000)	Payroll, 1988 (bil. dol.)
		1987	1988						
			Total	1-4 employ- ees	5-19 employ- ees	20-99 employ- ees	100 or more employ- ees		
(0)	Services, total <sup>2</sup>	1,990.1	1,937.5	1,150.1	598.2	155.2	36.0	25,143	477.8
70	Hotels and other lodging places <sup>2</sup>	51.4	49.0	23.9	13.5	8.7	2.8	1,385	15.8
701	Hotels and motels	(NA)	38.8	16.3	11.4	8.3	2.8	1,333	15.2
72	Personal services <sup>2</sup>	184.4	177.3	112.4	57.2	8.9	0.8	1,101	11.7
721	Laundry, cleaning, and garment services <sup>2</sup>	(NA)	48.1	28.2	16.0	3.5	0.4	406	4.7
7215	Coin-operated laundries and cleaning	(NA)	11.7	8.7	2.7	0.2	(Z)	45	0.4
7216	Drycleaning plants, except rug	(NA)	19.4	9.0	8.9	1.5	(Z)	158	1.6
723	Beauty shops	(NA)	75.3	48.4	25.2	1.7	(Z)	363	3.5
726	Funeral service and crematories	(NA)	15.1	8.8	5.8	0.4	(Z)	81	1.5
73	Business services	248.0	250.5	138.0	74.9	28.9	8.8	4,385	78.0
731	Advertising	(NA)	17.9	10.4	5.7	1.6	0.3	194	6.5
7311	Advertising agencies	(NA)	12.0	6.8	4.0	1.0	0.2	136	4.9
733	Mailing, reproduction, and stenographic services	(NA)	25.2	15.9	7.2	1.8	0.3	219	4.6
734	Services to buildings	(NA)	44.0	23.5	14.7	4.7	1.2	743	7.3
735	Miscellaneous equipment rental and leasing	(NA)	24.0	13.0	9.1	1.8	0.1	193	4.3
736	Personnel supply services <sup>2</sup>	(NA)	24.4	9.3	5.7	5.8	3.6	1,247	16.2
7361	Employment agencies	(NA)	11.8	6.5	3.6	1.3	0.3	169	2.9
7363	Help supply services	(NA)	12.6	2.8	2.1	4.5	3.3	1,076	13.2
737	Computer and data processing services <sup>2</sup>	(NA)	37.9	21.2	10.7	4.8	1.2	679	22.7
7371	Computer programming services	(NA)	13.2	7.9	3.4	1.4	0.4	203	7.8
7374	Data processing and preparation	(NA)	6.8	2.9	2.1	1.3	0.5	216	5.4
738	Miscellaneous business services	(NA)	60.5	33.0	18.2	7.3	1.9	1,001	14.3
7381	Detective and armored car services	(NA)	9.4	3.5	2.5	2.3	1.1	436	4.4
75	Automotive repair, services, and parking <sup>2</sup>	149.8	145.5	94.1	45.9	5.1	0.4	813	13.2
751	Automotive rentals, no drivers	(NA)	11.4	5.5	4.4	1.2	0.3	150	2.8
753	Automotive repair shops <sup>2</sup>	(NA)	108.2	72.6	33.5	2.0	(Z)	483	8.5
7532	Top and body repair and paint shops	(NA)	30.7	18.7	11.2	0.9	(Z)	162	3.0
7538	General automotive repair shops	(NA)	52.2	38.0	13.5	0.7	(Z)	202	3.4
754	Automotive services, except repair	(NA)	15.5	8.3	5.6	1.6	(Z)	128	1.3
76	Miscellaneous repair services	64.1	61.8	41.4	17.5	2.8	0.2	356	7.3
762	Electrical repair shops	(NA)	17.1	11.2	5.0	0.9	0.1	107	2.4
78	Motion pictures <sup>2</sup>	34.9	33.5	18.4	12.1	2.8	0.2	370	6.7
781	Motion picture production and services	(NA)	9.0	6.5	1.8	0.6	0.1	159	4.5
784	Video tape rental	(NA)	15.5	8.8	6.3	0.5	(Z)	87	0.6
79	Amusement and recreation services <sup>2</sup>	72.4	70.5	39.8	20.2	9.5	1.1	909	13.2
7997	Membership sports and recreation clubs	(NA)	13.5	6.8	3.4	3.0	0.3	223	3.0
80	Health services <sup>2</sup>	424.2	417.2	244.1	136.6	25.3	11.2	7,222	159.1
801	Offices and clinics of medical doctors	(NA)	192.0	118.6	64.9	7.7	0.7	1,242	51.1
802	Offices and clinics of dentists	(NA)	102.2	58.4	42.7	1.1	(Z)	499	10.0
8041	Offices and clinics of chiropractors	(NA)	20.1	16.2	3.7	0.1	(Z)	61	1.0
8042	Offices and clinics of optometrists	(NA)	15.3	11.2	4.0	0.1	(Z)	58	1.0
805	Nursing and personal care facilities	(NA)	18.0	1.9	2.0	9.1	4.9	1,358	15.1
806	Hospitals	(NA)	5.2	0.2	0.1	0.8	4.2	3,213	67.2
807	Medical and dental laboratories	(NA)	14.3	8.7	4.4	1.0	0.2	139	3.0
808	Home health care services	(NA)	7.5	2.5	2.0	2.3	0.7	303	3.2
81	Legal services	139.8	135.7	98.8	30.1	6.0	0.8	849	30.3
82	Educational services <sup>2</sup>	34.2	33.2	11.4	10.9	8.7	2.2	1,631	25.0
821	Elementary and secondary schools	(NA)	14.5	2.4	5.5	6.0	0.7	434	5.7
822	Colleges and universities	(NA)	3.0	0.4	0.5	0.8	1.3	1,013	16.3
83	Social services <sup>2</sup>	104.2	104.8	43.7	44.2	14.6	2.3	1,532	16.6
832	Individual and family services	(NA)	25.9	12.3	9.8	3.3	0.5	355	4.4
833	Job training and related services	(NA)	6.7	1.9	2.3	1.8	0.7	271	2.3
835	Child day care services	(NA)	39.2	15.5	19.4	4.2	0.1	368	2.8
836	Residential care	(NA)	19.3	6.5	8.4	3.7	0.6	358	4.2
86	Membership organizations <sup>2</sup>	221.6	214.3	129.2	67.3	16.4	1.4	1,778	19.4
861	Business associations	(NA)	12.0	8.0	3.2	0.7	0.1	92	2.3
863	Labor organizations	(NA)	20.0	11.1	7.3	1.5	0.1	179	2.5
864	Civic and social associations	(NA)	39.0	24.8	10.5	3.4	0.4	330	3.1
866	Religious organizations	(NA)	126.8	74.5	42.0	9.7	0.7	1,036	8.7
87	Engineering and management services <sup>2</sup>	204.1	199.0	122.7	56.9	16.3	3.1	2,302	67.7
8711	Engineering services	(NA)	35.6	18.7	11.4	4.6	0.9	592	21.0
8712	Architectural services	(NA)	17.1	9.8	5.9	1.2	0.1	141	4.5
872	Accounting, auditing, and bookkeeping	(NA)	66.2	44.8	17.8	3.1	0.5	498	11.9
873	Research and testing services	(NA)	15.1	7.4	4.9	2.3	0.6	360	10.3
8731	Commercial physical research	(NA)	3.9	1.8	1.2	0.7	0.2	159	5.6
8741	Management services	(NA)	17.1	9.4	5.0	2.2	0.5	283	6.9
8742	Management consulting services	(NA)	26.0	18.3	5.8	1.6	0.3	218	7.4

NA Not available. Z Less than 50. <sup>1</sup> Based on 1987 Standard Industrial Classification; see text, section 13. <sup>2</sup> Includes kinds of business not shown separately.

Source: U.S. Bureau of the Census, *County Business Patterns, 1988*.

## No. 1380. Service Industries—Annual Receipts of Taxable Firms: 1980 to 1989

(In millions of dollars. Estimated)

1972 SIC code <sup>1</sup>	KIND OF BUSINESS	1980	1985	1986	1987	1988	1989
70	Hotels, camps, and other lodging places	(NA)	45,867	48,106	54,136	58,884	61,090
701	Hotels, motels, and tourist courts	26,952	43,472	45,779	51,633	56,065	58,138
72	Personal services	25,133	39,367	42,848	47,039	54,074	59,553
721	Laundry, cleaning, and garment services	9,213	12,841	13,279	14,160	15,796	16,732
723	Beauty shops	5,798	9,028	9,673	10,639	11,733	12,992
726	Funeral services and crematories	3,491	5,203	5,408	5,668	6,116	6,218
73	Business services	(NA)	207,311	226,923	247,841	289,144	318,234
731	Advertising	(NA)	14,941	15,804	16,803	18,340	19,023
7311	Advertising agencies	(NA)	11,100	11,748	12,019	13,154	13,627
733	Mailing, reproduction, and stenographic services	(NA)	12,932	14,087	15,827	17,771	19,385
7333	Commercial photography, art, and graphics	(NA)	5,727	5,914	6,690	7,312	8,149
734	Services to dwellings and other buildings	(NA)	13,303	14,648	15,649	17,472	20,101
7349	Cleaning and maintenance services to dwellings, and other buildings, n.e.c.	(NA)	10,467	11,725	12,313	13,811	16,197
736	Personnel supply services	(NA)	17,680	19,993	24,044	28,576	31,626
7361	Employment agencies	(NA)	3,414	3,705	3,940	4,801	5,598
7362	Temporary help supply services	(NA)	11,775	12,691	16,331	19,870	21,626
737	Computer and data processing services	(NA)	45,165	50,587	56,004	66,443	74,083
7372	Computer programming and other software services	(NA)	21,026	24,030	28,110	34,780	40,530
7374	Data processing services	(NA)	15,159	16,414	17,022	18,868	19,959
7379	Computer related services, n.e.c. <sup>3</sup>	(NA)	9,981	10,143	10,872	12,795	13,594
7391	Research and development laboratories <sup>4</sup>	(NA)	7,661	8,824	9,198	11,236	12,941
7392	Management, consulting, and public relations services <sup>4</sup>	(NA)	39,543	42,304	44,252	52,528	57,324
7393	Detective agencies and protective services	(NA)	7,327	8,161	9,303	10,681	11,416
7394	Equipment rental and leasing services	(NA)	15,702	16,294	16,693	20,043	21,326
75	Automotive repair, services, and garages <sup>2</sup>	30,547	51,804	53,898	58,278	66,201	71,392
751	Automotive rental and leasing	8,759	14,620	15,497	16,679	18,733	19,364
7512	Passenger car rental and leasing	4,691	8,776	9,368	9,978	11,169	11,714
7513	Truck rental and leasing	3,968	5,485	5,793	6,451	7,283	7,358
753	Automotive repair shops	18,077	30,587	31,599	34,182	38,530	41,942
76	Miscellaneous repair services	15,424	20,726	22,445	24,599	27,351	29,374
78	Motion pictures	12,509	18,850	20,948	24,834	27,424	30,608
781.2	Motion picture production, distribution, allied services	(NA)	15,063	17,033	20,778	23,271	26,134
79	Amusement and recreation services <sup>2</sup>	(NA)	29,756	32,170	34,476	37,820	39,969
792	Theatrical producers, bands, orchestras, and entertainers <sup>4</sup>	(NA)	6,381	7,623	7,725	8,183	7,636
794	Commercial sports	(NA)	5,029	5,054	5,966	6,691	7,315
80	Health services <sup>2,5</sup>	(NA)	146,517	161,604	182,289	204,251	221,692
801	Offices of physicians	38,754	66,767	72,600	83,812	94,395	101,733
802	Offices of dentists	12,639	20,377	21,691	23,787	25,793	27,592
804	Offices of other health practitioners <sup>4</sup>	(NA)	7,864	8,791	10,340	12,022	12,437
805	Nursing and personal care facilities <sup>4</sup>	(NA)	17,462	19,040	20,063	21,246	23,104
806	Hospitals <sup>4</sup>	(NA)	15,724	18,068	19,720	21,740	22,685
808	Outpatient care facilities <sup>4</sup>	(NA)	7,118	8,814	10,654	12,596	15,484
81	Legal services <sup>4</sup>	(NA)	52,842	58,897	66,998	75,953	83,066
891	Engineering and architectural services	(NA)	49,306	51,319	57,051	62,881	73,631
893	Accounting, auditing, and bookkeeping	(NA)	21,241	22,911	26,612	29,695	33,303
4722	Arrangement of passenger transportation	(NA)	8,078	6,424	7,053	7,819	8,654
653	Real estate agents and managers <sup>5</sup>	(NA)	31,257	34,859	38,145	42,121	44,052

NA Not available. <sup>1</sup> Standard Industrial Classification; see text, section 13. <sup>2</sup> Includes other kinds of businesses, not shown separately. <sup>3</sup> N.e.c. means not elsewhere classified. <sup>4</sup> For data on tax-exempt organizations, see table 1381. <sup>5</sup> Excludes nonemployers.

## No. 1381. Selected Service Industries—Annual Revenues of Tax-Exempt Firms: 1985 and 1989

(In millions of dollars. Estimated)

1972 SIC code <sup>1</sup>	KIND OF BUSINESS	1985	1989	1972 SIC code <sup>1</sup>	KIND OF BUSINESS	1985	1989
7391,2,7	Selected business services <sup>2</sup>	3,595	6,105	81	Legal services	478	811
792,7997,	Selected amusement			833	Job training and vocational		
7999	services	5,186	7,441		rehabilitation services	3,129	4,439
805,6,8,9	Selected health services <sup>4</sup>	115,488	181,317	835	Child day care services	1,781	2,666
805	Nursing and personal care			836	Residential care	4,948	8,038
	facilities	6,818	10,361	892	Noncommercial educational,		
806	Hospitals	99,054	155,308		scientific, and research		
808	Outpatient care facilities	7,040	11,383		organizations	3,451	4,848

<sup>1</sup> Standard Industrial Classification; see text, section 13. <sup>2</sup> Covers research and development laboratories (SIC 7391); management, consulting, and public relations services (SIC 7392); and commercial testing laboratories (SIC 7397). <sup>3</sup> Covers theatrical producers, bands, orchestras, and entertainers (SIC 792); membership sports and recreation clubs (SIC 7997); and amusement and recreation services, not elsewhere classified (SIC 7999). <sup>4</sup> Includes health and allied services, not elsewhere classified (SIC 809).

Source of tables 1380 and 1381: U.S. Bureau of the Census, *Current Business Reports*, series BS, 1989 Service Annual Survey.

### No. 1382. Computer Programming and Data Processing—Summary, by Kind of Business: 1982 and 1987

[Covers establishments with payroll subject to Federal income tax]

1987 SIC code <sup>1</sup>	KIND OF BUSINESS	ESTABLISH- MENTS		RECEIPTS (mil. dol.)		PAID EMPLOYEES (1,000)	
		1982	1987	1982	1987	1982	1987
737	Computer programming, data processing, total . . . . .	21,537	39,701	21,810	54,099	353.5	637.4
7371,2,3	Computer programming, prepackaged software, and integrated systems design . . . . .	9,925	21,594	8,186	27,154	126.6	306.2
7371	Computer programming services . . . . .	(NA)	14,687	(NA)	14,170	(NA)	184.2
7372	Prepackaged software . . . . .	(NA)	3,392	(NA)	5,894	(NA)	55.7
7373	Computer integrated systems design . . . . .	(NA)	3,515	(NA)	7,090	(NA)	66.3
7374,5,6	Data processing services . . . . .	7,083	8,533	10,099	16,443	183.4	234.4
7374	Computer processing and data preparation and processing services . . . . .	(NA)	7,332	(NA)	14,068	(NA)	202.7
7375	Information retrieval services . . . . .	(NA)	463	(NA)	1,176	(NA)	13.1
7376	Computer facilities management services . . . . .	(NA)	738	(NA)	1,198	(NA)	18.5
7377,8,9	Computer rental and leasing, maintenance, and related services, n.e.c. . . . .	4,529	9,574	3,526	10,502	43.5	96.8
7377	Computer rental and leasing . . . . .	(NA)	1,061	(NA)	2,166	(NA)	8.7
7378	Computer maintenance and repair . . . . .	(NA)	3,693	(NA)	5,749	(NA)	53.3
7379	Computer related services, n.e.c. . . . .	(NA)	4,820	(NA)	2,588	(NA)	34.9

NA Not available. <sup>1</sup> Based on 1987 Standard Industrial Classification; see text, section 13. <sup>2</sup> N.e.c. means not elsewhere classified.

Source: U.S. Bureau of the Census, 1987 *Census of Service Industries*, Geographic Area Series, SC87-A-52.

### No. 1383. Computer Programming and Data Processing—Establishments, Employees, and Payroll: 1988

[Covers establishments with payroll. Excludes government employees, railroad employees, self-employed persons, etc.  
For statement on methodology, see Appendix III]

1987 SIC code <sup>1</sup>	KIND OF BUSINESS	Estab- lish- ments	Em- ploy- ees (1,000)	Annual payroll (mil. dol.)	STATE	COMPUTER PROGRAMMING, DATA PROCESSING (SIC 737)		
						Estab- lish- ments	Em- ploy- ees (1,000)	Annual payroll (mil. dol.)
737	Computer programming, data processing, total . . . . .	37,894	676.9	22,678	CA . . . . .	6,256	110.3	3,967
7371	Computer programming services . . . . .	13,182	202.5	7,781	FL . . . . .	1,735	27.0	837
7372	Prepackaged software . . . . .	3,156	58.3	2,473	IL . . . . .	1,862	32.9	1,132
7373	Computer integrated systems design . . . . .	3,495	64.4	2,483	MD . . . . .	1,134	33.4	1,214
7374	Computer processing and data preparation and processing services . . . . .	6,811	217.9	5,446	MA . . . . .	1,453	39.3	1,574
7375	Information retrieval services . . . . .	494	13.9	396	NJ . . . . .	2,291	34.9	1,307
7376	Computer facilities management services . . . . .	731	22.2	606	NY . . . . .	3,181	45.7	1,582
7377	Computer rental and leasing . . . . .	954	8.8	378	TX . . . . .	2,674	51.6	1,649
7378	Computer maintenance and repair . . . . .	3,644	50.1	1,858	VA . . . . .	1,411	46.0	1,593
7379	Computer related services, n.e.c. <sup>2</sup> . . . . .	4,674	39.5	1,415				

<sup>1</sup> Based on 1987 Standard Industrial Classification; see text, section 13. <sup>2</sup> N.e.c. means not elsewhere classified.

Source: U.S. Bureau of the Census, *County Business Patterns 1988*.

### No. 1384. National Nonprofit Associations—Number, by Type: 1980 to 1990

[Data compiled during last few months of year previous to year shown and the beginning months of year shown]

TYPE	1980	1985	1989	1990	TYPE	1980	1985	1989	1990
Total . . . . .	14,726	19,121	21,911	22,289	Fraternal, foreign interest, nationality, ethnic . . . . .	435	492	570	573
Trade, business, commercial . . . . .	3,118	3,719	3,806	3,918	Religious . . . . .	797	953	1,169	1,172
Agriculture . . . . .	677	882	914	940	Veteran, hereditary, patriotic . . . . .	208	281	404	462
Legal, governmental, public admin., military . . . . .	529	658	775	792	Hobby, avocational . . . . .	810	1,311	1,471	1,475
Scientific, engineering, tech . . . . .	1,039	1,270	1,363	1,417	Athletic sports . . . . .	504	737	839	840
Educational . . . . .	2,376	2,822	1,268	1,281	Labor unions . . . . .	235	252	254	253
Cultural . . . . .	2,376	2,822	1,872	1,886	Chambers of Commerce Greek and non-Greek . . . . .	105	142	168	168
Social welfare . . . . .	994	1,450	1,686	1,705	letter societies . . . . .	318	331	337	340
Health, medical . . . . .	1,413	1,886	2,162	2,227	Fan clubs . . . . .	(NA)	(NA)	561	581
Public affairs . . . . .	1,068	1,935	2,292	2,249					

NA Not available. <sup>1</sup> National and binational.

Source: Gale Research Inc., Detroit, MI. Compiled from *Encyclopedia of Associations*, annual. (Copyright).



## Section 29

# Foreign Commerce and Aid

This section presents data on the flow of goods, services, and capital between the United States and other countries; changes in official reserve assets of the United States; international investments; foreign assistance programs; and import duties.

The Bureau of Economic Analysis publishes current figures on U.S. international transactions and the U.S. international investment position in its monthly *Survey of Current Business*. Statistics for the foreign aid programs are presented by the Agency for International Development (AID) in its annual *U.S. Overseas Loans and Grants and Assistance from International Organizations*; and by the Department of Agriculture in its *Foreign Agricultural Trade of the United States*.

The principal source of merchandise import and export data is the Bureau of the Census. Current data are presented monthly in *U.S. Merchandise Trade*, report series FT 900, and *U.S. Merchandise Trade: Exports, General Imports, and Imports for Consumption*, report series FT 925. The *Bureau of the Census Catalog* and the *Guide to Foreign Trade Statistics* lists the Bureau's monthly and annual reports in this field. In addition, the International Trade Administration and the Bureau of Economic Analysis present summary as well as selected commodity and country data for U.S. foreign trade in the *Overseas Business Reports* and the *Survey of Current Business*, respectively. The merchandise trade data in the latter source include balance of payments adjustments to the Census data. The Treasury Department's *Monthly Treasury Statement of Receipts and Outlays of the United States Government* contains information on import duties.

**International accounts.**—The international transactions tables (Nos. 1385-1387) show, for given time periods, the transfer of goods, services, grants, and financial assets and liabilities between the United States and the rest of the world. The international investment position table (No. 1388) presents, for specific dates, the value of U.S. investments abroad and of foreign investments in the United States. The movement of foreign and U.S. capital as presented in the balance of payments is not the only factor affecting the total value of foreign investments. Among the other factors are changes in the valuation of assets or liabilities, including changes in prices of securities, defaults, expropriations, and write-offs.

Direct investment abroad means the ownership or control, directly or indirectly, by one person of 10 percent or more of the voting securities of an incorporated business enterprise or an equivalent interest in an unincorporated business enterprise. Direct investment position is the value of U.S. parents' claims on the equity of, and receivables due from, foreign affiliates, less foreign affiliates' receivables due from their U.S. parents. Income consists of parents' shares in the earnings of their affiliates plus net interest received by parents on intercompany accounts, less withholding taxes on dividends and interest.

**Foreign aid.**—Foreign assistance is divided into three major categories—grants (military supplies and services and other grants), credits, and other assistance (through net accumulation of foreign currency claims from the sale of agricultural commodities). *Grants* are transfers for which no payment is expected (other than a limited percentage of the foreign currency "counterpart" funds generated by the grant), or which at most involve an obligation on the part of the receiver to extend aid to the United States or other countries to achieve a common objective. *Credits* are loan disbursements or transfers under other agreements which give rise to specific obligations to repay, over a period of years, usually with interest. All known returns to the U.S. Government stemming from grants and credits (reverse grants, returns of grants, and payments of principal) are taken into account in net grants and net credits, but no allowance is made for interest or commissions. *Other assistance* represents the transfer of U.S. farm products in exchange for foreign currencies (plus, since enactment of Public Law 87-128, currency claims from principal and interest collected on credits extended under the farm products program), less the Government's disbursements of the currencies as grants, credits, or for purchases. The net acquisition of currencies represents net transfers of resources to foreign countries under the agricultural programs, in addition to those classified as grants or credits.

Figures as published in the *Foreign Grants and Credits* series are not identical with figures shown for Government unilateral transfers and capital in the balance of payments, mainly because of differences in treatment of particular items by the two sets of accounts. Such items include contributions to the multilateral construction program of the North Atlantic Treaty Organization, Government investments in certain productive enterprises abroad, Government receipts on funded claims, and net changes in foreign currency holdings resulting from transactions other than those under the farm products program, such as collections of principal and interest and purchases for dollars.

The basic instrument for extending military aid to friendly nations has been the Mutual Defense Assistance Program authorized by the Congress in 1949. Prior to 1952, economic and technical aid was authorized in the Foreign Assistance Act of 1948, the 1950 Act for International Development, and other legislation which set up programs for specific countries. In 1952, these economic, technical, and military aid programs were combined under the Mutual Security Act, which in turn was followed by the Foreign Assistance Act passed in 1961. Appropriations to provide military assistance were also made in the Department of Defense Appropriation Act (rather than the Foreign Assistance Appropriation Act) beginning in 1966 for certain countries in Southeast Asia and in other legislation concerning program for specific countries (such as Israel). Figures on activity under the Foreign Assistance Act as reported in the *Foreign Grants and Credits* series differ from data published by AID or its immediate predecessors, due largely to differences in reporting, timing, and treatment of particular items.

**Exports.**—The Bureau of the Census compiles export data primarily from Shipper's Export Declarations required to be filed with customs officials for shipments leaving the United States. They include U.S. exports under mutual security programs and exclude shipments to U.S. Armed Forces for their own use.

The value reported in the export statistics is generally equivalent to a free alongside ship (f.a.s.) value at the U.S. port of export, based on the transaction price, including inland freight, insurance, and other charges incurred in placing the merchandise alongside the carrier at the U.S. port of exportation. This value, as defined, excludes the cost of loading merchandise aboard the exporting carrier and also excludes freight, insurance, and any other charges or transportation and other costs beyond the U.S. port of exportation. The country of destination is defined as the country of ultimate destination or country where the merchandise is to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. When ultimate destination is not known, the shipment is statistically credited to the last country to which the shipper knows the merchandise will be shipped in the same form as exported.

For certain "low-valued" shipments, the export statistics include estimates based upon selected samples of such shipments. The dollar value of the "low-valued" shipments have varied. For instance, effective January 1987 through September 1989, data are estimated for shipments valued under \$1,501; from October 1989 through December 1989, data are estimated for shipments valued under \$2,501 to all countries.

Effective January 1990, the United States is substituting Canadian import statistics for U.S. exports to Canada. As a result of the data exchange between the U.S. and Canada, the U.S. has adopted the Canadian import exemption level for its export statistics based on shipments to Canada.

Data are estimated for shipments valued under \$2,501 to all countries, except Canada, using factors based on the ratios of lowvalued shipments to individual country totals. These shipments represent slightly less than 2.5 percent of the monthly value of U.S. exports to those countries. Data are estimated for shipments reported on Canadian import documents which total less than \$900 (Canadian). Such shipments represent 2 percent of the monthly value of U.S. exports to Canada.

From 1978-1988 exports were based on Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States. These statistics were retabulated and published using Schedule E, Standard International Trade Classification, Revision 2. Beginning in 1989, Schedule B classifications were based on the Harmonized System and made to coincide with the Standard International Trade Classification, Revision 3. This revision will affect the comparability of most export series beginning with the 1989 data.

**Imports.**—The Bureau of the Census compiles import data from various customs forms required to be filed with customs officials. From 1974-1981, data on import values were presented on three bases: The transaction values f.a.s. (free alongside ship) at the foreign port of export, the c.i.f. (cost, insurance, and freight), and the previously reported customs import value (as appraised by the U.S. Customs Service in accordance with legal requirements of the Tariff Act of 1930, as amended). This latter valuation, primarily used for collection of import duties, frequently did not reflect the actual transaction value. Beginning 1982, import data are based on customs values, i.e., the price paid by the buyer to the seller in accordance with the 1979 Trade Agreement



Act amendments to the 1930 Tariff Act. For the c.i.f. imports, the new customs value was substituted for the arms-length transaction value used for 1981 and earlier years. The f.a.s. transaction values were discontinued as of January 1982. Country of origin is defined as country where the merchandise was grown, mined, or manufactured. If country of origin is unknown, country of shipment is reported.

Imports are classified either as "General imports" or "Imports for consumption." General imports are a combination of entries for immediate consumption, entries into customs bonded warehouses, and entries into U.S. Foreign Trade Zones, thus generally reflecting total arrivals of merchandise. Imports for consumption are a combination of entries for immediate consumption, withdrawals from warehouses for consumption, and entries of merchandise into U.S. customs territory from U.S. Foreign Trade Zones, thus generally reflecting the total of the commodities entered into U.S. consumption channels.

Since July 1953, the import statistics include estimates, not classified by commodity, for certain low-valued shipments. For instance, from January 1985 through September 1989, import statistics include estimates for shipments valued under \$1,001. Effective October 1989, import statistics are fully compiled on shipments valued over \$1,250 or, under certain textile programs, for any article which must be reported on a formal entry. Value data for shipments valued under \$1,251 and not required to be reported on formal entries are estimated for individual countries using factors based on the ratios of low-valued shipments to individual country totals for past periods. The estimated low-valued shipments generally amount to slightly less than 4 percent of the import total.

From 1978-1988, imports were based on the Tariff Schedule of the United States Annotated. The statistics were retabulated and published using Schedule A, Standard International Trade Classification, Revision 2. Beginning in 1989, the statistics are based on the Harmonized Tariff Schedule of the United States, which coincides with the Standard International Trade Classification, Revision 3. This revision will affect the comparability of most import series beginning with the 1989 data.

**Area coverage.**—Except as noted, the geographic area covered by the export and import trade statistics is the United States Customs area (includes the 50 States, the District of Columbia and Puerto Rico), the U.S. Virgin Islands (effective January 1981), and U.S. Foreign Trade Zones (effective July 1982). Data for selected tables and total values for 1980, have been revised to reflect the U.S. Virgin Islands' trade with foreign countries, where possible.

**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

## No. 1385. U.S. International Transactions, by Type of Transaction: 1980 to 1990

[In millions of dollars. Minus sign (-) indicates debits. See also Historical Statistics, Colonial Times to 1970, series U 1-25]

TYPE OF TRANSACTION	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
<b>Exports of goods and services<sup>1</sup></b>	<b>343,241</b>	<b>379,414</b>	<b>355,060</b>	<b>343,877</b>	<b>379,318</b>	<b>366,049</b>	<b>364,135</b>	<b>432,134</b>	<b>533,438</b>	<b>603,189</b>	<b>648,738</b>
Merchandise, excl. military <sup>2,3</sup>	224,269	237,085	211,198	201,820	219,900	215,935	223,367	250,268	320,337	360,465	388,286
Foods, feeds, and beverages	36,445	36,845	32,228	32,116	32,197	24,513	23,780	25,252	33,734	36,561	35,253
Industrial supplies and materials	72,287	70,428	64,028	59,146	64,148	64,823	64,908	69,978	88,960	98,481	106,014
Capital goods, except automotive	76,259	83,915	76,028	71,308	77,041	79,618	82,908	92,352	119,005	130,049	153,946
Automotive vehicles and parts <sup>4</sup>	17,350	18,977	17,422	18,620	22,581	25,144	25,331	28,131	33,868	34,689	36,600
Consumer goods (nonfood) <sup>5</sup>	17,698	17,778	16,182	15,040	14,962	14,381	16,275	20,275	28,869	35,384	42,977
Services	47,564	57,354	59,516	60,065	68,483	67,832	79,768	91,332	103,053	115,169	130,623
Transfers under U.S. military agency sales contracts	9,029	10,720	12,572	12,524	9,969	8,699	8,596	11,273	9,520	8,331	10,180
Travel	10,588	12,913	12,393	10,847	9,708	17,963	20,273	23,366	28,935	34,432	39,253
Passenger fares	2,591	3,111	3,174	4,323	4,014	5,457	5,457	6,866	8,771	10,101	11,650
Other transportation	11,618	12,560	12,317	12,580	13,809	14,674	15,458	16,986	18,039	20,18	22,000
Royalties and license fees	7,065	7,284	5,177	5,276	5,829	5,995	7,254	9,080	10,858	11,815	14,795
Other private services	6,276	9,120	13,308	14,472	15,268	15,801	52,153	23,251	25,359	29,46	31,646
U.S. Government misc. services	368	517	578	686	714	878	595	526	872	613	688
Income on U.S. assets abroad	71,388	84,975	85,346	81,972	92,935	82,282	80,962	90,636	110,048	127,536	128,829
Direct investment	37,148	32,549	24,717	26,822	29,984	28,285	30,900	40,588	49,818	53,617	54,137
Other private receipts	31,680	48,746	56,512	50,318	57,725	48,487	43,668	44,638	53,530	66,377	64,796
U.S. Government receipts	2,562	3,680	4,118	4,832	5,227	5,489	6,413	5,311	6,689	5,542	9,897
<b>Imports of goods, services and income</b>	<b>-333,774</b>	<b>-364,192</b>	<b>-352,154</b>	<b>-374,065</b>	<b>-465,703</b>	<b>-472,908</b>	<b>-513,519</b>	<b>-579,873</b>	<b>-647,295</b>	<b>-698,483</b>	<b>-726,961</b>
Merchandise, excl. military <sup>2,3</sup>	-248,750	-265,063	-247,642	-268,900	-332,422	-338,083	-368,425	-409,766	-447,323	-475,329	-497,966
Foods, feeds, and beverages	18,548	18,531	17,462	18,871	21,873	24,346	24,929	24,809	24,929	25,057	26,648
Industrial supplies and materials	132,256	134,944	110,922	108,183	124,026	113,678	104,263	113,746	122,683	134,945	144,451
Capital goods, except automotive	31,420	36,912	38,407	43,193	60,460	61,434	72,139	85,129	102,203	113,134	117,236
Automotive vehicles and parts <sup>4</sup>	28,058	30,885	34,040	43,218	56,561	65,077	78,110	85,174	87,948	85,997	86,129
Consumer goods (nonfood) <sup>5</sup>	34,222	38,302	39,661	47,200	61,155	66,345	79,179	88,824	96,424	102,812	106,248
Services	-41,491	-45,503	-47,415	-50,616	-63,738	-68,710	-75,061	-84,897	-91,534	-94,706	-107,899
Direct defense expenditures	-10,851	-11,954	-12,480	-12,685	-12,116	-12,795	-13,503	-14,803	-14,872	-14,651	-16,593
Travel	-10,367	-11,479	-12,394	-13,149	-13,305	-15,155	-16,746	-18,022	-19,022	-19,977	-20,376
Passenger fares	-3,907	-4,487	-4,772	-6,003	-5,878	-6,650	-6,666	-7,411	-7,932	-8,529	-9,529
Other transportation	-11,780	-12,474	-11,710	-12,222	-14,843	-16,715	-16,086	-18,086	-19,675	-20,791	-23,520
Royalties and license fees	-724	-850	-617	-723	-855	-881	-1,062	-1,245	-2,054	-2,245	-2,703
Other private services	-2,909	-3,562	-4,003	-4,264	-5,108	-5,840	-6,703	-11,318	-11,843	-11,481	-14,756
U.S. Government miscellaneous services	-1,214	-1,287	-1,460	-1,568	-1,534	-1,735	-1,686	-1,883	-1,980	-2,242	-2,222
Income on foreign assets in U.S.	-42,532	-53,626	-57,097	-54,549	-69,542	-66,115	-70,013	-85,210	-108,438	-128,448	-121,296
Direct investment	-8,635	-6,988	-3,155	-5,598	-9,229	-8,078	-9,578	-16,748	-14,004	-14,771	-16,004
Other private payments	-21,214	-29,415	-34,659	-29,958	-39,158	-37,064	-40,563	-50,419	-61,526	-78,489	-79,063
U.S. Government payments	-12,684	-17,313	-18,282	-18,983	-21,155	-22,972	-24,071	-25,291	-30,164	-35,955	-37,462
<b>Unilateral transfers (excl. military grants, net)</b>	<b>-8,349</b>	<b>-8,331</b>	<b>-9,775</b>	<b>-9,956</b>	<b>-12,821</b>	<b>-15,473</b>	<b>-16,009</b>	<b>-14,575</b>	<b>-15,005</b>	<b>-14,720</b>	<b>-21,073</b>
U.S. Government grants	-5,486	-5,145	-6,087	-6,468	-8,696	-11,267	-11,867	-10,276	-10,744	-10,963	-19,972
U.S. Govt. pensions other transfers	-1,818	-2,041	-2,251	-2,207	-2,159	-2,138	-2,137	-2,212	-2,491	-2,432	-2,946
Private remittances and other transfers	-1,044	-6,144	-1,438	-1,280	-1,786	-2,063	-1,946	-2,087	-1,770	-1,326	-1,163

TYPE OF TRANSACTION	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
<b>U.S. assets abroad, net (increase/capital outflow (-))</b>											
U.S. official reserve assets, net	-88,118	-110,951	-124,490	-56,100	-31,070	-27,721	-92,030	-62,946	-84,176	-127,061	-61,251
Special drawing rights	-8,155	-5,175	-4,965	-1,196	-3,131	-3,858	312	9,149	1,127	-25,293	-2,158
Reserve position in the International Monetary Fund	-16	-18	-18	-4,334	-995	908	1,501	2,070	912	-535	-192
Foreign currencies	-1,667	-2,491	-2,552	-4,434	-895	908	1,501	2,070	912	-535	-192
U.S. Govt. assets, other than official reserve assets, net	-6,472	-861	-1,041	3,304	-1,156	-3,869	-942	7,568	-5,064	-25,229	-2,697
U.S. credits and other long-term assets	-5,162	-5,097	-6,131	-6,006	-5,489	-2,821	-2,022	997	2,969	1,185	2,971
Repayments on U.S. credits and other long-term assets	-9,860	-9,674	-10,063	-9,967	-9,598	-7,657	-8,084	-6,515	-7,674	-5,513	-6,929
U.S. foreign currency holdings and U.S. short-term assets, net	4,456	4,413	4,292	5,012	4,490	4,719	6,089	7,625	10,378	6,548	9,955
U.S. private assets, net	242	164	-360	-51	-379	117	873	-113	265	151	-56
Direct investments abroad	-72,802	-100,679	-113,394	-49,898	-22,451	-21,043	-90,321	-73,091	-83,232	-102,853	-82,083
Foreign securities	-19,222	-9,624	-9,667	-6,695	-11,587	-13,162	-18,679	-31,045	-16,218	-31,722	-36,371
U.S. claims on unaffiliated foreigners reported by U.S. nonbanking concerns	-3,568	-5,699	-7,983	-6,762	-4,756	-7,481	-5,251	-7,846	-17,946	-21,938	-26,785
U.S. claims reported by U.S. banks, n.i.e. <sup>a</sup>	-3,174	-1,181	6,628	-6,513	5,019	923	-7,396	5,324	-2,947	1,391	(NA)
	-46,898	-84,175	-111,070	-28,928	-11,127	-1,323	-59,975	-42,119	-56,322	-50,684	816
<b>Foreign assets in the U.S., net (increase/capital inflow (+))</b>											
Foreign official assets in the U.S., net	56,112	83,032	93,746	84,869	102,621	130,012	221,599	218,470	221,442	214,852	87,545
U.S. Government securities	15,497	4,960	3,593	5,845	3,140	-1,083	35,586	45,210	39,515	8,823	30,778
U.S. Treasury securities	11,895	6,322	5,085	6,496	4,703	-1,139	33,150	44,802	43,050	1,716	28,371
Other	9,708	5,019	5,779	6,972	4,690	-838	34,364	43,236	41,741	333	28,704
Other U.S. Government liabilities	2,187	1,303	694	-476	13	-301	-1,214	1,584	-1,309	1,383	667
U.S. liabilities reported by U.S. banks, n.i.e. <sup>a</sup>	615	-338	605	602	739	880	2,135	-2,503	-710	332	1,486
Other foreign official assets	-159	-3,870	-1,747	545	555	645	1,187	3,918	-319	4,940	1,495
Other foreign assets in the U.S., net	3,145	2,646	-350	-1,798	-2,857	-1,469	-884	-1,007	-2,506	1,835	-1,574
Direct investments in U.S.	42,615	78,072	90,154	79,023	99,481	131,096	186,011	173,260	181,927	205,839	56,767
U.S. Treasury securities	16,918	25,195	13,792	19,946	25,359	19,022	34,091	46,694	58,436	73,244	25,709
U.S. securities other than U.S. Treasury securities	9,645	5,297	5,027	8,699	23,001	20,433	3,809	2,643	20,239	29,951	1,144
U.S. liabilities to unaffiliated foreigners reported by U.S. nonbanking concerns	5,457	6,905	6,085	8,164	12,568	50,962	70,969	42,120	26,353	39,568	4,096
U.S. liabilities reported by U.S. banks, n.i.e. <sup>a</sup>	6,852	917	-2,383	-118	4,704	-366	-2,641	2,963	6,664	2,867	(NA)
	10,743	42,128	65,633	50,342	33,849	41,045	75,763	89,026	70,235	61,199	19,766
<b>Allocations of special drawing rights</b>											
Statistical discrepancy	25,736	19,934	36,612	-	-	-	-	-	-	-	-
Balance on merchandise trade	-25,481	-27,978	-36,444	-67,080	-112,522	-122,148	-145,058	-159,500	-126,986	-114,864	-73,002
Balance on services	6,033	11,852	12,101	9,469	2,744	-877	-1,706	6,334	11,519	20,463	22,923
Balance on investment income	28,856	31,349	28,250	27,423	23,394	18,165	9,326	5,326	1,610	913	7,553
Balance on goods, services, and income	9,467	15,223	3,907	-30,168	-66,385	-106,959	-129,384	-147,739	-113,957	-95,314	-76,224
Unilateral transfers, net	-8,349	-8,331	-9,775	-9,956	-12,621	-15,473	-16,009	-14,575	-15,005	-14,720	-21,073
Balance on current account	1,119	6,892	-5,868	-40,143	-99,006	122,332	-145,363	-162,314	-128,862	-110,034	-89,297

<sup>a</sup> Represents zero. <sup>1</sup> Excludes transfers of goods and services under U.S. military grant programs. <sup>2</sup> Excludes exports of goods under U.S. military agency sales contracts identified in Bureau of the Census export documents. <sup>3</sup> Excludes imports of goods under direct defense expenditures identified in Census import documents. <sup>4</sup> Break in series due to inclusion of new data. See Technical Note in *Survey of Current Business*, June 1979. <sup>5</sup> Includes other end-use items, not shown separately. <sup>6</sup> Includes engines. <sup>7</sup> Excludes automotive. <sup>8</sup> Includes foreign currency notes sold to private residents abroad.

Sources: U.S. Bureau of Economic Analysis, *Survey of Current Business*, June 1990 and March 1991.

**No. 1386. U.S. International Transactions—Summary: 1960 to 1990**

(In billions of dollars. Reserve assets are for end of period. Minus sign (-) indicates debits, see headnote, table 1385)

YEAR	Merchandise trade balance <sup>1</sup>	Net investment income	Net military transactions	Net travel and transportation receipts	Other services, net	Balance on goods, services, and income	Unilateral transfers <sup>1</sup>	Balance on current account	Net foreign assets in U.S.	Net U.S. assets abroad	Net U.S. official reserve assets
1960.....	4.9	3.4	-1.1	-1.0	0.6	6.9	-4.1	2.8	2.3	-4.1	19.4
1965.....	5.0	5.3	-0.5	-1.3	1.5	10.0	-4.6	5.4	0.7	-5.7	15.5
1966.....	3.8	5.0	-1.0	-1.3	1.5	8.0	-5.0	3.0	3.7	-7.3	14.9
1967.....	3.8	5.3	-1.2	-1.8	1.7	7.9	-5.3	2.6	7.4	-9.8	14.8
1968.....	0.6	6.0	-0.6	-1.5	1.8	6.2	-5.6	0.6	9.9	-11.0	15.7
1969.....	0.6	6.0	-0.7	-1.8	2.0	6.1	-5.7	0.4	12.7	-11.6	17.0
1970.....	2.6	6.2	-0.6	-2.0	2.3	8.5	-6.2	2.3	6.4	-9.3	14.5
1971.....	-2.3	7.3	0.7	-2.3	2.6	6.0	-7.4	-1.4	23.0	-12.5	12.2
1972.....	-6.4	8.2	1.1	-3.1	3.0	2.7	-8.5	-5.8	21.5	-14.5	13.2
1973.....	0.9	12.2	0.7	-3.2	3.4	14.1	-6.9	7.1	18.4	-22.9	14.4
1974.....	-5.5	15.5	0.2	-3.2	4.2	11.2	-9.2	2.0	34.2	-34.7	15.9
1975.....	8.9	12.8	1.5	-2.8	4.9	25.2	-7.1	18.1	15.7	-39.7	16.2
1976.....	-9.5	16.0	0.9	-2.6	5.0	9.9	-5.7	4.2	36.5	-51.3	18.7
1977.....	31.1	18.0	1.7	-3.6	5.7	-9.3	-5.2	-14.5	51.3	-34.8	19.3
1978.....	-33.9	20.1	0.9	-3.6	6.9	-9.6	-5.8	-15.4	64.0	-61.1	18.7
1979.....	-27.5	30.1	-1.3	-2.9	7.3	5.6	-6.6	-1.0	38.8	-64.3	19.0
1980.....	-25.5	28.9	-1.8	-1.0	8.9	9.5	-8.3	1.1	58.1	-86.1	26.8
1981.....	-28.0	31.3	-0.8	0.1	12.6	15.2	-8.3	6.9	83.0	-111.0	30.1
1982.....	-36.4	28.3	0.1	-1.0	13.0	3.9	-9.8	-5.9	93.7	-124.5	34.0
1983.....	-67.1	27.4	-0.2	-4.2	13.9	-30.2	-10.0	-40.1	84.9	-56.1	33.7
1984.....	-112.5	23.4	-2.1	-9.2	14.0	-86.4	-12.6	-99.0	102.6	-31.1	34.9
1985.....	-122.1	16.2	-4.1	-10.8	14.0	-106.9	-15.5	-122.3	130.0	-27.7	43.2
1986.....	-145.1	11.0	-4.9	-8.9	18.6	-129.4	-16.0	-145.4	221.6	-92.0	48.5
1987.....	-159.5	5.3	-3.5	-8.3	18.3	-147.7	-14.6	-162.3	218.5	-62.9	45.8
1988.....	-127.0	1.6	-5.5	-4.1	21.0	-113.9	-15.0	-128.9	221.4	-84.2	47.8
1989.....	-114.9	-0.9	-6.3	0.7	26.1	-95.3	-14.7	-110.0	214.7	-127.1	74.6
1990.....	-108.7	7.5	-6.4	1.7	27.6	-78.2	-21.1	-99.3	87.5	-61.3	83.3

<sup>1</sup> Excludes military.Source: U.S. Council of Economic Advisers, *Economic Indicators*, monthly; and *Economic Report of the President*, annual. Data from U.S. Bureau of Economic Analysis and U.S. Dept. of the Treasury.**No. 1387. U.S. Balances on International Transactions, by Area and Selected Country: 1988 to 1990**

(In millions of dollars. Minus sign (-) indicates debits)

AREA OR COUNTRY	1988, BALANCE ON—			1989, BALANCE ON—			1990, BALANCE ON—		
	Merchandise trade <sup>1</sup>	Goods, services, and income	Current account	Merchandise trade <sup>1</sup>	Goods, services, and income	Current account	Merchandise trade <sup>1</sup>	Goods, services, and income	Current account
All areas.....	-126,986	-113,857	-128,862	-114,864	-95,314	-110,034	-108,680	-78,224	-99,297
Western Europe.....	-16,193	-31,579	-31,643	-3,826	-15,969	-15,458	2,255	-6,268	-4,987
European Economic Community <sup>2</sup> .....	-11,569	-25,948	-25,093	-871	-12,260	-11,242	4,937	-5,192	-3,061
United Kingdom.....	413	-12,566	-12,024	2,408	-10,412	-9,971	2,967	-12,137	-11,406
Belgium-Luxembourg.....	2,880	4,327	4,298	3,920	5,419	5,388	(NA)	(NA)	(NA)
France.....	-2,587	-1,003	-1,102	1,310	1,373	1,274	(NA)	(NA)	(NA)
West Germany.....	-12,059	-20,197	-19,107	-8,263	-14,488	-13,105	(NA)	(NA)	(NA)
Italy.....	-4,843	4,209	-4,459	-4,782	-4,230	4,520	(NA)	(NA)	(NA)
Netherlands.....	3,761	4,106	4,081	6,327	6,780	6,754	(NA)	(NA)	(NA)
Other Western Europe.....	-4,624	-5,631	-6,550	-2,955	-3,709	-4,216	-2,682	-1,076	-1,926
Eastern Europe.....	1,666	1,684	1,291	3,513	4,273	3,859	2,043	2,375	1,910
Canada.....	-10,424	2,159	1,828	-9,662	3,868	3,514	-9,436	3,862	3,578
Latin America, other Western Hemisphere.....	-7,790	-7,696	-10,805	-8,613	-7,144	-10,384	-10,167	-9,966	-13,580
Mexico.....	-2,730	-2,962	-3,538	2,428	-2,130	-2,710	(NA)	(NA)	(NA)
Venezuela.....	-635	88	61	-3,803	-3,031	-3,061	(NA)	(NA)	(NA)
Australia.....	3,290	6,581	6,505	4,257	7,747	7,694	3,897	7,015	6,934
Japan.....	-52,618	-50,525	50,633	-49,782	-43,811	-43,945	-41,820	-32,552	-32,297
Other Asia and Africa.....	-44,969	-37,188	-46,969	-50,926	-47,567	-57,405	-56,152	-46,824	-63,605
South Africa.....	154	562	540	124	561	519	(NA)	(NA)	(NA)
Int'l. and unallocated.....	52	2,707	1,366	173	3,269	2,091	700	4,135	2,750

- Represents zero. NA Not available. <sup>1</sup> Adjusted to balance of payments basis; excludes exports under U.S. military sales contracts and imports under direct defense expenditures. <sup>2</sup> Includes Denmark, Greece, Ireland, Spain, Portugal, European Atomic Energy Community, European Coal and Steel Community, and European Investment Bank, not shown separately. <sup>3</sup> Includes Ryukyu Islands.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, June 1990 and March 1991.

## No. 1388. International Investment Position: 1980 to 1989

[In billions of dollars. Estimates for end of year; subject to considerable error due to nature of basic data. Direct investments at book value; other types at market or face values. See *Historical Statistics, Colonial Times to 1970*, series U 26-39, for similar data]

TYPE OF INVESTMENT	1980	1982	1983	1984	1985	1986	1987	1988	1989
<b>U.S. net international investment position . . . . .</b>	<b>106,268</b>	<b>136,705</b>	<b>89,003</b>	<b>-2,161</b>	<b>-117,205</b>	<b>-273,885</b>	<b>-378,066</b>	<b>-531,084</b>	<b>-663,747</b>
<b>U.S. assets abroad . . . . .</b>	<b>607,098</b>	<b>824,755</b>	<b>873,456</b>	<b>895,913</b>	<b>949,732</b>	<b>1,073,400</b>	<b>1,175,932</b>	<b>1,265,620</b>	<b>1,412,515</b>
U.S. official reserve assets . . . . .	26,764	33,958	33,747	34,834	43,194	48,511	45,800	47,802	74,609
Gold . . . . .	11,168	11,148	11,121	11,096	11,098	11,064	11,078	11,057	11,059
Special drawing rights . . . . .	2,610	5,250	5,025	5,841	7,293	8,395	10,283	9,637	9,951
Reserve position in IMF . . . . .	2,852	7,348	11,312	11,541	11,947	11,730	11,349	9,745	9,048
Foreign currencies . . . . .	10,134	10,212	6,289	6,656	12,856	17,322	13,090	17,363	44,551
U.S. Government assets, other . . . . .	63,768	74,584	79,491	84,895	87,676	89,598	88,569	85,571	84,347
U.S. loans and other long-term assets . . . . .	62,023	72,884	77,814	82,883	85,814	88,747	87,628	84,892	83,838
U.S. foreign currency holdings and short-term assets . . . . .	1,745	1,700	1,677	2,012	1,862	851	941	680	509
U.S. private assets . . . . .	516,566	716,213	760,218	776,084	818,862	935,291	1,041,563	1,132,247	1,253,559
Direct investments abroad . . . . .	215,375	207,752	207,203	211,480	230,250	259,800	314,307	333,501	373,436
Foreign securities . . . . .	62,653	75,300	83,393	88,917	112,226	131,736	146,714	156,778	189,625
U.S. claims on unaffiliated foreigners <sup>1</sup> . . . . .	34,672	28,583	35,117	30,056	29,023	36,417	31,085	33,932	32,541
U.S. claims reported by U.S. banks <sup>2</sup> . . . . .	203,866	404,578	434,505	445,631	447,363	507,338	549,457	608,036	657,957
<b>Foreign assets in the U.S. . . . .</b>	<b>500,830</b>	<b>688,050</b>	<b>784,453</b>	<b>898,074</b>	<b>1,066,937</b>	<b>1,347,285</b>	<b>1,553,998</b>	<b>1,796,704</b>	<b>2,076,262</b>
Foreign official assets in the U.S. . . . .	176,062	189,109	194,468	199,690	202,545	241,195	282,886	321,611	337,202
U.S. Government securities . . . . .	118,189	132,587	136,987	144,665	145,063	178,913	220,548	260,934	285,896
Other U.S. Government liabilities . . . . .	13,367	13,639	14,231	14,971	15,865	18,000	15,497	14,788	15,120
U.S. liabilities reported by U.S. banks <sup>2</sup> . . . . .	30,381	24,989	25,534	26,090	26,734	27,920	31,838	31,519	36,459
Other foreign official assets . . . . .	14,125	17,894	17,716	13,964	14,882	16,359	15,003	14,370	19,727
Other foreign assets in the U.S. . . . .	324,768	498,941	589,985	698,384	864,392	1,106,090	1,271,112	1,475,093	1,739,060
Direct investments . . . . .	83,046	124,677	137,061	164,583	184,615	220,414	271,788	328,851	400,817
U.S. securities other than U.S. Treasury securities . . . . .	74,114	92,988	113,811	128,477	207,868	310,883	346,187	395,582	489,805
U.S. liabilities to unaffiliated foreigners <sup>1</sup> . . . . .	30,426	27,532	26,937	31,024	29,458	26,902	29,818	36,039	38,876
U.S. liabilities reported by U.S. banks <sup>2</sup> . . . . .	121,069	227,986	278,330	312,179	354,497	451,813	540,731	613,744	674,755
U.S. Treasury securities . . . . .	16,113	25,758	33,846	62,121	87,954	96,078	82,588	100,877	134,807

<sup>1</sup> Reported by U.S. nonbanking concerns. <sup>2</sup> Not included elsewhere.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, June 1990, and earlier issues.

## No. 1389. U.S. Reserve Assets: 1970 to 1990

[In billions of dollars. As of end of year, except as indicated]

TYPE	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
<b>Total . . . . .</b>	<b>14.5</b>	<b>16.2</b>	<b>26.8</b>	<b>30.1</b>	<b>34.0</b>	<b>33.7</b>	<b>34.9</b>	<b>43.2</b>	<b>48.5</b>	<b>45.8</b>	<b>47.8</b>	<b>74.6</b>	<b>83.3</b>
Gold stock <sup>1</sup> . . . . .	11.1	11.6	11.2	11.2	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
Special drawing rights . . . . .	0.9	2.3	2.6	4.1	5.3	5.0	5.6	7.3	8.4	10.3	9.6	10.0	11.0
Foreign currencies . . . . .	0.6	0.1	10.1	9.8	10.2	6.3	6.7	12.9	17.3	13.1	17.4	44.6	52.2
Reserve position in IMF . . . . .	1.9	2.2	2.9	5.1	7.3	11.3	11.5	11.9	11.7	11.3	9.7	9.0	9.1

<sup>1</sup> Includes gold in Exchange Stabilization Fund; excludes gold held under earmark at Federal Reserve banks for foreign and international accounts. Beginning 1975, gold assets were valued at \$42.22 pursuant to the amending of Section 2 of the Par Value Modification Act, PL-93-110, approved September 21, 1973. <sup>2</sup> International Monetary Fund.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly; and Department of the Treasury, *Treasury Bulletin*, monthly.

### No. 1390. Foreign Direct Investment Position in the U.S.—Value, by Area and Industry: 1980 to 1989

[In millions of dollars. Book value at year end. 1970 covers U.S. firms, including real estate investments in which foreign interest or ownership was 25 percent or more; thereafter, ownership of 10 percent or more. Minus sign (-) indicates a negative position. See also *Historical Statistics, Colonial Times to 1970*, series U 47-74.]

AREA AND INDUSTRY	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989, prel.
<b>All areas <sup>1</sup></b>	<b>83,046</b>	<b>108,714</b>	<b>124,677</b>	<b>137,061</b>	<b>164,583</b>	<b>184,615</b>	<b>220,414</b>	<b>271,788</b>	<b>328,850</b>	<b>400,817</b>
Petroleum	12,200	15,246	17,660	18,209	25,400	28,270	29,094	35,598	34,704	35,089
Manufacturing	32,993	40,533	44,065	47,665	51,802	59,584	71,963	94,745	121,434	160,216
Finance and insurance	12,027	14,748	17,933	10,934	24,881	27,429	34,978	35,675	39,829	53,697
Trade, wholesale and retail	15,210	20,537	23,604	26,513	31,219	35,873	42,920	50,009	64,929	71,350
<b>Canada</b>	<b>12,162</b>	<b>12,116</b>	<b>11,708</b>	<b>11,434</b>	<b>15,266</b>	<b>17,131</b>	<b>20,318</b>	<b>24,013</b>	<b>27,361</b>	<b>31,538</b>
Petroleum	1,817	1,801	1,550	1,391	1,544	1,589	1,432	1,426	1,614	1,679
Manufacturing	5,227	3,376	3,500	3,313	4,115	4,607	6,108	7,636	9,391	11,586
Finance and insurance	1,612	1,808	1,801	1,061	3,245	4,008	4,283	5,426	5,051	5,852
<b>Europe</b>	<b>54,688</b>	<b>72,377</b>	<b>83,193</b>	<b>92,936</b>	<b>108,211</b>	<b>121,413</b>	<b>144,181</b>	<b>186,076</b>	<b>216,418</b>	<b>262,011</b>
Petroleum	10,137	12,854	15,071	16,326	23,142	25,636	26,139	32,957	31,536	30,866
Manufacturing	21,953	30,897	33,032	36,866	39,083	45,841	56,016	73,981	91,932	121,633
Finance and insurance	8,673	10,084	12,601	8,450	15,945	17,022	21,787	25,835	27,328	34,414
United Kingdom	14,105	18,585	28,447	32,152	38,387	43,555	55,935	79,669	101,909	119,137
Petroleum	257	-124	5,444	5,955	10,991	12,155	11,758	(D)	18,779	16,811
Manufacturing	6,159	7,602	8,504	9,221	9,179	11,687	16,500	27,061	37,021	50,704
Finance and insurance	3,350	4,569	5,661	3,777	5,485	6,483	10,163	(D)	11,402	11,792
Netherlands	19,140	26,824	26,191	29,182	33,728	37,056	40,717	49,115	48,991	60,483
Petroleum	9,265	11,547	8,098	8,646	9,981	11,481	(D)	(D)	(D)	10,660
Manufacturing	4,777	9,018	9,901	11,222	12,497	13,351	13,293	16,137	17,153	24,101
Switzerland	5,070	5,474	6,378	7,464	8,146	10,568	12,058	14,886	15,896	19,329
Manufacturing	3,116	3,278	3,584	4,165	4,774	6,881	7,520	7,996	8,072	10,107
Finance and insurance	1,033	1,059	1,473	1,830	(D)	5,425	2,517	(D)	(D)	(D)
West Germany	7,596	9,459	9,850	10,845	12,330	14,816	17,250	20,315	23,845	28,223
Manufacturing	3,875	4,199	4,239	4,487	4,389	6,015	7,426	9,294	13,268	15,232
Finance and insurance	1,248	1,339	1,426	1,416	1,902	(D)	1,962	2,646	1,443	2,437
Other Europe <sup>2</sup>	8,777	12,035	12,327	13,293	15,620	15,417	18,221	22,291	25,777	34,839
Petroleum	991	1,315	1,380	1,679	2,080	(D)	(D)	(D)	(D)	3,040
Manufacturing	4,026	6,800	6,804	7,771	7,704	7,907	11,277	13,493	16,418	21,489
Finance and insurance	1,193	546	429	-908	(D)	(D)	(D)	(D)	(D)	(D)
<b>Japan</b>	<b>4,723</b>	<b>7,697</b>	<b>9,677</b>	<b>11,336</b>	<b>16,044</b>	<b>19,313</b>	<b>26,824</b>	<b>35,151</b>	<b>53,354</b>	<b>69,699</b>
<b>Other areas</b>	<b>11,472</b>	<b>16,524</b>	<b>20,099</b>	<b>21,356</b>	<b>25,043</b>	<b>28,758</b>	<b>29,091</b>	<b>26,547</b>	<b>31,718</b>	<b>37,569</b>

D Withheld to avoid disclosure of data of individual companies. NA Not available. <sup>1</sup> Area totals include industries not shown separately. <sup>2</sup> Direct investments in 1989 (in millions of dollars): Belgium and Luxembourg, 5,470; France, 16,375; Italy, 1,586; and Sweden, 4,925.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, August 1990, and earlier issues.

### No. 1391. U.S. Affiliates of Foreign Companies—Assets, Sales, Employment, Land, Exports, and Imports: 1988

[A U.S. affiliate is a U.S. business enterprise in which one foreign owner (individual, branch, partnership, association, trust, corporation, or government) has a direct or indirect voting interest of 10 percent or more. Universe estimates based on a sample survey of nonbank affiliates with assets, sales, or net income of \$10 million or more.]

INDUSTRY	Total assets (mil. dol.)	Sales <sup>1</sup> (mil. dol.)	Employment <sup>2</sup> (1,000)	Employee compensation (mil. dol.)	GROSS BOOK VALUE (mil. dol.)		Land owned (1,000 acres)	Merchandise exports <sup>4</sup> (mil. dol.)	Merchandise imports <sup>5</sup> (mil. dol.)
					Plant and equip. ment <sup>3</sup>	Land			
<b>Total</b>	<b>1,147,237</b>	<b>853,349</b>	<b>3,682.2</b>	<b>112,370</b>	<b>373,486</b>	<b>32,686</b>	<b>16,877</b>	<b>59,812</b>	<b>149,713</b>
Petroleum	85,388	72,063	133.6	5,539	90,481	2,998	921	1,314	7,284
Manufacturing	281,316	268,575	1,762.7	59,449	148,507	5,588	5,797	20,956	29,345
Chemicals and allied products	80,991	75,962	380.7	15,786	56,997	1,249	745	8,492	6,165
Wholesale trade	111,922	309,681	330.0	11,364	22,966	1,309	627	35,044	109,564
Motor vehicles and auto parts and supplies	32,470	83,735	73.7	2,922	8,118	499	28	4,135	48,641
Farm-product raw materials	6,222	32,436	17.4	485	1,820	74	36	12,219	2,516
Retail trade	39,230	59,801	681.8	9,588	16,984	1,758	516	1,196	2,578
Finance, except banking	335,794	34,595	95.5	7,907	4,202	297	14	(D)	36
Insurance	139,500	49,292	101.8	3,699	3,496	683	14	(D)	(Z)
Real estate	73,643	11,622	34.0	865	42,356	15,375	1,914	(Z)	1
Services	42,201	19,386	328.4	6,425	15,328	1,620	103	193	446
Other	38,244	28,334	214.4	7,534	29,165	3,060	6,971	1,082	460

D Withheld to avoid disclosure of data of individual companies. <sup>2</sup> Less than \$500,000. <sup>3</sup> Excludes returns, discounts, allowances, and sales and excise taxes. <sup>4</sup> Average number of full-time and part-time employees. <sup>5</sup> Includes other property, value of mineral rights owned and capitalized value of mineral rights leased. <sup>6</sup> F.a.s. value at port of exportation. <sup>7</sup> Includes industries not shown separately.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, July 1990, and *Foreign Direct Investment in the United States, Operations of U.S. Affiliates of Foreign Companies*, Preliminary 1988 Estimates.

**No. 1392. Foreign Direct Investment in the U.S.—Gross Book Value of Property, Plant, and Equipment and Employment, 1981 and 1988, and Land Owned and Mineral Rights, 1981 and 1987, by State**

[A U.S. affiliate is a U.S. business enterprise in which one foreign owner (individual, branch, partnership, association, trust corporation, or government) has a direct or indirect voting interest of 10 percent or more. Universe estimates based on a sample survey of nonbank affiliates with assets, sales, or net income of \$10 million or more]

DIVISION, STATE, AND OTHER AREA	GROSS BOOK VALUE OF PROPERTY, PLANT, AND EQUIPMENT (mil. dol.)		EMPLOYMENT (1,000)		LAND OWNED (1,000 acres)		MINERAL RIGHTS OWNED OR LEASED (1,000 acres)	
	1981	1988	1981	1988	1981	1987	1981	1987
<b>Total</b>	<b>187,956</b>	<b>406,172</b>	<b>2,416.6</b>	<b>3,682.2</b>	<b>13,259</b>	<b>13,829</b>	<b>67,193</b>	<b>42,531</b>
<b>U.S.</b>	<b>178,003</b>	<b>385,734</b>	<b>2,402.3</b>	<b>3,662.6</b>	<b>13,256</b>	<b>13,825</b>	<b>61,946</b>	<b>35,677</b>
<b>New England</b>	<b>5,686</b>	<b>12,585</b>	<b>143.9</b>	<b>226.4</b>	<b>(D)</b>	<b>1,839</b>	<b>21</b>	<b>121</b>
Maine	1,637	1,761	17.7	23.2	2,602	1,651	21	59
New Hampshire	409	821	13.9	20.4	(D)	97	-	1
Vermont	315	391	6.0	6.8	61	42	(D)	19
Massachusetts	1,712	5,600	55.6	100.1	(D)	38	(D)	(Z)
Rhode Island	359	522	9.9	11.3	1	34	(Z)	40
Connecticut	1,254	3,491	40.8	64.7	9	7	(Z)	2
<b>Middle Atlantic</b>	<b>20,216</b>	<b>54,208</b>	<b>480.2</b>	<b>742.6</b>	<b>634</b>	<b>812</b>	<b>(D)</b>	<b>1,084</b>
New York	7,892	28,114	210.3	365.8	332	436	188	56
New Jersey	6,552	14,978	134.9	205.4	51	49	(D)	36
Pennsylvania	5,772	11,116	135.0	171.4	251	327	1,317	1,022
<b>East North Central</b>	<b>19,215</b>	<b>52,020</b>	<b>388.6</b>	<b>629.1</b>	<b>521</b>	<b>814</b>	<b>(D)</b>	<b>4,740</b>
Ohio	5,178	15,458	99.9	159.6	164	236	773	769
Indiana	1,883	5,383	47.0	75.2	35	60	(D)	181
Illinois	5,646	19,491	113.6	224.2	192	192	621	510
Michigan	4,188	8,321	65.9	106.0	87	260	1,578	2,899
Wisconsin	2,320	3,367	62.2	64.1	43	66	(D)	381
<b>West North Central</b>	<b>8,400</b>	<b>19,352</b>	<b>112.2</b>	<b>180.6</b>	<b>632</b>	<b>258</b>	<b>11,228</b>	<b>2,397</b>
Minnesota	2,902	4,885	33.0	49.3	295	294	51	49
Iowa	1,032	2,043	21.6	26.5	32	38	(Z)	(Z)
Missouri	1,894	5,206	32.6	59.6	108	70	227	111
North Dakota	1,155	1,189	3.5	3.5	40	34	5,587	901
South Dakota	299	411	1.3	2.7	18	21	583	139
Nebraska	241	515	5.6	11.2	79	67	2,423	271
Kansas	877	5,104	14.6	27.8	60	64	2,357	926
<b>South Atlantic</b>	<b>33,271</b>	<b>61,929</b>	<b>476.0</b>	<b>729.3</b>	<b>2,392</b>	<b>2,376</b>	<b>(D)</b>	<b>2,573</b>
Delaware	1,869	4,674	36.0	40.4	16	11	(Z)	(Z)
Maryland	2,103	3,602	45.1	57.6	43	50	(D)	(Z)
District of Columbia	547	1,777	3.2	8.1	(Z)	(Z)	-	1
Virginia	3,046	7,948	49.8	88.2	145	138	396	163
West Virginia	3,992	4,964	35.4	26.1	181	201	1,644	1,546
North Carolina	5,543	11,164	89.0	150.7	259	188	2	33
South Carolina	5,318	6,869	65.1	81.3	462	186	20	23
Georgia	4,558	10,156	78.5	136.9	773	709	64	70
Florida	6,295	10,775	73.9	140.0	513	893	798	737
<b>East South Central</b>	<b>9,802</b>	<b>18,950</b>	<b>121.7</b>	<b>189.0</b>	<b>1,398</b>	<b>1,231</b>	<b>3,767</b>	<b>1,629</b>
Kentucky	1,848	5,232	26.0	42.6	60	129	766	533
Tennessee	3,747	6,840	57.4	90.4	402	108	934	98
Alabama	2,776	4,432	27.0	37.2	620	625	760	405
Mississippi	1,431	2,446	11.3	18.8	316	369	1,307	593
<b>West South Central</b>	<b>34,651</b>	<b>68,030</b>	<b>268.5</b>	<b>343.1</b>	<b>1,337</b>	<b>1,764</b>	<b>10,681</b>	<b>7,236</b>
Arkansas	636	1,602	17.5	23.0	80	111	553	235
Louisiana	7,872	15,295	47.0	53.1	192	720	1,575	889
Oklahoma	2,760	6,116	25.0	40.0	29	26	1,560	1,516
Texas	23,383	45,017	179.0	227.0	1,036	907	6,993	4,596
<b>Mountain</b>	<b>12,353</b>	<b>21,725</b>	<b>97.9</b>	<b>126.1</b>	<b>1,672</b>	<b>2,100</b>	<b>21,138</b>	<b>11,870</b>
Montana	1,235	1,744	3.0	3.6	332	308	6,132	1,857
Idaho	312	444	3.8	5.6	(D)	34	897	197
Wyoming	2,144	2,967	4.2	3.8	(D)	133	2,983	2,002
Colorado	2,369	4,738	24.7	29.5	509	380	2,649	1,445
New Mexico	997	3,648	7.9	15.5	231	650	1,734	2,841
Arizona	2,949	4,729	30.6	44.9	221	179	501	524
Utah	1,791	1,211	16.8	10.8	309	94	3,462	1,107
Nevada	556	2,244	6.9	12.4	70	322	2,780	1,897
<b>Pacific</b>	<b>34,409</b>	<b>76,935</b>	<b>313.3</b>	<b>496.4</b>	<b>(D)</b>	<b>2,301</b>	<b>7,120</b>	<b>4,027</b>
Washington	2,430	4,120	26.0	46.4	327	389	2,084	2,074
Oregon	845	2,117	13.1	23.5	351	908	750	530
California	20,404	48,270	248.4	388.3	823	926	1,446	762
Alaska	(D)	17,980	8.8	7.7	(D)	21	2,840	660
Hawaii	(D)	4,448	17.0	30.5	111	57	(Z)	1
Puerto Rico	413	619	9.5	12.9	2	1	(Z)	(Z)
Other territories and offshore	7,496	17,179	3.1	4.0	1	2	5,244	6,853
Foreign	2,044	2,640	1.6	2.5	(D)	-	3	-

- Represents zero. D Withheld to avoid disclosure of data of individual companies. Z Less than 500 acres.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, July 1990, and *Foreign Direct Investment in the United States, Operations of U.S. Affiliates of Foreign Companies, Preliminary 1988 Estimates*.

### No. 1393. U.S. Businesses Acquired or Established by Foreign Direct Investors, by Industry of U.S. Business Enterprise: 1988 and 1989

(Foreign direct investment is the ownership or control, directly or indirectly, of 10 percent or more of the ownership interest in an unincorporated one. Data represent number of businesses acquired or established, not the number of investments. Investments may be made by the foreign direct investor itself, or indirectly by an existing U.S. affiliate of the foreign direct investor. Covers investments in U.S. business enterprises with assets of over \$1 million, or ownership of 200 acres of U.S. land.)

INDUSTRY	1988						1989, prel.					
	Investments			Investors			Investments			Investors		
	Total	Acquisition	Establishments	Total	Foreign direct investors	U.S. affiliates	Total	Acquisition	Establishments	Total	Foreign direct investors	U.S. affiliates
<b>NUMBER OF INVESTMENTS<sup>1</sup></b>												
<b>Total</b>	<b>1,424</b>	<b>869</b>	<b>555</b>	<b>1,542</b>	<b>586</b>	<b>976</b>	<b>1,101</b>	<b>645</b>	<b>456</b>	<b>1,240</b>	<b>539</b>	<b>701</b>
Petroleum	49	36	13	53	13	40	33	27	6	33	6	27
Manufacturing	578	478	100	620	194	426	396	319	77	443	176	267
Wholesale trade	85	65	20	90	28	62	79	63	16	83	31	52
Retail trade	37	31	6	37	6	31	36	26	10	38	13	25
Banking	16	6	10	16	11	5	10	3	7	10	9	1
Finance, except banking	35	11	24	38	19	19	50	18	32	67	47	20
Insurance	21	16	5	21	5	16	13	12	1	14	2	12
Real estate	348	41	307	394	186	208	270	44	226	309	145	164
Services	158	120	38	170	68	102	140	95	45	163	78	85
Other <sup>2</sup>	97	65	32	103	36	67	74	38	36	80	32	48
<b>INVESTMENT OUTLAYS (mil. dol.)</b>												
<b>Total</b>	<b>72,692</b>	<b>64,855</b>	<b>7,837</b>	<b>72,692</b>	<b>18,569</b>	<b>54,123</b>	<b>64,565</b>	<b>55,822</b>	<b>8,743</b>	<b>64,565</b>	<b>20,429</b>	<b>44,136</b>
Petroleum	4,740	4,131	609	4,740	227	4,514	1,069	1,016	54	1,069	129	940
Manufacturing	36,136	33,686	2,450	36,136	12,295	23,841	28,323	25,799	2,523	28,323	11,551	16,772
Wholesale trade	2,454	2,324	130	2,454	146	2,308	2,366	2,307	59	2,366	1,723	642
Retail trade	8,022	7,689	334	8,022	357	7,665	7,274	7,255	18	7,274	252	7,021
Banking	1,800	1,787	13	1,800	453	1,347	436	382	54	436	164	271
Finance, except banking	972	470	502	972	437	536	3,422	2,421	1,001	3,422	2,153	1,269
Insurance	5,855	5,847	7	5,855	335	5,520	1,751	1,750	1	1,751	28	1,723
Real estate	3,518	758	2,760	3,518	1,401	2,117	4,653	1,226	3,427	4,653	1,722	2,931
Services	5,597	4,759	838	5,597	1,917	3,681	9,008	7,549	1,459	9,008	2,525	6,483
Other <sup>2</sup>	3,597	3,402	195	3,597	1,001	2,596	6,263	6,117	146	6,263	179	6,084

<sup>1</sup> Excludes investments that do not meet asset or acreage criteria in headnote. <sup>2</sup> Includes agriculture, forestry, and fishing; mining; construction; transportation; and communication and public utilities.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, May 1990.

### No. 1394. U.S. Businesses Acquired by Foreign Direct Investors Assets, Sales, and Employment, by Industry of U.S. Business Enterprise: 1988 and 1989

[See headnote, table 1393. Minus sign (-) indicates loss]

INDUSTRY	1988					1989				
	Total assets (mil. dol.)	Sales (mil. dol.)	Net income (mil. dol.)	Employment (1,000)	Acres of land owned (1,000)	Total assets (mil. dol.)	Sales (mil. dol.)	Net income (mil. dol.)	Employment (1,000)	Acres of land owned (1,000)
<b>Total</b>	<b>123,553</b>	<b>87,058</b>	<b>2,932</b>	<b>696.0</b>	<b>4,021.7</b>	<b>95,416</b>	<b>69,689</b>	<b>272</b>	<b>679.1</b>	<b>310.6</b>
Petroleum	6,789	9,519	429	16.2	51.8	3,084	1,996	-89	6.8	1.9
Manufacturing	40,178	34,762	695	295	129	31,476	32,059	175	258.4	273.2
Wholesale trade	3,360	5,656	84	22	12	1,682	3,830	64	19.3	0.7
Retail trade	9,298	14,783	277	172	4	8,499	13,020	104	271.4	8.3
Banking	11,742	1,077	110	8	(D)	5,574	498	63	3.4	(D)
Finance, except banking	(D)	266	1	1	(D)	20,615	2,308	179	6.4	4.2
Insurance	(D)	6,770	610	30	2	7,019	3,333	31	7.8	(D)
Real estate	804	164	9	1	6	1,352	184	-9	0.3	1.6
Services	8,344	4,527	247	79	11	7,670	4,647	21	57.0	2.2
Other <sup>1</sup>	17,321	9,536	470	74	3,806	8,445	7,714	-142	48.4	18.4

- Represents zero. D Withheld to avoid disclosure of data of individual companies. Z Less than \$500,000. <sup>1</sup> Includes agriculture, forestry, and fishing; mining; construction; transportation; and communication and public utilities.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, May 1990.



## No. 1395. U.S. Investment Position Abroad, by Country: 1980 to 1989

In millions of dollars. Direct investments represent private enterprises in one country owned or controlled by investors in another country or in the management of which foreign investors have an important role. Negative position occurs when U.S. parent company's liabilities to the foreign affiliate are greater than its equity in, and loans to the foreign affiliate. See also *Historical Statistics, Colonial Times to 1970*, series U 41-46]

COUNTRY	1980	1985	1986	1987	1988	1989			
						Total <sup>1</sup>	Manu- facturing	Petro- leum	Finance <sup>2</sup>
<b>All countries</b> .....	<b>215,375</b>	<b>230,250</b>	<b>259,800</b>	<b>314,307</b>	<b>333,501</b>	<b>373,436</b>	<b>155,704</b>	<b>57,945</b>	<b>77,112</b>
<b>Developed countries</b> .....	<b>158,214</b>	<b>172,058</b>	<b>194,280</b>	<b>237,508</b>	<b>252,757</b>	<b>279,310</b>	<b>126,468</b>	<b>39,986</b>	<b>53,994</b>
Canada .....	45,119	46,909	50,629	57,783	62,610	66,856	32,333	10,912	11,680
Europe <sup>3</sup> .....	96,287	105,171	120,724	150,439	156,932	176,736	77,846	22,365	38,944
Austria .....	524	493	715	691	688	688	75	172	29
Belgium .....	6,259	5,038	5,006	7,267	7,448	8,290	4,407	502	796
Denmark .....	1,266	1,281	1,085	1,070	1,163	1,246	288	(D)	226
France .....	9,347	7,643	8,952	11,868	13,150	14,747	9,490	1,050	872
Greece .....	347	210	87	132	195	265	91	(D)	(D)
Ireland .....	2,319	3,693	4,308	5,425	6,212	6,237	5,082	-28	1,160
Italy .....	5,397	5,906	7,426	9,264	9,540	10,634	6,830	574	1,055
Luxembourg .....	652	690	802	660	850	904	543	5	97
Netherlands .....	8,039	7,129	11,643	14,842	16,017	17,168	7,541	1,907	3,798
Norway .....	1,679	3,215	3,216	3,843	4,371	3,640	66	3,007	157
Portugal .....	257	237	288	495	546	612	230	50	(D)
Spain .....	2,678	2,281	2,707	4,076	4,979	6,002	3,865	98	28
Sweden .....	1,474	933	918	1,139	1,119	1,102	740	(D)	61
Switzerland .....	11,280	15,766	16,441	19,665	18,357	19,952	1,757	(D)	7,264
Turkey .....	207	234	215	207	246	312	99	99	-
United Kingdom .....	28,460	33,024	35,389	44,512	49,274	60,810	22,097	10,063	20,599
West Germany .....	15,415	16,764	20,932	24,388	21,742	23,059	14,430	2,600	2,515
Japan .....	6,225	9,235	11,472	15,684	17,927	19,341	9,959	3,194	1,981
Australia .....	7,654	8,772	9,340	11,363	13,186	14,495	5,771	3,009	1,115
New Zealand .....	579	576	598	743	833	1,167	379	(D)	199
South Africa .....	2,350	1,394	1,517	1,497	1,269	714	181	(D)	75
<b>Developing countries</b> .....	<b>53,206</b>	<b>52,764</b>	<b>61,072</b>	<b>73,017</b>	<b>77,560</b>	<b>90,552</b>	<b>29,235</b>	<b>15,179</b>	<b>23,118</b>
Latin America .....	38,761	28,261	36,851	47,551	51,041	61,364	21,285	5,057	19,856
South America <sup>3</sup> .....	16,342	17,623	19,813	21,227	21,690	23,557	14,427	2,185	1,905
Argentina .....	2,540	2,705	2,913	2,744	2,597	2,624	1,316	489	177
Brazil .....	7,704	8,893	9,268	10,951	12,460	14,687	11,023	506	1,361
Chile .....	536	88	265	348	691	1,081	170	51	282
Colombia .....	1,012	2,148	3,291	3,104	2,248	1,900	626	306	(D)
Ecuador .....	322	361	413	466	431	395	168	125	(D)
Peru .....	1,665	1,243	1,103	1,022	986	912	67	320	(D)
Venezuela .....	1,908	1,588	1,987	2,095	1,897	1,537	964	274	24
Central America .....	10,193	9,658	10,698	12,218	13,119	15,880	6,600	1,691	4,562
Mexico .....	5,986	5,088	4,623	4,913	5,694	7,079	5,837	68	130
Panama .....	3,170	3,959	5,525	6,622	6,632	7,906	318	1,425	4,410
Other <sup>3</sup> .....	1,037	611	549	683	793	895	445	198	23
Costa Rica .....	303	113	113	141	169	163	143	1	5
El Salvador .....	105	73	50	51	56	62	21	(D)	1
Guatemala .....	229	213	181	174	200	221	110	45	19
Honduras .....	288	171	167	185	240	318	121	(D)	(Z)
Other W. Hemisphere <sup>3</sup> .....	12,226	980	6,341	14,106	16,232	21,928	258	1,181	13,389
Bahamas, The .....	2,712	3,795	2,991	3,814	4,010	4,463	50	502	929
Bermuda .....	11,045	13,116	15,373	19,215	19,040	17,849	-	-169	17,368
Dominican Republic .....	316	212	199	156	138	162	59	(D)	-3
Jamaica .....	407	122	106	103	134	167	55	(D)	9
Netherlands Antilles .....	-4,336	-20,499	-16,969	14,235	-11,633	-6,286	28	57	-6,600
Trinidad and Tobago .....	951	484	424	400	447	530	11	(D)	4
Other Africa <sup>3</sup> .....	3,778	4,497	3,999	4,372	4,199	4,310	452	3,095	-375
Egypt .....	1,038	1,926	1,807	1,669	1,670	1,802	57	1,447	-3
Libya .....	575	325	241	310	315	311	-	295	-
Nigeria .....	18	44	781	894	660	461	53	388	-
Middle East <sup>3</sup> .....	2,163	4,606	4,891	4,084	3,806	3,886	775	1,737	818
Israel .....	379	717	427	635	700	770	304	48	116
Saudi Arabia .....	1,037	2,442	2,460	2,092	1,782	1,812	432	288	644
United Arab Emirates .....	384	792	840	694	672	674	23	544	(D)
Bahrain .....	-16	440	320	-340	-311	176	-	-11	1
Other Asia and Pacific .....	8,505	15,400	15,332	17,010	18,515	20,991	6,723	5,290	2,069
China: Taiwan .....	498	750	869	1,372	1,622	1,949	1,402	-11	31
Hong Kong .....	2,078	3,295	3,912	4,389	5,244	5,853	798	178	1,692
India .....	398	383	421	439	436	549	458	7	1
Indonesia .....	1,314	4,475	3,217	3,070	2,925	3,696	106	3,231	51
Malaysia .....	632	1,140	1,021	952	1,135	1,098	624	343	42
Philippines .....	1,259	1,032	1,299	1,396	1,511	1,682	781	132	156
Singapore .....	1,204	1,674	2,256	2,384	2,290	2,213	1,226	518	31
South Korea .....	575	743	782	1,178	1,501	1,889	859	9	57
Thailand .....	361	1,074	1,078	1,274	1,132	1,279	358	645	(D)
Other .....	186	635	476	556	719	782	110	237	(D)
China: Mainland .....	6	311	167	207	307	370	63	104	-
<b>International</b> .....	<b>3,955</b>	<b>5,428</b>	<b>4,448</b>	<b>3,782</b>	<b>3,184</b>	<b>3,574</b>	<b>2,780</b>	<b>2,780</b>	<b>807</b>
<b>Addendum-OPEC<sup>4</sup></b> .....	<b>6,090</b>	<b>10,383</b>	<b>10,235</b>	<b>9,899</b>	<b>8,825</b>	<b>8,977</b>	<b>1,747</b>	<b>5,264</b>	<b>807</b>

- Represents zero. Z Less than \$500,000. D Suppressed to avoid disclosure of data of individual companies. <sup>1</sup> Includes industries not shown separately. <sup>2</sup> Includes insurance. <sup>3</sup> Includes countries not shown separately. <sup>4</sup> OPEC=Organization of Petroleum Exporting Countries. Includes Algeria, Ecuador, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, August 1990.

## No. 1396. U.S. Government Foreign Grants and Credits: 1946 to 1989

(In millions of dollars. "P.L." means Public Law. For explanation of minus sign (-), see headnote, table 1397. See also text, section 29, and *Historical Statistics, Colonial Times to 1970*, series U 75-101)

PROGRAM	1946- 1955, total	1956- 1965, total	1966- 1975, total	1976- 1985, total	1985	1986	1987	1988	1989, prel.
<b>Total, net.</b>	<b>51,509</b>	<b>49,723</b>	<b>70,367</b>	<b>104,189</b>	<b>14,322</b>	<b>15,024</b>	<b>9,400</b>	<b>8,313</b>	<b>10,232</b>
Investment in international financial institutions <sup>1</sup>	635	655	2,719	10,432	1,302	1,481	1,212	1,314	1,173
<b>Under assistance programs, net.</b>	<b>50,875</b>	<b>49,067</b>	<b>67,647</b>	<b>93,757</b>	<b>13,020</b>	<b>13,543</b>	<b>8,189</b>	<b>6,999</b>	<b>9,059</b>
Developed countries <sup>2</sup>	35,150	5,834	616	757	-529	815	-801	-135	64
Developing countries <sup>2</sup>	15,725	43,233	67,032	93,000	13,549	12,728	8,990	7,134	8,995
Net new military grants	14,200	21,564	30,236	14,957	3,130	4,125	3,131	3,576	3,730
Developed countries <sup>2</sup>	8,910	7,931	691	1,369	123	162	261	305	321
Developing countries <sup>2</sup>	5,291	13,633	29,545	13,587	3,007	3,963	2,870	3,272	3,409
Gross new grants	14,434	21,805	30,281	14,993	3,133	4,128	3,136	3,579	3,733
Foreign Assistance Act <sup>3</sup>	13,427	21,769	30,281	14,993	3,133	4,128	3,136	3,579	3,733
Military supplies and services	12,282	20,662	9,802	2,438	48	99	57	92	45
Military assistance, service funded <sup>4</sup>	-	8	18,161	-	-	-	-	-	-
Financing of military purchases <sup>5</sup>	-	-	1,584	10,122	2,964	3,873	2,816	3,185	3,369
Relocation of facilities in Israel	-	-	-	800	-	-	-	-	-
Other special programs	1,145	1,100	734	1,633	121	157	263	301	319
Other	1,007	36	-	-	-	-	-	-	-
<i>Less: Reverse grants and returns</i>	<i>234</i>	<i>241</i>	<i>45</i>	<i>36</i>	<i>3</i>	<i>3</i>	<i>5</i>	<i>2</i>	<i>3</i>
Other grants, credits, and other assistance (through net accumulation of foreign currency claims)	36,675	27,503	37,412	78,800	9,890	9,418	5,058	3,423	5,329
Developed countries <sup>2</sup>	26,240	-2,097	75	-612	-652	653	-1,062	-440	-257
Developing countries <sup>2</sup>	10,434	29,600	37,487	79,413	10,542	8,765	6,120	3,862	5,586
Net new economic and technical aid grants <sup>6</sup>	27,529	17,675	21,748	43,302	8,258	7,898	7,408	7,469	7,552
Developed countries <sup>2</sup>	19,424	780	182	464	84	98	67	72	44
Developing countries <sup>2</sup>	8,104	16,896	21,929	42,839	8,174	7,801	7,341	7,397	7,507
Gross new grants	28,769	17,993	22,003	43,311	8,258	7,950	7,408	7,469	7,552
Foreign Assistance Act <sup>3</sup>	17,711	12,189	12,191	31,525	6,505	6,439	5,886	5,736	5,870
Farm products disposals:	-	-	-	-	-	-	-	-	-
Foreign currencies, P.L. 83-480 <sup>7</sup>	-	2,048	4,234	186	6	3	6	1	1
Famine and other urgent relief	530	2,704	2,862	5,026	874	568	686	766	767
Payment of transportation	-	494	946	1,890	331	265	211	212	240
Food for development loan forgiveness	-	-	-	353	11	53	37	133	7
Supplies to military or trusteeship administration areas	5,528	132	536	1,246	153	217	173	202	155
Peace Corps	-	232	912	979	121	130	126	151	151
Other	5,000	194	321	2,106	257	275	284	269	360
<i>Less: Reverse grants and returns</i>	<i>1,240</i>	<i>318</i>	<i>255</i>	<i>9</i>	<i>-</i>	<i>52</i>	<i>-</i>	<i>-</i>	<i>-</i>
Net new credits <sup>8</sup>	8,605	7,025	16,954	35,785	1,623	1,514	-2,323	-4,010	-2,220
Developed countries <sup>2</sup>	6,627	-3,207	310	-1,019	-730	557	-1,091	-485	-285
Developing countries <sup>2</sup>	1,978	10,232	16,644	36,805	2,353	957	-1,233	-3,525	-1,935
New credits	11,958	15,429	37,422	72,195	5,914	7,163	4,853	5,909	3,893
Export-Import Bank Act	4,241	5,257	15,505	22,096	1,794	1,258	998	1,057	758
Foreign Assistance Act <sup>3</sup>	1,919	6,196	12,053	35,324	2,759	2,932	2,529	3,476	1,544
Country program loans	1,765	5,722	8,362	10,733	671	595	347	455	351
Financing of military purchases	9	247	3,089	24,288	2,090	2,307	2,169	2,992	1,159
Social Progress Trust Fund	-	226	487	142	-16	-5	-9	-4	-1
Other	145	2	116	162	13	35	22	34	36
P.L. 83-480 <sup>7</sup>	48	3,839	7,161	8,142	1,055	991	826	959	793
Loans of foreign currency:	-	-	-	-	-	-	-	-	-
To foreign governments	48	3,285	1,843	10	(Z)	-	2	(Z)	(Z)
To private enterprises	-	202	217	16	-	2	3	11	9
Long-term credit sales	-	352	5,101	8,116	1,055	988	821	947	785
P.L. 80-806 <sup>9</sup>	-	-	2,433	5,559	300	1,982	500	418	797
Other	5,750	137	271	1,074	6	-	-	-	-
<i>Less: Principal collections</i>	<i>3,353</i>	<i>8,404</i>	<i>20,469</i>	<i>36,410</i>	<i>4,290</i>	<i>5,648</i>	<i>7,176</i>	<i>9,919</i>	<i>6,113</i>
Export-Import Bank Act	1,787	4,458	9,282	15,222	2,488	2,915	4,293	1,501	1,395
Foreign Assistance Act <sup>3</sup>	38	1,263	3,557	11,234	1,238	1,674	2,336	7,718	3,699
Country program loans	1	944	2,481	4,212	460	537	470	489	584
Financing of military purchases	2	222	852	6,492	735	1,095	1,835	7,197	3,083
Social Progress Trust Fund	-	9	198	354	24	17	16	15	11
Other	35	88	25	177	18	25	14	18	21
P.L. 83-480 <sup>7</sup>	-	180	3,753	2,923	289	368	275	468	355
Loans of foreign currency:	-	-	-	-	-	-	-	-	-
To foreign governments	-	111	2,354	551	39	37	29	24	27
To private enterprises	-	43	175	96	2	3	1	1	2
Long-term credit sales	-	27	1,223	2,276	248	327	245	444	327
Lend-lease, surplus property, and grant settlements	675	2,001	1,438	386	18	20	16	16	16
P.L. 80-806 <sup>9</sup>	-	-	1,763	4,748	158	569	152	110	545
Other	853	501	677	1,897	100	101	105	106	103

See footnotes at end of table.

## No. 1396. U.S. Government Foreign Grants and Credits: 1946 to 1989—Continued

[In millions of dollars. See headnote, p. 798]

PROGRAM	1946-1955, total	1956-1965, total	1966-1975, total	1976-1985, total	1985	1986	1987	1988	1989, prel.
Other assistance (through net accumulation of foreign currency claims) <sup>10</sup>	541	2,802	-1,290	-287	9	5	-27	-36	-2
Developed countries <sup>3</sup>	190	330	-203	-56	-7	-3	-38	-26	-17
Developing countries <sup>2</sup>	351	2,472	-1,086	-231	15	8	11	-10	14
Currency claims acquired	813	11,498	6,888	1,227	97	134	84	82	66
Sales of farm products	813	11,170	3,013	114	10	49	41	35	25
Second-stage operations <sup>11</sup>	-	329	3,875	1,113	87	85	43	46	42
Less: Currencies disbursed	272	8,696	8,177	1,514	89	129	111	118	68
Economic grants and credits to purchasing country	182	6,863	6,238	180	2	10	15	16	10
Other uses	90	1,833	1,940	1,334	86	119	96	101	58

- Represents zero. Z Less than \$500,000. <sup>1</sup> For details, see table 1397. <sup>2</sup> Developed countries include Australia, Canada, Japan, New Zealand, South Africa, all countries listed under "Western Europe" in table 1397, except Portugal, Spain (through 1981), Yugoslavia, and Malta, and all countries listed under "Eastern Europe" in table 1397. Developing countries include all other countries listed in table 1397 (including Spain through 1981). <sup>3</sup> Foreign Assistance Act of 1961 (P.L. 87-195), as amended. Also includes predecessor and related programs. <sup>4</sup> Includes military assistance under Dept. of Defense Appropriation Act, 1966 (P.L. 89-394) and later acts. <sup>5</sup> Includes funds made available under Public Law 93-199 and subsequent legislation to release Israel from its contractual liability to pay for defense articles and services purchased under other legislation. <sup>6</sup> Net new grants are not adjusted for settlements for postwar relief and other grants under agreements, and net new credits exclude prior grants converted into credits, which were as follows: 1946-55, \$1,463 million; 1956-65, \$491 million; 1972, \$994 million. Repayments on these settlements are included in net new credits. <sup>7</sup> Agricultural Trade Development and Assistance Act. <sup>8</sup> Outstanding credits on Dec. 31, 1989, totaled \$63,706 million representing net credits extended since organization of Export-Import Bank, Feb. 12, 1934, less chargeoffs and net adjustments due to exchange rates (\$2,038 million), and excluding World War I debts. The amount repayable in dollars at U.S. Government option was \$62,037 million; the remainder was repayable in foreign currencies, commodities, or services, at the option of the borrowers. <sup>9</sup> Commodity Credit Corporation Charter Act. <sup>10</sup> Equivalent value of currencies still available to be used, including some funds advanced from foreign governments and after loss by exchange rate fluctuation (\$1,587 million), was \$81 million on Dec. 31, 1989. <sup>11</sup> Includes foreign currencies acquired from triangular trade operations and principal and interest collections on credits, originally extended under P.L. 83-480, which—since enactment of P.L. 87-128—are available for the same purposes as P.L. 83-480 currencies.

Source: U.S. Bureau of Economic Analysis, press releases, and unpublished data.

## No. 1397. U.S. Government Foreign Grants and Credits, by Type and Country: 1946 to 1989

[In millions of dollars. See text, section 29. Negative figures (-) occur when the total of grant returns, principal repayments, and/or foreign currencies disbursed by the U.S. Government exceeds new grants and new credits utilized and/or acquisitions of foreign currencies through new sales of farm products. See also *Historical Statistics, Colonial Times to 1970*, series U 75-186]

TYPE AND COUNTRY	1946-1955, total	1956-1965, total	1966-1975, total	1976-1985, total	1985	1986	1987	1988	1989, prel.
<b>Total, net</b>	<b>51,509</b>	<b>49,723</b>	<b>70,367</b>	<b>104,189</b>	<b>14,322</b>	<b>15,024</b>	<b>9,400</b>	<b>8,313</b>	<b>10,232</b>
<b>Investment in financial institutions</b>	<b>635</b>	<b>655</b>	<b>2,719</b>	<b>10,432</b>	<b>1,302</b>	<b>1,481</b>	<b>1,212</b>	<b>1,314</b>	<b>1,173</b>
African Development Bank	-	-	-	54	18	15	20	9	7
African Development Fund	-	-	-	125	20	53	45	40	34
Asian Development Bank	-	-	110	602	135	110	95	111	160
Inter-American Development Bank	-	300	1,321	2,770	321	351	189	124	97
International Bank for Reconstruction and Development	635	-	13	353	41	241	232	95	23
International Development Association	-	320	1,275	6,417	768	658	546	826	852
International Finance Corporation	-	35	-	111	-	28	7	25	-
<b>Under assistance programs</b>	<b>50,875</b>	<b>49,067</b>	<b>67,647</b>	<b>93,757</b>	<b>13,020</b>	<b>13,543</b>	<b>8,189</b>	<b>6,999</b>	<b>9,059</b>
Developed Countries	35,150	5,834	616	757	-529	815	-801	-135	64
Developing Countries	15,725	43,233	67,032	93,000	13,549	12,728	8,990	7,134	8,995
<b>Western Europe</b>	<b>33,067</b>	<b>6,752</b>	<b>1,004</b>	<b>1,626</b>	<b>-203</b>	<b>9</b>	<b>-167</b>	<b>118</b>	<b>-245</b>
Austria	1,001	193	-19	34	10	-9	-9	-9	-11
Belgium and Luxembourg	1,570	305	17	-46	-15	-9	-9	-9	-9
Denmark	596	276	64	-58	30	-7	-6	-	-
Finland	86	-26	-19	21	-2	-47	8	6	7
France	8,661	-171	-93	-222	-47	-26	-13	-14	-14
Germany	3881	10	-117	-117	-2	-	-3	-	-
Iceland	34	33	-8	-12	-1	-2	-2	-4	(Z)
Ireland	146	-16	-51	7	(Z)	2	-2	-6	-7
Italy	3,851	1,435	85	133	-84	-107	21	-28	-28
Malta	1	3	47	34	(Z)	(Z)	(Z)	(Z)	(Z)
Netherlands	1,716	322	116	-180	-9	-1	-1	-	-
Norway	697	362	379	-257	-31	-16	-4	-	-
Portugal	248	241	34	1,003	101	178	8	66	71
Spain	258	1,203	607	965	-85	66	-11	-113	-474
Sweden	107	-20	17	-1	-6	-6	-5	3	-2
United Kingdom	7,458	105	-546	-964	-121	-202	347	105	109
Yugoslavia	1,356	1,151	84	174	18	-21	-41	-2	11
Other <sup>1</sup> and unspecified	1,398	1,348	407	1,112	102	200	290	338	320

See footnotes at end of table.

**No. 1397. U.S. Government Foreign Grants and Credits, by Type and Country:  
1946 to 1989—Continued**

(In millions of dollars. See headnote, p. 799)

COUNTRY	1946- 1955, total	1956- 1965, total	1966- 1975, total	1976- 1985, total	1985	1986	1987	1988	1989, prel.
<b>Eastern Europe</b> .....	<b>823</b>	<b>501</b>	<b>226</b>	<b>1,029</b>	<b>15</b>	<b>1,249</b>	<b>-161</b>	<b>-125</b>	<b>414</b>
Czechoslovakia .....	136	-	-	-5	-	-	-	-	-
Poland .....	350	555	75	1,017	45	1,348	-44	-57	519
Romania .....	-	-	92	55	35	-26	-50	-1	-59
Soviet Union .....	292	-59	214	44	-68	-66	-66	-66	-46
Other and unspecified .....	45	5	-5	6	3	-6	-	-	-
<b>Near East and South Asia</b> .....	<b>4,944</b>	<b>16,828</b>	<b>17,195</b>	<b>50,793</b>	<b>7,436</b>	<b>7,926</b>	<b>6,273</b>	<b>2,124</b>	<b>4,371</b>
Afghanistan .....	31	227	185	56	-21	-3	29	30	63
Bangladesh .....	-	-	701	1,670	175	178	150	170	138
Cyprus .....	-	19	20	138	17	21	17	14	19
Egypt .....	41	1,009	271	13,600	2,231	2,729	1,614	3,490	2,085
Greece .....	2,026	1,281	905	362	-21	72	304	488	306
India .....	370	4,890	3,810	1,021	42	36	64	138	44
Iran .....	314	1,061	914	847	-	-	-	-19	-
Iraq .....	13	81	-5	5	-12	-5	21	29	-16
Israel .....	390	483	3,760	25,417	3,807	4,030	3,115	-1,826	1902
Jordan .....	26	495	618	1,320	-1	7	109	-231	150
Lebanon .....	15	78	90	233	34	-12	-4	-7	-3
Nepal .....	3	86	105	177	26	20	22	19	14
Oman .....	-	-	(Z)	79	-4	12	-33	9	8
Pakistan .....	189	3,092	2,048	1,971	481	347	235	386	-398
Saudi Arabia .....	12	35	23	-20	-2	-1	-	-	-
Sri Lanka .....	(Z)	89	153	512	90	65	40	43	40
Syria .....	1	57	15	262	(Z)	(Z)	(Z)	(Z)	-
Turkey .....	1,295	3,020	2,703	3,760	479	298	449	-720	-91
Yemen (Sanaa) .....	-	40	24	216	41	39	47	33	42
UNRWA .....	131	274	296	596	75	67	61	54	39
Other and unspecified .....	85	510	559	264	-3	27	34	26	28
<b>Africa</b> .....	<b>147</b>	<b>2,272</b>	<b>3,610</b>	<b>11,074</b>	<b>2,004</b>	<b>1,300</b>	<b>1,104</b>	<b>1,258</b>	<b>835</b>
Algeria .....	1	135	263	345	131	-128	-98	-58	77
Angola .....	-	-	6	115	38	27	24	2	-13
Benin .....	-	7	12	44	5	3	3	5	6
Botswana .....	-	(Z)	35	169	29	20	27	20	15
Burkina Faso .....	-	5	40	287	49	30	24	18	13
Burundi .....	-	4	5	62	9	5	5	5	3
Cameroon .....	-	16	50	150	5	11	13	24	18
Cape Verde .....	-	-	1	68	5	9	7	6	3
Chad .....	(Z)	5	20	145	41	25	35	38	15
Ethiopia .....	13	200	297	310	157	88	13	71	18
Ghana .....	(Z)	64	203	152	18	13	9	17	26
Guinea .....	-	58	68	74	11	16	24	19	4
Ivory Coast .....	-	14	57	57	12	5	-3	27	1
Kenya .....	(Z)	34	76	549	82	39	46	47	53
Lesotho .....	-	(Z)	27	197	23	23	24	23	18
Liberia .....	24	139	86	459	71	52	23	27	13
Libya .....	25	192	6	-	-	-	-	-	-
Madagascar .....	(Z)	7	13	86	24	21	17	19	6
Malawi .....	-	5	30	56	8	11	19	34	36
Mali .....	-	12	58	199	51	45	34	50	23
Mauritania .....	-	1	20	161	38	19	12	11	11
Morocco .....	7	464	413	948	138	177	85	185	17
Mozambique .....	-	-	1	175	51	34	69	56	32
Niger .....	-	5	64	223	93	39	43	25	34
Nigeria .....	(Z)	87	284	267	151	1	1	169	36
Rwanda .....	-	2	13	91	16	24	16	16	9
Senegal .....	-	18	48	361	51	45	49	45	44
Sierra Leone .....	(Z)	22	36	85	11	12	12	8	10

See footnotes at end of table.

**No. 1397. U.S. Government Foreign Grants and Credits, by Type and Country:  
1946 to 1989--Continued**

[In millions of dollars. See headnote, p. 799]

COUNTRY	1946- 1955, total	1956- 1965, total	1966- 1975, total	1976- 1985, total	1985	1986	1987	1988	1989, prel.
<b>Africa--Continued</b>									
Somalia . . . . .	(Z)	42	47	582	117	111	68	62	32
Sudan . . . . .	-	86	52	1,358	443	164	101	110	108
Swaziland . . . . .	-	(Z)	8	58	8	9	15	12	11
Tanzania . . . . .	2	34	123	259	21	10	29	16	11
Togo . . . . .	-	9	18	60	9	10	13	9	15
Tunisia . . . . .	2	407	376	563	40	7	-7	175	52
Uganda . . . . .	-	12	33	40	5	4	17	21	20
Zaire . . . . .	(Z)	258	342	938	66	104	112	141	57
Zambia . . . . .	-	1	35	331	51	77	36	18	21
Zimbabwe . . . . .	-	(Z)	(Z)	271	54	22	33	6	12
Other and unspecified . . . . .	71	-75	343	781	130	117	153	132	157
<b>Far East and Pacific</b>	<b>9,678</b>	<b>16,199</b>	<b>34,778</b>	<b>9,635</b>	<b>220</b>	<b>-64</b>	<b>-2,614</b>	<b>308</b>	<b>375</b>
Australia . . . . .	-9	(Z)	276	12	-39	-118	-30	-26	-18
Burma . . . . .	25	134	43	31	7	7	10	9	1
Cambodia . . . . .	28	327	1,771	-	-	-	-	-	-
China: Mainland . . . . .	-	-	-	49	6	-8	9	48	35
Taiwan . . . . .	1,267	2,681	1,523	648	-255	-262	-970	-8	-7
Hong Kong . . . . .	3	35	41	11	-14	-11	-8	-8	-8
Indonesia . . . . .	246	501	1,388	1,661	37	13	-12	-3	35
Japan and Ryukyu Islands . . . . .	3,267	1,318	-345	-210	-87	-88	-319	-4	-1
Laos . . . . .	37	647	1,868	-	-	-	-	-	-
Malaysia . . . . .	1	30	86	39	-11	-15	-12	-9	-36
New Zealand . . . . .	3	2	95	-68	-11	10	-4	-4	4
Pacific Islands, Trust Territory of the . . . . .	28	89	488	1,260	154	219	166	138	156
Philippines . . . . .	1,028	554	729	1,466	334	449	331	421	305
Singapore . . . . .	-	(Z)	78	110	-53	-184	1	1	1
South Korea . . . . .	1,420	4,744	5,426	3,518	58	-146	-1,717	-383	-132
Thailand . . . . .	192	727	996	733	68	62	-77	72	12
Vietnam . . . . .	244	3,566	19,721	-	-	-	-	-	-
Other and unspecified . . . . .	1,898	844	595	400	26	27	18	65	36
<b>Western Hemisphere</b>	<b>1,248</b>	<b>5,181</b>	<b>6,816</b>	<b>9,881</b>	<b>2,142</b>	<b>1,822</b>	<b>2,106</b>	<b>1,452</b>	<b>1,043</b>
Argentina . . . . .	86	342	34	21	14	85	27	16	-6
Bahamas, The . . . . .	(Z)	(Z)	29	-25	(Z)	1	(Z)	-2	-2
Bermuda . . . . .	-	-	18	-18	-	-	-	-	-
Bolivia . . . . .	77	288	270	414	71	111	124	82	113
Brazil . . . . .	509	1,400	1,518	399	368	7	33	(Z)	-202
Canada . . . . .	-1	4	272	317	87	-61	-158	-50	-30
Chile . . . . .	100	740	724	-565	-7	56	26	11	-46
Colombia . . . . .	43	446	846	298	93	63	22	23	-36
Costa Rica . . . . .	15	83	103	687	213	139	159	107	143
Dominican Republic . . . . .	2	184	360	550	154	230	78	52	51
Ecuador . . . . .	32	131	144	153	50	66	60	47	22
El Salvador . . . . .	3	56	93	1,681	448	376	418	405	404
Guatemala . . . . .	23	146	160	270	52	91	159	141	161
Guyana . . . . .	(Z)	7	71	36	(Z)	2	8	5	8
Haiti . . . . .	27	75	42	370	56	87	94	41	65
Honduras . . . . .	6	53	113	801	243	224	212	194	133
Jamaica . . . . .	16	3	120	643	151	121	92	95	124
Mexico . . . . .	225	178	305	1,162	-40	-29	551	59	-121
Nicaragua . . . . .	8	67	150	197	-2	(Z)	(Z)	(Z)	(Z)
Panama . . . . .	10	103	210	205	43	24	10	13	8
Paraguay . . . . .	4	67	86	22	1	(Z)	(Z)	(Z)	1
Peru . . . . .	55	304	274	757	181	98	73	67	31
Trinidad and Tobago . . . . .	-	35	21	151	21	-32	-33	-11	16
Uruguay . . . . .	8	90	116	-9	-4	11	-3	9	-6
Venezuela . . . . .	6	156	115	-35	-30	-31	-38	28	-21
Central American Bank for Economic Integration . . . . .	-	6	121	36	-4	-5	-4	-3	(Z)
Caribbean Development Bank . . . . .	-	-	8	108	1	-1	-1	2	-2
Other <sup>4</sup> and unspecified . . . . .	-6	218	496	1,236	198	188	197	229	235
<b>Other international organizations and unspecified areas</b>	<b>969</b>	<b>1,335</b>	<b>4,018</b>	<b>9,739</b>	<b>1,405</b>	<b>1,319</b>	<b>1,648</b>	<b>1,864</b>	<b>2,268</b>

- Represents zero. Z Less than \$500,000. <sup>1</sup> Includes European Atomic Energy Community, European Coal and Steel Community, European Payments Union, European Productivity Agency, North Atlantic Treaty Organization, and Organization for European Economic Cooperation. <sup>2</sup> United Nations Relief and Works Agency for Palestine refugees. <sup>3</sup> Excludes transactions after October 1986, with Commonwealth of the Northern Mariana Islands; includes transactions with Federated States of Micronesia, Republic of the Marshall Islands, and Republic of Palau. <sup>4</sup> Includes Andean Development Corporation, Eastern Caribbean Central Bank, Inter-American Institute of Agricultural Sciences, Organization of American States, and Pan American Health Organization.

Source: U.S. Bureau of Economic Analysis, press releases, and unpublished data.

**No. 1398. U.S. Foreign Economic and Military Aid Programs: 1946 to 1989**

[In millions of dollars. For years ending June 30 except, beginning 1977, ending Sept. 30. Economic aid shown here represents U.S. economic aid-not just aid under Foreign Assistance Act. Major components in recent years include AID, Food for Peace, Peace Corps, and paid-in subscriptions to international financial institutions, such as IBRD, and IDB. Cumulative totals for 1946-1987 are true totals net of deobligation; annual figures however, are gross unadjusted program figures. Military aid includes Military Assistance Program (MAP) grants, foreign military credit sales, service-funded programs, and excess defense articles]

PERIOD OR YEAR AND REGION	Total economic and military aid	ECONOMIC AID			MILITARY AID		
		Total	Loans	Grants	Total	Loans	Grants
<b>1946-1989, total, . . . . .</b>	<b>358,386</b>	<b>222,384</b>	<b>55,770</b>	<b>166,614</b>	<b>136,002</b>	<b>40,399</b>	<b>95,603</b>
1946-1952 . . . . .	41,661	31,116	8,518	22,598	10,545	-	10,545
1953-1961 . . . . .	43,358	24,053	5,850	18,203	19,305	161	19,144
1962-1969 . . . . .	50,254	33,392	15,421	17,972	16,862	1,620	15,242
1970-1979 . . . . .	65,714	26,902	9,995	16,907	38,812	14,179	24,633
1980-1986 . . . . .	96,368	63,081	10,941	52,140	33,287	19,758	13,529
1980-1987 . . . . .	111,650	73,261	12,194	61,067	38,389	20,711	17,678
1980-1988 . . . . .	125,442	82,222	13,046	69,176	43,220	21,474	21,746
1980-1989 . . . . .	140,130	92,082	13,740	78,342	48,048	21,884	26,164
1970 . . . . .	6,568	3,676	1,389	2,288	2,892	70	2,822
1971 . . . . .	7,838	3,442	1,299	2,143	4,396	743	3,653
1972 . . . . .	9,021	3,940	1,639	2,301	5,080	550	4,530
1973 . . . . .	9,472	4,117	1,391	2,726	5,356	550	4,805
1974 . . . . .	8,510	3,906	1,150	2,756	4,604	1,396	3,208
1975 . . . . .	6,916	4,908	1,679	3,229	2,009	750	1,259
1976 . . . . .	6,412	3,878	1,759	2,119	2,535	1,442	1,093
1976, TQ <sup>1</sup> . . . . .	2,603	1,931	840	1,091	672	494	178
1977 . . . . .	7,784	5,594	2,083	3,511	2,190	1,411	779
1978 . . . . .	9,014	6,661	2,530	4,131	2,353	1,601	752
1979 . . . . .	13,845	7,120	1,900	5,220	6,725	5,173	1,552
1980 . . . . .	9,695	7,573	1,993	5,580	2,122	1,450	672
1981 . . . . .	10,550	7,305	1,480	5,845	3,245	2,546	699
1982 . . . . .	12,324	8,129	1,454	6,675	4,195	3,084	1,111
1983 . . . . .	14,202	8,603	1,619	6,984	5,599	3,932	1,667
1984 . . . . .	15,524	9,038	1,621	7,417	6,486	4,401	2,085
1985 . . . . .	18,128	12,327	1,579	10,748	5,801	2,365	3,436
1986 . . . . .	16,739	10,900	1,330	9,570	5,839	1,980	3,859
1987 . . . . .	14,488	9,386	1,138	8,248	5,102	953	4,149
1988 . . . . .	13,792	8,961	852	8,109	4,831	763	4,068
<b>1989 . . . . .</b>	<b>14,688</b>	<b>9,860</b>	<b>694</b>	<b>9,166</b>	<b>4,828</b>	<b>410</b>	<b>4,418</b>
Near East and South Asia . . . . .	7,411	3,209	348	2,861	4,202	410	3,792
East Asia . . . . .	774	617	14	603	157	-	157
Europe . . . . .	159	54	-	54	105	-	105
Latin America . . . . .	1,591	1,427	171	1,256	164	-	164
Africa . . . . .	1,302	1,184	157	1,026	118	-	118
Oceania and other . . . . .	28	28	-	28	-	-	-
Non-regional . . . . .	3,425	3,343	5	3,338	82	-	82

- Represents zero. <sup>1</sup> Transition quarter, July-Sept.

**No. 1399. U.S. Foreign Military Aid, by Region and Selected Countries: 1985 to 1989**

In millions of dollars. For years ending Sept. 30. Military aid data include Military Assistance Program (MAP) grants, foreign military credit sales, International Military Education and Training, and excess defense articles]

REGION AND COUNTRY	1985	1986	1987	1988	1989	REGION AND COUNTRY	1985	1986	1987	1988	1989
<b>Total . . . . .</b>	<b>5,801</b>	<b>5,839</b>	<b>5,102</b>	<b>4,831</b>	<b>4,828</b>	Cameroon . . . . .	5	(Z)	1	(Z)	(Z)
<b>Europe . . . . .</b>	<b>531</b>	<b>498</b>	<b>191</b>	<b>88</b>	<b>105</b>	Djibouti . . . . .	3	2	1	1	1
Portugal . . . . .	128	112	83	85	103	Gabon . . . . .	(Z)	(Z)	(Z)	(Z)	(Z)
Spain . . . . .	403	385	108	2	2	Kenya . . . . .	22	21	12	6	16
<b>Near East and South Asia . . . . .</b>	<b>4,248</b>	<b>4,427</b>	<b>4,299</b>	<b>4,231</b>	<b>4,202</b>	Liberia . . . . .	13	6	1	1	1
Egypt . . . . .	1,177	1,246	1,302	1,302	1,302	Morocco . . . . .	50	36	46	53	53
Greece . . . . .	501	432	344	344	351	Niger . . . . .	5	4	2	1	1
Israel . . . . .	1,400	1,723	1,800	1,800	1,800	Somalia . . . . .	34	20	8	7	1
Jordan . . . . .	92	83	42	28	12	Sudan . . . . .	46	17	6	1	1
Lebanon . . . . .	1	1	1	(Z)	(Z)	Tunisia . . . . .	67	66	34	28	31
Oman . . . . .	40	9	(Z)	(Z)	(Z)	Zaire . . . . .	8	8	5	4	4
Pakistan . . . . .	326	312	314	261	231	<b>Latin America<sup>1</sup> . . . . .</b>	<b>269</b>	<b>238</b>	<b>215</b>	<b>144</b>	<b>164</b>
Turkey . . . . .	704	619	494	493	504	Colombia . . . . .	1	4	5	4	8
Yemen . . . . .	6	3	2	2	2	Costa Rica . . . . .	11	3	2	(Z)	(Z)
<b>East Asia . . . . .</b>	<b>416</b>	<b>381</b>	<b>171</b>	<b>182</b>	<b>157</b>	Dominican Rep. . . . .	9	5	3	1	1
Indonesia . . . . .	34	21	12	6	3	Ecuador . . . . .	7	5	5	1	5
Malaysia . . . . .	5	2	1	1	1	El Salvador . . . . .	136	122	112	82	81
Philippines . . . . .	42	105	103	128	128	Haiti . . . . .	1	2	1	(Z)	(Z)
South Korea . . . . .	232	165	2	2	2	Honduras . . . . .	67	61	61	41	41
Thailand . . . . .	102	88	52	46	24	Jamaica . . . . .	8	8	3	(Z)	4
<b>Africa . . . . .</b>	<b>279</b>	<b>205</b>	<b>139</b>	<b>116</b>	<b>118</b>	Panama . . . . .	11	8	4	-	-
Botswana . . . . .	9	4	2	(Z)	1	Peru . . . . .	9	1	(Z)	(Z)	3
						<b>Non-regional . . . . .</b>	<b>58</b>	<b>91</b>	<b>88</b>	<b>70</b>	<b>82</b>

- Represents zero. Z Less than \$500,000. <sup>1</sup> Includes countries not shown separately.

Source of tables 1398 and 1399: U.S. Agency for International Development, *U.S. Overseas Loans and Grants and Assistance from International Organizations*, annual.

**No. 1400. U.S. Foreign Aid—Commitments for Economic Assistance, by Region and Selected Countries: 1985 to 1989**

(In millions of dollars. For years ending Sept. 30. Falls under economic portion of the Foreign Assistance Act. Data cover commitments for economic and technical assistance by AID. See text, section 29)

REGION AND COUNTRY	1985	1986	1987	1988	1989	REGION AND COUNTRY	1985	1986	1987	1988	1989
<b>Total</b> . . . . .	<b>8,132</b>	<b>7,446</b>	<b>6,355</b>	<b>5,705</b>	<b>6,136</b>	Lesotho . . . . .	11	10	13	26	10
<b>Europe</b> . . . . .	<b>94</b>	<b>142</b>	<b>106</b>	<b>77</b>	<b>54</b>	Liberia . . . . .	60	45	27	10	21
Italy . . . . .	2	-	(Z)	-	-	Malawi . . . . .	25	35	13	44	21
Portugal . . . . .	80	77	65	32	50	Mali . . . . .	32	13	12	21	27
Spain . . . . .	12	12	5	3	-	Mauritania . . . . .	11	4	4	4	2
<b>Near East and</b>						Mauritius . . . . .	7	2	3	15	2
<b>South Asia</b> <sup>1</sup> . . . . .	<b>3,867</b>	<b>3,728</b>	<b>2,763</b>	<b>2,523</b>	<b>2,562</b>	Morocco . . . . .	38	37	28	31	32
Bangladesh . . . . .	76	72	80	49	53	Niger . . . . .	28	24	27	35	24
Cyprus . . . . .	15	14	15	10	20	Rwanda . . . . .	19	7	9	5	9
Egypt . . . . .	1,065	1,069	820	718	817	Senegal . . . . .	44	50	35	24	49
Israel . . . . .	1,950	1,898	1,200	1,200	1,200	Seychelles . . . . .	2	2	3	3	3
Jordan . . . . .	100	95	111	24	16	Sierra Leone . . . . .	(Z)	(Z)	1	1	1
Lebanon . . . . .	20	16	13	5	3	Somalia . . . . .	51	45	36	10	13
Nepal . . . . .	18	17	16	12	15	Sudan . . . . .	149	71	21	17	5
Oman . . . . .	20	20	15	13	15	Swaziland . . . . .	9	11	9	16	7
Pakistan . . . . .	250	263	276	385	265	Tanzania . . . . .	(Z)	(Z)	58	9	10
Sri Lanka . . . . .	35	25	26	28	29	Togo . . . . .	4	11	5	4	4
Turkey . . . . .	175	120	102	32	60	Tunisia . . . . .	23	23	18	12	13
Yemen (Sanaa) . . . . .	28	25	25	22	24	Uganda . . . . .	9	15	7	25	14
Regional . . . . .	23	-	-5	-	-	Zaire . . . . .	36	48	33	31	36
<b>East Asia</b> . . . . .	<b>313</b>	<b>518</b>	<b>440</b>	<b>225</b>	<b>541</b>	Zambia . . . . .	42	20	17	13	7
Burma . . . . .	15	10	7	6	-	Zimbabwe . . . . .	41	13	6	13	29
Indonesia . . . . .	72	66	88	42	50	Regional . . . . .	96	85	52	65	110
Philippines . . . . .	183	351	253	78	347	<b>Latin America</b> <sup>1</sup> . . . . .	<b>1,506</b>	<b>1,126</b>	<b>1,310</b>	<b>967</b>	<b>937</b>
Thailand . . . . .	36	31	27	25	23	Belize . . . . .	23	10	13	8	7
East Asia Regional . . . . .	7	59	65	74	122	Bolivia . . . . .	18	38	29	38	37
<b>Africa</b> <sup>1</sup> . . . . .	<b>900</b>	<b>768</b>	<b>620</b>	<b>644</b>	<b>748</b>	Costa Rica . . . . .	196	139	161	101	175
Botswana . . . . .	10	14	6	13	9	Dominican Rep. . . . .	126	67	20	33	20
Burkina . . . . .	8	15	9	4	6	Ecuador . . . . .	33	50	37	15	27
Burundi . . . . .	4	3	2	6	2	El Salvador . . . . .	376	268	415	266	253
Cameroon . . . . .	24	25	31	19	33	Grenada . . . . .	11	-	-	-	-
Cape Verde . . . . .	3	3	2	3	3	Guatemala . . . . .	76	90	154	110	114
Chad . . . . .	16	16	11	17	16	Guyana . . . . .	-	-	-	-	-
Congo . . . . .	1	1	1	1	1	Haiti . . . . .	31	47	75	31	40
Djibouti . . . . .	4	3	2	4	3	Honduras . . . . .	205	112	175	130	53
Equatorial Guinea . . . . .	1	1	1	1	1	Jamaica . . . . .	115	85	44	40	65
Gambia, The . . . . .	6	5	9	4	4	Nicaragua . . . . .	-	-	-	-	4
Ghana . . . . .	2	4	3	7	10	Panama . . . . .	74	33	12	1	-
Guinea . . . . .	4	13	2	18	16	Paraguay . . . . .	1	1	1	1	1
Guinea-Bissau . . . . .	4	2	1	1	2	Peru . . . . .	38	26	21	28	22
Kenya . . . . .	40	43	37	43	56	ROCAP <sup>2</sup> . . . . .	107	63	58	59	48
						Regional . . . . .	30	30	29	74	100
						<b>Non-regional</b> . . . . .	<b>1,453</b>	<b>1,168</b>	<b>1,116</b>	<b>1,269</b>	<b>1,296</b>

- Represents zero. Z Less than \$500,000. <sup>1</sup> Includes countries not shown separately. <sup>2</sup> Regional programs covering Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua, and Panama.

Source: U.S. Agency for International Development, *U.S. Overseas Loans and Grants and Assistance from International Organizations*, annual; and unpublished data.

## No. 1401. U.S. Exports and Imports of Merchandise: 1960 to 1990

[In billions of dollars, except percent. Includes silver ore and bullion; beginning 1974, includes shipments of nonmonetary gold. Data may differ from those shown in other tables due to revisions and inclusion of the Virgin Islands since 1974. For basis of dollar values, see text, section 29. See also *Historical Statistics, Colonial Times to 1970*, series U 190-195 and U 207-212]

YEAR	Mer- chandise trade balance	EXPORTS <sup>1</sup>					GENERAL IMPORTS <sup>4</sup>				AVERAGE ANNUAL PERCENT CHANGE <sup>5</sup>	
		Total <sup>2</sup>	Domestic				Total <sup>3</sup>	Petro- leum	Machin- ery	Trans- port equip- ment	Domes- tic exports	General imports
			Total <sup>3</sup>	Agri- cultural	Machin- ery	Trans- port equip- ment						
1960	4.6	19.6	19.4	(NA)	(NA)	(NA)	15.0	(NA)	(NA)	(NA)	19.8	0.1
1965	5.3	26.7	26.3	(NA)	(NA)	(NA)	21.4	(NA)	(NA)	(NA)	4.0	4.3
1970	2.7	42.7	42.0	7.2	11.4	6.5	40.0	2.8	5.3	5.9	14.1	10.8
1971	-2.0	43.5	42.9	7.7	11.6	7.9	45.6	3.3	6.0	7.9	1.9	14.0
1972	-6.4	49.2	48.4	9.4	13.2	8.3	55.6	4.3	7.8	9.6	13.1	21.9
1973	1.3	70.8	69.7	17.7	17.1	10.7	69.5	7.6	10.0	11.1	43.9	25.0
1974	-4.5	98.1	96.5	22.0	23.7	14.5	102.6	24.3	11.6	12.5	38.6	47.6
1975	9.1	107.7	106.1	21.9	28.5	17.2	98.5	24.8	12.0	12.2	9.8	-4.0
1976	-8.3	115.2	113.5	23.0	31.3	18.2	123.5	31.8	15.2	14.6	7.0	25.4
1977	-29.2	121.2	118.9	23.7	32.5	18.5	150.4	41.5	17.7	17.8	5.2	21.8
1978	-31.1	143.7	141.0	29.4	37.0	22.3	174.8	39.1	24.4	23.2	18.6	16.2
1979	-27.6	181.9	178.6	34.8	44.7	25.8	209.5	56.0	28.0	25.6	26.6	19.9
1980	-24.2	220.6	216.5	41.3	55.8	28.8	244.9	77.6	31.9	28.6	21.3	16.9
1981	-27.3	233.7	228.9	43.3	62.9	32.8	261.0	75.6	38.2	31.4	5.9	6.6
1982	-31.8	212.3	207.1	36.6	60.3	23.6	244.0	59.4	39.7	33.6	-9.2	-6.5
1983	-57.5	200.5	196.0	36.1	54.3	28.3	258.0	52.3	47.0	39.2	-5.6	5.7
1984	-107.9	217.9	212.1	37.8	60.3	29.7	325.7	55.9	68.4	50.8	8.7	26.2
1985	-132.1	213.1	206.9	29.2	59.5	34.8	345.3	49.6	75.3	62.0	-2.2	6.0
1986	-152.7	217.3	206.4	26.1	60.4	34.9	370.0	34.1	87.5	74.0	2.0	7.2
1987	-152.1	254.1	243.9	28.6	69.6	39.0	406.2	41.5	99.4	78.4	16.9	9.8
1988	-118.6	322.4	310.0	37.0	88.4	46.7	441.0	38.8	117.3	79.8	26.9	8.6
1989	-109.6	363.8	349.4	40.0	98.3	50.5	473.4	49.1	126.8	79.0	12.8	7.3
1990	-101.0	394.0	375.6	(NA)	(NA)	(NA)	495.0	(NA)	(NA)	(NA)	8.3	4.6

NA Not available. <sup>1</sup> Includes "Special Category" items and beginning 1974, includes trade of Virgin Islands with foreign countries. F.a.s. value basis. <sup>2</sup> Domestic and foreign exports excluding M.A.P. Grant-Aid shipments, through 1985; 1986 through 1988 include Grant-Aid shipments. <sup>3</sup> Includes commodity groups not shown separately. <sup>4</sup> 1960-1973, 1982-1989, customs value basis; 1974-1981, f.a.s. value basis. Beginning 1974, includes trade of Virgin Islands with foreign countries. <sup>5</sup> 1960, change from 1959; thereafter, from previous year. For explanation of average annual percent change, see Guide to Tabular Presentation.

Source: U.S. Bureau of the Census, 1960-1988, *Highlights of U.S. Export and Import Trade*, FT 990, monthly; beginning 1989, *U.S. Merchandise Trade: Export, General Imports, and Imports for Consumption*, FT 925, monthly.

## No. 1402. U.S. Exports, by State of Origin: 1988 to 1990

[In millions of dollars. Exports are on a f.a.s. value basis]

STATE	1988	1989	1990		STATE	1988	1989	1990	
			Total	Rank				Total	Rank
<b>Total</b>	<b>322,225</b>	<b>364,350</b>	<b>394,045</b>	<b>(X)</b>	MT	350	283	229	48
<b>U.S.</b>	<b>235,956</b>	<b>271,830</b>	<b>315,065</b>	<b>(X)</b>	NE	747	669	693	42
AL	2,347	2,950	2,834	27	NV	223	283	394	44
AK	1,742	2,024	2,850	26	NH	869	935	973	38
AZ	2,880	3,300	3,729	22	NJ	5,954	6,492	7,633	14
AR	597	728	920	39	NY	19,359	19,580	22,072	4
CA	34,678	40,231	44,520	1	NC	5,373	6,571	8,010	13
CO	1,783	2,153	2,274	29	ND	220	299	360	45
CT	3,085	3,667	4,356	19	OH	8,900	10,172	13,378	7
DE	752	841	1,344	36	OK	1,243	1,428	1,646	32
DC	139	229	320	(X)	OR	3,307	3,878	4,065	20
FL	9,437	10,196	11,634	9	PA	5,903	6,809	8,491	12
GA	3,747	4,859	5,763	15	RI	449	526	595	43
HI	131	160	179	50	SC	2,431	2,875	3,116	25
ID	613	750	898	40	SD	78	129	205	49
IL	8,878	10,434	12,965	8	TN	2,421	2,918	3,746	21
IN	3,773	4,246	5,273	16	TX	26,384	30,020	32,931	2
IA	1,793	2,172	2,189	30	UT	826	1,114	1,596	34
KS	1,472	1,674	2,113	31	VT	796	1,016	1,154	37
KY	2,396	2,509	3,175	23	VA	6,740	7,657	9,333	11
LA	12,658	15,033	14,199	6	WA	13,707	19,305	24,432	3
ME	593	691	870	41	WV	1,141	1,234	1,550	35
MD	1,805	2,441	2,592	28	WI	3,966	4,129	5,158	17
MA	7,688	8,619	9,501	10	WY	216	237	264	46
MI	13,907	14,881	18,474	5	PR	2,356	2,901	3,600	(X)
MN	4,186	4,413	5,091	18	VI	35	63	51	(X)
MS	1,114	1,466	1,605	33	Other <sup>1</sup>	83,875	89,556	75,328	(X)
MO	1,995	2,415	3,130	24					

X Not applicable. <sup>1</sup> Includes unreported, not specified, special category, estimated shipments, foreign trade zone, re-exports.

Source: U.S. Bureau of the Census, *U.S. Merchandise Trade*, series FT 900, December issues.



# **No. 1403. U.S. Domestic Exports and General Imports of Selected Commodities—Value, by Area: 1989**

[In millions of dollars. Includes nonmonetary gold. Exports are f.a.s. (free alongside ship) transaction value basis; imports are customs value basis]

SELECTED COMMODITIES	Total <sup>1</sup>	WESTERN HEMISPHERE		WESTERN EUROPE				ASIA		
		Canada	Mexico	United Kingdom	West Germany	France	Italy	Japan	China: Taiwan	South Korea
<b>Domestic exports, total</b> . . . . .	<b>350,017</b>	<b>74,977</b>	<b>24,117</b>	<b>19,643</b>	<b>16,069</b>	<b>10,919</b>	<b>6,929</b>	<b>42,764</b>	<b>10,975</b>	<b>13,208</b>
Agricultural commodities . . . . .	40,003	2,148	2,683	653	964	421	633	8,003	1,742	2,573
Nonagricultural commodities . . . . .	310,014	72,829	21,434	18,990	15,105	10,498	6,296	34,761	9,233	10,635
Food and live animals . . . . .	19,724	1,903	1,990	469	384	371	338	7,238	1,008	1,217
Meat and meat preparations . . . . .	2,819	218	273	8	6	53	15	1,627	32	87
Grain and cereal preparation . . . . .	15,458	209.0	976	35	66	15	112	2,452	682	950
Wheat and wheat flour . . . . .	6,187	2	66	4	(Z)	(Z)	81	476	131	298
Corn . . . . .	6,690	76	449	6	46	7	27	1,561	541	641
Beverages and tobacco . . . . .	5,510	82	19	83	231	22	59	1,388	622	119
Crude materials, excluding fuels . . . . .	26,627	2,288	1,493	798	1,255	445	906	7,233	1,361	2,872
Soybeans . . . . .	3,997	37	309	73	180	46	59	866	447	220
Logs and lumber . . . . .	4,965	439	143	90	108	26	158	2,732	132	310
Metal ores and scrap . . . . .	5,313	819	225	238	236	61	66	1,159	264	617
Mineral fuels and related materials . . . . .	9,823	1,678	712	259	102	334	632	1,510	516	344
Bituminous coal . . . . .	4,242	683	1	203	32	269	490	595	170	172
Chemicals and related products . . . . .	36,485	4,210	2,195	1,554	1,515	931	731	4,664	1,751	1,642
Manufactured goods . . . . .	276,359	68,977	19,759	18,029	14,089	9,741	4,967	25,283	7,903	8,612
Textile yarn, fabric, articles . . . . .	3,897	696	387	273	139	74	75	297	70	89
Iron and steel mill products . . . . .	3,167	598	434	91	38	32	114	250	74	309
Machinery . . . . .	139,994	15,634	8,327	8,579	5,690	5,093	1,969	8,467	3,459	3,658
Power generating . . . . .	14,166	2,915	852	1,158	659	1,917	203	779	523	219
Agricultural <sup>2</sup> . . . . .	2,305	735	108	121	65	209	28	103	11	22
General industrial . . . . .	13,096	2,745	1,228	844	581	449	227	833	498	592
Office machinery and computers . . . . .	23,184	2,572	691	3,017	2,339	1,274	683	3,001	435	624
Telecommunications <sup>3</sup> . . . . .	7,669	803	1,161	745	277	147	142	848	367	225
Electrical <sup>4</sup> . . . . .	23,921	3,752	3,477	1,437	1,134	725	436	1,925	1,216	1,088
Transport equipment . . . . .	50,517	17,560	2,486	2,982	3,017	1,262	639	2,993	992	1,359
Automobile, motor vehicles <sup>5</sup> . . . . .	25,480	15,891	2,080	360	724	379	91	852	745	156
Aircraft and parts . . . . .	23,638	1,669	406	2,622	2,293	883	568	2,141	247	1,203
Professional, scientific, and controlling instruments . . . . .	10,924	1,201	656	890	962	613	443	1,589	299	370
<b>General imports, total</b> . . . . .	<b>472,926</b>	<b>88,210</b>	<b>27,186</b>	<b>18,242</b>	<b>24,834</b>	<b>13,029</b>	<b>11,946</b>	<b>93,586</b>	<b>24,326</b>	<b>19,742</b>
Agricultural commodities . . . . .	22,099	2,923	2,290	227	542	775	612	210	152	53
Nonagricultural commodities . . . . .	450,827	85,287	24,896	18,015	24,292	12,254	11,334	93,376	24,174	19,689
Food and live animals . . . . .	20,685	3,521	2,391	164	273	150	218	290	341	188
Meat and meat preparations . . . . .	2,565	557	(Z)	1	2	4	3	4	1	(Z)
Fish, including shellfish . . . . .	5,397	1,213	393	29	3	23	2	172	216	147
Vegetables and fruit . . . . .	4,937	252	1,068	18	79	20	38	34	80	18
Coffee . . . . .	2,272	2	492	(Z)	40	(Z)	1	(Z)	-	(Z)
Beverages and tobacco . . . . .	4,364	577	252	611	178	884	331	34	2	6
Crude materials, excluding fuels . . . . .	15,370	7,983	627	162	160	116	103	178	89	52
Paper base stocks . . . . .	3,078	2,686	8	(Z)	1	(Z)	-	(Z)	(Z)	-
Wood . . . . .	3,521	3,157	102	1	4	1	15	(Z)	22	(Z)
Metal ores and scrap . . . . .	3,883	1,213	176	39	53	22	3	22	8	4
Mineral fuels and related materials . . . . .	52,649	7,770	4,299	1,663	105	154	333	140	(Z)	29
Crude petroleum . . . . .	35,400	3,132	4,014	1,182	(Z)	-	23	(Z)	-	4
Petroleum products . . . . .	14,234	2,093	256	473	45	144	300	53	(Z)	25
Natural gas . . . . .	1,761	1,695	-	-	-	-	-	-	-	-
Chemicals and related products . . . . .	20,752	3,934	582	2,030	2,828	1,502	722	2,373	349	185
Manufactured goods . . . . .	379,597	68,269	19,596	15,638	24,105	11,721	10,847	92,924	23,892	19,466
Paper, paperboard . . . . .	8,549	6,204	376	141	320	108	155	220	66	66
Iron and steel . . . . .	10,578	1,657	307	400	844	648	241	2,476	133	479
Nonferrous metals . . . . .	10,889	4,758	707	350	368	183	44	369	32	13
Machinery . . . . .	126,758	11,490	9,739	5,478	8,770	3,626	2,380	43,959	8,387	6,961
Power generating . . . . .	14,249	2,854	1,211	1,448	1,047	1,703	174	3,853	91	94
General industrial . . . . .	14,470	1,731	725	950	1,948	372	694	4,118	922	447
Telecommunications <sup>3</sup> . . . . .	23,182	950	2,669	195	165	119	34	10,057	1,938	2,220
Electrical <sup>4</sup> . . . . .	32,338	2,443	4,202	844	1,882	573	266	9,217	2,309	2,675
Office machinery and data processing equipment . . . . .	25,679	1,696	774	827	444	228	304	11,150	2,618	1,410
Transport equipment . . . . .	79,003	27,640	2,437	2,375	6,200	2,401	975	29,439	884	1,900
Automobiles, buses, trucks . . . . .	53,877	13,603	1,294	1,010	5,077	73	331	22,680	22	1,594
New passenger cars . . . . .	44,703	12,871	1,175	950	5,051	73	281	19,921	22	1,594
Motor vehicle parts . . . . .	15,269	5,850	1,073	354	924	551	256	5,162	266	94
Clothing . . . . .	24,559	260	592	219	120	196	899	228	2,016	3,398
Footwear . . . . .	8,393	55	170	34	31	56	816	7	2,805	2,183

<sup>1</sup> Represents zero. NA Not available. (Z) Less than \$500,000. <sup>2</sup> Includes countries and regions not shown separately. <sup>3</sup> Includes sound recording and reproducing apparatus and equipment. <sup>4</sup> Electrical machinery, apparatus, appliances, and parts. <sup>5</sup> Includes motor vehicle and tractor parts, except tires, engines, and electrical parts.

Source: U.S. Bureau of the Census, *Highlights of U.S. Export and Import Trade*, Report FT 990, December issue; *U.S. General Imports/World Area and Country of Origin by Schedule A Commodity Groupings*, Report FT 155; and *U.S. Exports/World Area and Country of Destination by Schedule E Commodity Groupings*, Report FT 455.

## No. 1404. U.S. Exports, Imports, and Merchandise Trade Balance, by Continent, Area, and Country: 1980 to 1990

[In millions of dollars, except percent. Includes silver ore and bullion. Area, continent, and individual country totals include exports of special category commodities, if any. Data include nonmonetary gold beginning 1985; data include trade of Virgin Islands with foreign countries, see footnote 2 for exception. Minus sign (-) denotes an excess of imports over exports. See *Historical Statistics, Colonial Times to 1970*, series U 317-352, for selected countries.]

CONTINENT, AREA, AND COUNTRY	EXPORTS, DOMESTIC AND FOREIGN					GENERAL IMPORTS <sup>1</sup>					MERCHANDISE TRADE BALANCE				
	1980	1985	1988	1989	1990	1980	1985	1988	1989	1990	1980	1985	1988	1989	1990
<b>Total <sup>2</sup></b>	<b>220,783</b>	<b>213,146</b>	<b>320,385</b>	<b>363,785</b>	<b>394,045</b>	<b>244,871</b>	<b>345,276</b>	<b>441,292</b>	<b>473,396</b>	<b>495,042</b>	<b>-24,088</b>	<b>-132,190</b>	<b>-120,897</b>	<b>-109,631</b>	<b>-100,997</b>
Developed countries <sup>3</sup>	130,848	134,018	204,575	256,885	285,506	125,506	223,314	277,484	290,156	297,346	5,542	-89,298	-72,909	-55,426	-40,461
Percent of total	59	63	64	65	65	51	65	63	61	60	(X)	(X)	(X)	(X)	(X)
Developing countries <sup>3</sup>	81,125	71,673	106,898	117,848	127,450	117,025	116,161	153,127	169,190	180,498	-35,900	-44,488	-46,229	-51,342	-53,048
Asia	9,060	7,368	7,431	7,715	7,951	34,410	11,964	10,683	14,009	15,869	-25,350	-4,576	-3,432	-6,294	-7,918
Africa	60,168	60,745	98,705	112,752	120,257	80,239	131,884	190,729	207,144	207,144	-71,139	-91,977	-91,024	-91,977	-86,887
Oceania	4,876	6,399	9,849	9,964	9,964	3,392	3,819	4,624	5,273	5,765	1,484	2,560	4,178	4,756	4,199
Europe	71,372	59,978	91,645	105,731	117,300	48,039	81,692	102,673	111,261	123,333	-23,333	-71,714	-11,028	103,390	6,038
North America	56,737	67,249	113,080	121,143	124,287	64,287	94,885	110,410	122,498	132,104	-7,550	-27,736	-12,402	-9,418	-10,990
South America	17,377	11,022	15,147	14,244	15,614	14,400	20,932	21,783	23,102	26,777	-9,910	-6,636	-8,858	-10,562	-10,562
<b>Western Hemisphere</b>	<b>74,114</b>	<b>78,271</b>	<b>113,155</b>	<b>127,324</b>	<b>136,757</b>	<b>78,687</b>	<b>115,916</b>	<b>132,193</b>	<b>145,600</b>	<b>159,280</b>	<b>-4,573</b>	<b>-37,645</b>	<b>-19,038</b>	<b>-18,276</b>	<b>-21,523</b>
Canada	35,395	47,251	69,233	78,266	82,967	41,459	69,006	80,921	86,210	91,372	-6,064	-21,755	-11,688	-9,944	-8,406
20 Latin American countries	36,030	27,850	40,077	44,396	49,425	29,952	43,448	48,914	54,816	64,095	6,078	-15,598	-8,837	-10,420	-14,671
Other Western Hemisphere	2,688	3,170	3,845	4,697	4,366	7,277	3,462	2,358	2,539	2,813	-4,569	-292	1,487	2,148	1,554
Central American Common Market	1,951	1,622	2,254	2,580	2,938	1,849	1,722	1,935	2,275	2,548	102	-100	319	305	390
Costa Rica	498	422	696	881	992	356	501	775	962	1,008	142	-79	-79	-81	-17
El Salvador	272	445	483	521	556	427	396	284	245	238	-155	49	199	276	318
Guatemala	552	405	591	662	759	435	409	433	608	795	117	-4	158	53	36
Honduras	378	308	478	515	563	419	375	443	489	492	-40	-67	35	26	71
Nicaragua	250	42	6	2	68	211	41	1	Z	15	39	1	5	2	53
Latin American Free Trade Association	32,274	24,414	35,346	38,942	43,484	26,735	39,943	44,812	50,288	56,242	5,539	-15,529	-9,566	-11,346	-12,759
Argentina	2,625	721	1,056	1,037	1,179	741	1,069	1,438	1,398	1,509	1,884	-348	-382	-361	-330
Bolivia	172	120	148	144	139	182	99	117	120	203	-10	21	31	24	-65
Brazil	4,343	3,140	4,289	4,799	5,062	3,715	7,526	9,324	8,378	7,977	628	-4,386	-5,035	-3,580	-2,915
Chile	1,353	682	1,065	1,411	1,672	515	745	1,162	1,308	1,321	838	-63	-97	103	351
Colombia	1,736	1,468	1,758	1,916	2,038	1,241	1,331	2,167	2,548	3,175	495	137	-409	-832	-1,136
Ecuador	864	591	684	641	680	876	1,837	1,231	1,484	1,378	-12	-2,46	-547	-843	-697
Mexico	15,145	13,635	20,643	24,969	28,375	12,580	18,132	23,277	27,186	30,172	2,565	-5,497	-2,634	-2,217	-1,797
Paraguay	109	99	194	167	307	81	24	37	45	51	28	75	157	122	256
Peru	1,171	496	798	690	778	1,386	1,087	656	813	803	-215	-591	142	-123	-25
Uruguay	183	64	100	133	145	97	557	275	218	208	86	-493	-175	-85	-63
Venezuela	4,573	3,389	4,611	3,036	3,107	5,321	6,537	5,228	6,786	9,447	-748	-3,138	-617	-3,750	-6,339
Other Latin America	1,805	1,814	2,477	2,849	3,004	1,368	1,782	2,067	2,268	2,329	437	32	410	561	681
Cuba	(Z)	(Z)	3	3	1	(Z)	(Z)	(Z)	(Z)	(Z)	-	1	3	3	1
Dominican Republic	795	742	1,362	1,646	1,658	787	982	1,417	1,645	1,747	8	-240	-55	-55	-89
Haiti	311	396	479	471	478	252	390	384	375	343	59	6	95	96	135
Panama	699	675	633	729	867	330	410	266	268	233	369	265	367	461	634

CONTINENT, AREA, AND COUNTRY	EXPORTS, DOMESTIC AND FOREIGN					GENERAL IMPORTS <sup>1</sup>					MERCHANDISE TRADE BALANCE				
	1980	1985	1988	1989	1990	1980	1985	1988	1989	1990	1980	1985	1988	1989	1990
<b>Other Western Hemisphere</b>															
Anguilla	2,698	3,170	3,845	4,687	4,366	7,277	3,462	2,358	2,539	2,813	-4,589	-292	1,487	2,148	1,554
Antigua	152	179	14	17	15	36	95	1	(2)	(2)	116	104	13	17	15
Bahamas, The	396	786	741	773	773	1,489	828	411	482	509	-1,073	180	330	311	292
Barbados	136	173	159	174	182	98	202	51	48	32	-40	-29	108	128	130
Belize	58	58	103	101	106	60	47	51	43	47	47	9	52	58	59
Bermuda	136	258	286	354	255	13	7	10	12	12	123	251	279	344	242
Guadeloupe	67	28	30	34	54	13	3	1	2	2	1	60	25	31	53
Greenland	3	3	4	4	4	14	3	1	1	1	-11	3	3	2	5
Guyana	96	43	68	78	76	120	3	61	55	52	-24	-4	17	23	24
Jamaica	305	404	758	1,019	844	383	273	444	538	589	-78	131	314	472	375
Netherlands Antilles	448	427	432	413	542	2,564	808	411	384	421	-2,116	-381	21	29	121
Suriname	136	86	93	136	157	109	80	88	78	50	27	26	5	60	107
Trinidad and Tobago	880	504	328	352	430	2,383	1,258	719	768	1,016	-1,703	-754	-391	-206	-586
Other	74	200	829	1,020	835	23	33	122	160	103	167	707	860	733	733
<b>Western Europe</b>	67,512	56,763	87,995	100,435	113,034	46,802	79,756	100,515	101,725	108,986	20,910	-22,993	-12,520	-1,290	4,048
<b>OECD<sup>4</sup></b>	68,654	56,084	87,236	99,708	112,136	46,137	79,165	99,558	100,816	108,024	20,517	-23,081	-12,322	-1,108	4,112
Belgium and Luxembourg <sup>5</sup>	58,991	48,996	75,526	86,552	98,023	37,882	67,822	84,953	85,292	91,888	20,809	-18,828	-9,027	-1,300	6,156
Denmark	8,861	4,918	7,405	8,657	10,448	1,914	3,387	4,578	4,555	4,578	4,747	1,531	2,887	4,102	5,870
France <sup>6</sup>	7,485	6,036	10,133	11,585	13,652	5,265	9,482	12,228	13,014	13,124	2,220	-3,386	-2,095	-1,439	-567
Greece <sup>6</sup>	322	498	649	706	784	292	385	529	473	507	630	103	120	129	528
Ireland	536	1,342	2,182	2,494	2,539	413	901	1,373	1,585	1,746	423	441	809	529	794
Italy	5,611	4,825	6,785	7,232	7,987	4,325	9,674	11,811	11,933	12,774	1,186	-5,049	-4,826	-4,701	-4,736
Netherlands	8,869	7,289	10,095	11,393	13,016	1,913	4,091	4,587	4,810	4,972	6,758	3,188	5,508	6,963	8,044
Portugal	911	895	752	926	922	278	548	691	800	833	633	149	161	126	90
Spain <sup>7</sup>	3,179	2,524	4,217	4,798	5,208	1,220	2,515	3,205	3,317	3,310	1,953	9	102	149	1,899
United Kingdom	12,894	11,273	18,404	20,866	23,484	9,842	14,937	18,042	18,319	20,288	2,852	-3,962	3,62	2,547	3,196
West Germany	10,960	9,050	14,331	18,883	21,690	11,693	20,239	26,503	24,971	28,109	-732	11,189	-12,172	-8,088	6,419
<b>Other OECD<sup>4</sup></b>	7,962	7,091	11,311	13,116	14,113	8,255	11,343	14,567	15,683	16,158	-293	-4,352	-3,256	-2,567	-2,044
Austria	447	441	873	873	873	389	834	1,085	1,138	1,376	58	-393	-337	-263	-443
Finland	505	438	783	969	1,126	439	895	1,208	1,370	1,267	66	-467	-443	-401	-141
Iceland	79	38	98	179	232	200	248	190	208	183	-121	-210	-92	-29	89
Norway	843	866	933	1,036	1,281	2,632	1,164	1,452	1,991	1,848	-1,789	-498	-519	-956	-587
Sweden	1,767	1,925	2,705	3,140	3,404	1,617	4,124	4,995	4,882	4,991	150	-2,199	-2,990	-1,752	-1,527
Switzerland	3,781	2,288	4,221	4,915	4,944	2,803	3,476	4,657	4,714	5,452	978	-1,188	-436	-201	-507
Turkey	540	1,295	1,843	2,004	2,263	175	602	983	1,372	1,180	365	693	860	633	1,073
<b>Other Western Europe</b>	868	679	759	712	836	464	591	967	908	877	394	88	188	197	-42
Yugoslavia	756	595	534	501	566	446	542	807	795	773	310	53	-313	-298	-207
Other	102	84	225	211	270	18	49	110	107	105	84	36	115	104	165

See footnotes at end of table.

## No. 1404. U.S. Exports, Imports, and Merchandise Trade Balance, by Continent, Area, and Country: 1980 to 1990—Continued

[In millions of dollars, except percent. See headnote, p. 806]

CONTINENT, AREA, AND COUNTRY	EXPORTS, DOMESTIC AND FOREIGN					GENERAL IMPORTS <sup>1</sup>					MERCHANDISE TRADE BALANCE				
	1980	1985	1986	1989	1990	1980	1985	1988	1989	1990	1980	1985	1988	1989	1990
<b>Eastern Europe</b>	3,660	3,215	3,650	5,296	4,266	1,437	1,836	2,158	2,341	2,275	2,423	1,279	1,492	2,955	1,991
Bulgaria	161	104	127	181	84	25	36	27	39	47	136	68	100	142	37
Czechoslovakia	185	63	55	53	89	69	76	88	87	87	116	13	33	34	2
East Germany	479	73	109	94	62	44	92	110	139	95	435	19	-1	-45	6,23
Hungary	80	94	78	122	157	107	218	284	329	349	27	-124	-216	-207	-192
Poland	714	238	304	414	406	416	220	378	387	409	298	18	-74	27	-2
Romania	722	208	202	156	369	312	882	681	651	631	410	-674	-479	-498	138
Soviet Union	1,513	2,423	2,768	4,271	3,088	454	409	578	703	1,065	1,059	2,014	2,190	3,568	2,022
Other	7	12	7	5	10	10	3	2	3	2	-3	9	5	2	8
<b>Asia</b>	60,168	60,745	98,705	112,752	120,257	90,299	131,084	190,728	204,729	207,144	-20,131	-71,139	-91,024	-91,977	-86,887
Japan	20,790	22,631	37,732	44,584	48,585	30,714	68,783	89,802	93,586	89,655	-9,924	-46,152	-52,070	-49,002	-41,071
<b>Near East Asia</b>	11,900	9,709	10,857	11,143	11,198	18,672	6,267	11,511	15,142	18,880	-6,772	3,442	-654	-3,999	-7,482
Bahrain	197	107	281	489	718	16	84	99	80	51	181	23	182	409	638
Iran	23	74	73	60	167	458	725	9	9	7	-435	-651	64	51	160
Iraq	724	427	1,156	1,174	732	480	474	1,488	2,408	3,015	264	-47	-332	-1,234	-2,283
Israel	2,045	2,239	3,248	3,239	3,200	950	2,123	2,978	3,239	3,313	1,095	116	270	373	298
Jordan	407	377	373	381	309	3	14	12	8	12	404	363	361	373	298
Kuwait	886	551	690	855	401	494	184	464	975	570	392	367	226	-120	-169
Lebanon	303	141	89	94	98	33	19	40	31	24	270	122	49	63	74
Saudi Arabia	5,768	4,474	3,799	3,576	4,035	12,648	1,907	5,594	7,181	9,974	-6,880	2,567	-1,795	-3,605	-5,940
Syria	239	106	89	92	150	26	3	37	98	52	213	103	52	-6	98
Other	1,307	1,213	1,059	2,644	1,388	3,594	734	790	1,113	1,633	-2,277	479	269	1,531	-245
<b>Other Asia</b>	27,478	28,405	51,116	57,025	60,474	30,913	56,834	89,416	96,001	98,809	-3,435	-28,429	-38,300	-38,976	-38,335
Afghanistan	11	3	6	5	4	6	7	5	5	5	5	-4	1	-1	-1
Burma	29	10	11	5	20	9	14	12	17	23	20	-4	-1	-12	-3
China: Mainland	3,755	3,886	5,039	5,755	4,807	1,062	3,962	8,512	11,990	15,234	2,693	24	-3,473	-6,235	-10,417
Hong Kong	4,337	4,700	12,130	11,323	11,482	6,854	16,396	24,804	24,326	22,667	-2,517	-11,696	-12,674	-13,003	-11,184
India	2,686	2,786	5,691	5,304	6,840	4,739	8,306	10,243	9,739	9,488	-2,053	-5,810	-4,552	-3,435	-2,648
Indonesia	1,689	1,642	2,498	2,463	2,486	1,098	2,295	2,932	3,314	3,191	581	-853	-454	-851	-705
Kampuchea	1,545	795	1,056	1,256	1,897	5,217	4,569	3,198	3,548	3,343	-3,672	-3,774	-2,132	-2,292	-1,446
Laos	26	1	1	(Z)	(Z)	(Z)	(Z)	3	1	(Z)	26	-	-	-2	1
Malaysia	1,337	1,509	2,139	2,975	3,425	2,577	2,300	3,711	4,745	5,272	-1,240	-781	-1,572	-1,870	-1,848
Pakistan	642	1,042	1,093	523	1,143	128	274	461	523	609	514	788	632	-0	534

# Merchandise Trade, by Country

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CONTINENT, AREA, AND COUNTRY	EXPORTS, DOMESTIC AND FOREIGN					GENERAL IMPORTS <sup>1</sup>					MERCHANDISE TRADE BALANCE				
	1980	1985	1988	1989	1990	1980	1985	1988	1989	1990	1980	1985	1988	1989	1990
Philippines.....	1,999	1,379	1,880	2,206	2,472	1,731	2,145	2,682	3,064	3,383	268	-766	-802	-858	-911
Singapore.....	3,033	3,476	4,053	7,353	8,019	1,921	4,260	7,996	8,950	9,840	1,112	-784	-3,943	-1,597	-1,820
South Korea.....	4,685	5,956	11,290	13,478	14,389	4,147	10,013	20,189	19,742	18,483	538	-4,057	-8,899	-6,264	-4,095
Sri Lanka.....	62	73	124	143	137	126	282	495	498	538	-64	-209	-300	-356	-401
Thailand.....	1,263	849	1,964	2,292	2,991	816	1,428	3,218	4,378	5,294	447	-579	-1,254	-2,086	-2,302
Other.....	379	269	2,141	1,044	350	462	593	1,016	1,160	1,440	-103	-324	-1,125	-116	-1,090
<b>Oceania.....</b>	<b>4,876</b>	<b>6,399</b>	<b>8,242</b>	<b>9,949</b>	<b>9,964</b>	<b>3,392</b>	<b>3,819</b>	<b>4,824</b>	<b>5,273</b>	<b>5,765</b>	<b>1,484</b>	<b>2,580</b>	<b>3,418</b>	<b>4,576</b>	<b>4,199</b>
Australia.....	4,093	5,441	6,981	8,347	8,535	2,509	2,837	3,511	3,898	4,433	1,564	2,604	3,470	4,449	4,102
New Zealand.....	599	727	1,133	1,118	1,133	703	860	1,166	1,207	1,199	-104	-104	-224	-89	-86
Other Oceania.....	184	231	319	384	296	180	122	147	168	133	4	109	172	216	164
<b>Africa.....</b>	<b>9,060</b>	<b>7,388</b>	<b>7,431</b>	<b>7,715</b>	<b>7,951</b>	<b>34,410</b>	<b>11,964</b>	<b>10,863</b>	<b>14,009</b>	<b>15,869</b>	<b>-25,350</b>	<b>-4,576</b>	<b>-3,432</b>	<b>-6,294</b>	<b>-7,918</b>
Algeria.....	542	430	733	759	948	6,577	2,333	1,813	1,836	2,645	-6,035	-1,903	-1,060	-1,077	-1,698
Angola.....	111	137	101	98	150	742	1,054	1,216	1,863	1,958	-917	-917	-1,115	-1,765	-1,808
Cameroon.....	83	69	32	36	46	605	324	219	413	158	-512	-255	-167	-377	-112
Central African Republic.....	1	1	3	6	1	9	1	1	3	2	-6	-	-	3	-1
Egypt.....	1,874	2,323	2,340	2,610	2,249	539	79	221	227	396	1,335	2,244	2,119	2,383	1,852
Ethiopia.....	72	203	181	69	157	87	43	54	70	40	-15	160	127	-1	117
Gabon.....	48	91	56	46	49	343	502	175	418	720	-285	-411	-119	-372	-671
Ghana.....	127	54	117	123	138	206	90	202	127	169	-79	-36	-85	-4	-30
Ivory Coast.....	185	70	75	79	78	288	525	280	237	200	-103	-455	-215	-158	-121
Kenya.....	141	97	92	133	116	54	92	64	68	58	87	5	28	65	58
Libya.....	113	73	68	98	44	128	83	108	107	49	-15	-10	-40	-9	-5
Madagascar.....	509	311	(2)	(2)	(2)	8,585	44	33	(2)	49	-8,086	267	-38	-	-
Mauritania.....	7	33	12	7	13	91	53	10	36	42	-84	-20	-	-31	-30
Morocco.....	20	26	18	18	13	(2)	(2)	15	10	24	20	26	2	8	-11
Mozambique.....	344	279	428	398	497	35	39	92	98	109	309	240	336	300	388
Nigeria.....	69	56	41	39	50	105	16	21	20	29	-36	40	36	21	31
South Africa.....	1,150	676	356	492	551	11,105	3,002	3,258	5,227	5,977	-9,955	-2,326	-2,942	-4,755	-5,426
Sudan.....	2,463	1,205	1,690	1,656	1,732	3,321	2,071	1,530	1,539	1,701	-868	-968	-160	-130	-122
Tanzania.....	142	243	81	81	42	19	6	18	20	16	135	234	96	61	26
Tunisia.....	62	46	28	20	48	32	10	23	53	15	30	36	10	-24	33
Togo.....	173	256	165	160	179	80	13	43	56	32	113	243	142	164	147
Uganda.....	12	16	16	23	26	136	113	58	40	114	-114	-108	-42	-17	-10
Zaire.....	153	105	135	122	138	418	401	365	333	319	-263	-296	-246	-211	-178
Zambia.....	98	60	26	50	88	200	58	90	24	23	-62	-2	6	26	52
Other.....	549	539	582	583	605	727	1,009	965	1,162	1,167	-178	-470	-383	-599	-562

- Represents zero. X Not applicable. Z Less than \$500,000. <sup>1</sup> Imports: 1980, f.a.s. basis; other years, customs value basis. Exports are f.a.s. value. <sup>2</sup> Includes revisions not carried to area values; therefore, area values will not add to total. <sup>3</sup> Developed countries include Canada, Western Europe, Japan, Australia, New Zealand, and South Africa; developing countries include rest of the world excluding Communist areas in Europe and Asia. Assignment of countries generally follows that made by United Nations (See table 14.38). OECD = Organization of Economic Cooperation and Development. As of 1981, Greece, became a member of EEC; as of 1986 Spain and Portugal became members of EEC. For consistency, data for all years are shown on same basis. <sup>4</sup> Effective October 3, 1990, East Germany ceased to exist as a sovereign state and became a part of West Germany. Accordingly, trade statistics for East Germany reflect trade for January through September 1990. Trade statistics for 1990 for West Germany reflect this unification beginning with October 1990.

Source: U.S. Bureau of the Census, *Highlights of U.S. Export and Import Trade*, FT 990, monthly.

# No. 1405. U.S. Exports and Imports for Consumption of Merchandise, by Coastal Area and Customs District: 1980 to 1989

[In billions of dollars. Exports are f.a.s. (free alongside ship) value all years; imports are on customs value basis for years 1983 to present; f.a.s. value basis for 1980. See also *Historical Statistics, Colonial Times to 1970*, series U 264-273]

U.S. COASTAL AREA AND CUSTOMS DISTRICT	EXPORTS							IMPORTS FOR CONSUMPTION						
	1980	1984	1985	1986	1987	1988	1989	1980	1984	1985	1986	1987	1988	1989
<b>Total</b> <sup>1</sup>	<b>220.8</b>	<b>217.9</b>	<b>213.1</b>	<b>217.3</b>	<b>252.9</b>	<b>320.4</b>	<b>363.8</b>	<b>244.0</b>	<b>323.0</b>	<b>343.6</b>	<b>368.7</b>	<b>402.1</b>	<b>437.1</b>	<b>468.0</b>
<b>North Atlantic area</b>	<b>68.8</b>	<b>49.7</b>	<b>46.5</b>	<b>51.8</b>	<b>53.4</b>	<b>69.2</b>	<b>79.2</b>	<b>79.8</b>	<b>104.4</b>	<b>107.1</b>	<b>115.6</b>	<b>123.0</b>	<b>126.3</b>	<b>126.8</b>
Portland, ME.	4.3	0.7	0.6	0.6	0.8	1.0	1.2	1.6	2.3	2.3	2.7	3.3	3.4	3.5
St. Albans, VT.	0.7	1.1	1.1	1.3	1.6	1.9	2.7	1.6	2.5	2.7	2.7	3.2	3.6	4.2
Boston, MA.	0.8	2.8	3.0	3.8	4.4	5.7	6.2	5.0	8.1	8.2	9.2	12.0	12.6	12.0
Providence, RI.	2.7	0.1	0.1	(Z)	(Z)	(Z)	(Z)	1.5	2.6	2.3	2.7	1.6	1.5	1.4
New York, NY.	38.9	31.3	28.5	33.4	32.8	42.4	47.0	43.4	59.2	60.5	67.0	68.4	69.7	70.4
Philadelphia, PA.	3.2	2.1	2.0	1.9	2.4	3.4	3.9	15.6	15.8	15.8	13.7	15.6	15.6	16.0
Baltimore, MD.	9.0	5.8	5.5	4.9	5.4	6.8	7.7	6.0	8.5	8.8	11.0	11.8	12.1	11.8
Norfolk, VA.	8.0	5.4	5.4	5.3	5.5	7.3	9.4	4.7	5.0	6.0	5.8	6.3	7.0	6.8
Washington, DC.	0.3	0.4	0.5	(Z)	0.5	0.7	1.1	0.4	0.4	0.5	0.8	0.7	0.8	0.7
<b>South Atlantic area</b>	<b>14.7</b>	<b>15.6</b>	<b>15.0</b>	<b>16.6</b>	<b>18.7</b>	<b>24.2</b>	<b>27.7</b>	<b>15.5</b>	<b>20.5</b>	<b>20.4</b>	<b>24.0</b>	<b>26.6</b>	<b>28.4</b>	<b>31.5</b>
Wilmington, NC.	1.3	1.3	1.3	1.2	1.1	1.4	2.1	1.1	1.7	1.9	2.4	2.5	2.9	3.0
Charleston, SC. <sup>2</sup>	3.1	2.9	2.9	3.0	3.6	5.0	6.2	1.8	3.0	3.3	4.9	5.9	6.1	6.5
Savannah, GA.	2.4	3.7	3.4	3.8	4.4	6.0	6.8	2.2	4.7	5.1	6.4	7.4	8.3	4.5
San Juan, PR.	0.9	1.4	1.2	1.3	1.4	1.7	2.1	3.7	4.3	4.0	3.8	3.9	4.1	4.7
Virgin Islands of the U.S.	0.1	0.2	0.1	(Z)	0.1	0.1	0.1	4.1	2.5	1.7	1.2	1.7	1.0	1.6
Miami, FL.	6.9	6.2	6.1	7.2	8.1	9.9	10.4	2.6	4.3	4.4	5.2	5.7	6.0	6.2
<b>Gulf area</b>	<b>51.1</b>	<b>43.4</b>	<b>38.4</b>	<b>34.9</b>	<b>39.0</b>	<b>49.7</b>	<b>56.9</b>	<b>62.3</b>	<b>52.4</b>	<b>50.5</b>	<b>48.1</b>	<b>53.1</b>	<b>56.3</b>	<b>64.1</b>
Tampa, FL.	2.8	2.8	2.8	2.1	2.7	3.6	4.0	3.7	5.7	6.6	7.6	7.4	7.3	6.7
Mobile, AL. <sup>2</sup>	2.6	1.2	1.1	1.3	1.4	1.4	1.9	3.0	3.4	2.8	2.3	2.9	2.8	3.4
New Orleans, LA.	19.5	16.8	13.9	13.1	14.0	16.9	18.5	22.5	14.3	14.7	14.8	15.9	17.1	20.6
Port Arthur, TX.	2.0	1.7	0.8	0.8	0.9	1.1	1.2	9.4	5.2	2.7	1.3	1.9	1.8	2.8
Laredo, TX.	8.3	6.2	7.2	6.3	7.5	10.6	13.4	2.7	4.6	4.8	5.7	6.8	7.9	9.4
St. Louis, MO.	0.2	0.1	0.1	0.2	0.2	0.2	0.5	0.9	1.4	1.6	2.0	2.3	2.7	3.0
Houston/Galveston, TX.	15.7	14.7	12.5	11.2	12.5	15.9	17.4	20.1	17.8	17.3	14.5	16.0	16.7	18.2
<b>Pacific area</b>	<b>43.8</b>	<b>47.8</b>	<b>49.6</b>	<b>52.4</b>	<b>61.1</b>	<b>82.8</b>	<b>98.9</b>	<b>43.1</b>	<b>66.9</b>	<b>80.4</b>	<b>91.4</b>	<b>101.6</b>	<b>111.8</b>	<b>121.4</b>
San Diego, CA.	1.4	1.4	1.6	1.5	1.7	2.5	3.0	1.0	1.6	1.8	2.2	2.7	3.4	4.0
Los Angeles, CA.	14.8	18.4	19.5	19.9	23.7	32.0	38.6	20.0	31.1	44.1	48.5	53.6	58.0	62.3
San Francisco, CA.	10.6	12.4	11.3	11.4	14.3	19.1	21.4	8.3	16.2	15.5	19.1	21.8	25.1	27.1
Portland, OR.	3.8	4.1	3.5	3.2	3.7	5.6	6.2	2.6	3.6	3.8	4.7	4.6	5.8	5.7
Seattle, WA.	12.0	10.1	12.1	14.9	15.7	20.9	26.6	9.2	12.7	13.4	15.3	17.2	17.8	20.2
Anchorage, AK.	1.0	1.1	1.3	1.3	1.7	2.2	2.6	0.2	0.3	0.2	0.3	0.1	0.2	0.4
Honolulu, HI.	0.2	0.3	0.4	0.2	0.4	0.6	0.5	1.8	1.4	1.6	1.4	1.6	1.6	1.7
<b>Great Lakes area</b>	<b>35.0</b>	<b>46.9</b>	<b>46.5</b>	<b>46.1</b>	<b>54.8</b>	<b>62.6</b>	<b>63.9</b>	<b>37.0</b>	<b>68.0</b>	<b>72.3</b>	<b>75.7</b>	<b>81.9</b>	<b>95.9</b>	<b>103.7</b>
Ogdensburg, NY.	3.8	4.5	4.1	4.4	4.7	5.3	5.6	4.6	7.1	6.8	7.5	7.9	8.5	9.2
Buffalo, NY.	6.3	8.5	8.4	8.2	9.5	10.5	9.5	7.4	13.7	14.7	15.5	15.4	18.1	19.0
Pembina, ND.	2.3	2.3	2.2	2.3	2.5	2.8	3.4	3.0	3.4	3.2	2.6	2.7	3.3	3.9
Minneapolis, MN.	0.1	0.2	0.2	0.2	0.3	0.5	0.8	0.3	0.8	1.0	1.2	1.4	1.6	1.9
Duluth, MN.	1.5	1.6	0.9	0.8	0.7	1.2	1.2	3.0	3.3	3.0	2.4	2.9	3.2	3.5
Milwaukee, WI.	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.4	0.9	1.0	0.9	0.9	1.1	0.9
Detroit, MI.	14.5	22.6	22.8	21.3	26.8	30.1	28.9	12.7	25.9	27.4	27.9	29.7	35.7	38.7
Chicago, IL.	4.2	5.1	5.4	6.1	6.9	8.7	10.0	4.1	10.1	11.4	12.3	13.8	16.1	17.4
Cleveland, OH.	1.8	1.9	2.1	2.7	3.4	3.4	3.9	1.5	2.8	3.8	5.4	7.3	8.3	9.2
<b>Other statistical areas</b> <sup>3</sup>	<b>7.4</b>	<b>14.5</b>	<b>17.1</b>	<b>15.5</b>	<b>25.9</b>	<b>31.8</b>	<b>37.7</b>	<b>6.3</b>	<b>10.8</b>	<b>12.7</b>	<b>13.8</b>	<b>15.8</b>	<b>18.5</b>	<b>19.8</b>
El Paso, TX.	1.8	1.8	2.1	2.3	2.6	3.8	4.0	1.4	2.2	2.5	3.0	3.4	4.5	5.1
Nogales, AZ.	0.8	0.9	0.8	0.8	1.0	1.3	1.5	1.2	1.9	2.0	2.4	3.1	3.2	3.7
Great Falls, MT.	1.8	1.4	1.5	1.1	1.2	1.6	1.8	3.2	3.9	4.0	3.3	3.7	4.0	4.1
Dallas/Fort Worth, TX.	0.5	0.8	1.0	1.2	1.5	2.1	2.7	1.2	2.2	2.4	3.2	3.3	4.1	4.1

Z Less than \$50 million. <sup>1</sup> Totals shown for exports reflect the value of estimated parcel post and Special Category shipments, and beginning 1987, adjustments for undocumented exports to Canada which are not distributed by coastal area/customs district. Beginning 1984, the value of bituminous coal exported through Norfolk, VA; Charleston, SC; and Mobile, AL is reflected in the total but not distributed by district. Total bituminous coal exports for the 3 customs districts were valued at \$2.3 billion in 1984, \$2.6 billion in 1985, \$2.3 billion in 1986, \$1.9 billion in 1987, and \$2.4 billion in 1988. <sup>2</sup> Beginning 1984, excludes exports of bituminous coal. <sup>3</sup> Includes estimated shipments and vessel-own power.

Source: U.S. Bureau of the Census, 1980-1988, *Highlights of U.S. Export and Import Trade*, FT 990; beginning 1989, U.S. *Merchandise Trade: Selected Highlights*, series FT 920, monthly.

## No. 1406. Export and Import Unit Value Indexes—Selected Countries: 1984 to 1989

[Indexes in U.S. dollars, 1985=100. A unit value is an implicit price derived from value and quantity data. NA Not available]

COUNTRY	EXPORT UNIT VALUE						IMPORT UNIT VALUE					
	1984	1985	1986	1987	1988	1989	1984	1985	1986	1987	1988	1989
<b>United States</b>	<b>101</b>	<b>100</b>	<b>101</b>	<b>103</b>	<b>110</b>	<b>113</b>	<b>103</b>	<b>100</b>	<b>97</b>	<b>104</b>	<b>109</b>	<b>112</b>
Australia	112	100	97	108	132	141	106	100	105	116	123	127
Austria	102	100	133	158	161	146	100	100	125	144	147	142
Belgium-Luxembourg	101	100	119	135	(NA)	(NA)	103	100	111	125	(NA)	(NA)
Canada	104	100	95	100	111	(NA)	102	100	97	102	107	(NA)
Denmark	99	100	127	149	149	146	100	100	119	133	138	135
France	98	100	123	141	146	144	101	100	110	125	130	129
Italy	101	100	122	142	149	150	101	100	105	120	124	127
Japan	101	100	120	131	144	142	100	100	85	92	98	101
Norway	101	100	87	93	96	101	99	100	116	131	140	140
Sweden	100	100	120	138	148	151	101	100	111	128	138	137
United Kingdom	99	100	103	120	131	129	100	100	110	125	135	131
West Germany	100	100	131	154	158	156	101	100	114	129	133	134

NA Not available.

Source: International Monetary Fund, Washington, DC, *International Financial Statistics*, monthly.

**No. 1407. U.S. Exports and Imports—Indexes of Unit Value and Quantity: 1984 to 1988**

[1977=100. Note: Series discontinued after 1988]

END-USE COMMODITY CATEGORY	INDEX OF EXPORT OF U.S. MERCHANDISE					INDEX OF GENERAL EXPORTS				
	1984	1985	1986	1987	1988	1984	1985	1986	1987	1988
<b>UNIT VALUE</b>										
<b>All commodities</b> . . . . .	<b>156.2</b>	<b>155.0</b>	<b>155.4</b>	<b>158.6</b>	<b>169.6</b>	<b>163.5</b>	<b>159.4</b>	<b>154.0</b>	<b>164.6</b>	<b>172.9</b>
Food, feed and beverages . . . . .	123.9	110.3	101.7	94.7	114.8	121.1	117.0	125.6	123.3	130.9
Industrial supplies and materials . . . . .	148.1	140.8	135.8	142.0	154.4	178.1	167.2	129.5	143.1	147.3
Capital goods exc. auto. . . . .	171.1	178.1	182.7	185.7	193.6	128.6	131.0	136.2	142.4	154.9
Auto. vehicles parts and engines . . . . .	199.3	208.4	224.3	239.8	245.5	200.3	205.0	236.9	264.2	277.7
Consumer goods except foods and auto . . . . .	140.9	138.5	142.2	142.1	149.8	134.8	128.9	130.1	133.9	138.8
<b>QUANTITY</b>										
<b>All commodities</b> . . . . .	<b>115.1</b>	<b>113.0</b>	<b>112.6</b>	<b>127.0</b>	<b>149.8</b>	<b>136.7</b>	<b>148.6</b>	<b>164.9</b>	<b>169.2</b>	<b>175.1</b>
Food, feed and beverages . . . . .	129.4	110.6	111.4	128.8	141.7	125.4	135.0	138.8	142.3	133.1
Industrial supplies and materials . . . . .	123.5	123.8	126.0	139.2	163.7	91.9	91.5	105.8	103.3	107.4
Capital goods exc. auto. . . . .	114.0	111.8	113.1	125.6	152.2	340.4	380.9	401.0	440.7	484.8
Auto. vehicles parts and engines . . . . .	78.2	82.4	73.9	77.5	90.0	154.0	183.8	191.2	185.5	181.7
Consumer goods except foods and auto . . . . .	94.3	91.3	99.8	124.2	156.8	201.0	242.6	277.4	300.0	311.2

Source: U.S. Bureau of the Census, *Highlights of U.S. Export and Import Trade*, series FT 990, monthly, and unpublished data.**No. 1408. Domestic Exports, by Selected Commodity Groups: 1970 to 1989**

[In millions of dollars. Totals and subtotals include data for commodities not shown separately. Beginning 1980, exports include nonmonetary gold. Beginning 1980, commodity data are not strictly comparable with previous years due to changes in export classifications; see source for changes. Beginning 1980, includes trade of Virgin Islands with foreign countries (see footnote 1 for exception). "N.e.c." means not elsewhere classified. See also *Historical Statistics, Colonial Times to 1970*, series U 274-294]

COMMODITY	1970	1980	1983	1984	1985	1986	1987	1988	1989
<b>U.S. merchandise</b> . . . . .	<b>42,590</b>	<b>216,668</b>	<b>195,969</b>	<b>212,057</b>	<b>206,925</b>	<b>206,376</b>	<b>243,859</b>	<b>310,049</b>	<b>349,433</b>
<b>Food and live animals</b> . . . . .	<b>4,356</b>	<b>27,744</b>	<b>24,166</b>	<b>24,463</b>	<b>19,268</b>	<b>17,303</b>	<b>19,179</b>	<b>26,162</b>	<b>29,724</b>
Meat and preparations . . . . .	175	1,293	1,191	1,208	1,153	1,424	1,768	2,430	2,819
Dairy products and eggs . . . . .	137	255	373	368	388	407	385	496	439
Cereal and Cereal preparations . . . . .	2,596	18,079	15,152	16,076	11,050	7,368	8,058	12,281	15,458
Wheat and wheat flour . . . . .	1,112	6,586	6,509	6,698	3,780	3,217	3,248	5,080	6,187
Rice . . . . .	314	1,285	926	845	665	621	576	802	970
Coarse grains . . . . .	1,072	9,866	7,231	8,241	6,251	3,132	3,742	5,897	7,739
Corn . . . . .	824	8,570	6,480	7,081	5,319	2,718	3,314	5,191	6,690
Grain sorghums . . . . .	196	1,080	747	880	639	389	406	685	990
Fruits and nuts . . . . .	406	1,938	1,701	1,676	1,710	1,876	2,144	2,540	2,283
Fruits, fresh or dried . . . . .	164	716	761	688	693	780	829	956	1,009
Vegetables . . . . .	178	992	744	759	667	781	811	948	1,235
Feed for animals . . . . .	497	2,878	2,802	2,226	1,891	2,622	2,692	3,426	3,016
<b>Beverages and tobacco</b> . . . . .	<b>702</b>	<b>2,663</b>	<b>2,813</b>	<b>2,849</b>	<b>2,958</b>	<b>2,920</b>	<b>3,667</b>	<b>4,556</b>	<b>5,510</b>
Tobacco and manufactures . . . . .	679	2,426	2,647	2,704	2,789	2,732	3,400	4,153	4,973
Leaf tobacco . . . . .	481	1,334	1,462	1,511	1,521	1,209	1,090	1,252	1,341
Cigarettes . . . . .	159	1,055	1,126	1,120	1,180	1,298	2,047	2,645	3,369
<b>Crude materials, inedible, exc.</b>	<b>4,605</b>	<b>23,791</b>	<b>18,596</b>	<b>20,249</b>	<b>16,939</b>	<b>17,324</b>	<b>20,416</b>	<b>25,151</b>	<b>26,947</b>
<b>Fuels</b> . . . . .	<b>145</b>	<b>694</b>	<b>807</b>	<b>1,171</b>	<b>1,088</b>	<b>1,314</b>	<b>1,450</b>	<b>1,639</b>	<b>1,567</b>
Hides and skins, ex. fur skins . . . . .	42	352	203	212	207	207	281	188	155
Fur skins, undressed . . . . .	1,216	5,883	5,925	5,438	3,906	4,334	4,343	4,816	3,997
Soybeans . . . . .	176	695	543	624	584	849	761	858	770
Synthetic rubber . . . . .	366	2,002	1,366	1,372	1,448	1,418	1,848	2,549	2,827
Wood in the rough . . . . .	193	1,060	914	841	760	994	1,349	1,825	2,130
Wood shaped or simply worked . . . . .	162	778	602	530	493	640	851	1,134	1,442
Woodpulp . . . . .	464	1,652	1,432	1,502	1,343	1,662	2,250	2,915	3,613
Textile fibers and wastes . . . . .	543	3,929	2,593	3,343	2,476	1,602	2,552	3,061	3,334
Raw cotton, excluding linters . . . . .	372	2,864	1,817	2,441	1,633	773	1,631	1,975	2,250
Ores and metal scrap . . . . .	940	4,518	2,276	2,666	2,682	2,802	3,018	4,729	5,313
Iron and steel scrap . . . . .	447	1,226	637	918	917	1,054	967	1,352	1,749
Ores and scrap, nonferrous base . . . . .	397	1,223	451	560	517	480	562	879	471
<b>Mineral fuels and related materials</b> . . . . .	<b>1,595</b>	<b>7,982</b>	<b>9,500</b>	<b>9,311</b>	<b>9,971</b>	<b>8,114</b>	<b>7,713</b>	<b>8,235</b>	<b>9,865</b>
Coal . . . . .	962	4,621	4,051	4,132	4,464	3,928	3,366	4,009	4,286
Petroleum and products . . . . .	488	2,833	4,557	4,470	4,707	3,639	3,922	3,679	4,828
Lubricating oils . . . . .	175	733	667	568	549	602	327	444	775
<b>Animal and vegetable oils and fats</b> . . . . .	<b>493</b>	<b>1,946</b>	<b>1,459</b>	<b>1,922</b>	<b>1,434</b>	<b>1,015</b>	<b>981</b>	<b>1,522</b>	<b>1,350</b>
Tallow, inedible . . . . .	176	677	568	617	538	350	362	477	391
Soybean oil . . . . .	192	689	447	742	431	253	263	487	356

See footnotes at end of table.

## No. 1408. Domestic Exports, by Selected Commodity Groups: 1970 to 1989—Continued

[In millions of dollars. See headnote, p. 811]

COMMODITY GROUP	1970	1980	1983	1984	1985	1986	1987	1988	1989
<b>Chemicals and related products.</b>	<b>3,826</b>	<b>20,740</b>	<b>19,751</b>	<b>22,336</b>	<b>21,759</b>	<b>22,766</b>	<b>26,381</b>	<b>32,281</b>	<b>36,485</b>
Chemical elements and compounds	1,642	2,106	1,838	2,183	1,967	1,771	2,113	2,702	2,807
Dyeing, tanning, coloring materials	137	490	491	493	461	507	628	707	1,097
Medicinal, pharmaceutical prod.	420	1,932	2,494	2,628	2,708	3,090	3,182	3,941	3,660
Fertilizers, manufactured	178	2,265	1,267	1,815	2,160	1,935	2,259	2,498	2,821
Plastic materials and resins <sup>3</sup>	653	3,884	3,732	4,050	3,777	4,301	5,492	7,277	7,929
<b>Machinery and transport equip.</b>	<b>17,882</b>	<b>84,628</b>	<b>82,578</b>	<b>89,973</b>	<b>94,278</b>	<b>95,290</b>	<b>108,596</b>	<b>135,082</b>	<b>148,800</b>
Machinery <sup>4</sup>	11,885	57,263	54,695	61,464	60,573	60,809	70,080	88,531	109,786
Power generating machinery	1,405	8,428	8,718	9,114	9,272	9,185	10,193	12,817	14,166
Agricultural machinery	182	1,295	832	965	854	772	868	1,070	1,317
Tractors and parts	750	2,150	1,389	1,921	1,832	1,155	1,250	1,573	1,808
Electronic computers, parts and accessories	1,236	7,763	10,599	13,461	13,841	14,514	17,495	22,448	21,422
Other office machines <sup>5</sup>	311	946	1,070	1,131	1,087	866	1,074	1,212	1,400
Metalworking machinery	396	1,756	1,121	1,175	1,249	1,467	1,606	1,925	2,603
Metalcutting machines	213	397	204	217	246	307	332	389	440
Textile, leather machinery	273	693	453	520	498	554	661	820	1,049
Construction, excavating, and mining equipment	434	1,628	766	760	820	713	773	782	908
Materials handling equipment	607	2,243	946	911	924	873	964	1,337	958
Air-conditioning and refrigerating equipment	397	1,523	1,268	1,308	1,199	1,121	1,335	1,747	1,990
Pumping equipment, incl. parts	241	1,091	1,003	1,025	1,000	910	994	1,189	1,375
Pipe valves and parts	196	829	716	673	610	609	711	798	982
Power machinery, switchgear	611	3,254	3,221	3,652	3,381	3,486	4,009	5,306	6,378
Generators, generating sets	117	619	376	590	330	307	339	540	517
Transforming, converting, transmission apparatus	156	914	926	995	937	937	1,014	1,365	1,819
Telecommunications apparatus	660	3,454	3,804	3,943	4,167	4,407	5,085	6,544	7,669
Domestic electrical equipment	119	796	611	626	550	542	742	1,140	1,301
Transport equipment <sup>6</sup>	6,197	27,366	27,298	28,509	33,708	34,026	38,000	45,497	49,730
Railway vehicles	91	452	402	584	426	538	346	311	416
Road motor vehicles, parts <sup>6</sup>	3,245	13,117	13,492	17,651	19,445	17,695	19,952	23,972	24,089
Automobiles, nonmilitary, new	822	3,919	4,200	4,868	6,020	6,254	6,694	8,312	9,652
Trucks and tractor trucks, commercial, new	452	1,467	1,042	1,686	2,183	1,996	2,243	2,438	3,372
Parts, accessories	1,603	6,058	7,531	9,069	9,376	8,492	9,657	10,836	10,920
Aircraft, parts, and accessories	2,656	12,816	12,189	10,914	14,373	15,106	16,904	20,004	23,638
Civilian aircraft	1,528	8,256	7,531	4,147	6,694	7,366	7,517	10,294	14,153
<b>Other manufactured goods</b>	<b>7,636</b>	<b>38,802</b>	<b>30,087</b>	<b>30,839</b>	<b>29,347</b>	<b>30,834</b>	<b>36,545</b>	<b>47,280</b>	<b>59,880</b>
Tires and tubes	186	511	304	392	343	315	514	772	863
Paper and manufactures	622	2,831	2,553	2,620	2,329	2,802	3,180	3,892	4,195
Paper and paperboard	526	2,162	1,843	1,914	1,722	1,992	2,430	2,919	3,121
Nonmetallic mineral mfrs., n.e.c.	475	2,209	1,770	1,865	1,621	1,886	2,289	2,861	3,308
Metals and manufactures	2,978	12,071	6,954	6,979	6,285	5,200	6,421	10,032	12,593
Iron and steel mill products <sup>7</sup>	1,188	2,998	1,415	1,248	1,152	1,020	1,223	2,017	3,167
Plates and sheets	335	936	295	284	270	291	362	839	1,663
Tubes, pipes, and fittings	226	1,080	731	605	510	391	436	635	831
Silver bullion, refined	31	1,327	169	86	82	57	79	94	247
Nonferrous base metals	893	2,964	1,606	1,634	1,798	1,195	1,699	3,041	3,988
Copper	358	434	386	395	298	682	345	707	889
Aluminum	358	2,022	1,010	990	937	816	1,202	2,116	2,730
Metal manufactures, n.e.c.	744	4,205	3,443	3,802	3,253	3,008	3,534	4,373	4,616
Tools for hand or machine	204	858	671	678	686	581	657	776	895
Textiles, other than clothing	603	3,632	2,368	2,382	2,366	2,570	2,933	3,650	3,897
Textile yarn and thread	145	753	533	547	628	573	677	910	1,032
Cotton broad-woven fabrics	103	566	201	193	204	301	292	286	369
Textile fabrics, woven, exc. cotton	151	832	430	424	388	466	555	629	577
Clothing	198	1,183	796	776	754	879	1,143	1,556	2,087
Professional, scientific, and controlling instruments	857	5,256	5,856	6,198	6,505	6,732	7,388	8,889	10,924
Photographic supplies	250	1,507	1,386	1,464	1,313	1,418	1,472	1,589	1,724
Printed matter	327	1,097	1,324	1,391	1,279	1,342	1,562	1,918	2,640
<b>Other transactions</b>	<b>1,496</b>	<b>8,496</b>	<b>7,009</b>	<b>10,116</b>	<b>10,970</b>	<b>11,011</b>	<b>20,381</b>	<b>29,761</b>	<b>30,872</b>
Firearms of war and ammunition	682	2,006	3,092	2,971	2,653	2,282	2,258	2,809	2,672
Estimated shipments <sup>8</sup>	692	2,119	1,597	4,353	5,742	5,795	8,683	10,258	8,513

<sup>1</sup> Includes revisions not carried to commodity groups; therefore, commodity groups will not add to total. <sup>2</sup> Beginning 1980, includes pulpwood chips, formerly classified in "Other manufactured goods" under "Wood and manufactures." <sup>3</sup> Beginning 1980, includes rubber materials, formerly classified in "Other manufactured goods" under "Rubber manufactures." <sup>4</sup> Includes parts for tractors. <sup>5</sup> Beginning 1980, includes photocopy apparatus, formerly classified in "Other manufactured goods" under "Photographic and motion picture equipment." <sup>6</sup> Excludes parts for tractors. <sup>7</sup> Beginning 1980, electric measuring and controlling instruments are included in "Other manufactured goods" under "Professional, scientific, and controlling instruments"; formerly classified under "Machinery." <sup>8</sup> Beginning 1984, includes exports valued \$10,000 and under reported without a valid schedule B commodity number; beginning 1985, includes estimates of export shipments valued under \$1,001.

Source: U.S. Bureau of the Census, 1970-1988, *U.S. Exports, Schedule E-Commodity by County*, FT 410, monthly; beginning 1989, *U.S. Merchandise Trade, Exports, General Imports, Imports for Consumption*, series FT 925, monthly.



## No. 1409. General Imports, by Selected Commodity Groups: 1970 to 1989

[In millions of dollars. Imports are customs value basis for years 1983 to present; f.a.s. (free alongside ship) value basis prior to 1983. Totals and subtotals include value of commodities not shown separately. Beginning 1980, includes trade of Virgin Islands with foreign countries. "N.e.c." means not elsewhere classified. See also *Historical Statistics, Colonial Times to 1970*, series U 295-316]

COMMODITY GROUP	1970	1980	1983	1984	1985	1986	1987	1988	1989
<b>General imports</b>	<b>39,952</b>	<b>244,871</b>	<b>258,048</b>	<b>325,726</b>	<b>345,276</b>	<b>369,961</b>	<b>405,901</b>	<b>440,952</b>	<b>473,397</b>
<i>C.i.f. values</i> <sup>1</sup>	42,429	256,984	269,878	341,177	361,626	387,081	424,082	459,542	493,352
<b>Food and live animals</b>	<b>5,375</b>	<b>15,766</b>	<b>15,412</b>	<b>17,973</b>	<b>18,649</b>	<b>20,802</b>	<b>20,547</b>	<b>20,110</b>	<b>20,685</b>
Cattle, except for breeding	111	228	301	279	301	426	421	598	662
Meat and preparations	1,014	2,346	2,034	2,034	2,237	2,367	2,786	2,738	2,565
Meat, fresh or frozen	647	1,756	1,384	1,381	1,533	1,655	1,987	2,043	1,462
Fish, including shellfish	794	2,612	3,594	3,671	3,985	4,691	5,590	5,327	5,397
Fruits and nuts	447	1,245	1,855	2,673	2,717	2,781	3,098	3,244	2,319
Bananas	188	416	569	627	723	709	773	779	856
Vegetables	289	802	1,065	1,218	1,261	1,420	1,378	1,418	1,785
Sugar	725	1,987	1,046	1,258	936	670	438	436	611
Coffee, green	1,160	3,872	2,590	3,064	3,130	4,293	2,706	2,030	2,272
Cocoa or cacao beans	201	395	349	411	564	418	504	405	384
Tea	53	131	132	203	166	133	106	129	127
<b>Beverages and tobacco</b>	<b>855</b>	<b>2,784</b>	<b>3,408</b>	<b>3,553</b>	<b>3,727</b>	<b>3,868</b>	<b>4,105</b>	<b>4,123</b>	<b>4,364</b>
Alcoholic beverages	725	2,232	2,626	2,853	2,966	3,066	3,268	3,414	3,396
Tobacco, unmanufactured	111	422	464	625	535	591	588	445	650
<b>Crude materials, inedible, except fuels</b>	<b>3,307</b>	<b>10,516</b>	<b>9,590</b>	<b>11,082</b>	<b>10,391</b>	<b>10,432</b>	<b>11,526</b>	<b>13,624</b>	<b>15,370</b>
Rubber, including latex	231	980	909	1,132	654	921	1,125	1,445	1,459
Lumber, softwood	439	1,984	2,590	2,687	2,909	2,984	3,086	2,959	2,872
Lumber, hardwood	61	145	127	161	166	153	250	214	260
Woodpulp	480	1,725	1,470	1,845	1,499	1,604	2,069	2,508	3,044
Textile fibers and wastes	202	242	312	387	348	358	438	523	663
Wool and other animal hair	116	146	176	211	166	186	251	331	341
Industrial diamonds	39	119	96	106	136	105	83	127	93
Asbestos, unmanufactured	75	97	58	65	44	27	23	22	14
Ores and metal scrap	1,149	3,715	2,498	2,890	2,331	2,148	2,446	3,264	3,883
Iron ore and concentrates	480	773	452	534	468	469	411	485	522
Nonferrous base metals <sup>2</sup>	522	2,291	1,306	1,606	1,290	1,020	1,167	1,601	1,378
Aluminum ores, and concentrates (including bauxite)	165	432	250	311	210	189	234	251	345
<b>Mineral fuels and related materials</b>	<b>3,075</b>	<b>82,924</b>	<b>57,952</b>	<b>60,980</b>	<b>53,917</b>	<b>37,310</b>	<b>44,219</b>	<b>41,042</b>	<b>52,649</b>
Petroleum and products	2,764	77,637	52,325	55,906	49,607	34,140	41,529	38,175	49,141
Petroleum, crude and partly refined	1,448	65,717	36,809	36,529	33,034	22,720	29,321	25,844	35,400
Petroleum products	1,316	11,920	15,516	19,377	16,572	11,101	12,209	12,045	13,741
Natural gas	258	5,155	5,530	4,923	4,136	2,994	2,504	2,577	1,761
<b>Animal and vegetable oils and fats</b>	<b>160</b>	<b>533</b>	<b>495</b>	<b>696</b>	<b>672</b>	<b>516</b>	<b>568</b>	<b>888</b>	<b>731</b>
<b>Chemicals and related products</b>	<b>1,450</b>	<b>8,593</b>	<b>10,779</b>	<b>13,697</b>	<b>14,533</b>	<b>15,001</b>	<b>16,213</b>	<b>19,560</b>	<b>20,752</b>
Organic chemicals	355	2,541	3,477	4,265	4,576	4,704	5,408	6,853	7,042
Inorganic chemicals <sup>2</sup>	371	2,313	2,568	3,458	3,401	3,276	3,042	3,596	3,231
Medicinal and pharmaceutical products	87	509	703	931	1,084	1,240	1,456	1,859	2,086
Fertilizers, manufactured	192	1,104	997	1,142	967	865	1,001	1,021	999
<b>Machinery and transport equipment</b>	<b>11,172</b>	<b>60,558</b>	<b>66,131</b>	<b>119,192</b>	<b>137,264</b>	<b>161,562</b>	<b>177,809</b>	<b>197,017</b>	<b>205,761</b>
Machinery	5,375	32,286	46,975	68,390	75,299	87,549	99,433	117,281	126,758
Engines and parts	782	1,866	3,570	6,348	8,849	8,482	9,391	10,897	12,021
Agricultural machinery	173	698	475	588	577	613	750	861	883
Tractors and parts	175	1,049	924	1,298	811	1,331	1,467	1,748	1,928
Office machines and data processing equipment	505	2,929	6,759	10,791	11,562	14,669	18,462	22,601	25,679
Metalworking machinery	164	1,425	1,480	2,025	2,759	3,249	2,976	3,327	3,880
Textile and leather machinery	361	889	1,059	1,282	1,105	1,447	1,811	2,088	2,069
Power machinery	247	2,038	2,974	7,291	8,849	9,802	10,860	10,972	11,351
Telecommunications apparatus	1,102	6,716	11,278	15,934	18,659	20,720	20,820	22,220	23,182
Electron tubes, transistors, semiconductor devices, and parts	224	3,592	5,388	8,228	6,227	6,540	8,218	11,539	13,172
Transport equipment	5,798	28,260	39,156	50,802	61,965	74,013	79,376	79,772	79,003
Automobiles and parts	5,068	24,015	34,870	45,284	45,476	66,201	70,680	71,266	70,309
Automobiles, new	3,722	16,776	22,934	29,208	36,475	45,302	47,858	47,005	44,703
Motorcycles	307	1,149	659	731	954	736	437	499	531
Aircraft and parts	274	1,885	2,051	3,011	3,578	4,494	4,475	5,168	5,824
<b>Other manufactured goods</b>	<b>13,285</b>	<b>55,970</b>	<b>66,539</b>	<b>88,625</b>	<b>94,982</b>	<b>105,559</b>	<b>118,539</b>	<b>131,979</b>	<b>138,630</b>
Leather manufactures and dressed furs	118	393	582	758	406	808	1,031	1,290	924
Rubber tires and tubes	205	1,143	1,406	1,839	1,923	1,986	2,271	2,448	2,726
Wood manufactures (excl. furniture)	409	1,133	1,335	1,546	780	1,777	2,103	2,134	2,034
Paper and manufactures	1,087	3,587	4,216	5,571	5,977	6,360	7,310	8,336	8,549
Newsprint	930	2,685	2,759	3,299	3,633	3,682	4,116	4,462	4,488
Construction materials	106	550	628	940	1,158	1,356	1,503	1,632	1,629
Glass, glassware, and pottery	338	1,228	1,602	1,468	2,195	2,492	2,871	2,974	2,926
Diamonds, excluding industrial	433	2,252	2,275	2,905	3,006	3,459	3,423	4,306	4,358

See footnotes at end of table.

## No. 1409. General Imports, by Selected Commodity Groups: 1970 to 1989—Continued

[In millions of dollars. See headnote, p. 813]

COMMODITY	1970	1980	1983	1984	1985	1986	1987	1988	1989
<b>Other manufactured goods-Con.</b>									
Metals and manufactures . . . . .	4,508	18,717	18,717	24,964	23,834	23,616	25,144	30,748	30,461
Pig iron and ferroalloys . . . . .	78	678	453	664	468	621	628	1,141	1,198
Iron and steelmill products . . . . .	1,952	6,692	6,338	10,208	10,266	8,168	8,493	10,274	9,401
Bars, rods, shapes, and pilings . . . . .	486	1,420	1,307	1,865	1,775	1,603	1,726	2,032	1,837
Plates and sheets . . . . .	906	2,505	2,993	4,566	4,237	3,838	4,064	4,467	4,347
Steel wire . . . . .	119	293	287	226	438	208	207	235	(NA)
Tubes, pipes, and fittings . . . . .	349	2,193	1,366	2,633	2,445	1,592	1,502	2,347	2,012
Nonferrous base metals . . . . .	1,502	5,182	4,785	6,252	7,008	5,753	6,377	8,552	8,949
Copper . . . . .	532	1,470	1,341	1,512	1,146	1,377	1,551	2,098	2,196
Nickel . . . . .	317	885	524	600	604	515	573	1,220	1,543
Aluminum . . . . .	238	974	1,629	2,450	1,995	2,744	2,860	3,442	3,181
Lead . . . . .	74	91	65	90	57	61	137	114	91
Tin . . . . .	190	776	453	513	426	243	270	316	338
Silver, refined bullion . . . . .	53	1,329	1,926	848	869	688	460	476	586
Platinum group metals . . . . .	98	1,107	707	1,062	962	1,251	1,148	1,264	6,351
Metal manufactures, n.e.c . . . . .	825	3,732	4,504	5,923	6,560	7,129	8,035	9,031	8,973
Textiles, other than clothing . . . . .	1,135	2,499	3,225	4,531	4,900	5,768	6,511	6,373	6,094
Textile yarn and thread . . . . .	223	194	355	523	534	689	735	708	742
Cotton fabrics, woven . . . . .	173	433	560	878	837	1,006	1,293	984	1,063
Textile fabrics, wgvn, except cotton . . . . .	499	408	586	702	100	948	889	948	989
Twine and cordage . . . . .	35	114	87	85	79	66	72	82	139
Floor coverings . . . . .	53	283	332	491	549	608	683	604	618
Clothing . . . . .	1,269	6,430	9,583	13,497	14,949	17,288	20,490	21,518	24,559
Footwear . . . . .	629	2,809	4,010	5,034	5,695	6,473	7,236	8,041	8,393
Professional, scientific, photographic, and controlling instruments . . . . .	356	2,654	3,528	4,696	3,211	1,598	4,509	5,174	5,846
Clocks and watches . . . . .	184	1,127	1,058	1,254	1,367	1,536	1,702	1,909	1,915
Musical instruments, sound recorders and reproducers, parts . . . . .	505	487	927	1,288	1,794	2,396	2,527	2,548	2,442
Printed matter . . . . .	160	613	739	980	1,116	1,376	1,494	1,581	1,619
Articles of plastic and rubber, n.e.c . . . . .	236	916	1,352	1,861	1,631	2,833	3,494	4,072	3,007
Toys, games, and sporting goods . . . . .	427	1,836	2,412	3,189	4,075	4,520	5,772	6,492	5,046
Artworks and antiques . . . . .	162	2,672	2,017	2,467	2,188	2,091	1,952	2,044	2,171
<b>Other transactions . . . . .</b>	<b>1,274</b>	<b>7,225</b>	<b>7,742</b>	<b>9,828</b>	<b>11,141</b>	<b>14,914</b>	<b>12,374</b>	<b>12,590</b>	<b>14,454</b>

NA Not available. <sup>1</sup> Value on a cost, insurance, and freight basis: cost (to the U.S. importer) of commodities at port of exportation plus insurance and freight to U.S. customs port of entry. 1970 is estimated. <sup>2</sup> Materials of lime, cement, and clay.

<sup>3</sup> Excludes narrow or special fabrics. <sup>4</sup> Beginning 1980, electric measuring and controlling instruments are included in "Other manufactured goods" under "Professional, scientific, photographic, and controlling instruments"; prior to 1980, classified under "Machinery." <sup>5</sup> Beginning 1980, sound recorders included in "Machinery."

Source: U.S. Bureau of the Census, 1970-1988, *U.S. General Imports and Imports for Consumption, Schedule A-Commodity by Country*, FT 135, monthly; beginning 1989, *U.S. Merchandise Trade: Exports, General Imports, and Imports for Consumption*, series FT 925, monthly.

## No. 1410. Imports for Consumption—Values and Duties: 1970 to 1990

[Imports are on customs value basis. Beginning 1970, includes silver ores and bullion, and beginning 1980, includes trade of Virgin Islands with foreign countries. For basis of dollar values and for area coverage, see text, section 29. See also *Historical Statistics, Colonial Times to 1970*, series U 207-212]

YEAR	VALUES				Duties calculated (mil. dol.)	RATIO OF DUTIES TO VALUES		Duties per capita (dollar)
	Total (mil. dol.)	Free (mil. dol.)	Dutiable (mil. dol.)	Percent free		Total imports (percent)	Dutiable imports (percent)	
1970 . . . . .	39,756	13,870	25,886	35	2,584	6.5	10.0	12.60
1975 . . . . .	96,516	31,030	65,486	32	3,780	3.9	5.8	17.50
1976 . . . . .	121,121	37,190	83,931	31	4,675	3.9	5.6	21.44
1977 . . . . .	147,075	43,633	103,442	30	5,485	3.7	5.3	24.91
1978 . . . . .	172,912	51,827	121,125	30	7,162	4.1	5.9	32.17
1979 . . . . .	205,850	103,278	102,645	50	7,202	3.5	7.0	31.99
1980 . . . . .	244,007	106,992	132,951	45	7,535	3.1	5.7	33.09
1981 . . . . .	259,012	76,338	182,674	29	8,893	3.4	4.9	38.67
1982 . . . . .	242,340	75,856	166,484	31	8,688	3.6	5.2	37.40
1983 . . . . .	256,679	83,397	173,283	32	9,430	3.7	5.4	40.21
1984 . . . . .	322,989	102,977	220,012	32	12,042	3.7	5.5	50.90
1985 . . . . .	343,553	106,035	237,518	31	13,067	3.8	5.5	54.73
1986 . . . . .	368,657	121,742	246,915	33	13,312	3.6	5.4	55.10
1987 . . . . .	402,066	132,152	269,914	33	13,923	3.5	5.2	57.08
1988 . . . . .	437,140	151,693	285,447	35	15,054	3.4	5.3	61.12
1989 . . . . .	468,012	156,365	311,647	33	16,096	3.4	5.2	64.70
1990 . . . . .	490,554	(NA)	(NA)	(NA)	16,300	3.3	(NA)	65.66

NA Not available. <sup>1</sup> Customs duties (including import excise taxes) calculated on the basis of reports of quantity and value of imports of merchandise entered directly for consumption or withdrawn from bonded customs warehouses. <sup>2</sup> Based on estimated population including Armed Forces abroad as of July 1. <sup>3</sup> Total includes revisions not carried to free and dutiable values.

Source: U.S. Bureau of the Census, 1970-1988, *Highlights of U.S. Export and Import Trade*, series FT 990, monthly; beginning 1989, *U.S. Merchandise Trade: Selected Highlights*, series FT 920, and unpublished data.

# **No. 1411. Domestic Exports and Imports for Consumption of Merchandise, by Selected SIC-Based Product Category: 1980 to 1990**

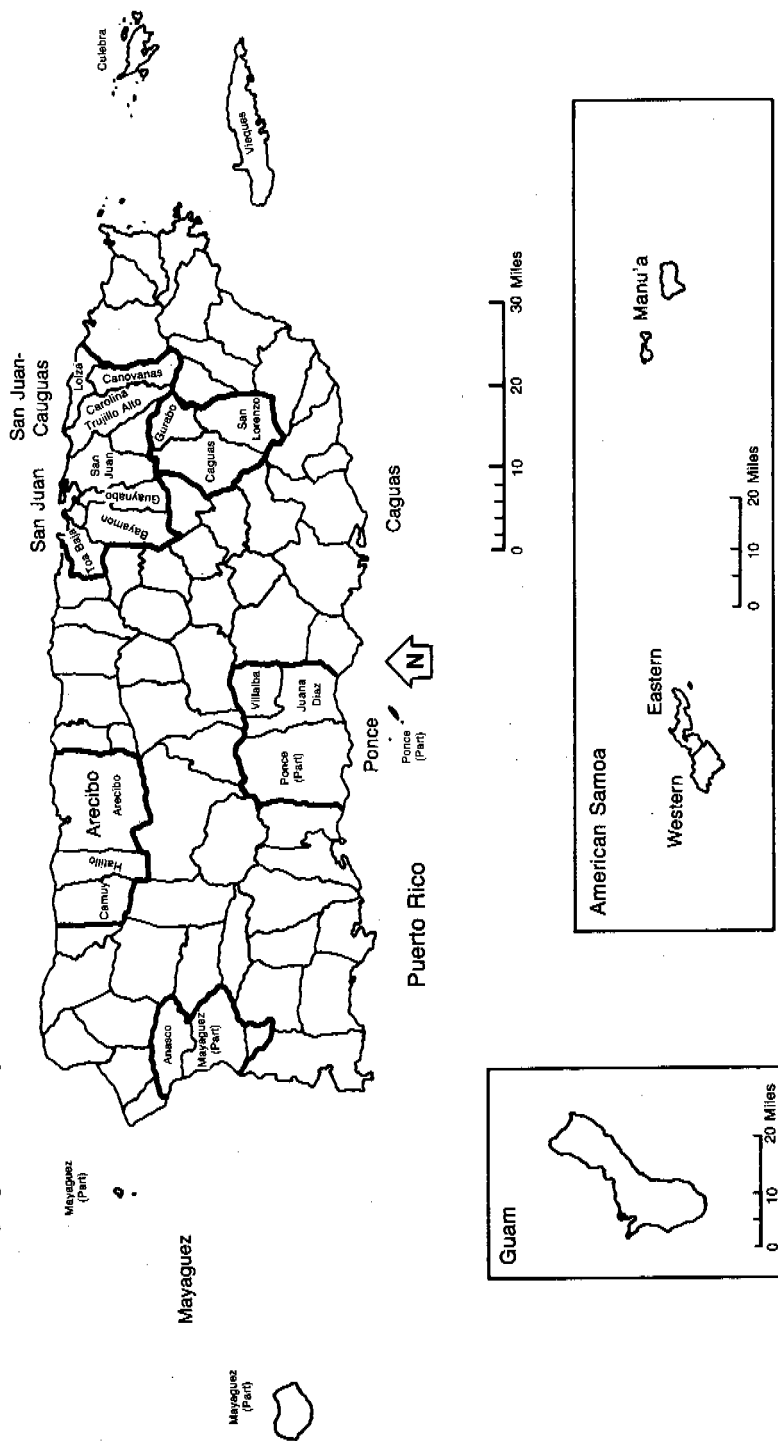
[In millions of dollars. Includes nonmonetary gold; beginning 1980, includes trade of U.S. Virgin Islands with foreign countries. For 1980 and 1981, imports are free alongside ship (f.a.s.) value at foreign port exportation; thereafter, customs value basis]

SIC <sup>1</sup> code	SIC-BASED PRODUCT CATEGORY	1980	1984	1985	1986	1987	1988	1989	1990
(X)	<b>Domestic exports, total</b> . . . . .	<b>216,592</b>	<b>212,057</b>	<b>206,925</b>	<b>206,376</b>	<b>243,859</b>	<b>308,014</b>	<b>347,527</b>	<b>375,606</b>
(X)	Agricultural, forestry and fishery products . . . . .	30,091	27,557	20,073	15,967	17,717	23,385	25,860	26,264
01	Agricultural products . . . . .	29,238	26,770	19,199	15,088	16,678	22,043	24,163	22,597
02	Livestock and livestock products . . . . .	715	646	735	740	855	1,108	829	829
08	Forestry products . . . . .	110	115	122	120	155	185	305	320
09	Fish, fresh or chilled; and other marine products <sup>3</sup> . . . . .	28	26	18	20	30	50	563	2,518
(X)	<b>Mineral commodities</b> . . . . .	<b>8,338</b>	<b>6,417</b>	<b>6,394</b>	<b>5,599</b>	<b>5,058</b>	<b>6,050</b>	<b>6,630</b>	<b>7,335</b>
10	Metallic ores and concentrates . . . . .	1,320	644	686	590	597	903	1,247	1,137
11,12	Bituminous, lignite and anthracite coal . . . . .	4,627	4,133	4,465	3,930	3,368	4,013	4,287	4,513
13	Crude petroleum and natural gas . . . . .	976	448	476	306	271	237	89	638
14	Nonmetallic minerals, fuels . . . . .	1,415	1,193	767	774	822	897	1,006	1,047
(X)	<b>Manufactured commodities</b> . . . . .	<b>171,355</b>	<b>173,284</b>	<b>175,750</b>	<b>179,401</b>	<b>208,438</b>	<b>261,836</b>	<b>308,133</b>	<b>331,263</b>
20	Food and kindred products . . . . .	12,124	11,067	10,055	11,250	12,320	15,747	16,582	16,121
21	Tobacco manufactures . . . . .	1,091	1,192	1,268	1,522	2,310	2,862	3,632	5,040
22	Textile mill products . . . . .	2,488	1,541	1,462	1,853	1,891	2,339	2,810	3,635
23	Apparel and related products . . . . .	1,620	1,065	1,019	1,213	1,518	1,982	2,383	2,872
24	Lumber and related products . . . . .	3,695	2,699	2,668	3,018	3,961	5,352	6,071	6,523
25	Furniture and fixtures . . . . .	476	546	483	466	550	727	919	1,589
26	Paper and allied products . . . . .	4,670	4,322	3,886	4,479	5,676	7,040	8,336	8,631
27	Printing and publishing . . . . .	1,115	1,378	1,250	1,298	1,525	1,882	2,590	3,150
28	Chemicals and allied products . . . . .	21,095	22,249	21,797	22,562	26,090	32,549	36,088	37,806
29	Petroleum and coal products . . . . .	2,849	5,113	5,433	4,228	4,479	3,642	5,176	6,794
30	Rubber and misc. plastics products . . . . .	2,675	2,936	2,765	2,941	3,710	4,986	4,723	6,374
31	Leather and leather products . . . . .	510	526	478	521	688	892	1,124	1,389
32	Stone, clay, and glass products . . . . .	1,922	1,904	1,792	1,723	2,045	3,418	2,522	3,296
33	Primary metal products . . . . .	11,491	5,360	4,747	4,803	5,806	11,362	11,131	13,116
34	Fabricated metal products . . . . .	6,927	6,530	5,765	5,542	6,185	7,258	9,131	11,099
35	Machinery, except electrical . . . . .	38,084	37,268	37,478	36,358	41,054	52,052	56,776	61,229
36	Electric and electronic machinery . . . . .	16,354	20,164	18,908	20,415	24,359	27,571	32,009	39,807
37	Transportation equipment . . . . .	29,206	32,173	38,024	37,877	42,371	50,759	56,664	68,152
38	Instruments and related products . . . . .	7,690	8,684	8,623	9,237	10,191	16,078	18,039	19,524
39	Misc. manufactured commodities . . . . .	2,888	1,895	1,773	2,080	2,719	3,662	4,567	4,296
(X)	<b>Imports for consumption, total</b> <sup>2</sup> . . . . .	<b>239,588</b>	<b>322,989</b>	<b>343,553</b>	<b>368,657</b>	<b>402,066</b>	<b>437,140</b>	<b>468,012</b>	<b>490,554</b>
(X)	Agricultural, forestry and fishery products . . . . .	10,536	12,301	12,805	14,753	14,401	14,149	13,253	12,749
01	Agricultural products . . . . .	6,531	6,936	7,483	8,792	7,444	6,969	6,111	5,925
02	Livestock and livestock products . . . . .	684	977	933	993	999	1,238	1,290	1,453
08	Forestry products . . . . .	984	978	830	786	933	1,235	1,235	1,015
09	Fish, fresh or chilled; and other marine products <sup>3</sup> . . . . .	2,337	3,411	3,559	4,183	5,026	4,708	4,617	4,357
(X)	<b>Mineral commodities</b> . . . . .	<b>70,717</b>	<b>43,500</b>	<b>39,011</b>	<b>27,780</b>	<b>33,615</b>	<b>30,971</b>	<b>41,087</b>	<b>51,392</b>
10	Metallic ores and concentrates . . . . .	2,312	1,636	1,265	1,318	1,130	1,278	1,425	1,500
11,12	Bituminous, lignite and anthracite coal . . . . .	30	44	70	80	56	64	97	93
13	Crude petroleum and natural gas . . . . .	65,857	39,962	35,872	24,463	30,843	27,514	38,664	48,918
14	Nonmetallic minerals, exc. fuels . . . . .	2,517	1,859	1,804	1,919	1,586	2,116	901	881
(X)	<b>Manufactured commodities</b> . . . . .	<b>150,643</b>	<b>257,643</b>	<b>280,089</b>	<b>314,139</b>	<b>341,142</b>	<b>377,893</b>	<b>397,254</b>	<b>407,043</b>
20	Food and kindred products . . . . .	10,381	12,010	12,521	12,821	13,180	13,710	15,121	16,564
21	Tobacco manufactures . . . . .	93	88	78	82	91	86	88	94
22	Textile mill products . . . . .	2,023	3,469	3,616	4,136	4,697	4,458	7,294	6,807
23	Apparel and related products . . . . .	6,543	13,916	15,710	18,171	21,503	22,170	22,843	24,644
24	Lumber and related products . . . . .	3,648	4,838	5,109	5,374	5,959	5,907	5,873	5,446
25	Furniture and fixtures . . . . .	1,083	2,458	3,220	3,997	4,575	4,721	5,148	5,235
26	Paper and allied products . . . . .	5,322	7,431	7,493	7,983	9,461	11,042	11,874	11,669
27	Printing and publishing . . . . .	628	1,070	1,200	1,488	1,583	1,687	1,807	1,849
28	Chemicals and allied products . . . . .	7,003	11,997	12,790	13,281	14,400	20,504	20,431	21,611
29	Petroleum and coal products . . . . .	13,420	21,202	18,282	12,836	13,123	10,418	11,845	14,472
30	Rubber and misc. plastics products . . . . .	2,743	4,365	4,721	5,381	6,331	7,756	9,465	9,731
31	Leather and leather products . . . . .	3,379	6,788	7,724	8,648	9,930	10,952	9,837	10,944
32	Stone, clay, and glass products . . . . .	2,262	3,791	4,296	4,910	5,560	5,973	5,775	5,845
33	Primary metal products . . . . .	18,027	22,117	20,439	22,580	19,254	24,008	25,563	23,232
34	Fabricated metal products . . . . .	4,396	6,804	7,754	8,476	9,562	10,553	11,451	11,608
35	Machinery, except electrical . . . . .	14,222	27,621	31,310	38,234	44,808	53,175	54,176	55,012
36	Electric and electronic machinery . . . . .	15,451	35,326	37,951	42,734	46,566	52,135	55,413	55,744
37	Transportation equipment . . . . .	29,895	54,297	65,944	79,887	84,347	86,398	88,096	89,599
38	Instruments and related products . . . . .	4,692	7,729	8,805	10,646	11,547	15,516	16,344	16,846
39	Misc. manufactured commodities . . . . .	5,430	9,714	11,130	12,776	14,666	16,724	19,812	20,091

X Not applicable. <sup>1</sup> Standard Industrial Classification. <sup>2</sup> Includes scrap and waste, used or secondhand merchandise, and manufactured commodities not identified by kind. <sup>3</sup> Includes frozen and packaged fish.

Source: U.S. Bureau of the Census, 1980-1988, *Highlights of U.S. Export and Import Trade*, series FT 990; beginning 1989, *U.S. Merchandise Trade*, series FT 900.

Figure 30.1  
Selected U.S. Outlying Areas Map.





## Section 30 Outlying Areas

This section presents summary economic and social statistics for Puerto Rico, Virgin Islands, Guam, American Samoa, and the Northern Mariana Islands.

Primary sources are the decennial censuses of population and housing, and the censuses of agriculture, business, manufactures, and construction (taken every five years) conducted by the Bureau of the Census; the annual *Vital Statistics of the United States*, issued by the National Center for Health Statistics; and the annual *Income and Product* of the Puerto Rico Planning Board, San Juan.

**Jurisdiction.**—The United States gained jurisdiction over these areas as follows:

The islands of *Puerto Rico* and *Guam*, surrendered by Spain to the United States in October 1898, were ceded to the United States by the Treaty of Paris, ratified in 1899. Puerto Rico became a Commonwealth on July 25, 1952, thereby achieving a high degree of local autonomy under its own constitution. The *Virgin Islands*, comprising 50 islands and cays, was purchased by the United States from Denmark in 1917. *American Samoa*, a group of 7 islands, was acquired by the United States in accordance with a convention among the United States, Great Britain, and Germany, ratified in 1900 (Swains Island was annexed in 1925).

By an agreement approved by the Security Council and the United States the Northern Mariana Islands, previously under Japanese mandate, was administered by the United States between 1947 and 1986 under the United Nations trusteeship system. The Northern Mariana Islands became a Commonwealth in 1986.

For a brief summary of U.S. territorial development, see table 348.

**Censuses.**—Because characteristics of the outlying areas differ, the presentation of census data for them is not uniform. The 1960 Census of Population covered all of the places listed above except the Northern Mariana Islands (their census was conducted in April 1958 by the Office of the High Commissioner), while the 1960 Census of Housing also excluded American Samoa. The 1970 and 1980 Censuses of Population and Housing covered all five areas. The 1959, 1969, and 1978 Censuses of Agriculture covered Puerto Rico, American Samoa, Guam, and the Virgin Islands; the 1964, 1974, and 1982 censuses covered the same areas except American Samoa; and the 1969, 1978, and 1987 censuses included the Northern Mariana Islands. Beginning in 1967, Congress authorized the economic censuses, to be taken at 5-year intervals, for years ending in "2" and "7". Prior economic censuses were conducted in Puerto Rico for 1949, 1954, 1958, and 1963, and in Guam and the Virgin Islands for 1958 and 1963. In 1967, the census of construction industries was added for the first time in Puerto Rico; in 1972, Virgin Islands and Guam were covered. For 1982 and 1987, the economic censuses covered the Northern Mariana Islands.

**Information in other sections.**—In addition to the statistics presented in this section, other data are included as integral parts of many tables showing distribution by States in various sections of the *Abstract*. See "Outlying areas of the United States" in the index. For definition and explanation of terms used, see section 1, Population; section 4, Education; section 23, Agriculture; section 26, Construction and Housing; section 27, Manufactures; and section 28, Domestic Trade and Services.

### No. 1412. Estimated Resident Population, by Area: 1950 to 1988

[In thousands. As of July 1. Includes estimates of Armed Forces stationed in area]

AREA	1950	1960	1970	1975	1980	1985	1986	1987	1988
Puerto Rico . . . . .	2,218	2,362	2,716	2,933	3,208	3,282	3,273	3,292	3,291
American Samoa . . . . .	19	20	27	30	32	36	37	38	40
Guam . . . . .	60	66	86	102	107	124	127	130	133
Virgin Islands . . . . .	27	32	63	94	98	111	110	106	103
Northern Mariana Islands <sup>1</sup> . . . . .	(NA)	(NA)	12	15	17	19	20	20	21

NA Not available. <sup>1</sup> Data consistent with apportionment census of September 1973 which showed a total population of 14,333 for the Marianas.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-25, Nos. 80, 336, 943, and 1049.

### No. 1413. Estimates of Components of Population Change, by Area: 1970 to 1980 and 1980 to 1988

[In thousands, except percent. Resident population, including Armed Forces stationed in area. See table 1414 for population totals. Minus sign (-) indicates decrease. For explanation of methodology, see source]

AREA	APRIL 1, 1970 to APRIL 1, 1980					APRIL 1, 1980 to JULY 1, 1988				
	Net change		Births	Deaths	Net migration	Net change		Births	Deaths	Net migration
	Number	Percent				Number	Percent			
Puerto Rico .....	484.5	17.9	744.0	193.7	-65.9	95.0	3.0	546	185	-267.0
American Samoa .....	5.1	18.9	10.6	1.4	-4.1	7.2	22.4	11.2	1.3	-2.7
Guam .....	21.0	24.7	30.7	4.1	-5.7	27.0	25.5	25.9	3.7	4.9
Virgin Islands .....	34.1	54.6	26.6	5.0	12.5	6.6	6.9	20.1	4.4	-9
Northern Mariana Islands <sup>2</sup> ..	4.6	37.5	5.3	0.9	( <sup>3</sup> )	4.4	26.1	5.9	0.9	( <sup>3</sup> )

<sup>1</sup> Includes error of closure (the amount necessary to make the components of change add to the net change between censuses). <sup>2</sup> See footnote 1, table 1412. Migration is derived as a residual. Because part of the residual migration in these areas reflects under-registration of vital statistics, migration figures are not shown.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-25, Nos. 943 and 1049.

### No. 1414. Population and Median Age, by Area and Sex: 1960 to 1980

[As of April 1. For definition of median, see Guide to Tabular Presentation]

AREA AND SEX	POPULATION (1,000)			MEDIAN AGE (years)			AREA AND SEX	POPULATION (1,000)			MEDIAN AGE (years)		
	1960	1970	1980	1960	1970	1980		1960	1970	1980	1960	1970	1980
Puerto Rico .....	2,349.5	2,712.0	3,196.5	18.5	21.6	24.6	Guam .....	67.0	85.0	106.0	20.8	20.4	22.3
Male .....	1,162.8	1,329.9	1,556.7	18.0	20.9	23.7	Male .....	39.2	47.3	55.3	22.9	21.6	22.4
Female .....	1,186.8	1,382.2	1,639.8	18.9	22.2	25.5	Female .....	27.8	37.7	50.7	18.5	18.2	22.1
American Samoa .....	20.1	27.2	32.3	15.2	16.1	18.8	Virgin Islands .....	32.1	62.5	96.6	20.7	23.0	22.5
Male .....	10.2	13.7	16.4	14.6	16.1	18.4	Male .....	15.9	31.3	46.2	20.3	23.1	21.1
Female .....	9.9	13.6	15.9	15.8	16.1	19.2	Female .....	16.2	31.3	50.4	21.2	23.0	23.6
							No. Mariana Is. .....	(NA)	9.6	16.8	(NA)	15.2	19.7
							Male .....	(NA)	4.9	8.8	(NA)	15.4	20.9
							Female .....	(NA)	4.7	8.0	(NA)	15.0	18.5

NA Not available.

Source: U.S. Bureau of the Census, *Census of Population: 1960*, vol. 1; *1970 Vol. 1, Characteristics of the Population*, parts 53-58; and *1980, Vol. 1, Chapter B, Characteristics of the Population*, parts 53-57a.

### No. 1415. Population, by Place of Birth and Year of Immigration—Area: 1980

[As of April 1]

ITEM	Guam	Virgin Islands	American Samoa	Northern Mariana Islands
<b>Total resident population <sup>1</sup></b> .....	<b>105,979</b>	<b>96,569</b>	<b>32,297</b>	<b>16,780</b>
Born in this area .....	52,113	43,234	18,586	11,993
Percent of total .....	49.2	44.8	57.5	71.5
Born in the United States .....	22,950	11,964	2,189	553
Born in other outlying areas .....	3,552	4,993	24	2,074
Born in Asia .....	22,648	549	268	1,915
Born outside this area .....	50,595	<sup>2</sup> 30,731	13,442	4,623
Immigrated:				
1975-1980 .....	32,159	7,080	7,168	2,916
1970-1974 .....	8,782	7,054	2,715	1,027
1960-1969 .....	6,342	13,566	2,405	398
Before 1960 .....	3,312	3,031	1,154	282

<sup>1</sup> Includes persons born elsewhere and place of birth not reported. <sup>2</sup> Excludes 4,993 persons born in Puerto Rico; 11,964 born in the United States; and 282 born abroad of American parents.

Source: U.S. Bureau of the Census, *1980 Census of Population*, vol. 1, chapters C and D, parts 54-57a.

**No. 1416. Land Area and Population Characteristics, by Area: 1980**

(As of April 1. See also table 348, for gross area (land and water). For definition of median, see Guide to Tabular Presentation)

ITEM	Puerto Rico	Guam	Virgin Islands	American Samoa	Northern Mariana Islands
Land area (sq. miles)	3,459	209	132	77	184
<b>Total resident population</b>	<b>3,196,520</b>	<b>105,979</b>	<b>96,569</b>	<b>32,297</b>	<b>16,780</b>
Per square mile	924.1	507.1	731.6	419.4	91.2
Percent increase, 1970-1980	17.9	24.7	54.6	18.9	74.1
Urban	2,134,365	41,875	37,730	5,660	2,678
Rural	1,062,155	64,104	58,839	26,637	14,102
Male	1,556,727	55,321	46,204	16,384	8,817
Female	1,639,793	50,658	50,365	15,913	7,963
Males per 100 females	94.9	109.2	91.7	103.0	110.7
Median age (years)	24.6	22.3	22.5	18.8	19.7
Male (years)	23.7	22.4	21.1	18.4	20.9
Female (years)	25.5	22.1	23.6	19.2	18.5
<b>Persons 25 years old and over</b>	<b>1,577,682</b>	<b>46,906</b>	<b>44,986</b>	<b>12,184</b>	<b>6,760</b>
School years completed:					
Elementary: 0-8 years	753,742	9,973	15,997	4,360	2,886
High school:					
1-3 years	200,269	6,157	6,475	2,697	851
4 years or more	332,770	14,653	11,543	3,108	1,543
College	290,901	16,123	10,971	2,019	1,480
<b>Marital status, persons 15 years old and over</b>	<b>2,187,246</b>	<b>69,007</b>	<b>61,791</b>	<b>19,090</b>	<b>9,975</b>
Single	613,024	20,675	22,376	7,406	3,462
Married	1,320,193	44,041	32,204	10,571	5,977
Widowed or divorced	254,029	4,291	7,211	1,113	536
<b>Households and families:</b>					
Population in households	3,176,511	101,000	95,949	31,963	16,234
Number of households	636,565	24,834	28,329	4,513	3,028
Population per household	5.0	4.1	3.4	7.1	5.4
Families	753,936	21,780	20,855	4,287	2,652
Husband-wife families	580,326	18,473	13,612	3,475	2,113

<sup>1</sup> Includes consensually married couples and separated couples.Source: U.S. Bureau of the Census, *1980 Census of Population*, vol. 1, chapters C and D, pts. 53-57a and unpublished data.**No. 1417. Vital Statistics—Specified Areas: 1960 to 1988**

(Births, deaths, and infant deaths by place of residence; marriages and divorces by place of occurrence. Rates for 1960, 1970, and 1980 based on population enumerated as of April 1; for all other years, on population estimated as of July 1)

AREA AND YEAR	BIRTHS		DEATHS		INFANT DEATHS		MARRIAGES		DIVORCES <sup>3</sup>	
	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
<b>Puerto Rico:</b>										
1960	76,914	32.5	15,791	6.7	3,307	43.3	*20,212	*6.6	5,218	2.2
1970	67,628	24.8	18,080	6.7	1,930	28.6	29,905	11.0	9,688	3.6
1980	72,986	22.8	20,413	6.4	1,351	18.5	33,167	10.4	15,276	4.8
1981	71,300	21.9	21,085	6.5	1,318	18.5	31,892	9.8	14,247	4.4
1982	69,256	21.2	21,427	6.6	1,187	17.1	30,799	9.4	14,084	4.3
1983	65,659	20.1	21,377	6.5	1,131	17.2	29,487	9.0	13,164	4.0
1984	63,247	19.3	21,618	6.6	987	15.6	29,499	9.0	13,698	4.2
1985	63,547	19.4	23,071	7.0	944	14.9	30,355	9.2	14,686	4.5
1986	63,479	19.4	23,182	7.1	869	13.7	32,339	9.9	13,563	4.1
1987	64,331	19.5	23,829	7.2	916	14.2	33,285	10.1	14,165	4.3
1988	63,991	19.4	24,940	7.6	801	12.5	(NA)	(NA)	(NA)	(NA)
<b>Guam:</b>										
1965	2,523	32.8	336	4.4	82	32.5	471	6.2	53	0.7
1970	2,842	28.8	355	5.8	62	21.6	874	9.9	84	1.0
1980	2,945	27.8	393	3.7	43	14.6	(NA)	(NA)	(NA)	(NA)
1981	2,949	26.8	385	3.5	30	10.2	(NA)	(NA)	(NA)	(NA)
1982	2,954	26.7	428	3.9	29	9.8	(NA)	(NA)	(NA)	(NA)
1983	3,152	27.1	442	3.8	29	9.2	(NA)	(NA)	(NA)	(NA)
1984	2,994	25.0	409	3.4	26	8.7	(NA)	(NA)	(NA)	(NA)
1985	3,049	24.6	415	3.4	35	11.5	(NA)	(NA)	(NA)	(NA)
1986	3,276	25.8	429	3.4	29	8.9	(NA)	(NA)	(NA)	(NA)
1987	3,330	25.5	472	3.6	25	7.5	(NA)	(NA)	(NA)	(NA)
1988	3,509	26.4	464	3.5	27	7.7	(NA)	(NA)	(NA)	(NA)
<b>Virgin Islands:</b>										
1960	1,180	36.8	332	10.3	42	35.6	359	11.1	135	4.2
1970	2,898	46.8	469	7.9	72	24.6	1,149	18.4	270	4.3
1980	2,504	25.9	504	5.2	61	24.4	1,112	11.5	478	4.9
1981	2,442	24.6	547	5.5	55	22.5	1,092	11.0	408	4.1
1982	2,509	24.7	498	4.9	49	19.5	1,311	12.9	335	3.3
1983	2,584	24.9	484	4.7	54	20.9	1,341	12.9	313	3.0
1984	2,432	22.6	471	4.4	55	22.6	1,407	13.1	352	3.3
1985	2,375	21.4	506	4.6	42	17.7	1,448	13.1	363	3.3
1986	2,257	20.6	476	4.3	28	12.4	1,804	16.5	314	2.9
1987	2,322	21.9	527	5.0	46	19.8	1,902	17.9	258	2.4
1988	2,216	21.5	501	4.9	29	13.1	(NA)	(NA)	(NA)	(NA)

NA Not available. <sup>1</sup> Per 1,000 population. <sup>2</sup> Per 1,000 live births. <sup>3</sup> Includes reported annulments. <sup>4</sup> Data are incomplete.Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual.

### No. 1418. Employment Status, 1980, and Percent Distribution by Family Income Class, 1979, by Area

ITEM	Puerto Rico <sup>1</sup>	Guam	Virgin Islands	American Samoa	Northern Mariana Islands
<b>EMPLOYMENT STATUS, 1980</b>					
Total persons, 16 years old and over	2,114,673	66,773	59,310	18,319	9,599
In labor force	869,856	44,484	38,082	8,329	6,102
Percent of total	41.1	66.6	64.2	45.5	63.6
Armed Forces	4,137	10,125	84	21	13
Civilian labor force	865,719	34,359	37,998	8,308	6,089
Employed	733,922	32,692	35,652	8,106	5,941
Unemployed	131,797	1,667	2,346	202	148
Percent of civilian labor force	15.2	4.9	6.2	2.4	2.4
Not in labor force	1,244,817	22,289	21,228	9,990	3,497
<b>FAMILY INCOME, 1979</b>					
Families, 1980	757,645	21,780	20,855	4,287	2,652
Percent distribution, by income class	100.0	100.0	100.0	100.0	100.0
Less than \$1,000	11.3	2.1	3.2	6.1	4.4
\$1,000-\$2,499	12.4	1.7	3.4	4.3	5.9
\$2,500-\$4,999	19.7	3.7	7.8	14.2	17.8
\$5,000-\$7,499	17.5	6.6	14.3	16.8	16.1
\$7,500-\$9,999	10.9	9.8	12.4	12.9	13.7
\$10,000-\$14,999	13.3	21.1	19.8	18.4	16.9
\$15,000-\$24,999	10.3	28.4	22.3	16.7	14.7
\$25,000 or more	4.6	26.6	16.7	10.7	10.4
Median income <sup>2</sup> (dol.)	5,923	16,203	11,914	9,615	8,809

<sup>1</sup> Data based on sample and subject to sampling variability, see Appendix III. <sup>2</sup> For definition of median, see Guide to Tabular Presentation. <sup>3</sup> Excludes those with no income.

Source: U.S. Bureau of the Census, 1980 Census of Population, vol. 1, chapters C and D, pts. 53-57a and unpublished data.

### No. 1419. Public Elementary and Secondary Schools, by Areas: 1988

[For school year ending in year shown, unless otherwise indicated]

ITEM	Puerto Rico	Guam	Virgin Islands	American Samoa	ITEM	Puerto Rico	Guam	Virgin Islands	American Samoa
Enrollment, fall	672,837	25,936	24,020	11,248	Staff, fall 1986	62,322	2,778	3,322	1,255
Elementary					School district staff	1,961	8	405	92
(kindergarten-grade 8)	498,853	18,713	17,131	8,313	School staff	39,550	1,725	2,267	834
Secondary (grades 9-12 and post graduates)	173,984	7,223	6,889	2,935	Teachers	33,357	1,403	1,597	674
					Other support services staff	20,811	1,045	650	329
Average daily attendance	621,731	23,172	22,103	10,579	Current expenditures <sup>1</sup> (\$1,000)	935,392	76,359	89,217	20,186
Percent of enrollment	92.4	89.3	92.0	94.1	Per pupil <sup>2</sup> (dol.)	1,504	3,295	4,036	1,908

<sup>1</sup> Public elementary and secondary day schools. <sup>2</sup> Annual expenditures per pupil in average daily attendance.

Source: U.S. National Center for Education Statistics, unpublished data.

### No. 1420. Federal Direct Payments for Individuals, by Selected Program and Outlying Area: 1988 and 1989

[In thousands of dollars. For fiscal years ending September 30]

PROGRAM PAYMENTS	1988				1989			
	Puerto Rico	Guam	Virgin Islands	American Samoa	Puerto Rico	Guam	Virgin Islands	American Samoa
Total	2,906,940	71,083	78,683	11,604	3,196,033	79,742	84,759	13,264
Pell Grants	214,210	1,200	349	94	251,106	1,371	506	220
Medicare: Hospital Insurance	142,476	1,733	3,793	-	156,718	1,906	4,172	-
Supplemental medical insurance	159,394	1,694	2,831	-	175,104	1,861	3,110	-
Social Security: Disability insurance	520,649	1,674	5,014	1,818	537,588	1,920	5,467	2,032
Retirement insurance	938,310	8,606	29,061	3,424	1,001,509	9,697	30,654	3,919
Survivors insurance	393,489	5,256	9,563	3,052	426,667	5,873	10,339	3,437
Veterans: Pension and disability	257,415	3,043	1,373	1,145	269,523	3,303	1,960	1,223
Education assistance	4,342	388	30	152	3,247	306	38	88
Federal retirement and disability	144,967	26,951	8,018	1,819	156,824	30,501	9,632	1,535
Food Stamps	876,959	15,288	14,915	-	900,688	16,640	12,744	-
Other	131,688	5,250	3,736	100	217,747	6,364	6,137	810

- Represents or rounds to zero. <sup>1</sup> Food stamp program in Puerto Rico was replaced by the Nutritional Assistance Grant Program. Figures shown represent grants to State and local governments, not included in totals.

Source: U.S. Bureau of the Census, Federal Expenditures by State for Fiscal Year, annual.



## No. 1421. Puerto Rico—Summary: 1970 to 1989

ITEM	Unit	1970	1980	1983	1984	1985	1986	1987	1988	1989
<b>POPULATION</b>										
Total <sup>1</sup>	1,000 . . . .	2,722	3,184	3,264	3,267	3,276	3,279	3,285	3,293	3,309
Persons per family . . . . .	Number . . . .	4.6	4.3	4.3	4.1	4.1	4.1	4.1	4.0	4.0
<b>EDUCATION</b> <sup>2</sup>										
Enrollment, total. . . . .	1,000 . . . .	925.8	1,092.1	1,133.3	1,102.9	1,126.1	1,113.4	1,109.0	(NA)	(NA)
Public day school . . . . .	1,000 . . . .	672.3	712.9	709.9	692.9	686.9	679.5	672.0	661.6	651.2
Other public . . . . .	1,000 . . . .	103.9	149.5	180.5	152.0	152.0	153.7	152.1	156.3	(NA)
Private schools . . . . .	1,000 . . . .	92.3	94.5	102.7	102.3	130.4	121.6	129.2	(NA)	(NA)
College and university . . . .	1,000 . . . .	57.3	135.2	160.2	155.7	156.8	158.6	155.7	156.9	(NA)
Expenses . . . . .	Mil. dol . . . .	288.8	825.0	1,043.0	1,117.0	1,171.8	1,212.9	1,282.3	1,401.6	1,498.9
As percent of GNP . . . . .	Percent . . . .	6.2	7.5	8.0	7.9	7.8	7.6	7.4	7.5	7.5
Public . . . . .	Mil. dol . . . .	254.6	612.2	737.9	782.2	810.2	814.4	847.9	932.7	1,002.6
Private . . . . .	Mil. dol . . . .	34.2	212.8	305.1	334.8	361.6	398.5	434.4	468.9	496.3
<b>LABOR FORCE</b> <sup>3</sup>										
Total <sup>4</sup>	1,000 . . . .	765	907	919	952	964	977	1,013	1,039	1,060
Employed <sup>5</sup>	1,000 . . . .	686	753	703	743	758	777	834	873	907
Agriculture <sup>6</sup>	1,000 . . . .	68	38	36	40	38	40	35	31	35
Manufacturing . . . . .	1,000 . . . .	132	143	131	142	138	140	152	157	158
Trade . . . . .	1,000 . . . .	128	138	136	145	147	149	159	173	178
Government . . . . .	1,000 . . . .	106	184	170	177	180	180	197	201	209
Unemployed. . . . .	1,000 . . . .	79	154	216	209	206	200	179	166	153
Unemployment rate <sup>7</sup>	Rate . . . . .	10	17	23	22	21	20	18	16	14
Compensation of employees . . .	Mil. dol . . . .	2,800.2	7,200.0	8,177.9	8,891.3	9,441.8	9,929.0	10,680.5	11,739.4	12,694.9
Avg. compensation . . . . .	Dollar . . . .	4,082	9,563	11,633	11,967	12,456	12,779	12,806	13,447	13,997
Salary and wages . . . . .	Mil. dol . . . .	2,554.5	6,290.2	7,040.5	7,665.5	8,136.5	8,495.7	9,182.1	10,059.3	10,869.4
<b>INCOME</b> <sup>8</sup>										
Personal income:										
Current dollars . . . . .	Mil. dol . . . .	3,753	11,002	12,800	13,585	14,593	15,331	16,334	17,617	18,705
Constant (1954) dollars . . . .	Mil. dol . . . .	2,654	3,985	3,882	4,081	4,276	4,430	4,676	4,906	5,020
Disposable personal income:										
Current dollars . . . . .	Mil. dol . . . .	3,565	10,403	12,041	12,824	13,765	14,274	15,289	16,390	17,425
Constant (1954) dollars . . . .	Mil. dol . . . .	2,521	3,768	3,652	3,852	4,033	4,124	4,377	4,564	4,678
Average family income:										
Current dollars . . . . .	Dollar . . . .	6,366	14,858	16,470	17,048	18,263	19,169	20,386	21,399	22,611
Constant (1954) dollars . . . .	Dollar . . . .	4,503	5,381	4,995	5,121	5,351	5,539	5,836	6,108	6,220
<b>BANKING</b> <sup>9</sup>										
Assets . . . . .	Mil. dol . . . .	3,322	10,223	18,435	19,968	21,209	22,534	26,101	24,660	27,179
Debts . . . . .	Mil. dol . . . .	2,548	13,399	24,098	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Personal checking . . . . .	Mil. dol . . . .	1,999	11,206	21,917	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Personal savings . . . . .	Mil. dol . . . .	94	423	759	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Government savings . . . . .	Mil. dol . . . .	454	1,770	1,422	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
<b>TOURISM</b> <sup>8</sup>										
Number of visitors . . . . .	1,000 . . . .	1,088.4	1,638.8	1,594.9	1,582.7	1,642.3	1,695.6	2,034.9	2,280.5	2,449.8
Visitor expenditures . . . . .	Mil. dol . . . .	235.4	618.7	715.9	712.4	757.7	792.6	955.4	1,112.3	1,234.6
Average per visitor . . . . .	Dollar . . . .	216	378	449	450	461	467	470	488	504
Net income from tourism . . . .	Mil. dol . . . .	89.8	202.2	201.4	205.1	223.1	239.3	285.8	329.2	381.1

NA Not available. <sup>1</sup> 1970, and 1980 enumerated as of April 1; all other years estimated as of July 1. <sup>2</sup> Enrollment for the first school month. Expenses for school year ending in year shown. <sup>3</sup> Annual average of monthly figures. For fiscal years. <sup>4</sup> Beginning 1980, for population 16 years old and over; 1970, for population 14 years and over. <sup>5</sup> Includes other employment, not shown separately. <sup>6</sup> Includes forestry and fisheries. <sup>7</sup> Percent unemployed of the labor force. <sup>8</sup> For fiscal years. <sup>9</sup> As of June 30.

Source: Puerto Rico Planning Board, San Juan, PR, *Income and Product*, annual, and *Socioeconomics Statistics*, annual.

## No. 1422. Puerto Rico—Employment Status, 1970 to 1989, and by Sex, 1989

[In thousands of persons 14 years old and over except, beginning 1980, 16 years old and over. Annual averages for calendar years of the civilian noninstitutional population]

EMPLOYMENT STATUS	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989 <sup>1</sup>		
										Total	Male	Female
In the labor force . . . . .	777	916	912	942	958	969	998	1,019	1,058	1,063	664	398
Employed . . . . .	893	758	704	722	759	758	809	848	900	907	551	356
Working . . . . .	657	712	664	683	719	710	768	804	848	858	526	333
35 hours or more . . . . .	569	535	470	498	521	508	579	570	614	651	413	238
Less than 35 hours . . . . .	88	177	194	185	198	203	189	235	234	207	112	95
Not working. . . . .	35	48	40	39	40	47	41	44	52	49	26	23
Unemployed . . . . .	84	156	208	220	198	211	188	171	158	155	112	43
Percent . . . . .	10.7	17.0	22.8	23.4	20.7	21.8	18.9	16.8	15.0	14.6	16.9	10.8
Not in labor force . . . . .	966	1,200	1,303	1,309	1,315	1,324	1,305	1,291	1,263	1,277	417	860

<sup>1</sup> Preliminary.

Source: Puerto Rico Dept. of Labor and Human Resources, Bureau of Labor Statistics, San Juan, PR.

**No. 1423. Puerto Rico—Gross Product, by Major Industrial Sector: 1971 to 1989**  
 (In millions of dollars. For fiscal years ending June 30)

ITEM	1971	1975	1980	1983	1984	1985	1986	1987	1988	1989
<b>Gross product . . . . .</b>	<b>5,248</b>	<b>7,175</b>	<b>11,065</b>	<b>13,048</b>	<b>14,183</b>	<b>15,002</b>	<b>16,054</b>	<b>17,301</b>	<b>18,681</b>	<b>20,051</b>
Agriculture . . . . .	177	271	380	391	345	357	373	411	400	429
Manufacturing . . . . .	1,334	2,371	5,306	6,406	7,371	7,909	8,549	9,483	10,475	11,032
Contract construction and mining . . . . .	485	462	369	301	326	334	331	418	511	602
Transportation . . . . .	482	767	1,279	1,600	1,714	1,709	1,905	2,044	2,194	2,271
Trade . . . . .	987	1,377	2,273	2,570	2,912	3,159	3,360	3,745	4,038	4,354
Finance, insurance, real estate . . . . .	674	975	1,486	2,230	2,421	2,547	2,867	3,183	3,485	3,607
Services . . . . .	552	805	1,279	1,576	1,714	1,837	1,993	2,184	2,458	2,696
Government . . . . .	736	1,334	1,897	2,040	2,173	2,346	2,445	2,679	2,918	3,115
Commonwealth . . . . .	656	1,145	1,574	1,734	1,849	1,996	2,078	2,292	2,506	2,699
Municipalities . . . . .	80	189	323	306	324	350	367	387	412	416
Rest of the world . . . . .	-398	-1,024	-3,372	-4,228	-4,980	-5,287	-5,955	-6,725	-7,704	-8,110
Statistical discrepancy . . . . .	222	-163	166	162	187	91	187	-122	-94	55

<sup>1</sup> Mining includes only quarries. <sup>2</sup> Includes other public utilities.

Source: Puerto Rico Planning Board, San Juan, PR, *Economic Report of the Governor, 1988-89*.

**No. 1424. Puerto Rico—Economic Summary, by Industry: 1988**

[Excludes employees of establishments totally exempt from the Federal Insurance Contributions Act: government workers, railroad employment jointly covered by Social Security and railroad retirement programs, self-employed persons, domestic service, agriculture production employees, and employees on oceanborne vessels or in foreign countries]

1987 SIC code <sup>1</sup>	INDUSTRY	Total establishments	Employment-size class					Em- ploy- ees <sup>2</sup>	Annual payroll (Mil. dol.)
			1 to 4	5 to 9	10 to 19	20 to 49	50 or more		
A	Agricultural services, forestry, and fishing . . . . .	68	40	18	6	4	-	370	2.9
B	Mining . . . . .	33	7	8	5	12	1	626	7.9
14	Nonmetallic minerals, except fuels . . . . .	26	3	8	5	10	-	441	5.2
C	Construction . . . . .	926	335	148	136	142	165	31,586	297.5
15	General contractors and operative builders . . . . .	393	110	66	50	68	99	19,546	171.7
17	Special trade contractors . . . . .	454	210	70	70	58	46	8,722	84.3
D	Manufacturing . . . . .	1,807	417	219	274	323	574	145,714	2,039.5
20	Food and kindred products . . . . .	255	70	45	46	36	58	19,404	280.4
23	Apparel and other textile products . . . . .	256	45	13	24	45	129	32,514	256.2
25	Furniture and fixtures . . . . .	116	37	13	26	33	7	2,406	20.4
27	Printing and publishing . . . . .	149	65	31	26	18	9	3,733	49.5
28	Chemicals and allied products . . . . .	173	23	15	26	25	84	21,467	482.0
32	Stone, clay, and glass products . . . . .	126	35	24	24	33	10	3,863	57.3
34	Fabricated metal products . . . . .	117	25	23	19	24	26	3,852	53.2
36	Electronic and other electronic equipment . . . . .	115	12	5	5	17	76	18,541	264.2
E	Transportation and public utilities . . . . .	741	369	152	92	72	56	22,950	401.6
42	Trucking and warehousing . . . . .	251	140	53	28	24	6	2,250	22.7
47	Transportation services . . . . .	219	150	38	13	11	7	1,734	23.5
F	Wholesale trade . . . . .	1,916	794	338	362	275	147	32,356	522.1
50	Durable goods . . . . .	960	384	185	203	128	60	14,302	231.7
51	Non durable goods . . . . .	941	408	151	156	142	84	17,470	278.1
G	Retail trade . . . . .	9,301	5,389	1,822	1,062	717	311	94,492	817.4
54	Food stores . . . . .	1,288	775	192	119	97	105	18,938	139.2
55	Automotive dealers and service stations . . . . .	1,487	977	309	128	56	17	8,742	92.3
56	Apparel and accessory stores . . . . .	1,194	552	293	232	96	21	11,453	95.6
58	Eating and drinking places . . . . .	1,634	898	263	206	213	54	17,845	123.3
H	Finance, insurance, and real estate . . . . .	1,621	767	279	308	183	84	33,175	529.5
60	Depository institutions . . . . .	249	26	28	126	51	18	11,320	178.2
61	Nondepository institutions . . . . .	409	125	101	98	63	22	8,806	124.1
64	Insurance agents, brokers, and service . . . . .	206	108	38	28	15	17	3,576	57.7
65	Real estate . . . . .	637	471	92	43	23	8	4,098	48.5
I	Services . . . . .	7,129	4,773	937	618	437	364	103,031	1,061.6
72	Personal services . . . . .	524	364	88	50	16	6	2,793	23.3
73	Business services . . . . .	668	337	102	76	76	97	21,514	204.6
75	Auto repair, services, and parking . . . . .	523	369	87	37	25	5	2,957	26.1
80	Health services . . . . .	2,424	1,954	267	92	52	59	23,063	234.8
81	Legal services . . . . .	729	612	41	57	12	7	2,903	44.5
87	Engineering and management services . . . . .	507	294	87	65	37	24	5,318	74.4

- Represents or rounds to zero. <sup>1</sup> 1987 Standard Industrial Classification (SIC) code; see text, section 13. <sup>2</sup> For the pay period including March 12. <sup>3</sup> Includes other establishments, not shown separately.

Source: U.S. Bureau of the Census, *County Business Patterns, 1988*.

**No. 1425. Puerto Rico—Wholesale and Retail Trade Summary: 1987**

(For establishments with payroll)

1987 SIC <sup>1</sup> code	TYPE OF OPERATION AND KIND OF BUSINESS	Establish- ments	Sales (\$1,000)	Annual payroll (\$1,000)	Paid employees <sup>2</sup>
(X)	<b>Wholesale trade</b> . . . . .	<b>2,596</b>	<b>9,591,048</b>	<b>546,807</b>	<b>37,655</b>
50	Durable goods . . . . .	1,301	3,582,760	246,804	16,178
501	Motor vehicles, parts, and supplies . . . . .	157	771,669	31,765	2,239
502	Furniture and home furnishings . . . . .	60	153,960	9,167	729
503	Lumber and construction materials . . . . .	122	280,295	14,650	1,326
504	Professional and commercial equip. . . . .	257	658,879	68,126	3,748
505	Metals and minerals, except petroleum . . . . .	30	139,550	3,280	268
506	Electrical goods . . . . .	168	453,224	37,906	1,843
507	Hardware, plumbing, and heating equip. . . . .	129	262,468	18,357	1,409
508	Machinery, equipment, and supplies . . . . .	273	685,970	52,868	3,641
509	Miscellaneous durable goods . . . . .	105	176,745	10,685	975
51	Nondurable goods . . . . .	1,295	6,008,288	300,003	21,477
511	Paper and paper products . . . . .	58	218,254	14,818	769
512	Drugs, proprietaries, and sundries . . . . .	122	821,309	75,297	3,648
513	Apparel, piece goods, and notions . . . . .	168	216,877	15,567	1,408
514	Groceries and related products . . . . .	410	2,286,339	93,987	8,308
515	Farm-product raw materials . . . . .	17	52,271	3,375	215
516	Chemicals and allied products . . . . .	98	171,224	14,082	950
517	Petroleum and petroleum products . . . . .	95	855,161	18,129	907
518	Beer, wine, and distilled beverages . . . . .	36	615,707	24,036	1,292
519	Miscellaneous nondurable goods . . . . .	291	771,146	40,712	3,982
(X)	<b>Retail trade</b> . . . . .	<b>11,451</b>	<b>8,143,608</b>	<b>704,083</b>	<b>88,530</b>
52	Building materials and garden supplies . . . . .	766	507,780	43,890	4,866
525	Hardware stores . . . . .	541	309,234	27,737	3,139
53	General merchandise stores . . . . .	342	878,167	100,920	11,222
54	Food stores . . . . .	1,696	1,965,601	123,911	17,265
541	Grocery stores . . . . .	1,249	1,843,471	11,436	15,114
55 exc.	Automotive dealers, exc. gasoline service stations . . . . .	867	1,239,237	65,932	6,244
553	Auto and home supply stores . . . . .	551	249,557	24,729	2,915
554	Gasoline service stations . . . . .	984	559,198	22,910	3,244
56	Apparel and accessory stores . . . . .	1,704	817,040	96,017	13,166
57	Furniture and home furnishings stores . . . . .	802	445,021	39,718	4,470
571	Furniture and home furnishings stores . . . . .	598	341,317	31,256	3,564
572	Household and appliance stores . . . . .	80	35,878	3,337	385
573	Radio, television, and computer stores . . . . .	124	67,826	5,125	521
58	Eating and drinking places . . . . .	2,007	795,052	106,480	15,509
5812	Eating places . . . . .	1,907	774,778	104,194	15,146
5813	Drinking places . . . . .	100	20,274	2,286	363
591	Drug stores and proprietary stores . . . . .	711	389,332	40,377	4,641
59 exc.	Miscellaneous retail . . . . .	1,572	547,180	63,928	7,903

X Not applicable. <sup>1</sup> 1987 Standard Industrial Classification Code (SIC); see text, section 13. <sup>2</sup> For the week including March 12.

Source: U.S. Bureau of the Census, 1987 *Economic Censuses of Outlying Areas, Puerto Rico*, series OA87-E-1.

**No. 1426. Puerto Rico—Service Industries Summary: 1987**

(For establishments with payroll)

1987 SIC <sup>1</sup> code	KIND OF BUSINESS	Establish- ments	Receipts (\$1,000)	Annual pay- roll (\$1,000)	Paid employees <sup>2</sup>
(X)	<b>Service industries</b> . . . . .	<b>4,774</b>	<b>1,939,234</b>	<b>545,481</b>	<b>50,757</b>
472	Passenger transportation arrangement . . . . .	210	59,511	8,265	715
4724	Travel agencies . . . . .	200	53,966	7,154	815
70 exc. 702, 704	Hotels and other lodging places . . . . .	199	327,491	96,150	7,660
701	Hotel and motels . . . . .	135	327,200	96,090	7,646
72	Personal services <sup>3</sup> . . . . .	733	108,195	28,422	3,665
721	Laundry, cleaning, and garment services . . . . .	197	33,294	10,828	2,483
723	Beauty shops . . . . .	287	26,752	8,338	1,138
724	Barber shops . . . . .	30	1,372	512	95
73	Business services . . . . .	874	624,219	218,873	24,788
731	Advertising . . . . .	112	98,851	23,705	1,425
732	Credit reporting and collection . . . . .	36	23,848	6,215	504
733	Mailing, reproduction, stenographic . . . . .	41	14,225	2,392	191
734	Services to buildings . . . . .	127	57,717	24,535	3,456
735	Miscellaneous equipment rental and leasin. . . . .	143	86,431	18,784	1,342
736	Personnel supply services . . . . .	67	88,570	49,909	5,523
737	Computer and data processing services . . . . .	78	27,166	9,684	679
738	Miscellaneous business services . . . . .	270	227,411	83,649	11,668
75	Auto repair, services, and parking . . . . .	665	152,264	21,212	2,654
753	Automotive repair shops . . . . .	542	71,637	13,125	1,689
76	Miscellaneous repair shops . . . . .	279	88,620	15,914	1,558
78	Motion pictures . . . . .	97	41,603	6,074	563
784	Video tape rental . . . . .	58	5,005	1,027	143
79	Amusement and recreation services . . . . .	307	174,261	42,892	1,694
8072	Dental laboratories . . . . .	23	3,299	1,011	117
81	Legal services . . . . .	948	142,030	41,826	2,475
87 exc.	Engineering and management services . . . . .	499	217,741	64,842	4,868
871	Engineering and architectural services . . . . .	295	107,584	28,559	2,076

X Not applicable. <sup>1</sup> 1987 Standard Industrial Classification Code (SIC); see text, section 13. <sup>2</sup> For the week including March 12. <sup>3</sup> Includes other industries, not shown separately.

Source: U.S. Bureau of the Census, 1987 *Economic Censuses of Outlying Areas, Puerto Rico*, series OA87-E-1.

**No. 1427. Puerto Rico—Manufactures, by Industry: 1982 and 1987**

[Money figures in millions of dollars. For employer establishments only]

INDUSTRY <sup>1</sup>	1982			1987						
	Estab- lish- ments	All em- ploy- ees <sup>2</sup>	Value added by manu- facture <sup>3</sup>	Estab- lish- ments	All employees		Production workers <sup>4</sup>		Value added by manu- facture <sup>3</sup>	Value of ship- ments <sup>5</sup>
					Num- ber <sup>2</sup>	Payroll	Num- ber <sup>2</sup>	Wages		
<b>All Industries</b> .....	<b>2,285</b>	<b>143,218</b>	<b>8,605.6</b>	<b>2,328</b>	<b>149,968</b>	<b>1,945.7</b>	<b>122,471</b>	<b>1,368.4</b>	<b>13,708.8</b>	<b>23,130.3</b>
Food and kindred products	333	18,621	965.5	461	23,010	297.8	18,911	213.5	1,938.7	3,973.4
Tobacco manufacturers	14	(D)	(D)	12	(D)	(D)	(D)	(D)	(D)	(D)
Textile mill products	29	2,640	66.5	26	3,770	36.6	3,563	31.2	86.3	176.3
Apparel and other textile products	341	31,764	510.1	274	26,613	214.8	23,800	182.9	691.1	1,213.0
Lumber and wood products	82	603	9.0	127	1,981	16.9	1,631	12.2	40.0	111.3
Furniture and fixtures	122	2,195	49.8	168	2,240	19.4	1,803	16.0	85.6	157.4
Paper and allied products	41	1,469	46.5	45	1,969	26.5	1,666	20.1	90.3	230.0
Printing and publishing	154	2,981	109.0	175	5,028	63.6	3,524	40.7	267.6	416.9
Chemicals and allied products	183	17,225	3,713.9	179	21,902	415.1	15,473	255.8	5,900.4	7,504.8
Petroleum and coal products	16	(D)	(D)	23	1,450	41.0	910	18.9	245.0	1,492.6
Rubber and misc. plastic products	83	4,496	157.7	80	5,966	77.1	5,100	54.3	326.0	555.9
Leather and leather products	47	6,019	108.3	39	6,476	64.3	5,769	55.9	207.0	480.3
Stone, clay, and glass products	171	4,390	133.5	168	4,155	60.0	3,296	42.6	196.3	393.3
Primary metal industries	34	683	14.8	25	760	9.9	642	7.4	67.7	166.4
Fabricated metal products	162	3,553	115.7	179	4,626	58.4	3,738	42.4	182.0	429.8
Machinery, exc. electrical	88	6,722	542.2	62	9,294	125.8	7,392	81.6	765.7	1,515.5
Electric and electronic equipment	181	21,682	1,139.6	131	18,422	252.1	15,702	185.3	1,764.7	2,903.2
Transportation equipment	28	909	32.1	23	(D)	(D)	(D)	(D)	(D)	(D)
Instruments and related products	89	10,865	616.4	66	6,314	84.9	5,016	58.3	597.7	879.8
Misc. manufacturing industries	87	3,373	92.6	65	3,336	41.1	2,720	31.7	99.0	257.2

D Withheld to avoid disclosure. <sup>1</sup> Based on the 1987 Standard Industrial Classification Code. See text, section 13. <sup>2</sup> Average for year. <sup>3</sup> See footnote 7, table 1302. <sup>4</sup> For establishments with 10 or more employees. <sup>5</sup> Represents net selling value, i.e., plant. Excludes freight charges and excise taxes. Includes extensive duplication arising from shipments between establishments in the same industry.

Source: U.S. Bureau of the Census, 1987 Censuses of Outlying Areas, Manufactures, Puerto Rico, series OA87-E-4.

**No. 1428. Puerto Rico—Construction Summary: 1982 and 1987**

[Money figures in millions of dollars. Employer establishments only]

INDUSTRY <sup>1</sup>	1982				1987				
	All employ- ees <sup>2</sup>	Total re- ceipts <sup>3</sup>	Value add- ed <sup>4</sup>	Estab- lish- ments	All employ- ees <sup>2</sup>	Receipts		Payroll	Value added <sup>4</sup>
						Total	Con- struc- tion		
<b>Construction <sup>5</sup></b>	<b>29,228</b>	<b>1,155</b>	<b>468</b>	<b>1,293</b>	<b>37,959</b>	<b>1,743</b>	<b>1,702</b>	<b>304</b>	<b>932</b>
General building contractors and operative builders	14,620	578	185	552	20,913	972	949	158	486
General contractors, residential buildings	7,265	(D)	(D)	379	10,690	436	433	67	268
Single-family houses	4,973	(S)	(S)	334	7,881	327	324	49	205
Operative builders	2,237	(D)	(D)	21	1,024	109	97	11	35
General contractors, nonresidential buildings	5,118	(D)	76	152	9,199	426	420	80	186
Heavy construction, general contractors	4,970	237	(D)	140	5,978	328	324	53	206
Special trade contractors <sup>5</sup>	9,534	330	154	544	10,557	413	408	88	225
Plumbing, heating, air-conditioning	1,704	69	28	97	1,421	77	76	15	42
Painting, paper hanging, decorating	589	(D)	(S)	54	819	25	25	5	15
Electrical work	2,443	91	43	147	3,029	134	134	31	73
Concrete work	1,200	34	14	31	1,402	33	33	7	17
Subdividers and developers, n.e.c. <sup>6</sup>	104	10	(D)	57	511	30	21	5	14

D Withheld to avoid disclosures. S Withheld because estimates did not meet publication standards on the basis of either response rate or a consistency review. <sup>1</sup> Based on the 1987 Standard Industrial Classification Code. See text, section 13. <sup>2</sup> Average for year. <sup>3</sup> Total business receipts. <sup>4</sup> All business receipts less payments for materials, components, supplies, and fuels, and for construction work subcontracted to others. <sup>5</sup> Includes industries not shown separately. <sup>6</sup> N.e.c. means not elsewhere classified.

Source: U.S. Bureau of the Census, 1987 Census of Outlying Areas, Construction, Puerto Rico, series OA87-E-3.

**No. 1429. Puerto Rico—Merchandise Imports and Exports: 1970 to 1989**

[In millions of dollars]

ITEM	1970	1975	1976	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
<b>Imports</b> .....	<b>2,681</b>	<b>4,885</b>	<b>6,918</b>	<b>7,834</b>	<b>9,018</b>	<b>9,329</b>	<b>8,167</b>	<b>8,708</b>	<b>10,116</b>	<b>10,162</b>	<b>10,321</b>	<b>11,308</b>	<b>13,096</b>	<b>15,010</b>
From U.S.	2,070	3,029	4,391	4,798	5,345	5,801	5,300	5,162	5,738	6,130	6,467	7,307	8,788	10,193
From other	611	1,856	2,527	3,046	3,673	3,528	2,867	3,546	4,378	4,032	3,854	4,001	4,308	4,817
<b>Exports</b> .....	<b>1,680</b>	<b>3,000</b>	<b>5,123</b>	<b>6,539</b>	<b>6,576</b>	<b>7,047</b>	<b>8,888</b>	<b>8,242</b>	<b>9,426</b>	<b>11,087</b>	<b>11,854</b>	<b>12,508</b>	<b>14,436</b>	<b>17,455</b>
To U.S.	1,563	2,633	4,499	5,720	5,643	6,024	7,624	6,936	8,074	9,873	10,524	11,153	12,756	15,334
To other	117	367	624	819	933	1,023	1,264	1,306	1,352	1,214	1,330	1,355	1,680	2,121

Source: U.S. Bureau of the Census, Foreign Commerce and Navigation of the United States, annual; U.S. Trade with Puerto Rico and U.S. Possessions, FT 895; and, through 1988, Highlights of U.S. Export and Import Trade, FT980, thereafter FT990 supplement.

**No. 1430. Puerto Rico, Guam, and Virgin Islands—Agriculture: 1982 and 1987**

(1 cuerda=.97 acre. Tons specified are short tons)

ITEM	1982	1987	ITEM	1982	1987	ITEM	AMOUNT HARVESTED <sup>1</sup>			SALES (\$1,000)	
							Unit	1982	1987	1982	1987
PUERTO RICO											
Farms . . . . .	21,820	20,245	Tenure of operator:			Dairy products.	(X) . . . . .	(X)	(X)	152,126	157,864
Percent—			Percent—			Poultry <sup>2</sup> . . . . .	(X) . . . . .	(X)	(X)	45,945	70,560
Less than 10 cuerdas . . . . .	45.1	48.7									
10 to 19 cuerdas . . . . .	20.9	19.5	Full-owners . . . . .	79.3	77.5	Coffee . . . . .	1,000 cwt. <sup>3</sup>	243.9	246.2	39,302	41,786
20 to 49 cuerdas . . . . .	18.0	16.7	Part-owners . . . . .	11.5	13.1	Cattle and calves . . . . .	(X) . . . . .	(X)	(X)	28,579	30,206
50 to 99 cuerdas . . . . .	7.1	6.7	Managers . . . . .	1.8	2.3	Sugarcane . . . . .	1,000 tons	1,462	1,170	26,663	26,643
100 to 174 cuerdas . . . . .	3.9	3.7	Tenants . . . . .	7.4	7.1	Fruits/nuts . . . . .	(X) . . . . .	(X)	(X)	14,060	20,645
175 or more cuerdas . . . . .	5.0	4.7	Avg. farm size—cuerdas—			Pineapples . . . . .	1,000 tons	44	69	9,534	15,495
Cuerdas in farms . . . . .	982,457	886,846	Full-owners . . . . .	31.1	30.6	Hogs . . . . .	(X) . . . . .	(X)	(X)	6,903	9,525
			Part-owners . . . . .	99.3	85.7	Vegetables . . . . .	Cuerdas . . . . .	6,669	6,179	9,547	8,236
			Managers . . . . .	122.8	128.0						
			Tenants . . . . .	90.9	84.0						
GUAM											
Farms . . . . .	297	351	Tenure of operator:			Chicken eggs . . . . .	(X) . . . . .	(X)	(X)	791.9	651.1
Percent—			Percent—			Fish . . . . .	(X) . . . . .	(X)	(X)	121.3	235.0
Less than 1 acre . . . . .	9.4	6.3	Full-owners . . . . .	62.0	64.1	Cucumbers . . . . .	1,000 lbs.	623.3	587.1	217.8	233.5
1 to 2 acres . . . . .	36.0	35.9	Permittees . . . . .	21.9	20.5	Green beans . . . . .	1,000 lbs.	116.5	303.8	81.7	230.2
3 to 7 acres . . . . .	28.6	29.1	Tenants . . . . .	9.1	4.3	Watermelons . . . . .	1,000 lbs.	400.3	632.6	115.6	178.6
8 or more acres . . . . .	26.0	28.8	Part-owners . . . . .	5.1	4.6	Tomatoes . . . . .	1,000 lbs.	88.0	142.7	64.3	108.6
Acres in farms . . . . .	17,787	13,134	Nonpermittees . . . . .	1.3	6.0	Hogs and pigs . . . . .	(X) . . . . .	(X)	(X)	117.0	106.4
			Others . . . . .	0.7	0.6						
VIRGIN ISLANDS											
Farms . . . . .	259	267	Tenure of operator:			Milk . . . . .	(X) . . . . .	(X)	(X)	922.8	1,042.7
Percent—			Percent—			Cattle and calves . . . . .	(X) . . . . .	(X)	(X)	488.6	613.4
Less than 3 acres . . . . .	29.0	30.0									
3 to 9 acres . . . . .	34.7	30.3	Full-owners . . . . .	79.9	75.3	Hogs and pigs . . . . .	(X) . . . . .	(X)	(X)	130.0	125.2
10 to 19 acres . . . . .	9.3	12.0	Part-owners . . . . .	10.4	13.5	Tomatoes . . . . .	Acres . . . . .	8	16	33.7	113.7
20 or more acres . . . . .	27.0	27.7	Tenants . . . . .	9.3	8.6	Lettuce . . . . .	Acres . . . . .	2	8	7.8	49.5
Acres in farms . . . . .	17,778	17,785	Managers . . . . .	0.4	2.6	Mangoes . . . . .	1,000 . . . . .	205.0	171.1	(D)	44.0
						Poultry <sup>2</sup> . . . . .	(X) . . . . .	(X)	(X)	315.6	16.8

D Withheld to avoid disclosure of information pertaining to a specific organization or individual.

X Not applicable.

<sup>1</sup> Includes amounts not sold. <sup>2</sup> Includes poultry products.

Cwt=hundredweight (100 lbs.).

Source: U.S. Bureau of the Census, 1987 *Census of Agriculture*, vol. 1, parts 52, 53, and 54.**No. 1431. Guam, Virgin Islands, and Northern Mariana Islands—Economic Summary: 1987**

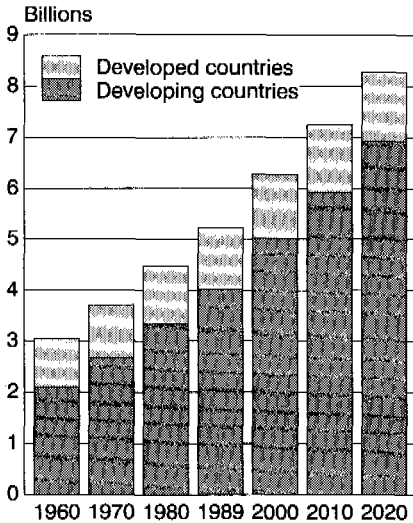
(Sales and payroll in millions of dollars)

ITEM	Guam	Virgin Islands	No. Mariana Islands	ITEM	Guam	Virgin Islands	No. Mariana Islands
<b>Total: Establishments</b> . . . . .	1,490	2,604	768	<b>Wholesale trade:</b>			
Sales . . . . .	1,510	(D)	374	Establishments . . . . .	94	84	28
Annual payroll . . . . .	221	255	57	Sales . . . . .	245	211	50
Paid employees . . . . .	18,582	20,709	9,090	Annual payroll . . . . .	19	20	2
Unpaid family workers . . . . .	371	209	167	Paid employees . . . . .	1,392	1,322	187
				Unpaid family workers <sup>2</sup> . . . . .	6	2	-
<b>Construction: Establishments</b> . . . . .	79	92	72	<b>Retail trade:</b>			
Sales . . . . .	127	124	43	Establishments . . . . .	804	1,311	383
Annual payroll . . . . .	35	29	12	Sales . . . . .	786	703	155
Paid employees . . . . .	2,705	2,170	2,061	Annual payroll . . . . .	79	85	14
Unpaid family workers . . . . .	1	3	6	Paid employees . . . . .	7,344	8,529	2,304
<b>Manufacturing:</b>				Unpaid family workers <sup>2</sup> . . . . .	273	168	126
Establishments . . . . .	38	66	39	<b>Services: Establishments</b> . . . . .	475	1,051	246
Sales . . . . .	81	(D)	58	Sales . . . . .	271	296	67
Annual payroll . . . . .	17	44	14	Annual payroll . . . . .	71	76	16
Paid employees . . . . .	1,320	2,102	2,257	Paid employees . . . . .	5,821	6,586	2,281
Unpaid family workers . . . . .	1	-	3	Unpaid family workers <sup>2</sup> . . . . .	90	36	32

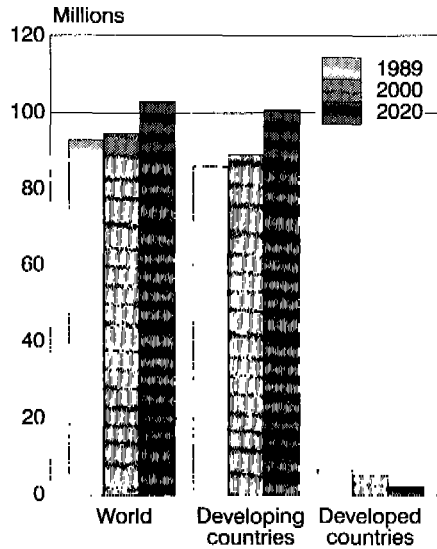
- Represents zero. D Withheld to avoid disclosure of information pertaining to a specific organization or individual. <sup>1</sup> For pay period including March 12. <sup>2</sup> Includes those who worked 15 hours or more during the week including March 12.Source: U.S. Bureau of the Census, 1987 *Economic Census of Outlying Areas*, OAC 87-5 to OAC 87-7.

Figure 31.1  
**World Population, by Development Category**

**Total and Projected Populations:  
 1960 to 2020**

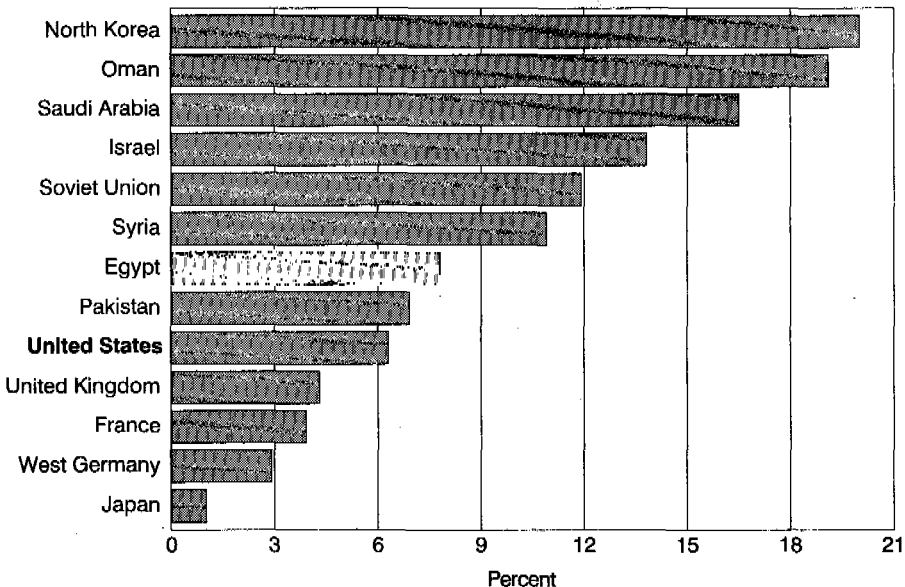


**Number of Persons Added  
 Each Year: 1989, 2000, and 2020**

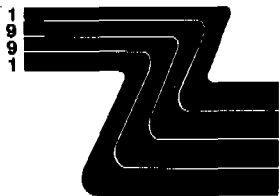


Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1434.

Figure 31.2  
**Military Expenditures as a Percentage of Gross  
 National Product, by Selected Countries: 1988**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1489.



## Section 31

# Comparative International Statistics

This section presents statistics for the world as a whole and for many countries on a comparative basis with the United States. Selected data are shown for area and population, births and deaths, social and industrial indicators, finances, agriculture, communication, and military affairs.

Statistics of the individual nations may be found primarily in official national publications, generally in the form of yearbooks, issued by most of the nations at various intervals in their own national languages and expressed in their own or customary units of measure. (For a listing of selected publications, see Guide to Sources.) For handier reference, especially for international comparisons, the Statistical Office of the United Nations compiles data as submitted by member countries and issues a number of international summary publications, generally in English and French. Among these are the *Statistical Yearbook*; the *Demographic Yearbook*; the *Yearbook of International Trade Statistics*; the *Yearbook of National Accounts Statistics: Vol. II, International Tables*; *Population and Vital Statistics Reports* (quarterly); the *Monthly Bulletin of Statistics*; and the *Energy Statistics Yearbook*. Specialized agencies of the United Nations also issue international summary publications on agricultural, labor, health, and education statistics. Among these are the *Production Yearbook* and *Trade Yearbook* issued by the Food and Agriculture Organization, the *Yearbook of Labour Statistics* issued by the International Labour Office, the *World Health Statistics* issued by the World Health Organization, and the *Statistical Yearbook* issued by the Educational, Scientific, and Cultural Organization.

The Bureau of the Census, in *Country Demographic Profiles*, series ISP-30, presents data on individual countries for both a recent census year and the current period; and in the *World Population Profile* series, estimates of basic demographic measures for countries and regions of the world. The *International Population Statistics Reports*, series P-90 and P-91, issued by the Bureau of the Census, also present population figures for many foreign countries. Detailed population statistics are also available from the Bureau of the Census' computerized data system, the International Data Base.

The U.S. Arms Control and Disarmament Agency and the International Monetary Fund (IMF) also compile data on international statistics. In its *World Military Expenditures and Arms Transfers*, published annually, the Arms Control and Disarmament Agency presents data on various economic indicators, as well as basic military data. Among the topics presented have been military expenditures, gross national product, imports and exports, and armed forces, by region and/or country. The IMF publishes a series of reports relating to financial data. These include *International Financial Statistics*, *Direction of Trade*, and *Balance of Payments Yearbook*, published in English, French, and Spanish.

**Statistical coverage, country names, and classifications.**—Problems of space and availability of data limit the number of countries and the extent of statistical coverage shown. The list of countries included is based almost entirely on a list of sovereign nations, dependencies, and areas of special sovereignty published by the U.S. Department of State in *Status of the World's Nations*. Country names are shown here as specified in that publication. In the few cases where a lack of comparability exists between State Department and United Nations' terminology, the State Department's preferences are used.

The population estimates and projections used in tables 1434-1436 were prepared by the Census Bureau. For each country, the data on population, by age and sex, fertility, mortality, and international migration were evaluated and, where necessary, adjusted for inconsistencies and errors in the data. In most instances, comprehensive projections were made by the component method, resulting in distributions of the population by age and sex, and requiring an assessment of probable future trends of fertility, mortality, and international migration.

**Economic associations.**—The Organization for European Economic Co-operation (OEEC), a regional grouping of Western European countries established in 1948 for the purpose of harmonizing national economic policies and conditions, was succeeded on September 30, 1961, by the Organization for Economic Cooperation and Development (OECD). The member nations

of the OECD are Australia, Austria, Belgium, Canada, Denmark, Finland, France, Greece, Iceland, Ireland, Italy, Japan, Luxembourg, the Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, the United Kingdom, the United States, and West Germany, plus Yugoslavia in special status category.

**Quality and comparability of the data.**—The quality and comparability of the data presented here are affected by a number of factors:

- (1) The year for which data are presented may not be the same for all subjects for a particular country, or for a given subject for different countries, though the data shown are the most recent available. All such variations have been noted. The data shown are for calendar years except as otherwise specified.
- (2) The bases, methods of estimating, methods of data collection, extent of coverage, precision of definition, scope of territory, and margins of error may vary for different items within a particular country, and for like items for different countries. Footnotes and headnotes to the tables give a few of the major time-period and coverage qualifications attached to the figures; considerably more detail is presented in the source publications. Many of the measures shown are, at best, merely rough indicators of magnitude.
- (3) Figures shown in this section for the United States may not always agree with figures shown in the preceding sections. Disagreements may be attributable to the use of differing original sources, a difference in the definition of geographic limits (the 50 States, conterminous United States only, or the United States including certain outlying areas and possessions), or to possible adjustments made in the United States figures by the United Nations or other sources in order to make them more comparable with figures from other countries.

**International comparisons of national accounts data.**—In order to compare national accounts data for different countries, it is necessary to convert each country's data into a common unit of currency, usually the U.S. dollar. The market exchange rates which are often used in converting national currencies do not necessarily reflect the relative purchasing power in the various countries. For example, using table 1445, it should not be concluded that the United Kingdom's individual standard of living in 1989 was only 68 percent of that of the United States, as the statistics may imply. It is obviously necessary that the goods and services produced in different countries should be valued consistently if the differences observed are meant to reflect real differences in the volumes of goods and services produced. The use of purchasing power parities (see table 1450) instead of exchange rates is intended to achieve this objective.

The method used to present the data shown in table 1450 is to construct volume measures directly by revaluing the goods and services sold in different countries at a common set of international prices. By dividing the ratio of the gross domestic products of two countries expressed in their own national currencies by the corresponding ratio calculated at constant international prices, it is possible to derive the implied purchasing power parity (PPP) between the two currencies concerned. PPP's show how many units of currency are needed in one country to buy the same amount of goods and services which one unit of currency will buy in the other country. For further information, see *National Accounts, Main Aggregates*, volume I, issued annually by the Organization for Economic Cooperation and Development, Paris, France.

**International Standard Industrial Classification.**—The original version of the International Standard Industrial Classification of All Economic Activities (ISIC) was adopted in 1948. Wide use has been made both nationally and internationally in classifying data according to kind of economic activity in the fields of production, employment, national income, and other economic statistics. A number of countries have utilized the ISIC as the basis for devising their industrial classification scheme. Substantial comparability has been attained between the industrial classifications of many other countries, including the United States, and the ISIC by ensuring, as far as practicable, that the categories at detailed levels of classification in national schemes fitted into only one category of the ISIC. For more detail, see Bureau of the Census, *The International Standard Industrial Classification and the U.S. Standard Industrial Classification*, Technical Paper No. 14 and text, section 27. The United Nations, the International Labour Organisation, the Food and Agriculture Organization, and other international bodies have utilized the ISIC in publishing and analyzing statistical data. Revisions of the ISIC were issued in 1958, 1968, and 1989.



## No. 1432. World Summary: 1970 to 1988

[See text, section 31, for general comments concerning quality of the data]

ITEM	Unit	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988
Population	Millions	3,678	4,453	4,528	4,607	4,684	4,760	4,854	4,938	5,024	5,112
Agriculture, forestry, and fishing: <sup>1</sup>											
Barley	Mil. metric tons	126	160	152	164	162	173	177	182	180	166
Coffee	Mil. metric tons	3.9	4.8	6.0	5.1	5.7	5.2	5.8	5.2	6.3	5.8
Corn	Mil. metric tons	278	396	450	450	348	453	484	479	451	401
Cotton (lint)	Mil. metric tons	11.8	13.9	15.3	14.8	14.3	18.2	17.4	15.2	16.5	18.2
Meats	Mil. metric tons	(NA)	134	136	137	142	146	151	156	160	165
Peanuts (groundnuts)	Mil. metric tons	18.5	17.1	20.5	18.1	19.0	20.2	20.0	21.0	18.9	21.3
Potatoes	Mil. metric tons	288	264	289	288	265	292	284	291	284	270
Rice	Mil. metric tons	316	399	412	424	452	470	473	472	466	491
Tobacco	Mil. metric tons	4.7	5.3	6.0	6.9	5.9	6.5	7.0	6.1	6.2	6.8
Wheat	Mil. metric tons	318	446	456	483	494	516	505	536	510	507
Wool, greasy	Mil. metric tons	(NA)	2.8	2.8	2.8	2.9	2.9	3.0	3.0	3.1	3.2
Roundwood	Mil. cubic meters	2,614	2,942	2,945	2,941	3,038	3,126	3,158	3,254	3,352	(NA)
Fish catches	Mil. metric tons	68.0	72.0	74.8	76.6	77.4	83.5	86.0	92.4	92.7	(NA)
Industrial production:											
Wine	Mil. metric tons	(NA)	35.4	31.6	37.3	35.0	32.4	29.3	31.9	31.6	27.3
Sugar	Mil. metric tons	72.9	84.0	92.8	102.2	97.4	99.9	98.8	101.3	101.7	103.7
Wheat flour	Mil. metric tons	121.2	137.2	139.7	139.7	200.0	207.0	211.5	212.9	216.9	(NA)
Coal	Mil. metric tons	2,143	2,728	2,728	2,828	2,831	2,967	3,161	3,249	3,335	3,450
Lignite and brown coal	Mil. metric tons	793	1,005	1,034	1,069	1,130	1,186	1,202	1,222	1,249	1,259
Crude petroleum <sup>2</sup>	Bil. bbl.	16.5	21.7	20.3	19.3	19.2	19.7	19.6	20.4	20.6	21.4
Natural gas (dry) <sup>2</sup>	Trl. cu. ft.	37.5	53.1	54.6	54.1	54.6	59.7	62.0	63.3	66.2	67.7
Electricity	Bil. kwh.	4,962	8,247	8,384	8,476	8,824	9,310	9,747	10,058	10,589	11,026
Iron ore	Mil. metric tons	421	743	900	816	740	835	858	868	883	890
Pig iron and ferroalloys	Mil. metric tons	440	531	519	472	463	496	507	496	503	504
Tin	1,000 metric tons	184	227	229	214	195	196	196	196	195	197
Crude steel	Mil. metric tons	594	704	695	629	663	710	685	671	682	685
Cement	Mil. metric tons	(NA)	867	868	866	888	889	945	998	1,045	1,058
Non-cellulosic fibers <sup>3</sup>	Mil. metric tons	4.9	10.5	10.8	10.1	10.7	11.5	11.7	11.9	11.1	11.6
Sawnwood	Mil. cubic meters	413	438	419	421	441	461	462	478	499	(NA)
Woodpulp	Mil. metric tons	97.2	121.1	120.6	115.3	123.9	130.9	131.2	136.3	133.9	(NA)
Newsprint	Mil. metric tons	21.6	26.1	27.3	25.8	26.0	27.8	28.3	29.3	30.7	(NA)
Merchant vessels, launched	Mil. gross tons	21.7	13.9	17.1	17.3	14.9	17.7	17.3	14.9	8.6	11.8
Motor vehicles	Millions	29.3	38.9	37.5	36.4	39.9	42.0	43.9	43.9	44.6	(NA)
External trade:											
Imports, c.i.f.	Bil. U.S. dollars	329	2,057	2,322	1,905	1,872	1,982	2,027	2,207	2,582	2,941
Exports, f.o.b.	Bil. U.S. dollars	314	1,995	2,215	1,831	1,813	1,909	1,932	2,128	2,498	2,838
Transport:											
Railway freight	Bil. metric ton-km	5,027	6,754	6,810	6,635	6,855	7,138	7,285	(NA)	(NA)	(NA)
Merchant shipping, freight <sup>4</sup>	Mil. metric tons	(NA)	3,676	3,500	3,290	3,290	3,410	3,362	(NA)	(NA)	(NA)
Civil aviation, kilometers flown <sup>5</sup>	Millions	4,353	9,362	9,030	9,010	9,320	9,950	10,565	11,455	12,208	(NA)

NA Not available. <sup>1</sup> Source: Food and Agriculture Organization of the United Nations, Rome Italy, *FAO Production Yearbook*, annual. (Copyright). <sup>2</sup> Source: U.S. Energy Information Administration, *International Energy Annual*. <sup>3</sup> Excludes China: Mainland. Tin and merchant vessels exclude Soviet Union. For other exclusions, see source. <sup>4</sup> Freight loaded. <sup>5</sup> Scheduled services of members of International Civil Aviation Organization. Excludes Soviet Union.

Source: Except as noted, Statistical Office of the United Nations, New York, NY, *Monthly Bulletin of Statistics*. (Copyright.)

## No. 1433. World Population, 1980 and 1990, and Area, 1990, by Size of Country

[Covers only countries listed in table 1434. See headnote, table 1434]

POPULATION CLASS IN 1990	POPULATION, 1980		1989					
			Countries		Population		Area	
	Total (mil.)	Percent of total	Total number	Percent of total	Total (mil.)	Percent of total	Total number	Percent of total
<b>Total</b>	<b>4,476</b>	<b>100.0</b>	<b>206</b>	<b>100.0</b>	<b>5,318</b>	<b>100.0</b>	<b>52,448</b>	<b>100.0</b>
Under 1 million	13	0.3	75	36.4	16	0.3	1,281	2.4
1 to 5 million	87	1.9	38	18.4	108	2.0	4,046	7.7
5 to 10 million	171	3.8	28	13.6	210	3.9	3,986	7.6
10 to 25 million	392	8.8	30	14.6	479	9.0	7,625	14.5
25 to 50 million	358	8.0	13	6.3	433	8.1	9,773	18.6
Over 50 million	3,455	77.2	22	10.7	4,071	76.6	25,738	49.1

Source: Compiled from U.S. Bureau of the Census, unpublished data.

### No. 1434. Population and Area, by Region and Country, 1980 and 1990, and Projections, 2000 and 2010

[Population data generally are de facto figures for the present territory. Population estimates were derived from information available as of mid-1989. See table 1436 for country components of regions. See text, section 31, for general comments concerning the data. Data compiled from the International Data Base; see text, section 31. For details of methodology, coverage, and reliability, see sources. Minus sign (-) indicates decrease]

COUNTRY	MIDYEAR POPULATION (1,000)				1990, population rank	ANNUAL RATE OF GROWTH <sup>1</sup> (percent)		1990, population per sq. mile	Area <sup>2</sup> (sq. mile)
	1980	1990	2000, proj.	2010, proj.		1980- 1990	1990- 2000		
<b>World total</b>	<b>4,475,687</b>	<b>5,318,013</b>	<b>6,263,663</b>	<b>7,211,250</b>	(X)	1.7	1.6	101	52,448,631
Africa	493,359	661,951	884,984	1,163,578	(X)	2.9	2.9	57	11,692,673
Northern America <sup>3</sup>	251,941	277,069	297,695	314,172	(X)	1.0	0.7	33	8,308,538
Latin America	363,762	448,892	537,493	624,257	(X)	2.1	1.8	57	7,930,816
Middle America	92,109	116,938	145,230	173,234	(X)	2.4	2.2	121	963,397
Caribbean	29,508	33,225	38,083	43,203	(X)	1.2	1.4	360	92,376
South	242,145	298,729	354,180	407,820	(X)	2.1	1.7	43	6,875,043
East Asia	1,181,094	1,335,079	1,508,424	1,625,704	(X)	1.2	1.2	293	4,550,909
South Asia	1,412,142	1,777,766	2,178,820	2,596,066	(X)	2.3	2.0	289	6,146,724
Europe	484,361	499,995	514,342	519,523	(X)	0.3	0.3	266	1,881,870
Soviet Union	266,410	290,938	311,637	334,003	(X)	0.9	0.7	34	8,649,496
Oceania	22,618	26,423	30,268	33,947	(X)	1.6	1.4	8	3,287,606
<b>COUNTRIES</b>									
Afghanistan	14,988	15,862	25,430	33,841	50	0.6	4.7	63	249,999
Albania	2,673	3,273	3,824	4,265	109	2.0	1.6	295	11,100
Algeria	18,850	25,567	32,693	39,367	35	3.0	2.5	28	918,487
Andorra	34	52	63	72	165	4.4	2.0	288	180
Angola	6,795	8,534	11,145	14,445	72	2.3	2.7	18	481,351
Antigua and Barbuda	69	64	69	76	181	-0.7	0.7	590	108
Argentina	26,237	32,291	36,036	39,864	30	1.3	1.1	30	1,068,297
Aruba	60	64	67	70	180	0.6	0.6	849	75
Australia	14,616	16,923	19,133	21,095	49	1.5	1.2	8	2,967,894
Austria	7,549	7,644	7,762	7,660	80	0.1	0.2	236	32,369
Bahamas, The	211	246	275	302	158	1.6	1.1	46	5,380
Bahrain	348	520	694	863	140	4.0	2.9	1,993	261
Bangladesh	88,077	118,453	153,687	191,670	9	3.0	2.6	2,130	55,598
Barbados	252	263	283	311	154	0.4	0.7	1,582	166
Belgium	9,847	9,909	9,989	9,889	66	0.1	0.1	840	11,792
Belize	147	220	301	377	157	4.0	3.2	25	8,866
Benin	3,444	4,674	6,509	8,939	95	3.1	3.3	107	43,483
Bhutan	1,281	1,566	1,909	2,277	124	2.0	2.0	87	18,000
Bolivia	5,393	6,707	8,151	9,671	86	2.2	1.9	16	424,162
Botswana	903	1,225	1,561	1,898	128	3.0	2.4	5	231,804
Brazil	122,942	152,505	180,536	207,462	6	2.2	1.7	46	3,286,524
Brunei	185	372	562	660	147	7.0	4.1	166	2,235
Bulgaria	8,844	8,934	9,004	9,072	71	0.1	0.1	209	42,823
Burkina	6,939	9,078	12,464	17,158	70	2.7	3.2	98	92,741
Burma	33,530	41,277	49,787	58,601	24	2.1	1.9	158	261,217
Burundi	4,138	5,646	7,731	10,423	89	3.1	3.1	525	10,747
Cambodia	5,692	6,991	8,498	10,023	84	2.1	2.0	100	69,898
Cameroon	8,577	11,082	14,453	18,625	59	2.6	2.6	60	183,567
Canada	24,070	26,538	29,301	31,464	31	1.0	1.0	7	3,849,656
Cape Verde	296	375	504	649	146	2.4	3.0	240	1,580
Central African Republic	2,269	2,877	3,702	4,712	113	2.4	2.5	12	240,534
Chad	4,022	5,017	6,204	7,652	93	2.2	2.1	10	495,998
Chile	11,094	13,083	15,025	16,817	55	1.6	1.4	45	292,257
China: Mainland	983,379	1,118,163	1,277,797	1,386,865	1	1.3	1.3	302	3,705,390
Taiwan	17,848	20,547	22,436	24,098	41	1.4	0.9	1,650	12,456
Colombia	26,580	33,076	39,745	45,603	29	2.2	1.8	75	439,735
Comoros <sup>4</sup>	334	460	656	920	142	3.2	3.5	549	838
Congo	1,620	2,242	2,995	3,908	119	3.3	2.9	17	132,046
Costa Rica	2,307	3,033	3,803	4,546	112	2.7	2.3	155	19,575
Cuba	9,653	10,620	11,613	12,277	60	1.0	0.9	240	44,197
Cyprus	627	702	768	830	137	1.1	0.9	197	3,572
Czechoslovakia	15,255	15,683	16,303	16,824	51	0.3	0.4	318	49,371
Denmark	5,123	5,131	5,147	5,095	92	(Z)	(Z)	309	16,632
Djibouti	279	337	440	571	152	1.9	2.7	40	8,494
Dominica	75	85	101	118	173	1.2	1.7	292	291
Dominican Republic	5,847	7,241	8,676	10,080	83	2.1	1.8	385	18,816
Ecuador	8,123	10,507	12,997	15,543	62	2.6	2.1	96	109,483
Egypt	41,965	54,706	68,968	85,047	21	2.7	2.3	141	386,660
El Salvador	4,658	5,310	6,471	7,628	90	1.3	2.0	654	8,124
Ethiopia	38,563	51,667	70,808	95,496	22	2.9	3.2	110	471,776
Equatorial Guinea	256	369	477	615	148	3.7	2.6	34	10,830
Fiji	631	760	877	1,010	136	1.9	1.4	107	7,095
Finland	4,780	4,977	5,075	5,088	94	0.4	0.2	38	130,159
France	53,870	56,358	58,548	59,708	18	0.5	0.4	267	211,207
Gabon	806	1,068	1,231	1,423	130	2.1	1.4	10	103,346
Gambia, The	644	848	1,151	1,553	133	2.7	3.1	194	4,361
Germany	78,298	78,475	80,111	78,960	12	(Z)	0.2	570	137,744

See footnotes at end of table.

No. 1434. Population and Area, by Region and Country, 1980 and 1990, and Projections, 2000 and 2010—Continued

[See headnote, page 830]

COUNTRY	MIDYEAR POPULATION (1,000)				1990, population rank	ANNUAL RATE OF GROWTH (percent)		1990, population per sq. mile	Area <sup>2</sup> (sq. mile)
	1980	1990	2000, proj.	2010, proj.		1980- 1990	1990- 2000		
Ghana	10,739	15,165	20,599	27,262	52	3.5	3.1	165	92,100
Greece	9,643	10,028	10,166	10,160	65	0.4	0.1	197	50,944
Grenada	90	84	83	98	174	-0.7	-0.1	633	133
Guatemala	6,864	9,098	11,444	13,665	69	2.8	2.3	217	42,000
Guinea	5,484	7,269	9,232	11,562	82	2.8	2.4	77	94,964
Guinea-Bissau	789	999	1,265	1,579	132	2.4	2.4	71	14,000
Guyana	759	765	821	950	135	0.1	0.7	9	83,000
Haiti	5,473	6,142	7,649	9,421	87	1.2	2.2	573	10,714
Honduras	3,774	5,260	6,860	8,480	91	3.3	2.7	122	43,277
Hungary	10,711	10,569	10,604	10,602	61	-0.1	(2)	294	35,919
Iceland	228	257	280	296	155	1.2	0.9	6	39,708
India	688,995	849,746	1,012,628	1,166,065	2	2.1	1.8	669	1,269,339
Indonesia	154,936	190,136	223,820	256,818	5	2.0	1.6	243	782,659
Iran	39,124	55,647	75,701	100,730	19	3.5	3.1	87	636,293
Iraq	13,233	18,782	27,205	38,047	44	3.5	3.7	112	167,924
Ireland	3,401	3,500	3,509	3,685	105	0.3	(2)	129	27,136
Israel	3,737	4,409	5,112	5,858	97	1.7	1.5	551	8,000
Italy	56,451	57,664	58,592	58,011	15	0.2	0.2	496	116,302
Ivory Coast	8,417	12,478	18,144	25,263	57	3.9	3.7	100	124,503
Jamaica	2,229	2,441	2,707	3,101	116	0.9	1.0	575	4,244
Japan	116,807	123,642	127,498	128,140	7	0.6	0.3	860	143,750
Jordan	2,152	3,065	4,370	5,893	110	3.5	3.5	88	35,000
Kenya	16,693	24,639	35,142	47,364	36	3.9	3.6	110	224,960
Kiribati	58	70	81	90	177	1.9	1.5	252	278
Kuwait	1,370	2,124	2,879	3,635	121	4.4	3.0	309	6,880
Laos	3,292	4,024	4,964	5,951	101	2.0	2.1	44	91,430
Lebanon	3,138	3,339	4,058	4,934	106	0.6	1.9	835	4,000
Lesotho	1,347	1,755	2,242	2,778	123	2.6	2.4	149	11,761
Liberia	1,901	2,640	3,674	4,977	115	3.3	3.3	61	43,000
Libya	3,032	4,221	5,594	7,057	99	3.3	2.8	6	679,359
Liechtenstein	25	28	30	31	192	1.2	0.5	456	62
Luxembourg	364	384	410	409	145	0.5	0.7	385	998
Madagascar	8,699	11,801	16,185	21,954	58	3.0	3.2	52	228,919
Malawi	6,004	9,158	16,290	26,290	68	4.2	2.5	200	45,747
Malaysia	13,764	17,511	21,399	25,672	46	2.4	2.0	136	128,400
Maldives	154	218	312	427	158	3.5	3.6	1,895	115
Mali	6,693	8,142	10,667	14,398	75	2.0	2.7	17	478,764
Malta	364	353	377	393	149	-0.3	0.6	2,921	121
Mauritania	1,456	1,935	2,652	3,624	122	2.8	3.2	5	397,954
Mauritius	964	1,070	1,161	1,259	129	1.0	0.8	1,486	720
Mexico	69,609	87,870	108,535	128,916	11	2.3	2.1	115	761,601
Monaco	27	29	32	34	191	1.0	0.7	29,453	1
Mongolia	1,662	2,187	2,836	3,579	120	2.7	2.6	4	604,100
Morocco	20,547	25,630	31,392	37,349	34	2.2	2.0	149	172,413
Mozambique	12,103	14,566	18,005	23,646	54	1.9	2.1	48	302,328
Nauru	8	9	10	11	202	1.8	1.3	1,150	8
Nepal	14,987	19,146	24,340	30,622	43	2.4	2.4	352	54,359
Netherlands	14,144	14,936	15,642	15,814	53	0.5	0.5	947	15,770
New Zealand	3,113	3,296	3,400	3,441	107	0.6	0.3	32	103,736
Nicaragua	2,793	3,723	4,878	6,188	103	2.9	2.7	74	50,193
Niger	5,579	7,879	11,056	15,323	78	3.5	3.4	16	489,189
Nigeria	90,036	118,819	160,751	213,042	8	2.8	3.0	333	356,667
North Korea	17,892	21,293	24,851	27,483	40	1.7	1.5	455	46,768
Norway	4,086	4,253	4,411	4,463	98	0.4	0.4	34	125,181
Oman	984	1,457	2,000	2,774	125	3.9	3.2	18	82,000
Pakistan	85,219	114,649	149,147	195,215	10	3.0	2.6	369	310,403
Panama	1,956	2,425	2,937	3,433	117	2.1	1.9	81	29,761
Papua New Guinea	2,991	3,823	4,806	5,924	102	2.5	2.3	21	178,259
Paraguay	3,379	4,660	6,023	7,381	96	3.2	2.6	30	157,046
Peru	17,295	21,906	26,435	30,880	39	2.4	1.9	44	496,222
Philippines	50,858	66,117	82,728	99,926	14	2.6	2.2	570	116,000
Poland	35,578	37,777	38,889	40,599	27	0.6	0.3	313	120,700
Portugal	9,778	10,354	10,652	10,764	64	0.6	0.3	291	35,553
Qatar	231	491	743	954	141	7.6	4.1	116	4,247
Romania	22,201	23,273	24,534	25,417	38	0.5	0.5	254	91,698
Rwanda	5,281	7,609	11,047	15,787	81	3.7	3.7	748	10,169
Saint Kitts and Nevis	44	40	44	51	189	-1.0	0.9	398	101
Saint Lucia	122	153	197	246	165	2.2	2.5	641	239
Saint Vincent and the Grenadines	98	113	132	156	168	1.4	1.6	751	150
San Marino	21	23	24	26	194	0.8	0.6	963	24
Sao Tome and Principe	94	125	166	211	167	2.8	2.9	335	372
Saudi Arabia	10,150	17,116	25,003	34,134	48	5.2	3.8	21	829,986
Senegal	5,731	7,714	10,482	14,090	79	3.0	3.1	102	75,750
Seychelles	63	68	74	80	178	0.8	0.8	633	108
Sierra Leone	3,315	4,166	5,399	6,980	100	2.3	2.6	150	27,699
Singapore	2,414	2,721	3,021	3,233	114	1.2	1.0	11,385	239
Solomon Islands	233	335	469	620	153	3.7	3.4	29	11,500
Somalia	6,110	8,424	10,406	14,076	74	3.2	2.1	34	246,200
South Africa	30,270	39,550	51,528	66,369	25	2.7	2.6	84	471,443
South Korea	38,124	43,045	46,267	48,459	23	1.2	0.7	1,132	38,031

See footnotes at end of table.

# No. 1434. Population and Area, by Region and Country, 1980 and 1990, and Projections, 2000 and 2010—Continued

[See headnote, page 830]

COUNTRY	MIDYEAR POPULATION (1,000)				1990, popula- tion rank	ANNUAL RATE OF GROWTH <sup>1</sup> (percent)		1990, popula- tion per sq. mile	Area <sup>2</sup> (sq. mile)
	1980	1990	2000, proj.	2010, proj.		1980- 1990	1990- 2000		
Soviet Union	266,410	290,938	311,637	334,003	3	0.9	0.7	34	8,649,496
Spain	37,488	39,269	40,456	40,998	26	0.5	0.3	201	194,896
Sri Lanka	14,900	17,196	19,436	21,834	47	1.4	1.2	679	25,332
Sudan	18,882	26,425	35,870	46,980	32	3.4	3.1	27	967,495
Suriname	355	397	463	535	144	1.1	1.5	6	63,037
Swaziland	584	779	1,053	1,394	134	2.9	3.0	116	6,704
Sweden	8,310	8,526	8,761	8,728	73	0.3	0.3	49	173,731
Switzerland	6,385	6,742	7,018	6,989	85	0.5	0.4	424	15,918
Syria	8,692	12,483	18,213	25,949	56	3.6	3.8	175	71,498
Tanzania	18,718	25,971	36,489	50,795	33	3.3	3.4	71	363,947
Thailand	46,957	55,116	62,181	68,437	20	1.8	1.2	277	198,772
Togo	2,586	3,674	5,248	7,336	104	3.5	3.6	167	22,000
Tonga	93	101	110	119	170	0.9	0.8	263	385
Trinidad and Tobago	1,105	1,345	1,652	1,992	127	2.0	2.1	679	1,980
Tunisia	6,452	8,124	10,056	11,944	76	2.3	2.1	129	83,170
Turkey	45,121	56,704	69,021	81,417	17	2.3	2.0	188	301,381
Tuvalu	7	9	11	12	203	2.0	1.6	914	10
Uganda	12,765	17,960	25,051	33,385	45	3.4	3.3	197	91,075
United Arab Emirates	1,000	2,254	3,598	4,920	118	8.1	4.7	70	32,278
United Kingdom	58,314	57,366	58,719	59,178	16	0.2	0.2	609	94,200
<b>United States</b>	<b>227,757</b>	<b>250,410</b>	<b>268,266</b>	<b>282,575</b>	<b>4</b>	<b>0.9</b>	<b>0.7</b>	<b>69</b>	<b>3,618,769</b>
Uruguay	2,896	3,037	3,221	3,413	111	0.5	0.6	45	66,037
Vanuatu	117	165	221	279	163	3.4	2.9	29	5,700
Venezuela	15,024	19,698	24,596	29,518	42	2.7	2.2	56	352,143
Vietnam	53,397	66,171	79,801	92,027	13	2.1	1.9	520	127,300
Western Samoa	155	186	235	269	161	1.8	1.8	164	1,133
Yemen	7,324	9,746	13,603	18,985	67	3.0	3.3	49	199,698
Yugoslavia	22,304	23,842	25,112	25,965	37	0.7	0.5	241	88,766
Zaire	26,682	36,589	50,317	68,003	28	3.2	3.2	40	905,563
Zambia	5,629	8,113	11,586	16,216	77	3.7	3.6	28	290,584
Zimbabwe	7,298	10,392	13,817	17,619	63	3.5	2.8	69	151,000
<b>AREAS OF SPECIAL SOVEREIGNTY AND DEPENDENCIES</b>									
American Samoa	32	42	52	57	189	2.6	2.1	551	76
Anguilla	7	7	7	8	208	0.5	0.7	197	35
Bermuda	57	58	59	60	183	0.2	0.1	2,917	20
British Virgin Islands	11	12	14	16	201	1.1	1.2	208	59
Cayman Islands	17	26	36	46	194	4.3	3.1	264	100
Cook Islands	18	18	19	20	197	0.1	0.5	191	93
Faroe Islands	43	48	52	55	187	0.9	0.8	92	517
Federated States of Micronesia	77	105	125	130	170	3.1	1.8	387	271
French Guiana	68	98	132	163	173	3.7	2.9	3	35,100
French Polynesia	151	190	242	296	161	2.3	2.4	123	1,544
Gaza Strip	453	616	837	1,113	139	3.1	3.1	4,397	140
Gibraltar	29	30	30	30	191	0.1	0.1	14,786	2
Greenland	50	56	62	66	185	1.1	1.0	(Z)	840,000
Guadeloupe	327	342	376	406	151	0.5	1.0	498	687
Guam	107	141	179	209	167	2.8	2.4	675	209
Guernsey	53	57	60	62	184	0.7	0.5	763	75
Hong Kong	5,063	5,760	6,264	6,594	89	1.3	0.8	14,083	409
Isle of Man	64	65	66	66	180	0.1	0.1	286	227
Jersey	76	84	90	93	176	1.0	0.7	1,858	45
Macau	318	442	474	487	144	3.3	0.7	73,615	6
Marshall Islands	31	43	56	66	188	3.5	2.5	620	70
Martinique	326	340	368	386	152	0.4	0.8	801	425
Mayotte	50	72	106	153	177	3.6	3.9	498	145
Montserrat	12	12	13	13	200	0.6	0.2	320	39
Namibia	1,015	1,453	2,081	2,895	127	3.6	3.6	5	318,261
Netherlands Antilles	170	184	192	204	163	0.8	0.5	261	703
New Caledonia	139	153	176	203	165	0.9	1.4	18	8,548
Northern Mariana Islands	17	23	29	32	196	3.0	2.4	123	184
Pacific Islands, Trust Territory of the	13	14	15	16	199	0.7	0.7	27	533
Puerto Rico	3,206	3,291	3,406	3,688	109	0.3	0.3	958	3,435
Reunion	507	596	708	808	140	1.6	1.7	614	970
Saint Helena	6	7	7	7	205	0.3	0.6	142	47
Saint Pierre and Miquelon	6	6	7	7	207	0.5	0.3	68	93
Turks and Caicos Islands	7	10	12	13	202	2.7	1.7	59	166
Virgin Islands	98	99	110	127	172	0.2	1.0	746	133
Wallis and Futuna	11	16	22	28	198	4.0	2.9	201	80
West Bank	833	1,058	1,367	1,731	132	2.4	2.6	468	2,262
Western Sahara	126	192	246	304	160	4.2	2.5	2	103,000

X Not applicable. Z Less than .05 percent or .5. <sup>1</sup> Computed by the exponential method. For explanation of average annual percent change, see Guide to Tabular Presentation. <sup>2</sup> Data from U.S. Central Intelligence Agency, *The World Factbook Nineteen and Eighty-Six*; U.S. Department of State, *Status of the World's Nations*, periodic; and Statistical Office of the United Nations, New York, NY, *Demographic Yearbook*. <sup>3</sup> Includes Bermuda, Canada, Greenland, St. Pierre and Miquelon, and United States. <sup>4</sup> Excludes Mayotte, an area subject to dispute over sovereignty. <sup>5</sup> Includes the Indian-held part of Jammu and Kashmir. <sup>6</sup> Excludes the Pakistani-held part of Jammu and Kashmir. <sup>7</sup> Includes only the Republic of Palau.

Source: Except as noted, U.S. Bureau of the Census, unpublished data.

## No. 1435. World Population by Age Group, 1990, and Projections, 2000

[In percent. Covers countries with 10 million or more population in 1990. See table 1436 for country components of regions. Data compiled from the International Data Base; see text, section 31]

COUNTRY	1990				2000			
	Under 5 years old	5 to 14 years old	15 to 64 years old	65 years old and over	Under 5 years old	5 to 14 years old	15 to 64 years old	65 years old and over
<b>World total</b> .....	<b>11.8</b>	<b>20.5</b>	<b>61.7</b>	<b>6.0</b>	<b>10.9</b>	<b>20.1</b>	<b>62.3</b>	<b>6.7</b>
Africa .....	17.8	26.9	52.4	2.9	16.8	26.9	53.2	3.0
North America .....	7.3	14.2	66.0	12.5	6.3	13.8	66.9	13.0
Latin America .....	12.7	23.4	59.3	4.6	10.9	21.1	62.7	4.4
Middle America .....	14.2	25.5	56.5	3.8	12.3	23.2	60.2	4.4
Caribbean .....	11.9	20.4	61.2	6.5	10.3	20.3	62.6	6.7
South America .....	12.1	22.9	60.2	4.8	10.4	20.3	63.7	5.6
East Asia .....	9.3	16.5	68.0	6.2	8.6	17.0	66.7	7.6
South Asia .....	14.1	24.0	58.4	3.5	12.3	22.7	61.0	4.1
Europe .....	6.3	13.2	66.9	13.6	5.9	12.2	66.3	15.6
Soviet Union .....	9.1	17.0	64.5	9.4	7.9	16.3	64.4	11.5
Oceania .....	9.2	17.3	64.2	9.4	8.4	16.7	64.8	10.1
<b>COUNTRIES</b>								
<b>United States</b> .....	<b>7.4</b>	<b>14.2</b>	<b>65.8</b>	<b>12.6</b>	<b>6.3</b>	<b>13.9</b>	<b>66.8</b>	<b>13.0</b>
Afghanistan .....	17.0	26.4	53.8	2.7	16.3	26.2	54.6	2.9
Algeria .....	16.3	27.3	52.6	3.8	13.3	25.2	57.5	4.1
Argentina .....	9.7	19.9	61.3	9.1	9.1	17.4	63.6	9.8
Australia .....	7.4	14.6	66.8	11.2	6.7	14.1	67.0	12.2
Bangladesh .....	16.9	27.2	52.6	3.3	14.7	25.5	56.6	3.3
Brazil .....	12.1	23.4	60.3	4.2	10.3	20.2	64.4	5.1
Burma .....	14.2	24.0	57.8	4.0	12.6	23.2	59.9	4.3
Cameroon .....	17.0	26.7	53.2	3.1	16.3	26.2	54.5	3.1
Canada .....	7.0	13.8	67.7	11.5	6.0	13.0	67.9	13.1
Chile .....	10.4	19.6	63.9	6.1	9.0	18.1	65.5	7.4
China: Mainland .....	9.8	16.7	67.9	5.7	9.0	17.8	66.3	6.8
Taiwan .....	7.9	19.3	66.6	6.2	6.7	14.1	70.8	8.4
Colombia .....	12.4	21.9	61.8	3.9	9.9	20.7	64.4	4.9
Cuba .....	8.4	14.3	68.5	8.8	7.3	15.6	67.3	9.8
Czechoslovakia .....	6.8	15.9	65.4	11.8	6.8	13.1	67.1	13.0
Ecuador .....	13.9	25.3	57.1	3.8	11.8	22.5	61.5	4.2
Egypt .....	15.1	25.7	55.8	3.4	13.3	24.0	58.9	3.8
Ethiopia .....	18.0	27.8	51.5	2.7	17.8	27.4	51.9	2.8
France .....	6.7	13.3	65.9	14.1	6.2	12.9	65.0	15.9
Germany .....	5.5	10.4	69.1	15.0	5.2	11.1	67.1	16.7
Ghana .....	19.0	25.4	52.7	3.0	17.7	28.4	50.8	3.0
Greece .....	5.4	13.7	66.8	14.0	5.4	10.7	65.9	18.0
Hungary .....	5.9	14.1	66.6	13.4	6.0	11.6	67.0	15.4
India .....	13.2	23.0	60.3	3.5	11.2	21.6	63.1	4.1
Indonesia .....	12.3	24.0	60.7	3.0	10.2	20.3	65.2	4.4
Iran .....	18.0	26.7	51.7	3.5	16.6	27.5	51.9	4.0
Iraq .....	18.9	28.9	49.0	3.2	18.0	28.6	50.4	3.0
Italy .....	5.0	11.6	68.7	14.7	5.3	10.6	66.8	17.6
Ivory Coast .....	19.3	27.6	51.1	1.9	18.7	28.6	50.4	2.2
Japan .....	5.4	13.0	69.7	11.9	5.3	10.4	67.7	16.5
Kenya .....	19.5	30.0	48.3	2.2	17.3	28.9	51.4	2.4
Madagascar .....	19.1	27.2	50.3	3.4	18.2	28.2	50.5	3.1
Malaysia .....	13.8	22.8	59.7	3.8	10.9	22.9	62.1	4.1
Mexico .....	13.6	25.0	57.6	3.8	11.9	22.5	61.1	4.5
Morocco .....	13.7	24.9	57.2	4.2	11.6	22.3	61.3	4.7
Mozambique .....	18.1	26.7	52.8	2.5	17.4	27.3	52.8	2.5
Nepal .....	16.4	26.9	53.9	2.8	15.3	25.4	56.3	3.0
Netherlands .....	6.2	11.9	68.9	12.9	5.9	12.1	67.6	14.3
Nigeria .....	18.0	26.9	53.0	2.1	17.7	26.9	52.7	2.7
North Korea .....	10.3	18.9	66.5	4.2	8.9	18.1	67.6	5.4
Pakistan .....	17.7	26.1	52.2	4.0	16.7	26.9	52.6	3.9
Peru .....	13.1	24.9	58.2	3.8	10.9	21.4	63.2	4.5
Philippines .....	14.9	25.3	56.4	3.4	12.9	24.0	59.2	3.9
Poland .....	7.7	17.4	65.0	10.0	6.4	13.8	67.5	12.2
Portugal .....	5.9	14.8	66.1	13.1	5.8	11.6	67.3	15.3
Romania .....	7.7	15.8	66.2	10.4	6.9	14.5	65.2	13.3
Saudi Arabia .....	15.6	21.5	61.0	1.9	14.8	23.3	59.5	2.5
South Africa .....	15.3	24.5	56.2	3.9	14.8	24.7	56.4	4.0
South Korea .....	7.8	18.5	68.9	4.7	6.6	13.8	73.2	6.4
Soviet Union .....	9.1	17.0	64.5	9.4	7.9	16.3	64.4	11.5
Spain .....	5.4	14.5	66.7	13.4	5.7	10.8	67.0	16.5
Sri Lanka .....	10.1	21.7	63.1	5.1	9.2	17.6	67.0	6.2
Sudan .....	18.4	27.7	51.5	2.4	17.0	27.5	53.2	2.2
Syria .....	19.0	28.5	49.5	3.0	18.5	28.5	50.0	3.0
Tanzania .....	19.9	28.4	48.8	2.9	19.3	28.9	49.2	2.7
Thailand .....	9.7	21.3	65.0	4.1	8.4	16.8	69.4	5.4
Turkey .....	13.2	23.5	58.8	4.4	11.3	21.7	61.8	5.3
Uganda .....	20.6	28.2	48.9	2.2	19.2	29.5	49.2	2.1
United Kingdom .....	6.7	12.2	65.5	15.6	6.1	13.1	64.7	16.0
Venezuela .....	13.4	24.2	58.5	3.9	11.4	21.8	61.9	4.9
Vietnam .....	14.0	24.7	56.6	4.7	11.4	22.8	60.8	5.0
Yugoslavia .....	7.3	15.5	67.8	9.4	6.4	13.5	66.8	13.3
Zaire .....	18.8	27.2	51.2	2.8	17.7	28.3	51.2	2.9

Source: U.S. Bureau of the Census, International Data Base.

### No. 1436. Birth and Death Rates, and Other Vital Statistics, 1990, and Projections, 2000—Selected Countries

[Covers countries with 1 million or more population in 1989. AFR - Africa, EAS - East Asia, SAS - South Asia, CAR - Caribbean, MAM - Middle America, SAM - South America, NAM - North America, EUR - Europe, SOV - Soviet Union, OCE - Oceania. Data compiled from the International Data Base; see text, section 31]

COUNTRY	Region	CRUDE BIRTH RATE <sup>1</sup>		CRUDE DEATH RATE <sup>2</sup>		EXPECTATION OF LIFE AT BIRTH (years)		INFANT MORTALITY RATE <sup>3</sup>		TOTAL FERTILITY RATE <sup>4</sup>	
		1990	2000	1990	2000	1990	2000	1990	2000	1990	2000
United States.....	NAM	14.9	12.6	8.7	8.8	75.6	77.0	10.4	9.3	1.85	1.84
Afghanistan.....	SAS	43.7	39.8	17.9	13.4	46.6	53.1	154.2	125.5	6.40	5.58
Algeria.....	AFR	37.3	28.6	9.4	7.4	62.7	65.8	87.1	72.8	5.42	3.78
Angola.....	AFR	46.8	42.6	20.3	16.2	43.8	48.9	157.9	127.5	6.72	6.05
Argentina.....	SAM	20.0	19.2	8.7	8.6	70.7	72.3	31.8	26.0	2.77	2.50
Australia.....	OCE	14.7	13.2	7.5	7.4	76.6	78.7	8.2	6.5	1.84	1.80
Austria.....	EUR	11.6	9.8	10.8	10.1	77.1	78.9	5.7	3.3	1.45	1.50
Bangladesh.....	SAS	42.3	34.4	14.3	10.6	53.6	58.4	135.6	116.0	5.72	4.50
Belgium.....	EUR	11.9	10.3	10.6	10.2	76.9	78.8	5.8	3.4	1.59	1.60
Bolivia.....	SAM	35.1	30.3	13.2	10.9	53.9	57.6	125.2	110.0	4.65	3.75
Brazil.....	SAM	26.2	22.2	7.5	7.0	64.9	67.5	69.2	60.2	3.13	2.60
Bulgaria.....	EUR	13.0	12.4	11.7	10.8	72.3	76.0	13.3	6.5	1.92	1.80
Burkina.....	AFR	50.1	45.8	16.7	12.4	51.8	56.4	121.4	97.6	7.18	6.48
Burma.....	SAS	32.9	28.1	12.8	10.7	54.5	58.0	96.9	79.5	4.15	3.51
Burundi.....	AFR	47.3	41.6	14.9	11.1	51.9	56.4	111.4	88.5	6.95	6.25
Cambodia.....	SAS	38.5	28.8	16.4	12.1	48.7	54.6	128.2	96.4	4.53	3.98
Cameroon.....	AFR	41.7	38.2	15.2	12.0	50.6	55.2	120.1	95.7	5.70	5.00
Canada.....	NAM	14.0	11.8	7.4	7.7	77.3	79.2	7.3	6.1	1.67	1.68
Chile.....	SAM	21.4	18.1	5.8	5.9	73.2	75.1	18.3	13.4	2.51	2.29
China: Mainland.....	EAS	21.6	17.4	7.2	7.0	68.4	70.9	34.3	25.0	2.28	2.10
Taiwan.....	EAS	15.8	13.8	5.1	6.0	74.1	75.9	17.1	14.0	1.70	1.70
Colombia.....	SAM	26.6	19.5	5.1	4.4	70.6	74.1	37.9	28.5	2.90	2.25
Cuba.....	CAR	18.1	14.1	6.7	7.1	75.5	76.4	12.0	11.0	1.86	1.86
Czechoslovakia.....	EUR	13.6	13.6	11.0	8.9	72.6	76.3	11.3	7.8	1.97	1.80
Denmark.....	EUR	11.6	10.9	11.4	10.9	75.7	78.0	6.4	3.8	1.56	1.60
Dominican Republic.....	CAR	27.7	22.2	7.0	5.6	66.9	70.2	61.9	44.2	3.19	2.57
Ecuador.....	SAM	30.2	24.8	7.0	5.9	65.9	69.0	61.1	46.7	3.79	2.93
Egypt.....	AFR	34.4	29.5	9.6	7.4	60.3	64.8	89.9	63.7	4.68	3.82
El Salvador.....	MAM	33.9	29.6	7.1	5.4	65.0	69.6	49.2	31.0	4.14	3.30
Ethiopia.....	AFR	45.3	42.6	14.9	12.0	50.9	55.4	115.8	92.4	7.03	6.33
France.....	EUR	13.6	12.3	9.4	9.1	77.6	79.3	6.3	4.3	1.82	1.80
Germany.....	EUR	11.2	9.8	11.3	10.5	75.5	77.9	7.0	6.0	1.44	1.55
Ghana.....	AFR	46.4	40.7	13.3	10.9	54.2	57.5	89.4	75.9	6.44	5.79
Greece.....	EUR	10.9	10.9	9.4	9.7	77.6	79.3	10.3	7.6	1.54	1.60
Guatemala.....	MAM	37.5	28.0	8.5	6.4	62.7	66.8	61.1	45.9	5.06	3.50
Guinea.....	AFR	47.4	39.6	21.9	17.2	42.4	47.0	146.7	122.0	6.07	5.46
Haiti.....	CAR	44.6	35.3	15.6	12.1	53.3	56.1	107.0	94.0	6.40	5.16
Hong Kong.....	EAS	12.9	10.8	5.1	6.4	78.7	79.9	5.7	5.7	1.38	1.50
Hungary.....	EUR	11.7	12.1	12.8	10.6	71.2	75.5	14.6	9.3	1.78	1.70
India.....	SAS	30.0	24.1	10.5	8.6	57.7	62.1	89.4	67.3	3.78	3.00
Indonesia.....	SAS	28.6	21.5	8.5	6.7	60.3	66.6	74.7	53.9	3.11	2.43
Iran.....	SAS	45.1	37.4	9.6	6.9	62.6	67.6	90.5	70.2	6.32	5.31
Iraq.....	SAS	46.4	40.1	7.4	5.1	66.5	71.0	67.4	50.5	7.31	5.81
Italy.....	EUR	10.4	10.6	9.5	9.6	78.0	79.6	6.1	5.4	1.37	1.50
Ivory Coast.....	AFR	48.1	43.8	12.7	9.9	53.9	58.3	99.6	77.8	6.90	6.21
Japan.....	EAS	10.6	10.7	6.8	8.5	79.3	80.0	4.5	4.8	1.61	1.50
Kenya.....	AFR	44.9	37.8	7.1	4.9	64.5	68.7	59.8	40.6	6.52	5.04
Madagascar.....	AFR	47.1	42.7	14.9	11.5	52.2	56.7	97.3	78.1	6.94	6.25
Malawi.....	AFR	52.1	47.0	17.8	13.9	48.9	53.2	130.2	108.0	7.68	6.94
Malaysia.....	SAS	29.2	19.8	6.2	5.3	67.8	70.8	29.8	20.1	3.51	2.45
Mali.....	AFR	51.1	46.8	21.0	16.6	45.6	50.3	115.5	101.2	7.09	6.31
Mexico.....	MAM	29.0	24.4	4.9	4.1	71.8	75.4	32.7	20.8	3.43	2.77
Morocco.....	AFR	30.6	24.7	8.2	5.8	64.0	69.8	78.5	56.4	3.96	2.95
Mozambique.....	AFR	46.6	42.1	17.7	14.0	47.0	51.5	138.2	112.9	6.49	5.84
Namibia.....	AFR	45.6	41.4	9.9	7.4	59.9	64.2	70.8	52.2	6.64	5.97
Nepal.....	SAS	39.2	35.6	15.1	11.7	50.1	55.2	99.4	82.5	5.61	4.68
Netherlands.....	EUR	12.8	11.4	8.4	8.5	77.6	79.3	7.0	5.9	1.56	1.60
Niger.....	AFR	50.8	46.0	16.4	12.5	50.5	55.5	130.6	110.8	7.09	6.38
Nigeria.....	AFR	46.2	43.1	16.5	13.8	48.5	52.7	119.3	103.4	6.54	5.99
North Korea.....	EAS	21.8	16.9	4.8	4.5	72.3	75.4	27.2	15.9	2.06	1.90
Pakistan.....	SAS	43.6	39.8	13.3	11.0	56.3	59.6	110.4	98.4	6.71	5.94

See footnotes at end of table.

### No. 1436. Birth and Death Rates, and Other Vital Statistics, 1990, and Projections, 2000—Selected Countries—Continued

[See headnote, page 834]

COUNTRY	Region	CRUDE BIRTH RATE <sup>1</sup>		CRUDE DEATH RATE <sup>2</sup>		EXPECTATION OF LIFE AT BIRTH (years)		INFANT MORTALITY RATE <sup>3</sup>		TOTAL FERTILITY RATE <sup>4</sup>	
		1990	2000	1990	2000	1990	2000	1990	2000	1990	2000
Peru	SAM	28.5	23.2	7.7	6.2	63.9	68.1	67.3	53.2	3.62	2.70
Philippines	SAS	32.5	27.4	6.7	5.9	65.9	68.5	48.0	38.1	4.26	3.50
Poland	EUR	14.5	13.0	9.5	8.5	72.5	76.1	13.2	6.4	2.08	1.80
Portugal	EUR	12.0	11.5	9.6	9.3	74.4	77.4	13.8	9.1	1.53	1.50
Puerto Rico	CAR	19.2	17.6	7.8	6.6	72.1	75.9	16.8	12.8	2.16	2.00
Romania	EUR	16.0	13.4	10.1	8.6	71.6	75.6	19.0	10.9	2.16	1.80
Rwanda	AFR	53.0	47.8	15.0	11.1	52.0	56.8	112.7	88.3	8.49	7.65
Saudi Arabia	SAS	37.1	33.6	6.5	4.7	65.4	70.6	71.4	50.6	6.76	6.31
Senegal	AFR	44.0	40.6	13.5	10.1	54.5	60.0	87.1	72.1	6.31	5.57
Somalia	AFR	46.8	41.8	14.6	10.9	53.3	59.1	125.0	98.1	7.28	6.55
South Africa	AFR	34.5	32.7	8.0	6.8	63.9	67.1	52.2	39.7	4.50	4.28
South Korea	EAS	15.0	13.2	6.2	6.5	69.6	72.4	22.9	14.6	1.58	1.50
Soviet Union	SOV	17.8	16.2	10.4	9.4	69.5	73.2	23.7	14.7	2.39	2.27
Spain	EUR	11.1	11.5	8.2	8.8	78.2	79.7	6.2	5.5	1.45	1.50
Sri Lanka	SAS	21.2	19.1	6.2	6.2	69.7	71.9	30.5	23.5	2.34	2.22
Sudan	AFR	44.7	38.9	13.5	10.3	52.6	56.8	86.4	68.7	6.47	5.46
Sweden	EUR	13.1	11.4	11.4	10.9	77.7	79.3	5.9	5.3	1.94	1.80
Switzerland	EUR	12.1	10.4	9.0	9.3	78.9	80.1	4.9	3.6	1.57	1.60
Syria	SAS	43.6	40.9	5.7	3.9	68.9	73.1	37.9	27.1	6.73	6.00
Tanzania	AFR	50.0	46.1	15.6	12.0	51.5	56.1	107.0	86.4	7.09	6.39
Thailand	SAS	19.7	17.2	6.6	6.2	66.8	70.3	34.2	23.0	2.12	1.85
Tunisia	AFR	29.7	24.3	6.3	5.3	69.1	72.1	39.8	28.3	4.03	3.15
Turkey	SAS	29.1	23.8	7.6	6.0	65.7	70.4	73.6	47.3	3.64	2.90
Uganda	AFR	52.0	46.9	16.6	15.8	48.7	48.7	106.7	106.7	7.35	6.62
United Kingdom	EUR	13.8	11.8	11.2	10.1	76.3	78.5	7.3	6.0	1.82	1.80
Venezuela	SAM	28.4	23.6	4.2	3.8	73.9	77.1	27.0	20.1	3.45	2.88
Vietnam	SAS	30.1	23.2	8.3	6.4	64.2	68.8	49.8	34.4	3.81	2.80
Yemen	SAS	51.2	48.3	16.6	12.4	49.6	54.8	124.0	96.5	7.46	6.74
Yugoslavia	EUR	14.5	12.8	8.8	8.1	72.7	76.3	22.1	12.3	1.94	1.80
Zaire	AFR	46.3	41.3	13.5	10.4	53.4	58.0	103.1	80.9	6.23	5.60
Zambia	AFR	49.5	43.9	11.8	9.0	56.2	60.7	80.1	62.6	7.00	6.30
Zimbabwe	AFR	41.5	33.0	8.6	6.0	61.2	65.7	64.9	45.8	5.76	4.15

<sup>1</sup> Number of births during 1 year per 1,000 persons (based on midyear population). <sup>2</sup> Number of deaths during 1 year per 1,000 persons (based on midyear population). <sup>3</sup> Number of deaths of children under 1 year of age per 1,000 live births in a calendar year. <sup>4</sup> Average number of children that would be born if all women lived to the end of their childbearing years and, at each year of age, they experienced the birth rates occurring in the specified year.

Source: U.S. Bureau of the Census, unpublished data.

### No. 1437. Population and Average Annual Rates of Growth for World's 94 Largest Cities: 1989 to 2000

[Cities are defined as population clusters of continuous built-up area with a population density of at least 5,000 persons per square mile]

CITY AND COUNTRY	Rank	MIDYEAR POPULATION (1,000)				AVERAGE ANNUAL GROWTH RATE (percent)			Area (square miles)	Density 1989 (pop. per square mile)
		1989	1990	1995	2000	1989-1990	1990-1995	1995-2000		
Tokyo-Yokohama, Japan	1	26,640	26,952	28,447	29,971	1.16	1.08	1.04	1,089	24,463
Mexico City, Mexico	2	19,478	20,207	23,913	27,872	3.67	3.37	3.06	522	37,314
Sao Paulo, Brazil	3	17,376	18,052	21,539	25,354	3.82	3.53	3.26	451	38,528
Seoul, South Korea	4	15,716	16,268	19,065	21,976	3.45	3.17	2.84	342	45,953
New York, United States	5	14,618	14,622	14,638	14,648	0.03	0.02	0.01	1,274	11,473
Osaka-Kobe-Kyoto, Japan	6	13,777	13,826	14,060	14,287	0.35	0.34	0.32	495	27,833
Bombay, India	7	11,428	11,777	13,532	15,357	3.00	2.78	2.53	95	120,299
Calcutta, India	8	11,413	11,663	12,885	14,088	2.17	1.99	1.79	209	54,607
Buenos Aires, Argentina	9	11,360	11,518	12,232	12,911	1.38	1.20	1.08	535	21,233
Rio de Janeiro, Brazil	10	11,153	11,428	12,786	14,169	2.44	2.25	2.05	260	42,894
Moscow, Soviet Union	11	10,278	10,367	10,769	11,121	0.86	0.78	0.64	379	27,117
Los Angeles, United States	12	9,974	10,060	10,414	10,714	0.86	0.69	0.57	1,110	8,985
Cairo, Egypt	13	9,585	9,851	11,155	12,512	2.73	2.49	2.30	104	92,168
Manila, Philippines	14	9,584	9,880	11,342	12,846	3.04	2.76	2.49	188	50,978
Jakarta, Indonesia	15	9,275	9,588	11,151	12,804	3.32	3.02	2.76	76	122,033
London, United Kingdom	16	9,222	9,170	8,897	8,574	-0.57	-0.60	0.74	874	10,551
Tehran, Iran	17	8,915	9,354	11,681	14,251	4.81	4.44	3.98	112	79,594
Paris, France	18	8,693	8,709	8,764	8,803	0.18	0.13	0.09	432	20,123
Delhi, India	19	8,156	8,475	10,105	11,849	3.84	3.52	3.18	138	59,102
Essen, Germany	20	7,499	7,474	7,364	7,239	-0.34	-0.30	-0.34	704	10,653

See footnotes at end of table.

# No. 1437. Population and Average Annual Rates of Growth for World's 94 Largest Cities: 1989 to 2000—Continued

[See headnote, page 835]

CITY AND COUNTRY	Rank	MIDYEAR POPULATION (1,000)				AVERAGE ANNUAL GROWTH RATE (percent)			Area (square miles)	Density 1989 (pop. per square mile)
		1989	1990	1995	2000	1989-1990	1990-1995	1995-2000		
Karachi, Pakistan	21	7,417	7,711	9,350	11,299	3.88	3.85	3.79	190	39,038
Lagos, Nigeria	22	7,264	7,602	9,799	12,528	4.55	5.08	4.91	56	129,705
Shanghai, China	23	6,837	6,873	7,194	7,540	0.52	0.81	0.94	78	87,659
<b>Chicago, United States</b>	<b>24</b>	<b>6,523</b>	<b>6,526</b>	<b>6,541</b>	<b>6,568</b>	<b>0.05</b>	<b>0.05</b>	<b>0.08</b>	<b>762</b>	<b>8,560</b>
Lima, Peru	25	6,335	6,578	7,853	9,241	3.77	3.54	3.26	120	52,791
Taipei, Taiwan	26	6,308	6,513	7,477	8,516	3.20	2.76	2.80	138	45,710
Istanbul, Turkey	27	6,230	6,461	7,624	8,875	3.63	3.31	3.04	165	37,760
Beijing, China	28	5,710	5,736	5,865	5,993	0.45	0.44	0.43	151	37,816
Bangkok, Thailand	29	5,623	5,791	6,657	7,587	2.95	2.79	2.62	102	55,126
Hong Kong, Hong Kong	30	5,607	5,656	5,841	5,956	0.87	0.84	0.82	20	280,350
Madras, India	31	5,582	5,743	6,550	7,384	2.84	2.63	2.40	115	48,541
Bogota, Colombia	32	5,501	5,710	6,801	7,935	3.72	3.50	3.08	79	69,638
Santiago, Chile	33	5,154	5,275	5,812	6,294	2.31	1.94	1.59	128	40,269
Tianjin, China	34	4,767	4,804	5,041	5,298	0.77	0.96	0.99	49	97,291
Milan, Italy	35	4,727	4,738	4,795	4,839	0.23	0.24	0.18	344	13,741
Nagoya, Japan	36	4,678	4,736	5,017	5,303	1.24	1.15	1.11	307	15,236
Pusan, South Korea	37	4,659	4,838	5,748	6,700	3.76	3.45	3.07	54	86,284
Leningrad, Soviet Union	38	4,653	4,667	4,694	4,738	0.30	0.12	0.19	139	33,474
Bangalore, India	39	4,410	4,612	5,644	6,764	4.49	4.04	3.62	50	88,191
Madrid, Spain	40	4,391	4,451	4,772	5,104	1.37	1.39	1.35	66	66,527
Shenyang, China	41	4,215	4,248	4,457	4,684	0.78	0.96	0.99	39	108,080
Barcelona, Spain	42	4,101	4,163	4,492	4,834	1.51	1.52	1.47	87	47,138
Lahore, Pakistan	43	4,101	4,236	4,866	5,864	3.24	3.28	3.24	57	71,949
Manchester, United Kingdom	44	4,069	4,050	3,949	3,827	-0.47	-0.50	-0.63	357	11,397
Dhaka, Bangladesh	45	4,016	4,224	5,296	6,492	5.04	4.52	4.07	32	125,511
<b>Philadelphia, United States</b>	<b>46</b>	<b>4,011</b>	<b>4,007</b>	<b>3,988</b>	<b>3,979</b>	<b>-0.09</b>	<b>-0.10</b>	<b>-0.05</b>	<b>471</b>	<b>8,515</b>
<b>San Francisco, United States</b>	<b>47</b>	<b>3,924</b>	<b>3,958</b>	<b>4,104</b>	<b>4,214</b>	<b>0.87</b>	<b>0.72</b>	<b>0.53</b>	<b>428</b>	<b>9,167</b>
Baghdad, Iraq	48	3,813	3,941	4,566	5,239	3.32	2.94	2.75	97	39,304
Ho Chi Minh City, Vietnam	49	3,562	3,645	4,064	4,481	2.29	2.18	1.95	31	114,914
Belo Horizonte, Brazil	50	3,549	3,683	4,373	5,125	3.71	3.43	3.17	79	44,922
Sydney, Australia	51	3,491	3,515	3,619	3,708	0.69	0.58	0.49	338	10,328
Ahmadabad, India	52	3,476	3,595	4,200	4,837	3.37	3.11	2.82	32	108,618
Hyderabad, India	53	3,448	3,563	4,149	4,765	3.29	3.05	2.77	88	39,180
Athens, Greece	54	3,423	3,468	3,670	3,866	1.29	1.13	1.04	116	29,511
Kinshasa, Zaire	55	3,403	3,575	4,520	5,646	4.93	4.69	4.45	57	59,704
<b>Miami, United States</b>	<b>56</b>	<b>3,359</b>	<b>3,421</b>	<b>3,679</b>	<b>3,894</b>	<b>1.82</b>	<b>1.45</b>	<b>1.14</b>	<b>448</b>	<b>7,498</b>
Guangzhou, China	57	3,313	3,330	3,485	3,652	0.50	0.91	0.94	79	41,942
Surabaya, Indonesia	58	3,155	3,205	3,428	3,632	1.58	1.35	1.16	43	73,368
Guadalajara, Mexico	59	3,148	3,262	3,839	4,451	3.55	3.25	2.96	78	40,364
Caracas, Venezuela	60	3,148	3,188	3,338	3,435	1.26	0.92	0.57	54	58,296
Wuhan, China	61	3,144	3,169	3,325	3,495	0.78	0.96	1.00	65	48,376
Toronto, Canada	62	3,080	3,108	3,296	3,296	0.89	1.17	-	154	20,001
Greater Berlin, Germany	63	3,024	3,022	3,018	3,006	-0.07	-0.03	-0.08	274	11,036
<b>Detroit, United States</b>	<b>64</b>	<b>3,022</b>	<b>2,995</b>	<b>2,865</b>	<b>2,735</b>	<b>-0.90</b>	<b>-0.89</b>	<b>-0.93</b>	<b>468</b>	<b>6,457</b>
Rome, Italy	65	3,005	3,021	3,079	3,129	0.52	0.38	0.32	69	43,556
Naples, Italy	66	2,940	2,960	3,051	3,134	0.67	0.61	0.54	62	47,424
Porto Alegre, Brazil	67	2,912	3,015	3,541	4,109	3.46	3.22	2.98	231	12,608
Melbourne, Australia	68	2,896	2,907	2,946	2,968	0.38	0.27	0.15	327	8,856
Montreal, Canada	69	2,882	2,896	2,996	3,071	0.48	0.68	0.49	164	17,572
Alexandria, Egypt	70	2,850	2,899	3,114	3,304	1.72	1.43	1.18	35	81,420
Casablanca, Morocco	71	2,807	2,891	3,327	3,795	2.95	2.81	2.63	35	80,202
Rangoon, Burma	72	2,760	2,813	3,075	3,332	1.90	1.78	1.61	47	58,724
Monterrey, Mexico	73	2,730	2,837	3,385	3,974	3.85	3.53	3.21	77	35,448
Kiev, Soviet Union	74	2,700	2,751	2,983	3,237	1.87	1.62	1.63	62	43,548
<b>Dallas, United States</b>	<b>75</b>	<b>2,689</b>	<b>2,743</b>	<b>2,972</b>	<b>3,257</b>	<b>1.98</b>	<b>1.60</b>	<b>1.83</b>	<b>419</b>	<b>6,418</b>
Ankara, Turkey	76	2,687	2,782	3,263	3,777	3.48	3.19	2.93	55	48,852
Singapore, Singapore	77	2,666	2,695	2,816	2,913	1.06	0.88	0.68	78	34,185
Harbin, China	78	2,598	2,618	2,747	2,887	0.78	0.96	0.99	30	86,591
<b>Washington, United States</b>	<b>79</b>	<b>2,529</b>	<b>2,547</b>	<b>2,637</b>	<b>2,707</b>	<b>0.73</b>	<b>0.69</b>	<b>0.52</b>	<b>357</b>	<b>7,082</b>
Taegu, South Korea	80	2,413	2,529	3,201	4,051	4.71	4.71	4.71	(NA)	(NA)
Lisbon, Portugal	81	2,366	2,396	2,551	2,717	1.26	1.26	1.26	(NA)	(NA)
Poona, India	82	2,351	2,447	2,987	3,647	3.99	3.99	3.99	(NA)	(NA)
<b>Boston, United States</b>	<b>83</b>	<b>2,473</b>	<b>2,475</b>	<b>2,480</b>	<b>2,485</b>	<b>0.08</b>	<b>0.04</b>	<b>0.04</b>	<b>303</b>	<b>8,162</b>
Chengdu, China	84	2,331	2,349	2,465	2,591	0.77	0.96	1.00	25	93,242
Tashkent, Soviet Union	85	2,313	2,365	2,640	2,947	2.20	2.20	2.20	(NA)	(NA)
Budapest, Hungary	86	2,300	2,301	2,313	2,335	0.04	0.10	0.19	138	16,666
Chongqing, China	87	2,284	2,339	2,632	2,961	2.36	2.36	2.36	(NA)	(NA)
Vienna, Austria	88	2,282	2,313	2,474	2,647	1.35	1.35	1.35	(NA)	(NA)
<b>Houston, United States</b>	<b>89</b>	<b>2,258</b>	<b>2,298</b>	<b>2,456</b>	<b>2,651</b>	<b>1.74</b>	<b>1.33</b>	<b>1.53</b>	<b>310</b>	<b>7,284</b>
Birmingham, United Kingdom	90	2,178	2,170	2,130	2,078	-0.37	-0.37	-0.49	223	9,768
Bucharest, Romania	91	2,139	2,150	2,214	2,271	0.52	0.59	0.51	52	41,132
Salvador, Brazil	92	2,123	2,209	2,694	3,286	3.97	3.97	3.97	(NA)	(NA)
Havana, Cuba	93	2,087	2,109	2,218	2,333	1.01	1.01	1.01	(NA)	(NA)
Kanpur, India	94	2,024	2,076	2,356	2,673	2.53	2.53	2.53	(NA)	(NA)

- Represents zero. NA Not available. <sup>1</sup> Includes Windsor, Canada.Source: U.S. Bureau of the Census, *World Population Profile: 1989*.



## No. 1438. Percent Distribution of Households by Type, Selected Countries: 1960 to 1988

COUNTRY AND YEAR	Total	MARRIED-COUPLE <sup>1</sup>			Single parent <sup>2</sup>	One-person	Other <sup>3</sup>
		Total	With children <sup>2</sup>	Without children <sup>2</sup>			
United States:							
1960	100.0	74.3	44.2	30.1	4.4	13.1	8.2
1970	100.0	70.5	40.3	30.3	5.0	17.1	7.4
1980	100.0	60.8	30.9	29.9	7.5	22.7	9.0
1987	100.0	57.6	27.5	30.0	8.1	23.6	10.7
1988	100.0	56.9	27.0	29.9	8.0	24.0	11.1
Canada:							
1961	100.0	<sup>4</sup> 78.0	<sup>4</sup> 50.8	<sup>4</sup> 26.7	<sup>4</sup> 3.8	9.3	<sup>4</sup> 8.9
1971	100.0	74.0	46.5	27.5	4.5	13.4	8.1
1981	100.0	66.8	36.3	30.5	5.3	20.3	7.6
1986	100.0	64.5	32.3	32.2	5.6	21.5	8.4
Japan:							
1960	100.0	65.3	49.4	15.9	3.1	17.2	14.4
1970	100.0	64.3	44.6	19.7	2.3	20.3	13.1
1980	100.0	68.4	42.9	25.6	2.2	19.8	9.6
1985	100.0	67.4	39.2	28.2	2.5	20.8	9.3
Denmark: <sup>5</sup>							
1976	100.0	44.5	23.5	21.0	4.9	(NA)	(NA)
1983	100.0	43.7	22.6	21.1	5.4	(NA)	(NA)
1988	100.0	41.0	19.9	21.1	5.1	(NA)	(NA)
France:							
1968	100.0	70.1	43.6	26.5	4.2	20.3	5.4
1975	100.0	68.8	42.1	26.8	4.1	22.1	5.0
1982	100.0	67.0	39.7	27.2	4.3	24.6	4.1
1988	100.0	63.4	36.2	27.3	5.1	27.1	4.4
Netherlands:							
1961	100.0	77.6	55.4	22.3	5.7	11.9	4.8
1971	100.0	74.1	51.8	22.3	5.1	17.1	3.7
1981	100.0	66.5	43.7	22.9	6.1	21.4	6.0
1985	100.0	60.0	38.5	21.5	6.7	27.8	5.5
Sweden:							
1960	100.0	66.4	35.7	30.6	3.5	20.2	9.9
1970	100.0	64.3	30.2	34.1	3.2	25.3	7.2
1980	100.0	57.9	24.8	33.1	3.1	32.8	6.2
1985	100.0	54.8	21.7	33.1	3.2	36.1	5.9
United Kingdom: <sup>6</sup>							
1961	100.0	73.7	37.8	36.0	2.3	11.9	12.1
1971	100.0	69.7	34.4	35.2	2.8	18.1	9.4
1981	100.0	64.3	30.5	33.7	4.7	21.8	9.2
1987	100.0	64.0	28.0	36.0	4.0	25.0	7.0
West Germany:							
1961	100.0	66.7	44.3	22.4	10.8	20.6	1.9
1970	100.0	64.8	41.7	23.1	6.2	26.5	2.5
1980	100.0	60.5	37.0	23.5	6.6	30.2	2.7
1988	100.0	54.3	31.4	22.9	6.7	34.9	4.1

NA Not available. <sup>1</sup> May include unmarried cohabitating couples. Such couples are explicitly included under married couples in Canada (beginning in 1981) and France. For Sweden, beginning in 1980, all cohabitants are included as married couples, and the figures for 1970 have been adjusted to include all cohabitants. For Denmark, from 1983 onward, persons reported separately as living in consensual unions with joint children have been classified here as married couples. In other countries, some unmarried cohabitants are included as married couples, while some are classified under "other households", depending on responses to surveys and censuses. <sup>2</sup> Children are defined as unmarried children living at home according to the following age limits: Under 18 years old in the United States, Canada, Japan, Denmark, and the United Kingdom, except that the United Kingdom includes 16- and 17-year-olds only if they are in full-time education; under 25 years old in France; under 18 years old in Sweden; and children of all ages in the Netherlands and West Germany. <sup>3</sup> Includes both family and nonfamily households not elsewhere classified. These households comprise, for example, siblings residing together, other households composed of relatives, and households made up of roommates. Some unmarried cohabitating couples may also be included in the "other" group. See footnote 1. <sup>4</sup> Estimated by the U.S. Bureau of Labor Statistics. <sup>5</sup> From family-based statistics. However, one person living alone constitutes a family in Denmark. In this respect, the Danish data are closer to household statistics. <sup>6</sup> Great Britain only (excludes Northern Ireland).

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, March 1990.

## No. 1439. Marriage and Divorce Rates, Selected Countries: 1960 to 1988

COUNTRY	MARRIAGE RATE PER 1,000 POPULATION, AGES 15 TO 64						DIVORCE RATE PER 1,000 MARRIED WOMEN					
	1960	1970	1980	1985	1987	1988	1960	1970	1980	1986	1987	1988
United States <sup>1</sup>	14.1	17.0	15.9	15.0	15.0	14.7	9.2	14.9	22.6	21.2	20.8	(NA)
Canada	12.4	14.3	11.8	10.2	10.5	10.7	1.8	6.3	10.8	12.6	14.4	12.6
Denmark	12.2	11.5	7.9	9.0	9.1	9.3	5.9	7.6	11.2	12.8	12.7	13.1
France	11.3	12.4	9.7	7.3	7.2	7.4	2.8	3.3	8.3	8.5	8.4	8.4
Italy	11.7	11.3	8.7	7.5	7.8	7.9	(NA)	1.3	0.8	1.1	1.8	2.1
Japan	14.5	14.4	9.8	8.6	8.3	8.4	3.6	3.9	4.8	5.4	5.1	4.9
Netherlands	12.7	15.2	9.6	8.7	8.6	8.6	2.2	3.3	7.5	6.7	8.1	8.1
Sweden	10.2	8.2	7.1	7.2	7.6	8.1	5.0	6.6	11.4	11.7	11.4	11.4
United Kingdom	11.5	13.5	11.6	10.6	10.6	10.5	22.0	24.7	21.0	12.9	12.2	12.3
West Germany	13.9	11.5	8.9	8.7	8.9	9.3	3.6	5.1	6.1	6.3	6.8	(NA)

NA Not available. <sup>1</sup> Beginning 1980, includes uncensored marriages registered in California. <sup>2</sup> England and Wales only.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, March 1990, and unpublished data.

## No. 1440. Births to Unmarried Women, Selected Countries: 1960 to 1988

[For U.S. figures, beginning 1980, marital status is inferred from a comparison of the child's and parents' surnames on the birth certificate for those States that do not report on marital status. No estimates are included for misstatements on birth records or failures to register births]

COUNTRY	1960		1970		1980		1988	
	Total live births (1,000)	Percent born to unmarried women	Total live births (1,000)	Percent born to unmarried women	Total live births (1,000)	Percent born to unmarried women	Total live births (1,000)	Percent born to unmarried women
United States	4,258	5.3	3,731	10.7	3,612	18.4	3,910	25.7
Canada	478.6	4.3	372.0	9.6	370.7	12.8	376.8	21.2
Denmark	76.1	7.8	70.8	11.0	57.3	33.2	58.8	44.7
France	819.8	6.1	850.4	6.8	800.4	11.4	771.3	26.3
Italy	910.2	2.4	901.5	2.2	640.4	4.3	568.3	5.8
Japan	1,624	1.2	1,932	0.9	1,616	0.8	1,322	1.0
Netherlands	239.1	1.3	238.9	2.1	181.3	4.1	186.6	10.2
Sweden	102.2	11.3	110.2	18.4	97.1	39.7	112.1	50.9
United Kingdom	918.3	5.2	903.9	8.0	753.7	11.5	787.6	25.1
West Germany	968.6	6.3	810.8	5.5	620.7	7.6	677.3	10.0

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, March 1990, and unpublished data.

## No. 1441. Death Rates, by Selected Causes—Selected Countries

[Age-standardized death rate per 100,000 population. For explanation of age-adjustment, see text, section 2. The standard population for this table is the European standard; see source for details. Deaths classified according to ninth revision of *International Classification of Diseases*; see text, section 2]

COUNTRY	Year	Ischemic heart disease	Cerebrovascular disease	MALIGNANT NEOPLASM OF—			Bronchitis, emphysema, asthma	Chronic liver disease and cirrhosis	Motor vehicle traffic accidents	Suicide and self-inflicted injury
				Lung, trachea, bronchus	Stomach	Female breast				
United States	1987	193.4	54.6	54.9	5.5	31.6	8.7	11.8	18.5	12.5
Australia	1987	210.0	81.7	38.7	8.7	29.2	15.2	8.5	16.3	14.0
Austria	1988	147.9	111.1	34.8	18.8	32.0	17.2	24.1	17.6	22.6
Belgium	1986	110.4	89.0	55.5	13.8	38.1	26.3	12.6	19.6	21.0
Bulgaria	1987	227.2	231.5	32.0	23.9	19.7	20.0	16.4	12.2	16.0
Canada	1987	188.1	54.8	52.2	9.0	34.4	8.8	9.4	15.6	13.9
Czechoslovakia	1988	268.5	176.1	52.5	20.8	28.4	25.4	20.6	10.6	18.1
Denmark	1987	232.8	70.1	53.4	9.9	40.3	35.5	13.2	12.4	26.8
Finland	1987	255.9	106.5	36.9	16.6	23.7	18.1	8.6	10.3	26.7
France	1987	69.8	67.7	33.7	10.0	27.5	10.3	20.0	16.1	20.9
Hungary	1988	235.6	173.2	55.7	24.8	31.1	36.0	42.4	16.6	39.9
Italy	1986	101.9	110.9	42.5	21.4	28.6	28.2	27.5	15.2	7.6
Japan	1988	40.3	103.1	26.2	38.0	8.4	11.4	13.6	10.7	18.1
Netherlands	1987	148.6	67.0	55.5	14.8	39.0	17.5	5.4	9.0	10.8
New Zealand	1986	249.3	93.4	43.6	11.5	35.4	21.2	4.0	21.8	13.1
Norway	1987	204.7	86.6	27.1	13.4	26.6	14.2	7.4	8.8	15.4
Poland	1988	111.8	73.2	49.5	23.0	21.7	26.5	11.4	14.9	13.0
Portugal	1988	78.6	210.3	18.9	26.0	23.3	13.0	27.7	26.9	7.9
Spain	1985	78.3	114.4	28.8	17.6	21.0	13.4	22.1	14.5	6.6
Sweden	1987	213.7	68.8	23.5	10.6	25.1	12.5	6.4	8.4	17.3
Switzerland	1988	111.4	60.6	37.0	10.9	35.0	17.5	10.8	13.3	20.7
United Kingdom										
England and Wales	1988	223.5	92.1	55.5	14.0	41.7	16.3	5.2	8.1	8.0
Scotland	1988	279.1	118.5	68.1	14.9	38.3	11.1	8.3	10.3	11.4
West Germany	1988	155.6	91.2	35.8	17.2	33.5	22.3	19.8	11.6	15.5

<sup>1</sup> Data for female population only. <sup>2</sup> Chronic and unspecified.

Source: World Health Organization, Geneva, Switzerland, 1989 *World Health Statistics Annual*.

**No. 1442. Suicide Rates for Selected Countries, by Sex and Age Group**

[Rate per 100,000 population. Includes deaths resulting indirectly from self-inflicted injuries. Except as noted, deaths classified according to the ninth revision of the *International Classification of Diseases* (I.C.D.); see text, section 2]

SEX AND AGE	United States, 1987	Australia, 1987	Austria, 1988	Canada, 1987	Denmark, 1987	France, 1987	Italy, 1986	Japan, 1988	Netherlands, 1987	Poland, 1988	Sweden, 1987	United Kingdom, 1988	West Germany, 1988
<b>MALE</b>													
Total <sup>3</sup>	20.5	21.8	36.6	22.1	36.1	31.7	11.8	23.8	13.7	20.5	26.0	13.0	25.0
15-24 yrs. old	21.3	24.4	27.2	25.5	16.5	14.7	4.9	10.4	9.2	14.5	16.9	12.3	15.8
25-34 yrs. old	24.8	28.8	38.6	30.9	36.1	32.5	9.4	21.9	15.3	28.9	30.0	16.4	22.7
35-44 yrs. old	22.8	27.9	42.2	25.6	49.6	38.5	10.6	26.6	16.1	30.6	30.2	18.4	24.4
45-54 yrs. old	23.8	27.7	48.1	30.2	59.1	44.3	15.1	41.2	18.0	36.5	41.9	15.8	33.0
55-64 yrs. old	26.6	29.7	47.6	26.4	57.3	43.9	19.3	37.8	18.5	30.7	29.7	16.0	35.5
65-74 yrs. old	34.8	28.7	58.6	31.0	49.0	54.9	29.3	39.2	26.3	29.0	39.4	15.9	41.3
75 yrs. old and over	59.0	45.3	107.5	28.6	72.9	113.4	49.4	72.2	41.8	31.6	50.2	24.0	77.8
<b>FEMALE</b>													
Total <sup>3</sup>	5.2	5.7	13.3	6.2	19.9	12.5	4.7	13.7	8.4	4.3	10.9	4.6	10.8
15-24 yrs. old	4.3	6.0	4.7	5.0	8.3	4.1	1.6	6.5	3.6	2.4	5.6	2.7	4.7
25-34 yrs. old	5.9	6.1	10.3	7.7	12.3	9.8	2.4	9.3	9.4	5.0	10.3	4.1	7.7
35-44 yrs. old	7.2	7.5	13.8	9.0	24.7	14.2	4.6	10.4	9.5	5.8	14.8	5.4	9.5
45-54 yrs. old	8.5	8.6	16.5	10.0	34.2	19.4	6.0	16.6	13.7	7.6	20.1	6.5	13.6
55-64 yrs. old	7.7	8.7	22.5	8.2	39.2	19.3	8.5	19.3	14.2	7.3	13.2	6.9	14.6
65-74 yrs. old	7.2	9.4	22.9	7.6	32.6	23.5	11.2	30.6	14.5	7.1	12.6	8.4	19.5
75 yrs. old and over	6.4	7.4	29.7	6.9	28.2	26.9	12.1	54.9	13.2	6.9	18.3	8.0	24.1

<sup>1</sup> Based on the eighth revision of the I.C.D. <sup>2</sup> England and Wales only. <sup>3</sup> Includes other age groups not shown separately.

Source: World Health Organization, Geneva, Switzerland, 1989 *World Health Statistics Annual*.

**No. 1443. Health Expenditures—Selected Countries: 1980 to 1988**

[G.D.P.—gross domestic product; for explanation, see text, section 14. For explanation of purchasing power parities, see text, section 31]

COUNTRY	TOTAL HEALTH EXPENDITURES				PUBLIC HEALTH EXPENDITURES			
	Percent of G.D.P.			Per capita, 1988 on basis of G.D.P. purchasing power parities	1987		1988	
	1980	1987	1988		Percent of gross domestic product	Percent of total health expenditures	Percent of gross domestic product	Percent of total health expenditures <sup>1</sup>
United States	9.3	10.9	11.2	2,123	4.7	42.6	4.7	42.1
Australia	6.5	7.2	7.0	990	5.1	70.5	4.9	70.5
Austria	7.9	8.4	8.4	1,053	5.6	67.1	5.7	67.4
Belgium	6.2	7.1	7.3	919	6.3	89.1	6.5	89.1
Canada	7.4	8.8	8.5	1,554	6.5	74.2	6.3	74.6
Denmark	6.8	6.4	6.2	850	5.4	84.5	5.3	84.9
Finland	6.5	7.4	7.2	998	5.8	78.7	5.7	78.6
France	7.6	8.6	8.7	1,178	6.4	75.1	6.4	74.2
Germany	8.5	8.6	8.6	1,212	6.3	73.6	6.3	73.6
Greece	4.3	5.2	5.7	388	4.0	79.3	4.6	79.6
Iceland	6.4	7.9	8.5	1,344	6.9	87.3	7.4	89.6
Ireland	9.0	8.1	7.9	645	6.6	81.2	6.5	81.8
Italy	6.7	7.2	7.3	955	5.7	79.2	5.8	78.8
Japan	6.4	6.8	6.7	978	4.9	72.7	5.0	73.5
Luxembourg	6.8	7.5	7.3	1,132	6.8	91.6	6.7	91.5
Netherlands	8.2	8.5	8.4	1,071	6.3	74.5	6.2	73.6
New Zealand	7.2	7.3	7.4	815	6.2	84.7	6.3	84.7
Norway	6.6	7.5	7.4	1,211	7.3	97.5	6.9	93.5
Portugal	5.9	6.4	6.5	438	3.9	60.7	3.9	60.8
Spain	5.6	5.8	6.1	568	4.5	78.3	4.8	79.2
Sweden	9.5	9.0	9.0	1,328	8.2	90.8	8.1	90.4
Switzerland	7.3	7.8	7.9	1,301	5.3	68.5	5.4	68.2
Turkey	4.1	3.5	(NA)	(NA)	1.4	41.3	(NA)	(NA)
United Kingdom	5.8	6.1	5.9	795	5.2	86.0	5.1	86.1

NA Not available. <sup>1</sup> Preliminary estimates.

Source: Organization for Economic Cooperation and Development, Paris, France, *Health OECD: Facts and Trends, 1990*.

**No. 1444. Enrollment and Expenditures for K-12 and Higher Education: 1985**

[Data for public expenditures except where noted. Enrollment includes students in public and private schools. K-12 represents preprimary, primary, and secondary education]

COUNTRY	ENROLLMENT, PERCENT OF TOTAL POPULATION		EXPENDITURES, PERCENT OF GROSS DOMESTIC PRODUCT <sup>1</sup>			EXPEN- DITURES PER PUPIL, K-12, BASED ON 1985 OECD PPP <sup>2</sup>
	K-12	Higher education	All levels	K-12	Higher education	
United States <sup>3</sup>	19.7	5.1	6.2	3.8	2.5	3,314
Australia	18.9	2.3	5.0	3.1	1.5	1,983
Austria	15.8	2.3	5.2	3.6	0.9	2,497
Belgium	19.7	2.5	5.8	4.1	1.0	2,234
Canada	19.4	4.9	6.3	4.0	1.8	3,192
Denmark <sup>4</sup>	18.3	2.3	6.8	4.3	1.4	3,123
France	21.8	2.3	5.5	3.9	0.7	2,032
Ireland	25.6	2.0	5.6	4.4	1.0	1,161
Italy <sup>5</sup>	19.5	2.0	5.2	3.3	0.5	(NA)
Japan <sup>6</sup>	20.0	1.9	4.8	3.1	1.0	1,805
Netherlands	20.2	62.7	6.0	3.5	1.6	1,956
New Zealand	22.9	2.9	4.1	2.8	1.2	1,252
Norway	19.8	2.3	5.6	4.1	0.8	2,900
Sweden	18.0	2.2	7.2	4.9	0.9	3,214
Switzerland	14.2	1.7	4.7	3.6	0.8	3,683
United Kingdom	16.8	1.8	4.8	2.3	0.9	2,251
West Germany	18.0	2.5	4.1	2.2	0.9	2,253

NA Not available. <sup>1</sup> Gross domestic product data from Statistical Office of the United Nations, New York, New York, *Statistical Yearbook* (copyright). <sup>2</sup> U.S. data from U.S. National Center for Education Statistics, *Digest of Education Statistics, 1989*. Based on OECD's 1985 Purchasing Power Parities Index. See headnote, table 1448. <sup>3</sup> Data for public and private expenditures. <sup>4</sup> 1986 data. <sup>5</sup> 1983 data. <sup>6</sup> 1984 data.

Source: Except where noted, United Nations Educational, Scientific, and Cultural Organization, Paris, France, *Statistical Yearbook* (copyright).

**No. 1445. Organization for Economic Cooperation and Development (OECD)—Gross National Product: 1980 to 1989**

[For interpretation of the absolute levels of GNP and per capita GNP, the market exchange rates used in converting national currencies do not necessarily reflect the relative purchasing power in the various countries. As a consequence, it should not be concluded, for instance, that the United Kingdom's individual standard of living in 1989 was only 68 percent of that of the U.S., as the statistics may imply. Minus sign (-) indicates decrease. For explanation of annual percent change, see Guide to Tabular Presentation]

COUNTRY	GROSS NATIONAL PRODUCT (GNP)					GNP PER CAPITA					Inflation rate, <sup>2</sup> 1987-1988 (per cent)
	Total in constant (1989) dollars (bil.)			Annual percent change		In constant (1989) dollars			Annual percent change		
	1980	1985	1989	1980- 1989	1988- 1989	1980	1985	1989	1980- 1989	1988- 1989	
United States . . . . .	4,018.3	4,570.3	5,234.0	3.0	3.0	17,643	19,100	21,040	2.0	2.0	4.1
OECD Europe <sup>3</sup>	4,567.0	4,941.0	5,594.7	2.3	3.6	11,599	12,268	13,485	1.7	2.5	5.6
Belgium . . . . .	126.8	132.0	149.4	1.8	4.5	12,873	13,387	15,045	1.7	4.0	3.8
Denmark . . . . .	85.6	97.5	100.9	1.8	1.4	16,719	19,080	19,669	1.8	1.4	4.0
France . . . . .	783.9	845.2	942.1	2.1	3.4	14,549	15,320	16,775	1.6	2.9	3.4
Greece . . . . .	47.5	50.8	54.4	1.5	2.3	4,927	5,116	5,424	1.1	2.1	14.9
Ireland . . . . .	24.8	25.7	28.4	1.5	4.4	7,294	7,260	8,091	1.2	5.3	4.4
Italy . . . . .	697.4	754.8	855.3	2.3	3.3	12,359	13,212	14,870	2.1	3.2	6.3
Luxembourg . . . . .	4.9	5.6	6.6	3.5	4.2	13,611	15,135	17,838	3.1	4.2	3.4
Netherlands . . . . .	193.8	203.8	225.3	1.7	4.2	13,706	14,075	15,192	1.1	3.7	0.8
Portugal . . . . .	35.1	37.0	44.0	2.5	4.8	3,593	3,642	4,202	1.7	2.9	12.8
Spain . . . . .	290.6	311.1	373.5	2.8	4.9	7,741	8,081	9,624	2.4	4.8	6.9
United Kingdom . . . . .	643.7	710.3	819.7	2.7	2.3	11,427	12,545	14,330	2.5	2.1	6.7
West Germany . . . . .	1,013.1	1,075.9	1,209.5	2.0	4.3	16,462	17,632	19,511	1.9	3.3	2.5
Austria . . . . .	105.5	112.8	126.2	2.0	4.2	13,974	14,921	16,562	1.9	3.9	2.5
Finland . . . . .	84.4	97.5	113.9	3.4	4.6	17,657	19,898	22,984	3.0	4.4	6.8
Iceland . . . . .	4.1	4.5	5.1	2.4	-2.7	17,826	18,750	20,320	1.5	-2.7	20.0
Norway . . . . .	65.8	77.5	90.4	3.6	5.8	16,088	18,675	21,371	3.2	5.2	1.8
Sweden . . . . .	152.9	167.3	183.6	2.1	2.1	18,400	20,036	21,625	1.8	1.5	7.4
Switzerland . . . . .	153.2	164.2	183.2	2.0	3.0	24,241	25,379	27,632	1.5	2.5	3.4
Turkey . . . . .	53.9	67.5	83.2	4.8	1.3	1,212	1,370	1,468	2.1	-2.1	69.3
Australia . . . . .	212.3	247.8	284.0	3.2	4.1	14,442	15,693	16,895	1.7	2.4	7.8
Canada . . . . .	394.2	454.1	528.6	3.3	2.9	16,398	17,906	20,137	2.3	1.6	4.8
Japan . . . . .	1,952.0	2,374.5	2,817.5	4.2	4.8	16,711	19,650	22,884	3.5	4.4	1.5
New Zealand . . . . .	33.0	39.4	39.3	2.0	2.2	10,611	12,123	11,893	1.3	1.7	5.9

<sup>1</sup> National currency values converted into dollars by the average 1989 Market Rate, as published by the International Monetary Fund, Washington, DC. <sup>2</sup> GNP or GDP (Gross Domestic Product) implicit price deflators; totals weighted by 1988 (base year) GNP. <sup>3</sup> See text, section 31.

Source: U.S. Department of State, Bureau of Intelligence and Research, *Economic Growth of OECD Countries, 1979-1989*, Report No. IRR 220 (Revised), 1990, and unpublished data.

**No. 1446. Gross National Product in Current and Constant (1988) Dollars and Per Capita: 1980 to 1988**

(In billions of dollars, except per capita. For explanation of conversion to U.S. dollars, see headnote, table 1489. For explanation of gross national product (GNP), see text, section 14)

COUNTRY	CURRENT DOLLARS				CONSTANT (1988) DOLLARS				Per capita (dol.)		
	1980	1985	1987	1988	1980	1985	1987	1988	1980	1985	1988
United States . . . . .	2,732.0	4,015.0	4,524.0	4,881.0	3,865.0	4,389.0	4,674.0	4,881.0	16,970	18,340	19,840
Afghanistan . . . . .	2.9	13.1	12.9	13.1	4.1	13.4	13.0	13.1	278	246	214
Algeria . . . . .	30.2	49.0	52.0	52.3	42.8	53.5	53.7	52.3	2,270	2,427	2,160
Argentina . . . . .	76.3	84.4	97.8	87.3	108.0	92.2	101.1	97.3	3,824	3,038	3,087
Austria . . . . .	78.0	108.9	118.1	123.7	110.3	119.0	122.0	123.7	14,620	15,750	16,330
Bangladesh . . . . .	10.1	15.6	18.0	18.0	14.3	17.1	18.6	19.0	162	168	172
Belgium . . . . .	95.4	128.0	141.8	149.3	135.0	140.0	146.5	149.3	13,710	14,200	15,110
Brazil . . . . .	217.8	300.9	361.8	372.6	308.2	326.9	373.7	372.6	2,502	2,349	2,473
Bulgaria . . . . .	34.9	47.0	51.7	53.8	48.3	51.4	53.4	53.8	5,576	5,743	6,004
Burma . . . . .	5.1	9.9	10.6	11.0	8.6	10.8	11.0	11.0	255	291	278
Canada . . . . .	260.6	384.8	439.7	471.8	368.7	420.6	454.2	471.8	15,320	16,570	18,090
Chile . . . . .	12.7	15.3	18.5	20.3	17.9	16.8	19.1	20.3	1,613	1,389	1,609
China:											
Mainland <sup>1</sup> . . . . .	180.6	377.1	475.0	545.6	255.5	412.2	490.7	545.6	260	394	501
Taiwan . . . . .	46.0	81.7	107.9	119.4	65.1	89.3	111.5	119.4	3,659	4,632	5,968
Colombia . . . . .	21.0	29.4	34.3	36.6	29.7	32.2	35.5	36.6	1,119	1,094	1,168
Czechoslovakia . . . . .	87.7	120.5	131.6	138.4	124.0	131.7	136.0	138.4	8,129	8,494	8,862
East Germany . . . . .	115.0	163.5	178.6	186.5	162.7	178.7	184.5	186.5	9,720	10,740	11,240
Egypt . . . . .	35.6	61.8	69.9	77.6	50.4	67.6	72.2	77.6	1,193	1,376	1,455
Ethiopia . . . . .	3.4	4.2	5.3	5.5	4.7	4.6	5.4	5.5	123	106	114
France . . . . .	573.5	790.8	872.8	920.0	811.4	864.4	901.6	920.0	15,060	15,670	16,490
Ghana . . . . .	3.1	3.9	4.6	5.0	4.4	4.3	4.7	5.0	407	330	349
Greece . . . . .	34.5	46.3	49.1	52.3	48.8	50.6	50.8	52.3	5,064	5,089	5,225
Hungary . . . . .	46.7	62.5	68.1	71.8	66.1	68.3	70.3	71.8	6,174	6,417	6,780
India . . . . .	122.2	208.3	240.0	268.7	173.0	227.7	247.9	268.7	251	297	329
Indonesia . . . . .	38.4	62.4	70.5	76.2	54.4	68.2	72.8	76.2	351	394	414
Iran . . . . .	221.1	311.8	301.6	318.4	312.9	340.9	311.6	318.4	7,988	7,252	6,132
Iraq . . . . .	88.1	61.7	64.0	65.8	124.6	67.4	66.1	65.8	9,441	4,267	3,742
Italy . . . . .	479.6	669.4	752.4	796.5	678.5	731.7	777.3	796.5	12,020	12,810	13,860
Japan . . . . .	1,470.0	2,314.0	2,616.0	2,856.0	2,080.0	2,530.0	2,702.0	2,856.0	17,810	20,950	23,290
Kenya . . . . .	4.2	6.3	7.6	8.3	6.0	6.9	7.8	8.3	358	336	354
Madagascar . . . . .	1.3	1.5	1.6	1.7	1.9	1.7	1.7	1.7	217	168	156
Malaysia . . . . .	16.1	25.7	29.3	32.3	22.8	28.1	30.3	32.3	1,659	1,825	1,972
Mexico . . . . .	112.2	157.5	166.7	173.4	158.7	172.2	172.2	173.4	2,264	2,191	2,076
Morocco . . . . .	10.0	14.4	16.6	18.8	14.1	15.8	17.1	18.8	687	680	753
Mozambique . . . . .	1.0	1.0	0.9	1.0	1.4	1.1	0.9	1.0	117	77	68
Nepal . . . . .	1.5	2.5	2.8	3.2	2.1	2.7	2.9	3.2	143	162	173
Netherlands . . . . .	142.5	194.1	214.9	225.5	201.5	212.2	221.9	225.5	14,250	14,640	15,320
Nigeria . . . . .	21.4	25.4	26.8	28.7	30.2	27.7	27.7	28.7	335	270	256
North Korea . . . . .	21.9	26.3	28.2	29.2	31.0	28.8	29.1	29.2	1,732	1,410	1,328
Pakistan . . . . .	15.6	27.8	32.9	36.4	22.0	30.4	34.0	36.4	258	307	338
Peru . . . . .	26.5	33.1	42.5	39.3	37.5	36.2	43.9	39.3	2,168	1,836	1,846
Philippines . . . . .	26.1	32.1	36.6	40.4	37.0	35.1	37.8	40.4	727	602	639
Poland . . . . .	120.2	160.5	171.2	179.7	170.1	175.5	176.9	179.7	4,780	4,716	4,734
Portugal . . . . .	24.0	31.8	37.8	40.6	34.0	34.7	39.1	40.6	3,474	3,419	3,906
Romania . . . . .	75.8	102.9	111.9	117.7	107.3	112.5	115.6	117.7	4,832	4,949	5,107
South Africa . . . . .	50.2	71.3	78.0	84.1	71.0	78.0	80.6	84.1	2,437	2,379	2,397
South Korea . . . . .	58.9	111.1	146.7	168.0	83.3	121.4	151.5	168.9	2,184	2,958	3,950
Soviet Union . . . . .	1,532.0	2,145.0	2,393.0	2,526.0	2,167.0	2,345.0	2,472.0	2,526.0	8,136	8,408	8,819
Spain . . . . .	193.2	266.8	307.6	330.1	273.3	291.7	317.7	330.1	7,291	7,555	8,418
Sri Lanka . . . . .	3.5	5.8	6.5	6.9	5.0	6.4	6.7	6.9	335	399	415
Sudan . . . . .	5.5	6.4	7.3	7.4	7.8	7.0	7.5	7.4	412	310	306
Sweden . . . . .	107.5	149.3	165.9	175.3	152.1	163.2	171.3	175.3	18,300	19,540	20,880
Switzerland . . . . .	115.7	163.1	180.3	188.9	163.7	178.3	186.3	188.9	25,640	27,300	28,660
Syria . . . . .	9.3	13.6	12.9	14.8	13.1	14.9	13.3	14.8	1,512	1,435	1,275
Tanzania . . . . .	1.8	2.4	2.7	2.9	2.6	2.7	2.8	2.9	137	120	118
Thailand . . . . .	24.3	41.0	49.0	56.3	34.3	44.8	50.7	56.3	731	866	1,031
Turkey . . . . .	32.2	52.3	64.1	68.4	45.5	57.2	66.2	68.4	1,008	1,128	1,263
Uganda . . . . .	2.6	4.0	4.2	4.5	3.7	4.3	4.3	4.5	291	294	271
United Kingdom . . . . .	459.1	657.3	749.7	801.6	649.5	718.5	774.5	801.6	11,530	12,690	14,080
Venezuela . . . . .	40.8	47.7	55.7	60.0	57.7	52.1	57.6	60.0	3,837	3,007	3,198
West Germany . . . . .	748.0	1,029.0	1,133.0	1,213.0	1,058.0	1,124.0	1,171.0	1,213.0	17,190	18,430	19,900
Yugoslavia . . . . .	42.2	55.4	60.3	61.2	59.8	60.6	62.3	61.2	2,679	2,621	2,596
Zaire . . . . .	3.8	4.9	5.5	5.9	5.4	5.3	5.7	5.9	202	174	178

<sup>1</sup> Estimated.

Source: U.S. Arms Control and Disarmament Agency, *World Military Expenditures and Arms Transfers*, annual. Data from International Bank for Reconstruction and Development and U.S. Central Intelligence Agency.

### No. 1447. Annual Growth Rates of Real Gross Domestic Product—International Comparisons, Selected Periods: 1960 to 1988

[In percent. Minus sign (-) indicates decline. See also *Historical Statistics, Colonial Times to 1970*, series F 10-16]

COUNTRY	1960-87	1970-80	1979-80	1980-88	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88
United States .....	3.3	2.7	-0.1	3.2	2.3	-2.6	3.9	7.2	3.8	3.2	3.6	4.5
Per capita .....	2.1	1.7	-1.3	2.2	1.2	-3.6	2.9	6.2	2.8	2.2	2.7	3.5
Canada .....	4.4	4.6	1.5	3.4	3.7	-3.2	3.2	6.4	4.7	3.1	4.5	5.0
Per capita .....	3.1	3.3	0.2	2.4	2.4	-4.2	2.4	5.5	4.0	2.3	3.3	3.8
France .....	3.7	3.3	1.6	1.9	1.2	2.5	0.7	1.3	1.9	2.3	1.9	3.5
Per capita .....	3.0	2.7	1.1	1.5	0.6	2.0	0.2	0.9	1.5	1.9	1.5	3.1
Germany .....	3.1	2.7	1.4	1.7	0.2	-0.6	1.5	2.8	2.0	2.3	1.8	3.7
Per capita .....	2.7	2.5	1.0	1.7	-	-0.6	1.9	3.2	2.2	2.3	1.8	3.2
Italy .....	4.0	3.8	4.2	2.2	1.0	0.3	1.1	3.0	2.6	2.5	3.0	3.9
Per capita .....	3.5	3.3	4.0	2.0	0.8	0.1	0.8	2.7	2.4	2.4	2.8	3.7
Japan .....	6.5	4.6	4.4	4.0	3.9	2.8	3.2	5.0	4.7	2.5	4.4	5.7
Per capita .....	5.5	3.4	3.6	3.4	3.1	2.1	2.5	4.3	4.1	1.8	3.9	5.3
United Kingdom .....	2.5	1.9	-2.2	2.8	-1.3	1.7	3.6	2.1	3.7	3.5	4.7	4.1
Per capita .....	2.2	1.8	-2.4	2.6	-1.4	1.8	3.5	1.9	3.4	3.2	4.4	3.8

- Represents zero.

Source: Organization for Economic Cooperation and Development, Paris, France, *National Accounts, 1960-1988*.

### No. 1448. Gross Domestic Product of Selected Countries as Percent of United States: 1970 to 1988

[Comparisons are based on constant (1985) price data converted to U.S. dollars using 1985 exchange rates]

COUNTRY	GROSS DOMESTIC PRODUCT								PER CAPITA GROSS DOMESTIC PRODUCT							
	1970	1975	1980	1984	1985	1986	1987	1988	1970	1975	1980	1984	1985	1986	1987	1988
United States .....	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Canada .....	7	8	9	9	9	9	9	9	70	80	83	82	83	83	84	84
France .....	13	14	14	13	13	13	13	13	54	58	60	58	57	57	56	56
Germany .....	17	17	17	16	16	16	15	15	58	59	63	62	61	62	61	61
Italy .....	10	11	11	11	11	11	11	11	39	41	46	45	45	45	45	45
Japan .....	26	29	32	33	33	33	34	34	52	57	62	65	66	66	67	68
United Kingdom .....	13	13	12	11	11	11	12	12	48	49	48	48	48	49	50	50

Source: Organization for Economic Cooperation and Development, Paris, France, *National Accounts, 1960-1988*.

### No. 1449. Selected International Economic Indicators: 1970 to 1989

[Data cover gross national product (GNP) at market prices, except for France, Italy, and the United Kingdom, which relate to gross domestic product. Gross fixed capital formation covers private and government sectors except military. Savings data are calculated by deducting outlays—such as personal consumption expenditures, interest paid, and transfer payments to foreigners—from disposable personal income. Minus sign (-) indicates decline]

YEAR	United States	France	West Germany	Italy	Netherlands	United Kingdom	Japan	Canada
GNP growth rates <sup>1</sup> (constant 1982 prices):								
1970 .....	-0.3	5.7	-0.5	5.3	5.4	2.3	10.8	2.5
1980 .....	-0.2	1.6	1.5	4.2	0.8	-2.2	4.3	1.5
1984 .....	6.8	1.3	3.3	3.0	3.2	2.1	5.1	6.1
1985 .....	3.4	1.9	1.9	2.6	2.6	3.6	4.9	4.8
1986 .....	2.7	2.5	2.3	2.5	2.0	3.9	2.5	3.1
1987 .....	3.4	2.2	1.6	3.0	1.1	4.7	4.6	4.4
1988 .....	4.5	3.8	3.7	4.2	2.8	4.6	5.7	4.2
1989 .....	2.5	3.6	3.9	3.2	3.5	2.2	4.9	2.7
Ratio of gross fixed capital formation to GNP (current prices):								
1970 .....	17.7	24.3	25.4	24.5	27.2	18.7	35.6	21.7
1980 .....	19.0	23.0	22.6	24.2	21.1	18.0	31.6	23.9
1984 .....	18.0	19.3	20.0	21.2	18.6	16.7	27.9	19.6
1985 .....	18.1	19.3	19.6	20.8	19.2	16.9	27.7	20.3
1986 .....	17.8	19.2	19.4	19.9	20.1	16.7	27.5	20.7
1987 .....	17.3	19.5	19.4	20.1	20.2	17.4	28.7	21.5
1988 .....	17.1	20.3	19.8	20.0	21.3	18.9	30.4	22.5
1989 .....	16.7	20.8	20.6	20.2	21.9	19.4	31.9	22.8
Ratio of savings to disposable personal income:								
1970 .....	8.1	18.7	14.7	30.3	13.2	9.0	18.2	5.5
1980 .....	7.1	17.6	14.1	30.5	11.0	13.1	17.9	13.3
1984 .....	6.1	14.5	12.8	25.5	13.1	10.5	16.0	14.8
1985 .....	4.4	14.0	12.7	24.7	12.7	9.7	16.0	13.1
1986 .....	4.1	12.9	13.5	23.7	13.1	8.2	16.4	10.5
1987 .....	2.9	11.1	13.6	22.3	12.1	6.6	15.1	9.2
1988 .....	4.2	12.1	13.9	22.8	12.5	5.4	14.8	9.9
1989 .....	4.6	12.3	13.5	(NA)	13.4	6.7	(NA)	10.8

NA Not available. <sup>1</sup> Growth rates represent percentage change from preceding year.

Source: U.S. Dept. of Commerce, International Trade Administration, Office of Finance, Industry, and Trade Information, based on official statistics of listed countries.

### No. 1450. Gross Domestic Product, Total and Per Capita, Using Purchasing Power Parities—Selected Countries: 1970 to 1988

[The goods and services produced in different countries should be valued consistently if the differences observed are meant to reflect real differences in the volumes of goods and services produced. The use of purchasing power parities (PPP) instead of exchange rates is intended to achieve this objective. PPP's show how many units of currency are needed in one country to buy the same amount of goods and services which one unit of currency will buy in the other country. For further explanation of PPP, see text, section 31]

COUNTRY	GROSS DOMESTIC PRODUCT (bil. dol.)						GROSS DOMESTIC PRODUCT PER CAPITA (dollars)					
	1970	1975	1980	1985	1987	1988	1970	1975	1980	1985	1987	1988
United States	1,009.2	1,583.9	2,688.5	3,967.5	4,463.2	4,617.8	4,922	7,334	11,804	16,581	18,297	19,558
OECD Europe	1,041.7	1,700.5	2,859.0	3,980.2	4,453.4	4,766.0	2,825	4,440	7,266	9,857	10,915	11,609
Belgium	28.5	47.4	79.7	106.1	116.0	124.8	2,952	4,844	8,094	10,768	11,751	12,623
Denmark	16.9	26.3	43.0	62.8	67.8	69.7	3,439	5,188	8,389	12,279	13,217	13,555
France	166.2	277.1	467.8	646.6	711.6	760.0	3,274	5,259	8,683	11,720	12,791	13,603
Germany	205.0	319.1	544.1	738.7	812.4	869.1	3,380	5,161	8,838	12,105	13,298	14,161
Greece	13.5	24.3	43.6	59.7	63.5	68.1	1,540	2,690	4,522	6,010	6,347	6,799
Ireland	5.2	9.4	16.9	24.4	26.9	28.8	1,777	2,947	4,977	6,901	7,608	8,146
Italy	152.8	246.3	449.8	624.2	695.6	745.9	2,848	4,443	7,973	10,927	12,133	12,985
Luxembourg	1.2	2.0	3.3	4.8	5.4	5.8	3,676	5,645	9,012	13,003	14,534	15,558
Netherlands	45.1	74.1	122.0	164.3	178.7	189.5	3,456	5,424	8,624	11,339	12,183	12,832
Portugal	12.3	21.4	39.7	53.2	61.5	66.0	1,458	2,451	4,277	5,516	6,309	6,750
Spain	74.6	135.1	213.2	292.5	336.5	364.3	2,203	3,803	5,702	7,597	8,665	9,343
United Kingdom	180.1	279.1	442.2	624.0	713.5	766.6	3,236	4,964	7,852	11,020	12,533	13,428
Austria	20.4	34.8	59.4	81.2	88.4	95.0	2,735	4,591	7,865	10,748	11,667	12,506
Finland	13.2	22.6	37.9	56.1	62.9	68.2	2,861	4,802	7,938	11,447	12,746	13,792
Iceland	0.6	1.1	2.3	3.2	3.9	4.0	2,894	5,192	9,892	13,101	15,866	16,068
Norway	11.9	20.9	38.4	58.0	65.9	68.7	3,063	5,227	9,390	13,963	15,749	16,322
Sweden	30.5	48.7	75.8	106.3	118.0	124.6	3,794	5,947	9,115	12,727	14,055	14,772
Switzerland	29.9	43.7	68.8	94.3	104.4	111.2	4,772	6,832	10,778	14,440	15,775	16,700
Turkey	33.6	66.9	111.0	179.7	220.6	235.8	945	1,658	2,482	3,547	4,171	4,353
Australia	43.4	73.9	123.5	184.4	207.4	221.8	3,389	5,319	8,402	11,682	12,750	13,412
Canada	82.7	149.9	262.9	388.8	441.8	478.7	3,880	6,596	10,924	15,440	17,222	18,446
Japan	286.8	498.0	918.0	1,425.4	1,606.3	1,751.9	2,765	4,466	7,859	11,805	13,157	14,288
New Zealand	9.3	16.1	22.6	33.1	35.3	36.7	3,303	5,216	7,180	10,126	10,679	11,028

<sup>1</sup> See text, section 31.

Source: Organization for Economic Cooperation and Development, Paris, France, *National Accounts of OECD Countries*, vol. I, annual.

### No. 1451. Food and Beverage Expenditures as a Percent of Total Private Consumption Expenditures—Selected Countries: 1987

Country	Total	Food	Nonalcoholic beverages	Alcoholic beverages	Country	Total	Food	Nonalcoholic beverages	Alcoholic beverages
United States	12.2	10.3	0.6	1.3	Mexico <sup>2</sup>	35.3	31.9	1.2	2.2
Australia	20.0	15.0	0.3	4.7	Netherlands	16.5	14.2	0.5	1.8
Austria	20.6	17.4	0.7	2.5	Norway	22.4	18.1	1.2	3.1
Belgium	21.8	17.7	1.2	2.9	Philippines	53.8	51.3	0.8	1.7
Canada	14.9	11.3	0.6	3.0	Portugal	36.6	34.3	0.3	2.0
Denmark	19.7	15.7	0.6	3.4	South Africa	34.1	28.5	1.4	4.2
Finland	22.7	18.2	0.5	4.0	South Korea	40.3	36.1	0.9	3.3
France	18.9	16.4	0.5	2.0	Soviet Union	38.0	28.0	(NA)	10.0
Greece	37.0	33.2	1.0	2.8	Spain	26.6	25.1	0.4	1.1
India	53.8	52.6	1.4	1.1	Sweden	20.8	17.0	0.5	3.3
Ireland	37.1	23.8	1.4	11.9	Switzerland	25.1	19.9	1.2	4.0
Israel	26.3	23.4	2.3	0.6	United Kingdom	15.2	12.8	0.6	1.8
Italy	22.0	20.5	0.3	1.2	West Germany	20.3	16.6	0.6	3.1
Japan	19.8	18.0	0.6	1.2					

NA Not available. <sup>1</sup> Data for 1986. <sup>2</sup> Data for 1984.

Source: U.S. Dept. of Agriculture, Economic Research Service. Based on data from the United Nations, New York, NY, *National Accounts Statistics*, annual; and various country yearbooks.

### No. 1452. Per Capita Consumption of Pork, Poultry, Beef, and Veal: 1990

[Preliminary. In pounds per capita. Beef, veal, and pork quantities are as of September and in carcass-weight equivalents; poultry quantities are as of July and are on ready-to-cook basis]

PORK			POULTRY			BEEF AND VEAL		
COUNTRY	Quantity	Rank	COUNTRY	Quantity	Rank	COUNTRY	Quantity	Rank
Hungary	168.7	1	United States	91.9	1	Argentina	143.3	1
Denmark	147.7	2	Singapore	81.8	2	Uruguay	127.0	2
Czechoslovakia	130.3	3	Israel	77.6	3	United States	97.2	3
East Germany	121.7	4	Hong Kong	70.8	4	Australia	88.9	4
Austria	116.0	5	Canada	61.5	5	Canada	86.2	5
West Germany	109.8	6	Saudi Arabia	56.0	6	New Zealand	79.6	6
Belgium-Luxembourg	105.0	7	Australia	54.0	7	U.S.S.R.	67.7	7
Poland	103.2	8	China: Taiwan	53.8	8	Czechoslovakia	65.7	8
Bulgaria	103.0	9	Hungary	51.2	9	France	63.7	9
Spain	100.5	10	Spain	50.3	10	Italy	58.9	10
Netherlands	99.0	11	Portugal	45.9	11	Switzerland	55.6	11
Hong Kong	94.2	12	France	45.0	12	Greece	54.5	12
Switzerland	90.2	13	United Kingdom	42.3	13	Panama	51.8	13
China: Taiwan	85.8	14	Italy	41.0	14	West Germany	50.3	14
France	82.2	15	Ireland	40.4	15	Colombia	49.6	15
United States	63.9	25						

Source: U.S. Department of Agriculture, Foreign Agricultural Service, *World Poultry Situation*, August 1990, and *World Livestock Situation*, October 1990.

### No. 1453. Percent of Households Owning Selected Appliances—Selected Countries: 1988

APPLIANCE	United States <sup>1,2</sup>	Belgium	Denmark	France	Italy	Netherlands	Spain	Sweden	Switzerland	United Kingdom	West Germany
Cassette recorder	(NA)	53	72	66	52	77	38	68	86	80	86
Clothes washer	76	86	67	87	91	89	94	60	68	83	91
Dishwasher	43	27	27	24	24	9	13	30	32	9	34
Food processor	(NA)	91	83	83	48	84	50	77	91	80	92
Freezer (separate)	(NA)	58	63	37	42	47	18	70	68	39	78
Microwave oven	61	8	9	17	10	22	2	25	15	35	20
Radio	(NA)	90	98	98	(NA)	97	95	93	99	90	84
Range: Electric <sup>2</sup>	57	46	(NA)	12	6	10	<sup>3</sup> 93	<sup>4</sup> 93	14	60	98
Refrigerator	86	94	84	97	88	98	<sup>5</sup> 94	<sup>5</sup> 96	96	93	91
Television set:											
Color/mono	93	95	96	98	94	97	98	90	88	98	93
Tumble-drier	<sup>6</sup> 51	21	(NA)	(NA)	10	13	2	25	14	31	(NA)
Vacuum cleaner	(NA)	91	75	88	90	99	47	98	98	97	97
Video recorder	(NA)	13	15	10	9	32	19	10	14	49	30

NA Not available. <sup>1</sup> Represents appliances possessed and generally used by the household (as of November). Source: U.S. Energy Information Administration, *Annual Energy Review*, 1989. <sup>2</sup> 1987 data. <sup>3</sup> Includes gas ranges. <sup>4</sup> 1984 data. <sup>5</sup> Includes refrigerator/freezers. <sup>6</sup> Electric tumble-driers. Source: Except as noted, Euromonitor Publications Limited, London, England, *European Marketing Data and Statistics*, annual. (Copyright.)

### No. 1454. Motor-Vehicle Deaths, Rates, and Vehicle Registrations, by Nation

[Deaths are included if they occur within 30 days after the accident, except as noted. Death data must be compared cautiously because of differences in the volume and kinds of traffic, numbers of vehicles, population density, definitions of deaths, and other factors]

MOTOR VEHICLE TRAFFIC DEATHS				1988 VEHICLE REGISTRATIONS			COUNTRY	MOTOR VEHICLE TRAFFIC DEATHS			1988 VEHICLE REGISTRATIONS		
COUNTRY	Year	Number	Rate <sup>1</sup>	All vehicles (mil.)	Passenger cars			Year	Number	Rate <sup>1</sup>	All vehicles (mil.)	Passenger cars	
					Number (mil.)	Persons per car						Number (mil.)	Persons per car
United States	1987	<sup>2</sup> 47,297	19.4	184.4	43.1	1.8	Ireland	1987	444	12.5	1.0	0.7	5.0
Australia	1986	3,078	18.6	9.2	7.2	2.2	Italy	1986	<sup>3</sup> 9,329	16.3	23.5	25.5	2.4
Austria	1988	1,465	19.3	3.5	2.8	3.7	Japan	1988	13,420	11.0	52.5	30.8	4.0
Belgium	1986	<sup>2</sup> 2,057	20.9	4.0	3.6	3.8	Netherlands	1987	1,397	9.5	5.8	5.3	2.8
Canada	1987	<sup>2</sup> 4,180	16.3	15.9	11.9	2.1	New Zealand	1986	762	23.2	1.9	1.6	2.2
Denmark	1988	723	14.1	1.9	1.6	4.3	Norway	1987	405	9.7	1.9	1.6	2.6
Finland	1987	537	10.9	2.0	1.8	2.8	Sweden	1987	764	9.1	3.8	3.5	2.4
France	1988	<sup>4</sup> 10,165	18.2	25.3	22.4	2.5	Switzerland	1988	957	14.5	3.2	2.8	2.3
Greece	1987	1,869	18.7	2.2	1.5	6.7	West Germany	1988	7,905	12.9	31.0	29.2	2.1

<sup>1</sup> Deaths per 100,000 population. <sup>2</sup> Deaths occurring within one year after the accident. <sup>3</sup> Deaths occurring at the accident scene only. <sup>4</sup> Deaths occurring within three days after the accident. Source: World Health Organization, Geneva, Switzerland, unpublished data; and Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *MVMA Motor Vehicle Facts & Figures*, annual.

### No. 1455. Percentage of Population Served by Waste Water Treatment Plants—Selected Countries: 1970 to 1987

[Primary: Removal of 20 to 30 percent of the biological oxygen demand (BOD) or more; Secondary: Removal of 80 to 90 percent of BOD or more; Tertiary: Removal of 95 percent of BOD or more]

COUNTRY	PERCENTAGE OF POPULATION SERVED, TOTAL				PRIMARY TREATMENT ONLY				PRIMARY AND SECONDARY AND/OR TERTIARY TREATMENT			
	1970	1980	1985	1987	1970	1980	1985	1987	1970	1980	1985	1987
United States <sup>1</sup>	42.0	70.0	<sup>2</sup> 74.0	(NA)	(NA)	17.0	<sup>2</sup> 15.0	(NA)	(NA)	53.0	<sup>2</sup> 59.0	(NA)
Belgium	3.8	<sup>3</sup> 22.9	(NA)	(NA)	(NA)	-	(NA)	(NA)	3.8	<sup>3</sup> 22.9	(NA)	(NA)
Canada <sup>4</sup>	(NA)	56.0	57.0	62.6	(NA)	13.0	10.0	14.7	(NA)	43.0	47.0	51.5
France	19.0	43.0	<sup>2</sup> 49.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Italy	<sup>5</sup> 14.0	30.0	(NA)	(NA)	<sup>6</sup> 8.0	(NA)	(NA)	(NA)	<sup>6</sup> 6.0	(NA)	(NA)	(NA)
Japan	16.0	30.0	<sup>2</sup> 36.0	39.0	(NA)	(NA)	(NA)	(NA)	<sup>6</sup> 16.0	<sup>6</sup> 30.0	<sup>2</sup> 36.0	<sup>6</sup> 39.0
Netherlands	(NA)	68.0	85.0	90.0	(NA)	7.0	7.0	7.0	(NA)	61.0	78.0	83.0
Spain	(NA)	17.9	29.0	(NA)	(NA)	8.8	13.2	(NA)	(NA)	9.1	15.8	(NA)
Sweden	78.0	99.0	100.0	100.0	23.0	1.0	1.0	1.0	55.0	98.0	99.0	99.0
Switzerland	35.0	70.0	81.0	85.0	-	-	-	-	35.0	70.0	81.0	85.0
United Kingdom <sup>8</sup>	(NA)	82.0	83.0	84.0	(NA)	6.0	6.0	6.0	(NA)	76.0	77.0	78.0
West Germany	<sup>9</sup> 61.8	81.8	<sup>10</sup> 86.0	(NA)	<sup>9</sup> 20.5	10.2	<sup>10</sup> 7.5	(NA)	<sup>9</sup> 41.3	71.6	<sup>10</sup> 79.0	(NA)

- Represents zero. NA Not available. <sup>1</sup> Beginning 1980, data not comparable with 1970 data and data for secondary treatment include 1 percent and 2 percent of non-discharge treatment. Primary treatment may provide some biological treatment. Secondary is preliminary treatment plus biological process with no additional treatment except disinfection. <sup>2</sup> 1984 data. <sup>3</sup> 1979 data. <sup>4</sup> Secondary usually includes private treatment and includes waste stabilization ponds. Tertiary refers to secondary treatment with phosphorus removal. <sup>5</sup> 1971 data. <sup>6</sup> Data for secondary category may include data for primary treatment only. <sup>7</sup> Urban population only (85 percent of total). Primary: Removal of sediments; Secondary: Chemical or biological treatment; Tertiary: Chemical, biological and complementary treatment. <sup>8</sup> England and Wales only. Primary: Removal of gross solids; Secondary: Aerobic removal of organic material or bacteria; Tertiary: Removal of suspended solids following secondary treatment. <sup>9</sup> 1969 data. <sup>10</sup> 1983 data.

Source: Organization for Economic Cooperation and Development, Paris, France, *Environmental Data Compendium*, 1989.



# **No. 1456. Communications—Telephones, Newspapers, Television, and Radio, by Country**

[See text, section 31, for general comments about the data. For additional data qualifications for countries, see source]

COUNTRY	Tele- phones per 100 popula- tion, 1987	Daily news- paper circula- tion, copies per 1,000 popula- tion, 1988	Televi- sion receivers per 1,000 popula- tion, 1988	Radio receivers per 1,000 popula- tion, 1988	COUNTRY	Tele- phones per 100 popula- tion, 1987	Daily news- paper circula- tion, copies per 1,000 popula- tion, 1988	Televi- sion receivers per 1,000 popula- tion, 1988	Radio receivers per 1,000 popula- tion, 1988
<b>United States . . . .</b>	<b><sup>5</sup>76.0</b>	<b><sup>6</sup>259</b>	<b>812</b>	<b>2,120</b>	Italy . . . . .	<sup>16</sup> 48.8	105	419	790
Algeria . . . . .	3.8	21	71	229	Jamaica . . . . .	<sup>6</sup> 14.6	<sup>6</sup> 45	110	401
Argentina . . . . .	11.6	(NA)	217	666	Japan . . . . .	<sup>7</sup> 145.5	<sup>5</sup> 666	589	863
Australia . . . . .	<sup>7</sup> 55.0	252	484	1,273	Kenya . . . . .	1.4	<sup>6</sup> 13	6	91
Austria . . . . .	52.5	362	487	627	Kuwait . . . . .	18.1	<sup>6</sup> 197	262	329
Bangladesh . . . . .	<sup>9</sup> 0.1	<sup>6</sup> 7	4	41	Lebanon . . . . .	(NA)	97	302	773
Belgium . . . . .	47.8	219	<sup>9</sup> 320	<sup>9</sup> 466	Luxembourg . . . . .	<sup>17</sup> 41.2	395	250	625
Bolivia . . . . .	<sup>6</sup> 2.9	<sup>5</sup> 50	77	574	Madagascar . . . . .	<sup>6</sup> 0.4	6	6	196
Brazil . . . . .	9.3	<sup>7</sup> 48	194	371	Malaysia . . . . .	9.1	<sup>6</sup> 323	142	438
Bulgaria . . . . .	<sup>10</sup> 20.0	267	<sup>9</sup> 189	<sup>9</sup> 224	Mexico . . . . .	<sup>6</sup> 9.6	124	124	241
Burma . . . . .	<sup>10</sup> 0.1	<sup>7</sup> 4	2	79	Morocco . . . . .	1.5	(NA)	<sup>9</sup> 55	207
Cambodia . . . . .	(NA)	(NA)	8	107	Netherlands . . . . .	63.9	314	478	912
Canada . . . . .	78.0	<sup>11</sup> 225	586	960	New Zealand . . . . .	<sup>14</sup> 69.7	327	372	917
Chile . . . . .	6.5	<sup>11</sup> 67	183	338	Nicaragua . . . . .	<sup>5</sup> 1.6	<sup>5</sup> 47	61	246
China:					Nigeria . . . . .	<sup>7</sup> 0.3	<sup>8</sup> 6	6	164
Mainland . . . . .	0.7	<sup>5</sup> 29	24	184	Norway . . . . .	<sup>5</sup> 62.2	551	<sup>9</sup> 350	795
Taiwan . . . . .	<sup>12</sup> 35.9	(NA)	(NA)	(NA)	Pakistan . . . . .	0.7	64	13	86
Colombia . . . . .	8.0	(NA)	110	170	Panama . . . . .	10.7	<sup>8</sup> 61	164	222
Costa Rica . . . . .	14.7	86	80	259	Paraguay . . . . .	2.5	(NA)	24	166
Cuba . . . . .	5.4	129	203	337	Peru . . . . .	<sup>6</sup> 3.1	<sup>16</sup> 31	85	241
Cyprus . . . . .	39.8	125	139	289	Philippines . . . . .	<sup>7</sup> 1.5	56	37	135
Czechoslovakia . . . . .	24.6	345	395	<sup>9</sup> 274	Poland . . . . .	12.2	184	<sup>9</sup> 263	<sup>9</sup> 294
Denmark . . . . .	86.4	359	526	<sup>9</sup> 452	Portugal . . . . .	20.2	<sup>6</sup> 41	<sup>9</sup> 160	215
Dominican Republic . . . . .	<sup>12</sup> 2.9	<sup>8</sup> 42	81	186	Puerto Rico . . . . .	<sup>6</sup> 1420.3	185	249	679
East Germany . . . . .	23.3	585	759	669	Romania . . . . .	(NA)	159	<sup>9</sup> 174	291
Ecuador . . . . .	3.6	<sup>8</sup> 64	81	293	Saudi Arabia . . . . .	<sup>5</sup> 11.3	(NA)	269	280
Egypt . . . . .	2.8	<sup>11</sup> 39	84	312	Singapore . . . . .	44.2	289	360	<sup>9</sup> 307
El Salvador . . . . .	2.7	(NA)	84	402	South Africa . . . . .	<sup>14</sup> 14.3	48	98	323
Ethiopia . . . . .	0.3	1	2	193	South Korea . . . . .	25.5	(NA)	203	986
Finland . . . . .	<sup>7</sup> 61.7	551	486	997	Soviet Union . . . . .	<sup>7</sup> 11.3	474	319	686
France . . . . .	<sup>7</sup> 60.8	<sup>6</sup> 193	399	895	Spain . . . . .	39.6	<sup>6</sup> 75	380	302
Ghana . . . . .	0.6	33	13	294	Sri Lanka . . . . .	0.8	<sup>6</sup> 31	32	191
Greece . . . . .	41.3	(NA)	<sup>9</sup> 175	415	Sudan . . . . .	<sup>5</sup> 0.4	<sup>5</sup> 5	53	233
Guatemala . . . . .	1.6	(NA)	37	63	Sweden . . . . .	<sup>10</sup> 89.0	526	<sup>9</sup> 395	875
Honduras . . . . .	1.2	41	68	383	Switzerland . . . . .	<sup>6</sup> 85.6	504	408	<sup>9</sup> 401
Hong Kong . . . . .	47.0	(NA)	247	634	Syria . . . . .	5.9	<sup>6</sup> 15	59	244
Hungary . . . . .	15.2	273	404	590	Thailand . . . . .	<sup>6</sup> 1.9	(NA)	104	177
Iceland . . . . .	<sup>10</sup> 52.5	<sup>5</sup> 469	<sup>9</sup> 306	<sup>9</sup> 620	Trinidad and Tobago . . . . .	<sup>10</sup> 9.6	139	297	458
India . . . . .	<sup>14</sup> 0.6	<sup>6</sup> 28	<sup>8</sup> 7.3	78	Tunisia . . . . .	4.1	<sup>5</sup> 39	69	180
Indonesia . . . . .	0.5	21	41	146	Turkey . . . . .	9.1	(NA)	172	161
Iran . . . . .	<sup>15</sup> 3.9	<sup>9</sup> 22	53	237	United Kingdom . . . . .	<sup>5</sup> 1452.4	<sup>6</sup> 421	435	1,146
Iraq . . . . .	<sup>7</sup> 5.6	(NA)	68	200	Uruguay . . . . .	14.9	(NA)	173	595
Ireland . . . . .	<sup>7</sup> 26.5	175	260	581	Venezuela . . . . .	9.2	<sup>6</sup> 186	147	428
Israel . . . . .	<sup>14</sup> 44.5	(NA)	265	468	West Germany . . . . .	65.0	<sup>11</sup> 347	<sup>9</sup> 379	<sup>9</sup> 956
					Yugoslavia . . . . .	<sup>6</sup> 15.4	100	<sup>9</sup> 179	<sup>9</sup> 195
					Zimbabwe . . . . .	3.2	26	22	85

NA Not available. <sup>1</sup> As of December 31, except as noted. Comprises public and private telephones installed which can be connected to a central exchange. <sup>2</sup> Publications containing general news and appearing at least 4 times a week; may range in size from a single sheet to 50 or more pages. Circulation data refer to average circulation per issue or number of printed copies per issue and include copies sold outside the country. <sup>3</sup> Estimated number of sets in use, except as noted. <sup>4</sup> Data cover estimated number of receivers in use, except as noted, and apply to all types of receivers for radio broadcasts to the public, including receivers connected to a radio "redistribution system" but excluding television sets. <sup>5</sup> For 1984. <sup>6</sup> For 1986. <sup>7</sup> For 1985. <sup>8</sup> For 1982. <sup>9</sup> Number of licenses issued. <sup>10</sup> For 1983. <sup>11</sup> For 1987. <sup>12</sup> For 1980. <sup>13</sup> For 1980. <sup>14</sup> As of March 31. <sup>15</sup> As of March 21. <sup>16</sup> Includes San Marino. <sup>17</sup> For 1981. <sup>18</sup> Lima only.

Source: Except Taiwan, International Telecommunications Union, Geneva, Switzerland, unpublished data, and United Nations Educational, Scientific, and Cultural Organization, Paris, France, *Statistical Yearbook* (copyright); Taiwan, U.S. Bureau of the Census. Data from Republic of China publications.

## No. 1457. Tax Revenues—Selected Countries: 1980 to 1988

[Covers national and local taxes and Social Security contributions. GDP=Gross domestic product; see text, section 14]

COUNTRY	TAX REVENUES, 1988		PERCENT CHANGE IN TOTAL TAX REVENUE AS EXPRESSED IN NATIONAL CURRENCY					TAX REVENUES AS PERCENT OF GDP				
	Total (bil. dol.)	Per capita (dol.)	1980-1988	1984-1985	1985-1986	1986-1987	1987-1988	1980	1985	1986	1987	1988
United States . . . . .	1,409.2	5,721	(NA)	9.8	5.4	10.2	7.0	29.5	29.2	28.9	30.1	29.8
Australia . . . . .	80.9	4,893	159.7	10.9	12.7	13.8	12.2	28.6	30.2	30.8	31.1	30.8
Austria . . . . .	53.3	7,015	60.7	7.4	5.1	2.8	4.9	41.2	43.1	43.1	42.4	41.9
Belgium . . . . .	89.3	7,014	66.2	7.3	3.8	4.9	3.8	43.5	46.4	45.7	46.1	45.1
Canada . . . . .	189.4	6,529	106.4	7.6	7.8	13.4	6.2	31.6	33.1	33.8	34.9	34.0
Denmark . . . . .	56.0	10,897	121.8	12.2	12.2	6.6	4.5	45.5	49.0	50.8	51.8	52.1
Finland . . . . .	39.9	8,068	162.7	12.9	11.0	2.3	18.6	33.0	37.0	38.5	35.9	37.9
France . . . . .	421.4	7,542	114.3	7.5	6.7	6.5	5.8	41.7	44.5	44.1	44.8	44.4
Greece . . . . .	18.8	1,883	431.9	22.1	25.4	17.3	12.0	29.4	35.1	37.1	38.2	35.9
Ireland . . . . .	13.5	3,810	177.7	5.2	8.4	7.6	12.2	34.0	38.3	39.2	39.5	41.5
Italy . . . . .	307.9	5,360	242.6	10.6	15.7	9.7	12.9	30.2	34.4	36.1	36.2	37.1
Japan . . . . .	903.5	7,388	85.4	8.2	7.4	9.3	10.1	25.5	28.0	28.9	30.1	31.3
Luxembourg . . . . .	3.3	8,739	96.1	9.2	3.9	4.4	7.1	40.9	44.0	43.2	43.2	42.8
Netherlands . . . . .	109.9	7,446	40.9	4.3	4.6	6.2	4.2	45.8	44.9	45.8	48.4	48.2
New Zealand . . . . .	15.8	4,765	218.5	19.0	21.8	22.2	6.7	33.1	34.0	34.7	38.3	37.9
Norway . . . . .	42.8	10,159	107.7	14.8	7.9	4.8	3.6	47.1	47.6	50.0	47.8	46.9
Portugal . . . . .	14.4	1,476	476.3	22.8	32.4	10.4	27.5	28.7	31.6	33.4	31.5	34.6
Spain . . . . .	113.1	2,900	259.9	10.5	22.0	18.8	12.0	24.1	28.8	30.6	32.5	32.8
Sweden . . . . .	100.5	11,914	137.7	9.8	15.0	14.0	7.8	49.1	50.4	53.0	56.0	55.3
Switzerland . . . . .	59.6	8,958	66.5	5.8	8.6	3.0	7.0	30.8	32.0	32.5	32.0	32.5
Turkey . . . . .	16.2	299	2,351.0	71.8	65.2	57.0	63.6	21.7	19.7	22.8	24.1	22.9
United Kingdom . . . . .	306.7	5,372	111.0	9.7	6.6	7.8	11.4	35.4	38.0	37.8	37.2	37.3
West Germany . . . . .	449.6	7,326	40.5	5.6	4.6	4.0	4.5	38.0	38.0	37.6	37.7	37.4

NA Not available.

Source: Organization for Economic Cooperation and Development, Paris, France, *Revenue Statistics of OECD Member Countries*, annual.

## No. 1458. Percent Distribution of Tax Receipts, by Type of Tax—Selected Countries: 1980 to 1988

COUNTRY	Total <sup>1</sup>	INCOME AND PROFITS TAXES <sup>2</sup>			SOCIAL SECURITY CONTRIBUTIONS			TAXES ON GOODS AND SERVICES <sup>5</sup>		
		Total <sup>3</sup>	Individual	Corporate	Total <sup>4</sup>	Employees	Employers	Total <sup>3</sup>	General consumption taxes <sup>6</sup>	Taxes on specific goods, services <sup>7</sup>
United States: 1980 . . . . .	100.0	47.0	36.9	10.2	26.2	10.0	15.5	16.6	6.6	7.8
1987 . . . . .	100.0	44.3	36.2	8.1	28.8	11.1	16.7	16.7	7.3	7.2
1988 . . . . .	100.0	43.1	34.7	8.4	29.7	11.4	17.0	16.9	7.5	7.3
Canada: 1980 . . . . .	100.0	46.6	34.1	11.8	10.5	3.7	6.6	32.5	11.5	13.0
1987 . . . . .	100.0	47.2	38.4	8.2	13.6	4.6	8.8	29.0	13.9	11.1
1988 . . . . .	100.0	46.1	36.7	8.6	13.2	4.6	8.4	30.1	15.5	10.8
France: 1980 . . . . .	100.0	18.1	12.9	5.1	42.7	11.1	28.4	30.4	21.1	8.4
1987 . . . . .	100.0	18.0	12.8	5.1	43.0	12.3	27.1	29.2	19.5	8.9
1988 . . . . .	100.0	17.4	12.1	5.2	43.3	12.5	27.2	29.4	19.7	8.9
Italy: 1980 . . . . .	100.0	31.1	23.1	7.8	38.0	6.9	28.4	26.5	15.6	9.7
1987 . . . . .	100.0	36.1	26.3	10.5	34.3	6.7	24.1	26.4	14.6	10.3
1988 . . . . .	100.0	35.7	26.8	9.4	33.3	6.6	23.4	28.0	15.2	10.5
Japan: 1980 . . . . .	100.0	46.1	24.3	21.8	29.1	10.2	14.8	16.3	-	14.1
1987 . . . . .	100.0	47.0	24.1	23.0	28.6	10.2	14.8	12.9	-	11.1
1988 . . . . .	100.0	47.3	22.9	24.4	29.0	11.1	14.4	12.6	-	10.8
Netherlands: 1980 . . . . .	100.0	32.8	26.3	6.6	38.1	15.7	17.8	25.2	15.8	7.3
1987 . . . . .	100.0	27.4	19.7	7.7	42.7	18.9	17.3	26.0	16.4	7.5
1988 . . . . .	100.0	27.9	20.5	7.3	42.5	19.0	16.9	25.9	16.5	7.1
Sweden: 1980 . . . . .	100.0	43.5	41.0	2.5	28.8	-	27.6	24.0	13.4	9.2
1987 . . . . .	100.0	41.2	37.1	4.1	24.1	-	23.2	24.3	13.3	10.1
1988 . . . . .	100.0	43.9	38.8	5.2	25.1	-	24.3	24.2	13.3	10.0
United Kingdom: 1980 . . . . .	100.0	38.2	29.8	8.3	16.6	6.7	9.5	29.2	14.4	13.1
1987 . . . . .	100.0	37.2	26.7	10.5	18.2	8.3	9.4	31.4	16.0	13.7
1988 . . . . .	100.0	37.5	26.6	10.8	18.5	8.5	9.5	31.2	16.5	13.1
West Germany: 1980 . . . . .	100.0	35.1	29.6	5.5	34.4	15.3	18.5	27.1	16.8	9.3
1987 . . . . .	100.0	34.1	29.1	5.1	37.3	16.1	19.1	25.4	15.7	8.6
1988 . . . . .	100.0	34.2	28.9	5.3	37.4	16.2	19.1	25.2	15.6	8.6

- Represents zero. <sup>1</sup> Includes property taxes, employer payroll taxes other than social security contributions, and miscellaneous taxes, not shown separately. <sup>2</sup> Includes taxes on capital gains. <sup>3</sup> Includes other taxes, not shown separately. <sup>4</sup> Includes contributions of self-employed, not shown separately. <sup>5</sup> Taxes on the production, sales, transfer, leasing, and delivery of goods and services and rendering of services. <sup>6</sup> Primarily value-added and sales taxes. <sup>7</sup> For example, excise taxes on alcohol, tobacco, and gasoline.

Source: Organization for Economic Cooperation and Development, Paris, France, *Revenue Statistics of OECD Member Countries*, annual.

### No. 1459. Employee-Employer Payroll Tax Rates For Social Security Programs—Selected Countries: 1980 to 1988

[In percent. Covers old-age, disability and survivors insurance, public health or sickness insurance, workers' compensation, unemployment insurance, and family allowance programs]

COUNTRY	ALL SOCIAL SECURITY PROGRAMS					OLD-AGE, DISABILITY AND SURVIVORS INSURANCE				
	1980, total	1985, total	1988			1980, total	1985, total	1988		
			Total	Employer	Employee			Total	Employer	Employee
United States . . .	16.81	18.90	19.72	12.21	7.51	10.16	11.40	12.12	6.06	6.06
Austria . . .	34.40	39.90	39.90	23.80	15.60	19.50	22.80	22.90	12.45	10.25
Belgium . . .	35.82	39.46	39.36	27.29	12.07	15.11	16.11	16.36	8.86	7.50
Canada . . .	8.44	9.24	9.08	4.73	4.35	3.60	3.60	4.00	2.00	2.00
France . . .	48.50	51.33	53.53	37.96	15.57	21.90	21.40	21.80	2.00	2.68
Ireland . . .	14.45	22.10	20.51	14.01	6.50	12.0	19.7	18.83	12.33	6.5
Italy . . .	55.02	55.91	54.59	45.64	8.40	24.46	24.36	25.21	18.06	7.15
Japan . . .	20.57	25.50	29.15	18.25	10.90	9.10	12.40	12.40	6.20	6.20
Luxembourg . . .	32.25	32.30	34.10	29.19	12.20	16.00	16.00	16.00	8.00	8.00
Netherlands . . .	54.85	51.18	46.96	22.83	24.13	32.45	24.63	19.00	6.20	12.80
Sweden . . .	31.75	31.66	31.70	31.70	(NA)	20.25	19.95	19.95	19.95	(NA)
Switzerland . . .	12.4	12.3	12.1	7.0	5.1	9.4	9.4	9.6	4.8	4.8
United Kingdom . . .	20.45	19.45	19.45	10.45	9.00	(NA)	(NA)	(NA)	(NA)	(NA)
West Germany . . .	34.00	34.30	36.18	18.78	17.40	18.00	(NA)	18.70	9.35	9.35

NA Not available. <sup>1</sup> Excludes work-injury compensation program. <sup>2</sup> Disability and survivors benefits finances through sickness insurance.

Source: U.S. Social Security Administration, Office of International Policy, unpublished data.

### No. 1460. Consumer Prices—Annual Percent Changes, by Country: 1984 to 1989

[See text, section 31, for general comments concerning the data. For additional qualifications of the data for individual countries, see source. Minus sign (-) indicates decrease]

COUNTRY	1984-1985	1985-1986	1986-1987	1987-1988	1988-1989	COUNTRY	1984-1985	1985-1986	1986-1987	1987-1988	1988-1989
United States . . .	3.6	1.9	3.7	4.0	4.8	Kenya . . .	13.1	3.9	5.2	8.3	10.4
Argentina . . .	672.1	90.6	131.7	342.8	3,079	Malaysia . . .	0.3	0.7	0.9	2.0	2.8
Australia . . .	6.7	9.1	8.5	7.2	7.6	Mexico . . .	57.7	86.2	131.8	114.2	20.0
Austria . . .	3.2	1.7	1.4	1.9	2.6	Netherlands . . .	2.2	0.1	-0.7	0.7	1.1
Bangladesh . . .	10.7	11.0	9.5	9.3	10.0	Nigeria . . .	5.5	5.4	10.2	38.3	40.9
Belgium . . .	4.9	1.3	1.6	1.2	3.1	Norway . . .	5.7	7.2	8.7	6.7	4.6
Bolivia . . .	11,750	276.3	14.6	16.0	15.0	Pakistan . . .	5.6	3.5	4.7	8.8	7.8
Brazil . . .	226.9	145.2	229.7	682.3	1,287	Peru . . .	163.4	77.9	85.8	667.0	3,399
Canada . . .	4.0	4.2	4.4	4.0	5.0	Philippines . . .	23.1	0.8	3.8	8.8	10.6
Chile . . .	30.7	19.5	19.9	14.7	17.0	Portugal . . .	19.3	11.7	9.4	9.6	12.6
Colombia . . .	24.0	18.9	23.3	28.1	25.8	Romania . . .	-0.4	-0.1	(NA)	(NA)	(NA)
Ecuador . . .	28.0	23.0	29.5	58.2	75.6	South Africa . . .	16.3	18.6	16.1	12.8	14.7
Egypt . . .	12.1	23.9	19.7	17.7	21.3	South Korea . . .	2.5	2.8	3.0	7.1	5.7
France . . .	5.8	2.5	3.3	2.7	3.5	Spain . . .	8.8	8.8	5.3	4.8	6.8
Ghana . . .	10.3	24.6	39.8	31.4	25.2	Sri Lanka . . .	1.5	8.0	7.7	14.0	11.6
Greece . . .	19.3	23.0	16.4	13.5	13.7	Sweden . . .	7.4	4.2	4.2	5.8	6.4
Guatemala . . .	18.7	36.9	12.3	10.8	11.4	Switzerland . . .	3.4	0.8	1.4	1.9	3.2
India . . .	5.6	8.7	8.8	9.4	6.4	Thailand . . .	2.4	1.8	2.5	3.9	5.4
Indonesia . . .	4.7	5.8	9.3	8.0	6.4	Turkey . . .	45.0	34.6	38.8	75.4	69.6
Iran . . .	4.4	18.4	28.6	28.7	22.3	United Kingdom . . .	6.1	3.4	4.1	4.9	7.8
Israel . . .	304.6	48.1	19.8	16.3	20.2	Venezuela . . .	11.4	11.5	28.1	29.5	84.5
Italy . . .	9.2	5.9	4.7	5.0	6.2	West Germany . . .	2.2	-0.1	0.2	1.3	2.8
Japan . . .	2.0	0.6	-	0.7	2.3	Yugoslavia . . .	72.3	89.8	120.8	194.1	1,240
						Zaire . . .	23.8	46.7	90.4	82.7	104.1

- Represents or rounds to zero. NA Not available.

Source: International Monetary Fund, Washington, DC, *International Financial Statistics*, monthly, with annual yearbooks.

### No. 1461. Civilian Employment-Population Ratios, by Sex, and Females as Percent of Total Civilian Employment—Selected Countries: 1970 to 1989

[See headnote, table 1462]

COUNTRY	CIVILIAN EMPLOYMENT-POPULATION RATIOS <sup>1</sup>										FEMALES AS PERCENT OF CIVILIAN EMPLOYMENT				
	Women					Men									
	1970	1980	1985	1988	1989	1970	1980	1985	1988	1989	1970	1980	1985	1988	1989
United States . . . . .	40.8	47.7	50.4	53.4	54.3	76.2	72.0	70.9	72.0	72.5	37.7	42.4	44.1	45.0	45.2
Australia . . . . .	39.3	41.9	42.9	46.8	48.6	83.2	75.1	70.4	70.9	72.0	32.4	36.4	38.4	40.2	40.8
Canada . . . . .	36.1	46.2	48.8	52.6	53.3	73.4	73.0	68.7	70.9	71.1	33.6	39.7	42.7	43.8	44.1
France . . . . .	38.1	40.1	39.6	39.7	(NA)	76.3	68.5	62.3	61.1	(NA)	36.0	39.5	41.4	42.0	(NA)
Italy . . . . .	25.0	27.9	27.8	28.3	(NA)	71.9	66.0	62.5	60.6	(NA)	27.7	31.7	32.8	33.9	(NA)
Japan . . . . .	48.2	45.7	46.3	46.6	47.4	80.5	77.9	75.9	75.0	75.1	39.0	38.4	39.4	39.7	40.1
Netherlands . . . . .	(NA)	31.0	23.4	37.0	37.4	(NA)	73.9	267.4	365.8	366.5	(NA)	30.3	34.0	37.0	37.0
Sweden . . . . .	49.1	58.0	59.7	62.0	62.7	77.4	73.6	70.5	71.3	72.0	39.5	45.2	47.2	47.8	47.8
United Kingdom . . . . .	41.2	44.8	44.3	47.6	48.7	79.2	72.8	67.1	69.5	70.7	36.7	40.4	42.0	42.8	42.9
West Germany . . . . .	38.2	(NA)	(NA)	(NA)	(NA)	78.3	(NA)	(NA)	(NA)	(NA)	36.5	(NA)	(NA)	(NA)	(NA)

NA Not available. <sup>1</sup> Civilian employment as a percent of the civilian working age population. <sup>2</sup> Break in series.

<sup>3</sup> Preliminary.

Source: U.S. Bureau of Labor Statistics, *Comparative Labor Force Statistics for Ten Countries, 1959-1989*, May 1990.

# No. 1462. Civilian Labor Force, Employment, and Unemployment—Selected Countries: 1970 to 1989

[Data based on U.S. labor force definitions adopted in 1967 (see text, section 13) except that minimum age for population base varies as follows: United States, France, Sweden, and, beginning 1980, United Kingdom, 16 years; Australia, Canada, Japan, Netherlands, West Germany, and, for 1970, United Kingdom, 15 years; Italy, 14 years]

YEAR	United States	Australia	Canada	France	Italy	Japan	Netherlands	Sweden	United Kingdom	West Germany
<b>Civilian labor force (mil.):</b>										
1970	82.8	5.5	8.4	20.8	19.7	50.7	(NA)	3.9	25.1	26.2
1980	106.9	6.7	11.6	22.8	21.1	55.7	5.9	4.3	26.5	27.3
1984	113.5	7.1	12.3	23.3	21.7	58.5	6.3	4.4	27.0	27.8
1985	115.6	7.3	12.5	23.4	21.8	58.8	6.3	4.4	27.2	28.0
1986	117.8	7.6	12.7	23.4	22.3	59.4	6.4	4.4	27.4	28.2
1987	119.9	7.8	13.0	23.6	22.4	60.0	6.5	4.5	27.7	28.4
1988	121.7	8.0	13.3	23.6	22.7	60.9	6.6	4.5	28.2	28.6
1989	123.9	8.2	13.5	23.8	22.5	61.9	6.6	4.6	28.2	28.8
<b>Labor force participation rate: <sup>3</sup></b>										
1970	60.4	62.1	57.8	57.5	49.0	64.5	(NA)	64.0	61.1	56.9
1980	63.8	62.1	64.1	57.2	48.2	62.6	55.3	66.9	62.5	54.7
1984	64.4	61.5	64.8	56.6	47.3	62.7	56.2	66.8	62.1	54.4
1985	64.8	61.6	65.3	56.3	47.2	62.3	55.7	66.9	62.2	54.7
1986	65.3	62.8	65.7	56.1	47.8	62.1	55.9	67.0	62.3	54.9
1987	65.6	63.0	66.2	55.9	47.6	61.9	56.7	67.1	62.7	55.0
1988	65.9	63.3	66.7	55.5	47.4	61.9	56.3	67.6	63.5	54.9
1989	66.5	64.2	67.0	55.5	47.1	62.2	56.7	68.1	63.6	55.0
<b>Civilian employment (mil.):</b>										
1970	78.7	5.4	7.9	20.3	19.1	50.1	(NA)	3.8	24.3	26.1
1980	99.3	6.3	10.7	21.3	20.2	54.6	5.5	4.2	24.7	26.5
1984	105.0	6.5	10.9	21.0	20.4	56.9	5.5	4.2	23.8	25.8
1985	107.2	6.7	11.2	20.9	20.5	57.3	5.6	4.3	24.2	26.0
1986	109.6	7.0	11.5	21.0	20.6	57.7	5.7	4.3	24.3	26.4
1987	112.4	7.1	11.9	21.0	20.6	58.3	5.9	4.4	24.9	26.6
1988	115.0	7.4	12.2	21.2	20.9	59.3	5.9	4.5	25.7	26.8
1989	117.3	7.7	12.5	21.4	20.8	60.5	6.0	4.5	26.3	27.1
<b>Employment-population ratio: <sup>4</sup></b>										
1970	57.4	61.1	54.5	56.0	47.4	63.8	(NA)	63.1	59.2	56.6
1980	59.2	58.3	59.3	53.5	46.1	61.3	52.0	65.6	58.1	53.1
1984	59.5	58.0	57.5	51.0	44.5	61.0	49.3	64.5	54.8	50.5
1985	60.1	58.5	58.5	50.4	44.4	60.6	50.0	65.0	55.2	50.7
1986	60.7	57.7	59.4	50.2	44.2	60.4	50.2	65.2	55.2	51.3
1987	61.5	57.9	60.4	49.9	43.8	60.1	51.1	65.8	56.2	51.5
1988	62.3	58.7	61.6	49.8	43.7	60.4	51.0	66.5	58.1	51.5
1989	63.0	60.2	62.0	50.1	43.4	60.8	51.5	67.2	59.2	51.9
<b>Unemployment rate:</b>										
1970	4.9	1.6	5.7	2.5	3.2	1.2	(NA)	1.5	3.1	0.5
1980	7.1	6.1	7.5	6.4	4.4	2.0	6.0	2.0	7.0	2.8
1984	7.5	9.0	11.2	10.0	5.9	2.8	12.3	3.1	11.8	7.1
1985	7.2	8.3	10.5	10.4	6.0	2.6	10.2	2.8	11.2	7.2
1986	7.0	8.1	9.5	10.6	7.5	2.8	10.0	2.6	11.2	6.6
1987	6.2	8.1	8.8	10.7	7.9	2.9	9.9	1.9	10.3	6.3
1988	5.5	7.2	7.8	10.2	7.9	2.5	9.5	1.6	8.6	6.3
1989, total	5.3	6.2	7.5	9.7	7.8	2.3	9.0	1.3	7.0	5.7
Under 25 years old	10.9	11.2	11.3	20.6	24.0	4.5	(NA)	3.0	10.0	(NA)
Teenagers <sup>5</sup>	15.0	14.8	13.1	19.5	28.7	7.2	(NA)	3.2	10.5	(NA)
20-24 years old	8.6	8.4	10.1	20.9	22.1	3.8	(NA)	2.9	9.8	(NA)
25 years old and over	4.0	4.6	6.6	8.2	4.8	2.0	(NA)	1.0	6.4	(NA)

NA Not available. <sup>1</sup> Preliminary. <sup>2</sup> Data for prior years not comparable to later years; see source. <sup>3</sup> Civilian labor force as a percent of the civilian working age population. <sup>4</sup> Civilian employment as a percent of the civilian working age population.

<sup>5</sup> French data are for March, Italian data are for April; United Kingdom data are for April-June. <sup>6</sup> 16-19 years old in the United States, France, Sweden, and the United Kingdom; 15-19 years old in Canada, Australia, and Japan; and 14-19 years old in Italy and West Germany.

Source: U.S. Bureau of Labor Statistics, *Comparative Labor Force Statistics for Ten Countries, 1959-1989*, May 1990, and *Monthly Labor Review*.

### No. 1463. Labor Force Participation Rates, by Sex and Age-Group—Selected Countries: 1980 and 1989

[Participation rates represent percent of population of each specified group in labor force]

COUNTRY AND SEX	15-19 YEARS OLD		20-24 YEARS OLD		25-54 YEARS OLD		55-64 YEARS OLD		65 YEARS AND OVER	
	1980	1989	1980	1989	1980	1989	1980	1989	1980	1989
United States: Total	56.5	58.1	77.5	78.7	78.4	83.1	55.1	55.0	11.9	11.2
Male	60.5	58.2	85.7	84.9	93.4	92.8	71.2	66.6	18.3	16.0
Female	52.4	53.9	69.1	72.4	63.8	73.5	41.0	44.7	7.6	7.8
Canada: Total	55.1	58.5	79.6	81.0	77.4	84.0	53.9	49.9	8.9	7.0
Male	57.9	60.5	86.3	84.8	94.8	93.8	76.2	66.2	14.8	11.0
Female	52.2	56.5	73.0	77.2	60.1	74.5	33.6	34.4	4.4	4.0
France: Total	22.0	12.2	73.7	64.5	79.8	83.7	53.4	38.8	5.0	2.9
Male	25.7	14.9	80.2	69.4	96.4	95.6	68.5	46.9	7.5	4.4
Female	18.3	9.4	67.5	59.7	63.0	72.0	39.7	31.4	3.3	1.9
Italy: Total	31.1	24.6	65.1	67.7	265.9	69.4	324.5	21.7	7.5	4.6
Male	33.3	26.4	72.5	71.5	293.1	90.8	339.6	35.2	12.6	7.9
Female	28.9	22.8	57.9	63.9	239.9	48.6	311.0	9.8	3.5	2.2
Japan: Total	17.9	17.1	69.8	72.7	76.8	80.2	63.0	63.7	26.3	23.8
Male	17.4	17.0	69.6	71.2	97.0	97.0	85.4	82.4	41.0	35.8
Female	18.5	17.3	70.0	74.3	56.7	63.2	45.3	46.1	15.5	15.8
Sweden: Total	55.6	49.7	83.1	83.5	89.3	93.1	66.8	69.4	8.6	9.6
Male	55.3	48.1	84.5	85.0	95.4	95.1	78.7	74.8	14.2	14.2
Female	55.8	51.3	81.6	82.0	82.9	91.0	55.3	64.3	3.7	5.8
United Kingdom: Total	74.4	72.2	77.1	78.1	79.5	80.7	59.4	51.1	6.2	5.5
Male	73.6	72.9	86.0	83.7	95.4	91.3	81.6	65.7	10.3	8.8
Female	75.3	71.5	67.9	72.2	63.4	70.0	39.1	37.3	3.6	3.3
West Germany: Total	43.9	(NA)	73.8	(NA)	74.0	(NA)	42.8	(NA)	4.5	(NA)
Male	47.0	(NA)	79.2	(NA)	93.6	(NA)	65.5	(NA)	7.0	(NA)
Female	40.5	(NA)	68.0	(NA)	53.6	(NA)	27.2	(NA)	3.1	(NA)

NA Not available. <sup>1</sup> Persons 16-19 years old. <sup>2</sup> Persons 25-29 years old. <sup>3</sup> Persons 60-64 years old.

Source: Organization for Economic Cooperation and Development, Paris, France, *Historical Statistics, 1960-1982, 1984*; and *Labor Force Statistics*, annual.

### No. 1464. Organization for Economic Cooperation and Development (OECD)—Index of Industrial Production: 1975 to 1989

[Minus sign (-) indicates decrease. For explanation of average annual percent change, see Guide to Tabular Presentation]

COUNTRY	INDEX (1985 = 100)						AVERAGE ANNUAL PERCENT CHANGE						
	1975	1984	1986	1987	1988	1989	1975-1980	1980-1989	1984-1985	1985-1986	1986-1987	1987-1988	1988-1989
OECD, total	72.8	97.4	101.1	104.8	110.8	114.9	4.5	2.7	2.7	1.1	3.7	5.7	3.7
United States	70.3	98.3	100.9	105.9	111.7	114.5	4.9	2.8	1.7	0.9	5.0	5.4	2.8
Australia	86.2	96.2	101.0	102.0	105.3	111.2	2.6	1.4	3.9	1.0	1.0	3.2	5.6
Austria	73.8	95.7	101.1	102.1	106.6	112.9	4.6	2.3	4.5	1.1	1.0	4.4	6.0
Belgium	83.9	97.5	100.8	103.0	108.9	112.7	2.7	1.8	2.6	0.8	2.2	5.8	3.4
Canada	74.7	94.9	99.9	105.6	112.1	113.3	2.9	3.1	5.4	-0.1	5.6	6.2	1.1
Finland	67.6	96.1	100.8	105.0	111.1	111.5	4.9	3.2	4.0	0.8	4.2	5.8	0.4
France	84.5	99.8	100.9	102.8	107.6	112.1	3.8	1.1	0.2	0.9	1.9	4.7	4.2
Greece	71.2	96.0	99.0	97.5	102.5	104.4	5.4	1.3	4.2	-1.0	-1.5	5.2	1.8
Ireland	59.9	96.6	103.2	113.3	125.7	141.3	5.4	6.8	3.5	3.2	9.7	10.9	12.4
Italy	80.8	98.7	104.1	106.8	114.2	118.7	5.0	1.6	1.4	4.1	2.6	6.9	3.9
Japan	61.0	96.5	99.8	103.3	112.9	119.7	6.7	4.0	3.7	-0.2	3.4	9.3	6.0
Luxembourg	76.6	93.5	101.9	101.2	110.0	118.4	1.5	4.1	6.9	1.9	-0.6	8.7	7.6
Netherlands	84.5	95.4	100.2	101.3	100.9	106.1	2.3	1.3	4.8	0.2	1.1	-0.3	5.1
Norway	62.5	94.8	103.5	111.3	117.0	136.1	5.7	5.7	5.5	3.5	7.5	5.1	16.3
Portugal	60.1	99.3	106.1	108.6	115.3	120.9	7.2	4.0	0.7	6.1	2.4	6.1	4.9
Spain	83.7	98.1	103.1	107.8	111.1	116.1	2.9	2.1	2.0	3.1	4.6	3.0	4.5
Sweden <sup>1</sup>	93.2	97.1	100.0	102.1	104.1	107.0	-0.6	1.9	3.0	-0.0	2.2	1.9	2.8
Switzerland	84.8	94.7	103.8	105.0	111.6	112.0	2.7	1.6	5.6	3.8	1.2	6.2	0.4
United Kingdom	85.3	94.9	102.3	105.7	109.7	110.2	1.6	2.0	5.4	2.3	3.3	3.8	0.4
West Germany	82.8	95.7	102.0	102.4	106.1	111.3	3.3	1.5	4.5	2.0	0.4	3.6	4.9

<sup>1</sup> Mining and manufacturing.

Source: Organization for Economic Cooperation and Development, Paris, France, *Main Economic Indicators, Historical Statistics, 1964-1983, 1984*; and *Main Economic Indicators*, monthly.

### No. 1465. International Economic Composite Indexes—Average Annual Percent Change: 1978 to 1990

[The coincident index changes are for calendar years and the leading index changes are for years ending June 30 because they lead the coincident indexes by about 6 months, on average. The G-7 countries are United States, Canada, France, West Germany, Italy, United Kingdom and Japan. Average annual percent changes derived from indexes with base 1980=100. Minus sign (-) indicates decrease]

COUNTRIES	1978-1979	1979-1980	1980-1981	1981-1982	1982-1983	1983-1984	1984-1985	1985-1986	1986-1987	1987-1988	1988-1989	1989-1990
<b>LEADING INDEX</b>												
Total, 11 countries	5.6	2.2	-0.9	-1.1	1.3	10.1	2.8	1.9	4.6	7.9	4.9	2.0
10 countries, excluding U.S.	6.6	6.7	-2.0	0.6	0.7	6.1	4.4	1.6	5.1	8.3	5.9	3.0
G-7 countries	5.5	2.1	-1.1	-1.0	1.2	10.2	2.6	1.7	4.4	7.7	4.8	2.1
North America	4.7	-3.3	0.8	-3.6	2.0	15.6	0.9	2.2	3.8	7.0	3.3	0.4
United States	4.4	-4.0	0.9	-3.4	2.1	16.0	0.5	2.1	4.0	7.1	3.6	0.5
Canada	8.4	3.2	1.1	-6.4	0.5	11.9	4.4	3.0	2.5	5.2	0.8	-0.5
4 European countries	4.0	3.1	-1.5	0.7	1.4	4.2	2.5	2.0	3.4	3.6	4.1	1.4
France	4.4	4.5	-0.6	0.8	0.9	3.8	2.6	2.1	6.1	5.0	5.5	-0.2
West Germany	5.7	2.9	-3.2	-0.8	2.1	6.3	2.3	2.5	1.3	4.0	5.5	4.7
Italy	3.9	4.5	4.7	0.1	-1.1	2.3	2.6	4.1	3.8	1.8	1.9	0.8
United Kingdom	1.9	0.6	-4.4	3.6	2.2	3.3	2.4	0.1	3.4	2.5	2.1	-1.3
5 Pacific region countries	11.0	14.0	-3.4	1.6	-0.2	8.3	7.7	0.8	7.8	15.9	8.8	5.8
Australia	10.1	8.1	2.0	-4.8	-3.7	9.7	7.1	3.0	3.1	7.2	5.4	-1.5
China: Taiwan	11.9	4.8	5.7	5.0	8.1	11.8	6.4	8.2	13.6	14.5	12.2	7.5
Japan	11.3	16.6	-4.8	1.9	-0.5	8.0	8.1	-0.3	7.6	17.6	9.2	6.6
South Korea	8.8	-2.4	5.0	6.8	8.0	9.3	4.6	9.7	16.7	12.8	8.9	4.0
New Zealand	3.4	2.4	1.1	3.3	-1.2	6.0	4.9	-2.2	3.0	-1.5	1.1	2.6
<b>COINCIDENT INDEX</b>												
Total, 11 countries	4.4	0.2	0.5	-2.0	1.7	6.0	3.8	3.3	4.1	6.2	4.8	(NA)
10 countries, excluding U.S.	4.9	2.5	0.5	0.6	1.3	3.8	4.0	3.6	4.3	6.6	6.1	(NA)
G-7 countries	4.3	0.2	0.3	-2.1	1.7	5.9	3.7	3.1	4.0	6.0	4.7	(NA)
North America	3.5	-2.4	0.7	-5.7	2.2	9.5	3.6	2.8	4.0	5.4	2.8	(NA)
United States	3.4	-2.8	0.4	-5.8	2.3	9.7	3.5	2.6	4.0	5.4	2.8	(NA)
Canada	5.0	2.0	3.8	-4.8	2.0	6.3	5.2	3.5	4.8	5.8	3.2	(NA)
4 European countries	4.2	1.5	-1.7	-0.3	0.6	2.0	3.0	3.5	3.8	5.9	5.8	(NA)
France	2.4	1.4	0.3	2.9	1.9	0.5	1.5	3.9	4.9	7.6	8.7	(NA)
West Germany	4.7	2.6	-0.9	-2.5	-0.5	2.7	3.4	4.4	3.1	3.8	5.1	(NA)
Italy	5.3	5.3	-1.4	-0.3	-1.0	3.5	2.4	1.6	1.4	5.3	2.1	(NA)
United Kingdom	4.8	-2.0	-5.3	-0.8	1.6	2.2	4.2	3.1	5.1	7.5	5.6	(NA)
5 Pacific region countries	6.1	4.0	3.5	2.8	2.3	5.9	5.2	3.8	4.8	7.7	7.1	(NA)
Australia	3.9	4.9	5.7	-2.5	-6.9	9.3	7.6	5.2	3.5	7.9	10.7	(NA)
China: Taiwan	9.5	7.1	5.1	2.9	7.4	12.1	4.8	10.8	11.6	6.0	6.1	(NA)
Japan	6.5	4.2	3.1	3.3	2.7	5.1	5.0	2.9	4.2	7.7	7.0	(NA)
South Korea	3.5	-4.9	6.7	6.1	11.3	9.0	5.5	11.9	13.7	10.9	5.9	(NA)
New Zealand	5.0	1.7	2.1	1.0	0.2	4.3	2.0	1.3	1.6	-2.2	-1.4	(NA)

NA Not available.

Source: Center for International Business Cycle Research, Columbia Business School, New York, NY, *International Economic Indicators*, monthly.

### No. 1466. Patents, Top Countries: 1989

[Includes only U.S. patents granted to residents of areas outside of the United States and its territories]

TOP COUNTRIES	Total <sup>1</sup>	Inventions	De-signs	TOP COUNTRIES	Total <sup>1</sup>	Inventions	De-signs
Total, foreign country residents	47,910	45,354	2,209	Sweden	926	837	88
Japan	21,090	20,168	661	China: Taiwan	889	592	97
West Germany	8,580	8,303	144	Australia	589	503	75
France	3,299	3,140	129	Austria	408	399	9
United Kingdom	3,281	3,100	153	Belgium	377	359	16
Canada	2,121	1,959	153	Israel	340	326	11
Italy	1,424	1,297	124	Denmark	261	221	37
Switzerland	1,429	1,363	54	Finland	251	230	20
Netherlands	1,161	1,060	41	South Korea	179	157	22
				Other countries	1,534	1,340	175

<sup>1</sup> Includes patents for botanical plants and reissues not shown separately.

Source: U.S. Patent and Trademark Office, *Technology Assessment and Forecast Reports—All Technologies and Country/State*.

### No. 1467. World's 500 Largest Industrial Corporations: 1989

[Sales as of December 31, 1989, assets as of company's fiscal year-end. Companies must have derived more than 50% of their sales from manufacturing and/or mining. Sales of consolidated subsidiaries are included and exclude excise taxes collected by manufacturers. Profits are shown after taxes and extraordinary credits or charges]

COUNTRY	Number of companies	Sales (\$1,000)	Profits (\$1,000)	Assets (\$1,000)	Em- ployees (\$1,000)	COUNTRY	Number of companies	Sales (\$1,000)	Profits (\$1,000)	Assets (\$1,000)	Em- ployees (\$1,000)
Australia	10	50.6	2.9	67.7	257.7	Japan	111	925.3	25.2	936.4	2,952.2
United Kingdom	45	443.9	34.4	419.1	3,131.7	Netherlands	6	50.8	2.3	52.0	477.9
Canada	13	65.9	5.2	88.5	419.2	South Korea	11	102.6	1.4	111.2	500.0
Finland	7	26.7	1.2	34.4	138.6	Sweden	15	81.5	3.9	86.2	631.9
France	29	264.7	12.1	311.5	1,783.9	Switzerland	10	96.0	4.8	106.6	707.9
India	6	29.2	1.8	27.5	967.1	United States	167	1,714.8	85.1	1,883.2	8,539.6
Italy	8	154.1	5.8	147.0	1,046.7	West Germany	32	372.1	10.3	314.6	2,861.7

Source: Time Warner, New York, NY, *The Fortune Directories*. (Copyright.)

### No. 1468. Indexes of Hourly Compensation Costs for Production Workers in Manufacturing—Selected Countries: 1975 to 1989

[United States = 100. Compensation costs include pay for time worked, other direct pay, employer expenditures for legally required insurance programs and contractual and private benefit plans, and for some countries, other labor taxes. Data adjusted for exchange rates. Area averages are trade-weighted to account for difference in countries' relative importance to U.S. trade in manufactured goods. The trade weights used are the sum of U.S. imports of manufactured products for consumption (customs value) and U.S. domestic exports of manufactured products (f.a.s. value) in 1986; see source for detail]

AREA OR COUNTRY	1975	1980	1985	1987	1988	1989	AREA OR COUNTRY	1975	1980	1985	1987	1988	1989
United States . . . . .	100	100	100	100	100	100	China: Taiwan . . . . .	6	10	12	17	20	25
Total <sup>1</sup> . . . . .	62	70	54	75	82	82	Austria <sup>6</sup> . . . . .	68	87	56	98	101	95
OECD <sup>2</sup> . . . . .	75	83	65	91	99	97	Belgium . . . . .	101	133	89	112	112	106
Europe <sup>3</sup> . . . . .	82	103	63	101	105	100	Denmark . . . . .	99	111	63	109	115	106
Asian newly industrial- izing economies <sup>4</sup> . . . . .	8	12	13	16	19	23	Finland . . . . .	72	84	62	100	113	116
Canada . . . . .	91	85	83	89	98	103	France . . . . .	71	91	58	93	94	89
Brazil . . . . .	14	14	9	10	11	12	Germany <sup>5</sup> . . . . .	100	125	74	126	131	123
Mexico . . . . .	31	30	16	12	14	16	Greece . . . . .	27	38	28	34	38	38
Australia . . . . .	87	86	63	70	81	85	Ireland . . . . .	47	60	45	68	70	66
Hong Kong . . . . .	12	15	13	16	17	19	Italy . . . . .	73	81	56	91	93	92
Israel . . . . .	35	39	31	47	55	54	Luxembourg . . . . .	100	122	59	91	100	(NA)
Japan . . . . .	48	57	50	81	92	88	Netherlands . . . . .	103	123	69	116	117	109
South Korea . . . . .	6	10	10	13	18	25	Norway . . . . .	107	119	82	129	136	131
New Zealand . . . . .	50	54	34	51	59	55	Portugal . . . . .	25	21	12	19	19	19
Singapore . . . . .	13	15	19	17	19	22	Spain . . . . .	41	61	37	59	64	64
Sri Lanka . . . . .	4	2	2	2	(NA)	(NA)	Sweden . . . . .	113	127	75	113	121	122
							Switzerland . . . . .	96	113	75	127	130	117
							United Kingdom . . . . .	52	76	48	67	76	73

NA Not available. <sup>1</sup> The 27 foreign economies for which 1989 data are available. <sup>2</sup> Canada, Australia, Japan, New Zealand, and the 16 European countries for which 1989 data are available. <sup>3</sup> The 16 European countries for which 1989 data are available. <sup>4</sup> Hong Kong, South Korea, Singapore, and China: Taiwan. <sup>5</sup> Average of selected manufacturing industries.

<sup>6</sup> Excludes workers in establishments considered handicraft manufactures (including all printing and publishing and miscellaneous manufacturing in Austria.) <sup>7</sup> Includes workers in mining and electrical power plants. <sup>8</sup> Data refer to September.

Source: Bureau of Labor Statistics, *Report 787*, August 1990.

### No. 1469. Structure of Manufacturing Industry for Selected Countries: 1975 to 1987

[In percent. Contribution of each industry group to total manufacturing production. Based on International Standard Industrial Classification; see text, section 31, and source. Numbers in parentheses refer to ISIC codes]

COUNTRY	Food <sup>1</sup> (3100)	Textile <sup>2</sup> (3200)	Wood <sup>3</sup> (3300)	Paper <sup>4</sup> (3400)	Chemical <sup>5</sup> (3500)	Nonmetal <sup>6</sup> (3600)	Basic metal (3700)	Machin- ery (3800)	Other (3900)
United States: 1975 . . . . .	16.7	6.7	2.8	7.8	18.4	2.7	7.6	35.9	1.3
1980 . . . . .	14.5	5.6	2.8	7.7	22.2	2.5	6.8	36.6	1.3
1985 . . . . .	14.1	5.3	2.9	9.1	19.9	2.4	4.5	40.8	1.1
1986 . . . . .	14.6	5.4	3.1	9.7	17.6	2.5	4.3	41.6	1.1
1987 . . . . .	14.2	5.7	3.3	9.6	18.4	2.6	4.5	40.6	1.2
Japan: 1975 . . . . .	13.5	6.9	3.8	6.0	17.6	3.5	15.4	32.1	1.2
1980 . . . . .	11.3	5.4	3.6	6.2	19.3	3.9	11.4	37.7	1.2
1985 . . . . .	11.0	4.9	2.4	6.1	16.7	3.3	8.5	45.7	1.4
1986 . . . . .	11.7	5.0	2.5	6.6	15.1	3.4	7.3	47.0	1.4
1987 . . . . .	11.7	5.0	2.7	6.8	14.8	3.5	7.0	47.1	1.4
France: 1975 . . . . .	19.5	8.4	2.8	5.3	23.5	2.9	8.8	32.0	1.1
1980 . . . . .	18.0	6.6	2.6	5.0	21.6	3.0	8.1	32.2	1.0
1985 . . . . .	17.6	6.9	2.5	6.5	21.6	3.0	7.3	33.3	1.3
1986 . . . . .	17.9	7.1	2.7	6.9	19.0	3.2	7.0	34.9	1.3
1987 . . . . .	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Italy: 1975 . . . . .	13.2	10.7	2.3	4.7	20.7	4.7	10.9	32.1	0.7
1980 . . . . .	12.2	11.4	3.2	4.6	19.7	5.6	10.1	32.5	0.8
1984 . . . . .	13.0	10.4	2.7	5.4	22.6	5.3	8.4	31.5	0.7
1985 . . . . .	12.6	13.5	2.9	5.4	22.5	4.8	9.6	27.8	0.8
1986 . . . . .	12.7	13.8	2.9	5.2	21.4	4.7	9.0	29.8	0.6
1987 . . . . .	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Portugal: 1975 . . . . .	26.1	18.9	5.5	6.9	16.9	5.5	3.1	16.8	0.3
1980 . . . . .	18.2	18.9	6.0	6.3	24.5	6.1	2.2	17.6	0.2
1985 . . . . .	19.5	18.5	3.6	6.8	28.5	4.8	3.3	15.0	0.2
1986 . . . . .	20.7	20.4	3.9	7.3	24.1	5.2	2.9	15.3	0.2
1987 . . . . .	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Sweden: 1975 . . . . .	13.3	3.7	7.5	13.8	10.4	2.7	8.7	39.5	0.4
1980 . . . . .	13.3	2.6	8.1	13.5	15.3	2.6	8.5	35.8	0.4
1985 . . . . .	13.9	2.1	6.4	13.9	15.5	2.1	7.9	37.9	0.3
1986 . . . . .	14.1	2.1	6.6	14.4	13.3	2.1	7.4	39.6	0.3
1987 . . . . .	13.8	2.1	6.8	15.4	13.1	2.3	7.2	39.1	0.3
United Kingdom: 1975 . . . . .	18.5	7.5	2.9	6.2	18.5	3.1	7.8	34.4	1.1
1980 . . . . .	18.6	5.9	2.9	6.8	20.6	3.6	6.8	33.9	0.9
1985 . . . . .	18.7	5.6	2.7	7.5	21.1	3.5	5.8	34.2	0.9
1986 . . . . .	19.4	5.8	2.9	8.0	18.4	3.7	5.4	35.4	0.9
1987 . . . . .	18.2	5.7	3.0	8.1	20.7	3.7	5.3	34.5	0.9
West Germany: 1975 . . . . .	13.3	7.0	3.3	4.4	18.7	3.5	10.8	38.6	0.5
1980 . . . . .	12.2	5.4	3.3	4.1	22.5	3.3	8.8	38.0	0.5
1985 . . . . .	12.2	4.8	2.4	4.2	23.7	2.7	6.6	43.1	0.4
1986 . . . . .	12.4	4.9	2.6	4.3	21.0	2.8	6.0	45.5	0.5
1987 . . . . .	12.1	4.8	2.6	4.4	20.7	2.8	5.5	46.6	0.5

NA Not available. <sup>1</sup> Manufacture of food, beverages, and tobacco. <sup>2</sup> Textile, wearing apparel, and leather industries. <sup>3</sup> Manufacture of wood and wood products including furniture. <sup>4</sup> Manufacture of paper and paper products; printing and publishing. <sup>5</sup> Manufacture of chemicals and chemical, petroleum, coal, rubber, and plastic products. <sup>6</sup> Manufacture of non-metallic products, except petroleum and coal products. <sup>7</sup> Includes iron and steel basic industries and nonferrous metal basic industries. <sup>8</sup> Manufacture of fabricated metal products, machinery and equipment.

Source: Organization for Economic Cooperation and Development, Paris, France, *OECD Industrial Structure Statistics, 1987*.

**No. 1470. Selected Indexes of Manufacturing Activity—Selected Countries: 1970 to 1989**

[1982=100. Data relate to all employed persons in the United States and Canada; all employees in other countries. Minus sign (-) indicates decrease. For explanation of average annual percent change, see Guide to Tabular Presentation]

INDEX AND YEAR	United States	Belgium	Canada	Denmark	France	Italy	Japan	Netherlands	Sweden	United Kingdom	West Germany <sup>1</sup>
<b>Output per hour:</b>											
1970	75.2	44.2	76.9	57.2	58.5	54.3	48.0	54.1	69.6	70.8	65.2
1980	95.3	87.3	99.9	98.0	90.6	95.1	90.9	95.1	96.4	89.9	97.8
1985	115.9	116.9	119.8	105.0	108.8	122.1	119.4	121.1	112.6	118.0	112.4
1987	124.7	122.8	119.2	100.6	113.8	126.5	130.7	123.3	115.7	130.1	109.5
1988	127.6	128.8	121.2	103.8	119.6	130.1	136.9	128.9	117.4	137.1	114.4
1989	130.1	(NA)	123.8	106.8	125.1	133.8	144.8	134.7	119.3	144.1	119.6
Average annual percent change:											
1970-1989	2.9	(X)	2.5	3.3	4.1	4.9	6.0	4.9	2.9	3.8	3.2
1980-1989	3.5	(X)	2.4	1.0	3.7	3.9	5.3	3.9	2.4	5.4	2.3
1988-1989	2.0	(X)	2.1	2.9	4.6	2.8	5.8	4.5	1.6	5.1	4.5
<b>Compensation per hour, national currency basis:<sup>2</sup></b>											
1970	35.9	23.1	28.7	22.3	17.8	11.6	24.8	28.5	24.4	14.9	35.1
1980	83.7	86.3	78.6	83.4	72.8	70.2	88.4	89.6	84.5	79.7	90.4
1985	111.1	121.8	116.8	120.6	130.2	150.9	110.9	113.6	130.9	122.6	115.1
1987	119.0	129.4	126.3	135.7	142.7	166.7	119.0	120.7	151.6	140.5	125.0
1988	123.4	131.6	132.5	140.5	148.7	175.6	121.6	123.8	162.9	149.2	130.1
1989	126.7	(NA)	143.8	147.8	155.5	194.4	129.9	125.7	180.7	164.3	136.0
Average annual percent change:											
1970-1989	6.9	(X)	8.9	10.5	12.1	16.0	9.1	8.1	11.1	13.5	7.4
1980-1989	4.7	(X)	6.9	6.6	8.8	12.0	4.4	3.8	8.8	8.4	4.6
1988-1989	2.7	(X)	8.5	5.2	4.6	10.7	6.8	1.5	10.9	10.1	4.5
<b>Real hourly compensation:<sup>2,3</sup></b>											
1970	89.3	55.1	77.4	70.2	57.3	60.3	63.2	65.4	72.7	65.9	63.7
1980	98.0	101.0	97.9	102.6	92.3	96.9	95.2	101.3	103.1	97.1	101.2
1985	99.6	101.4	101.8	101.4	104.5	109.3	104.3	104.7	101.9	105.1	106.7
1987	101.1	104.7	101.2	105.8	108.1	108.8	111.2	111.6	108.4	111.8	116.0
1988	100.6	105.3	102.1	104.8	109.7	109.1	112.8	113.7	111.3	113.2	119.5
1989	98.6	(NA)	105.5	105.2	110.8	113.3	117.9	114.2	116.0	115.6	121.4
Average annual percent change:											
1970-1989	0.5	(X)	1.6	2.2	3.5	3.4	3.3	3.0	2.5	3.0	3.5
1980-1989	0.1	(X)	0.8	0.3	2.1	1.8	2.4	1.3	1.3	2.0	2.0
1988-1989	-2.0	(X)	3.3	0.4	1.0	3.8	4.5	0.4	4.2	2.1	1.6
<b>Unit labor costs, national currency:</b>											
1970	47.7	52.3	37.3	39.0	30.4	21.4	51.6	52.7	35.0	21.0	53.8
1980	87.8	98.9	78.7	85.1	80.3	73.8	97.2	94.2	87.6	88.7	92.4
1985	95.9	104.2	97.6	114.9	119.6	123.6	92.9	93.9	116.3	103.9	102.4
1987	95.5	105.4	106.0	134.9	125.4	131.8	91.1	97.9	131.0	108.0	114.1
1988	96.7	102.2	109.3	135.5	124.4	135.0	88.9	96.0	138.7	108.8	113.7
1989	97.4	(NA)	116.1	138.3	124.3	145.0	89.7	93.3	151.4	114.0	113.7
Average annual percent change:											
1970-1989	3.8	(X)	6.2	6.9	7.7	10.6	3.0	3.1	8.0	9.3	4.0
1980-1989	1.2	(X)	4.4	5.5	5.0	7.8	-0.9	-0.1	6.3	2.8	2.3
1988-1989	0.7	(X)	6.2	2.1	-0.1	7.4	0.9	-2.8	9.2	4.8	-
<b>Unit labor costs, U.S. dollar basis:<sup>4</sup></b>											
1970	47.7	48.2	44.1	43.4	36.2	46.2	35.9	38.9	42.5	28.7	35.8
1980	87.8	155.0	83.1	126.2	125.2	116.8	107.3	126.8	130.2	118.1	123.6
1985	95.9	80.4	88.2	90.4	87.7	87.7	97.0	75.6	84.9	77.1	84.5
1987	95.5	129.1	98.6	164.4	137.2	137.6	156.9	129.1	129.7	101.3	154.1
1988	96.7	127.1	109.7	167.7	137.3	140.3	172.7	129.7	142.1	110.9	157.1
1989	97.4	(NA)	121.0	157.7	128.2	143.4	161.8	117.5	147.4	106.9	146.8
Average annual percent change:											
1970-1989	3.8	(X)	5.5	7.0	6.9	6.1	8.2	6.0	6.8	7.2	7.7
1980-1989	1.2	(X)	4.3	2.5	0.3	2.3	4.7	-0.8	1.4	-1.1	1.9
1988-1989	0.7	(X)	10.3	-6.0	-6.6	2.2	-6.3	-9.4	3.7	-3.6	-6.6
<b>Employment:</b>											
1970	102.5	137.7	96.3	119.6	107.3	97.6	100.0	133.9	114.7	141.8	115.2
1980	107.8	109.9	108.4	103.9	104.9	107.8	98.7	108.1	107.6	117.5	104.9
1985	102.4	95.1	103.6	112.4	92.0	89.8	106.7	96.5	103.5	91.7	97.4
1987	101.2	91.2	109.3	113.9	87.8	88.4	105.2	99.3	106.0	88.2	99.3
1988	103.3	90.7	112.3	110.5	86.1	89.3	107.6	99.8	107.4	89.5	99.2
1989	104.5	(NA)	113.3	109.5	86.1	89.7	110.2	100.8	109.0	89.8	100.5
Average annual percent change:											
1970-1989	0.1	(X)	0.9	-0.5	-1.2	-0.4	0.5	1.5	-0.3	-2.4	0.7
1980-1989	-0.3	(X)	0.5	0.6	-2.2	-2.0	1.2	-0.8	0.1	-2.9	-0.5
1988-1989	1.2	(X)	0.9	-0.9	-	0.4	2.4	1.0	1.5	0.3	1.3
<b>Aggregate hours:</b>											
1970	106.1	159.9	102.1	132.3	124.1	107.0	106.1	148.5	130.7	155.0	129.7
1980	110.0	110.1	110.8	103.7	111.0	108.0	99.5	106.8	106.1	118.1	106.4
1985	107.0	92.7	106.0	109.8	91.0	89.0	108.0	91.8	103.0	93.1	95.6
1987	106.1	88.3	114.0	111.2	87.5	91.4	106.3	92.7	103.6	89.9	96.1
1988	109.6	88.4	118.9	107.6	86.1	95.7	109.6	92.8	105.3	91.5	95.7
1989	110.6	(NA)	118.6	106.0	85.7	95.9	111.2	93.3	106.0	91.0	96.0
Average annual percent change:											
1970-1989	0.2	(X)	0.8	-1.2	-1.9	-0.6	0.2	-2.4	-1.1	-2.8	-1.6
1980-1989	0.1	(X)	0.8	0.2	-2.8	-1.3	1.2	-1.5	-	-2.9	-1.1
1988-1989	0.9	(X)	-0.3	-1.5	-0.5	0.2	1.5	0.5	0.7	-0.5	0.3

- Represents or rounds to zero. NA Not available. X Not applicable. <sup>1</sup> Includes West Berlin. <sup>2</sup> Compensation includes, but real hourly compensation excludes, adjustments for payroll and employment taxes that are not compensation to employees, but are labor costs to employers. <sup>3</sup> Index of hourly compensation divided by the index of consumer prices to adjust for changes in purchasing power. <sup>4</sup> Indexes in national currency adjusted for changes in prevailing exchange rates.

Source: U.S. Bureau of Labor Statistics, *News Release* USDL 90-383, "International Comparisons of Manufacturing Productivity and Labor Cost Trends," July 27, 1990.



## No. 1471. Crude Steel Production and Consumption: 1980 to 1988

[Production data cover both ingots and steel for castings and exclude wrought (puddled) iron. Consumption data represent apparent consumption (i.e. production plus imports minus exports) and do not take into account changes in stocks]

COUNTRY	PRODUCTION (mil. metric tons)				CONSUMPTION					
					Total (mil metric tons)			Per capita (kilograms)		
	1980	1985	1987	1988	1980	1985	1987	1980	1985	1987
World	705.3	696.9	705.5	744.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
United States <sup>1</sup>	101.5	80.1	80.9	91.8	115.6	107.3	102.9	508	448	417
Argentina	2.6	2.7	3.5	3.5	3.4	(NA)	3.0	120	(NA)	95
Australia <sup>2</sup>	7.9	6.3	6.4	6.1	6.1	5.8	5.8	414	366	354
Austria	4.6	4.7	4.3	4.4	2.7	1.8	1.7	358	235	229
Bangladesh <sup>2</sup>	0.1	0.1	0.8	0.7	0.4	0.5	0.5	4	5	5
Belgium	12.3	10.8	9.8	11.3	3.2	2.8	2.5	313	275	244
Brazil	15.3	20.5	22.2	24.5	14.2	(NA)	14.0	117	(NA)	99
Bulgaria	2.6	2.9	3.0	2.9	2.8	3.0	3.4	315	336	381
Canada	15.9	13.5	14.7	15.2	12.9	11.9	13.0	538	471	507
China: Mainland	37.1	49.5	58.9	59.4	43.3	66.6	69.7	44	63	64
Czechoslovakia	15.2	15.0	15.4	15.4	11.2	11.0	11.0	729	709	703
East Germany	7.3	7.9	8.2	8.1	8.8	9.5	9.7	583	574	581
France	23.2	18.8	17.7	19.1	20.0	14.2	14.4	372	258	259
Greece	1.1	1.0	0.9	1.0	2.0	1.6	1.9	206	164	189
India	9.4	11.2	12.2	14.0	11.5	(NA)	16.0	17	(NA)	20
Indonesia <sup>5</sup>	0.4	1.2	1.5	2.1	2.3	2.3	3.6	16	14	21
Italy	26.5	23.9	22.9	23.9	26.1	20.7	22.8	463	362	397
Japan	111.4	105.3	98.5	105.7	73.4	66.7	71.0	629	553	582
Mexico	7.0	7.2	7.2	7.3	10.8	8.3	7.6	152	105	93
Netherlands	5.0	3.4	1.8	1.3	4.6	4.4	3.9	328	305	263
Nigeria	0.0	0.3	0.2	0.2	2.0	0.9	0.8	24	9	8
North Korea	5.8	6.5	6.5	8.0	5.9	8.4	6.8	326	413	316
Pakistan	(NA)	(NA)	(NA)	(NA)	0.6	0.7	0.6	8	7	6
Philippines	0.4	0.3	0.3	0.3	1.2	0.5	1.0	25	9	17
Poland	18.6	15.4	16.3	15.9	19.3	15.2	15.9	542	409	422
Romania	13.2	13.8	(NA)	(NA)	12.1	10.9	(NA)	545	480	(NA)
South Africa	9.1	8.6	9.0	8.6	5.6	(NA)	6.3	232	(NA)	164
South Korea	5.8	5.0	2.8	2.3	4.9	(NA)	13.0	128	(NA)	308
Soviet Union	147.9	154.7	161.9	163.0	(NA)	(NA)	164.8	(NA)	(NA)	582
Spain	12.6	14.7	11.6	11.7	8.9	9.9	8.3	238	257	214
Sweden	4.2	4.9	4.7	4.8	4.1	3.2	3.5	498	384	421
Turkey	1.7	4.7	7.0	8.0	3.4	(NA)	7.7	77	(NA)	149
United Kingdom	11.3	15.7	17.4	19.0	13.8	14.4	14.7	245	254	259
Venezuela	1.8	3.1	3.7	3.7	3.0	3.2	4.1	199	186	227
Vietnam	(NA)	(NA)	(NA)	(NA)	0.2	0.1	0.2	4	1	11
West Germany	43.8	40.5	36.2	41.0	33.8	29.3	28.0	549	481	457
Yugoslavia	2.3	2.1	1.9	1.7	5.7	5.1	4.0	255	221	170

NA Not available. <sup>1</sup> Production data excludes steel for castings made in foundries operated by companies not producing ingots. <sup>2</sup> Production data for year ending June 30. <sup>3</sup> Luxembourg included with Belgium. <sup>4</sup> Production data exclude steel for castings. <sup>5</sup> Production data include crude steel for castings. <sup>6</sup> Lesotho, Namibia, and Swaziland.

Source: Statistical Office of the United Nations, New York, annuals. (Copyright.)

1 Industrial Statistics Yearbook, Vol.

## No. 1472. World Production of Major Mineral Commodities, by Selected Commodity: 1985 to 1988

[Metric ton=1.023 short tons]

COUNTRY	Unit	1985	1986	1987, prel.	1988, est.	Leading producers, 1988
<b>MINERAL FUELS</b>						
Coal	Mil. metric tons	4,441	4,542	4,676	4,755	China: Mainland, U.S., Soviet Union.
Gas, natural, marketed	Tril. cu. ft.	62.0	63.4	66.1	68.0	Soviet Union, U.S., Canada.
Natural gas liquids	Mil. barrels <sup>2</sup>	1,517	1,586	1,643	1,687	United States, Soviet Union, Mexico.
Petroleum, crude	Mil. barrels <sup>2</sup>	19,581	20,635	20,458	21,405	U.S., Saudi Arabia.
Petroleum, refined	Mil. barrels <sup>2</sup>	21,054	21,825	21,860	22,459	U.S., Soviet Union, Japan.
<b>NONMETALLIC MINERALS</b>						
Cement, hydraulic	Mil. metric tons	959	1,001	1,045	1,101	China: Mainland, Soviet Union, Japan.
Diamond, gem and industrial	1,000 carats	66,010	91,717	87,615	93,999	Australia, Zaire, Botswana.
Nitrogen in ammonia	Mil. metric tons	91.1	91.4	94.3	98.9	Soviet Union, China: Mainland, U.S.
Phosphate rock	Mil. metric tons	149	139	144	164	U.S., Soviet Union, Morocco.
Potash, marketable	Mil. metric tons	29.2	28.7	30.5	31.4	Soviet Union, Canada, East Germany.
Salt	Mil. metric tons	173	175	179	184	U.S., China: Mainland, Soviet Union.
Sulfur, elemental basis	Mil. metric tons	54.7	54.7	56.9	58.4	U.S., Soviet Union, Canada.
<b>METALS</b>						
Aluminum	Mil. metric tons	15.4	15.4	16.4	17.3	U.S., Soviet Union, Canada.
Bauxite, gross weight	Mil. metric tons	85.3	88.9	95.1	100.0	Australia, Guinea, Brazil.
Chromite, gross weight	1,000 metric tons	10,516	11,094	10,917	11,666	South Africa, Soviet Union, Albania.
Copper, metal content	1,000 metric tons	7,969	8,001	8,328	8,453	Chile, U.S., Canada.
Gold, metal content	Mil. troy ounces	49.3	51.5	53.0	58.5	South Africa, Soviet Union, U.S.
Iron ore, gross weight	Mil. metric tons	862	868	890	916	Soviet Union, Brazil, China: Mainland.
Lead, metal content	1,000 metric tons	3,428	3,354	3,429	3,426	Australia, Soviet Union, U.S.
Manganese ore, gross weight	Mil. metric tons	25.4	25.0	23.7	23.9	Soviet Union, S. Africa, China: Mainland.
Nickel, metal content	1,000 metric tons	805	770	812	835	Canada, Soviet Union, New Caledonia.
Steel, crude	Mil. metric tons	718	711	733	778	Soviet Union, Japan, U.S.
Tin, metal content	1,000 metric tons	181	173	177	200	Brazil, Indonesia, Malaysia.
Zinc, metal content	1,000 metric tons	6,936	6,936	7,242	6,977	Canada, Soviet Union, Australia.

<sup>1</sup> Excludes China: Mainland. <sup>2</sup> 42-gallon barrels. <sup>3</sup> Unalloyed ingot metal. <sup>4</sup> Mine output. <sup>5</sup> Includes iron ore concentrates and iron ore agglomerates.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

## No. 1473. Energy Consumption and Production, by Country: 1980 and 1988

[Metric ton = 1.1023 short tons. See text, section 31, for general comments about the data. For additional data qualifications for countries, see source]

COUNTRY	ENERGY CONSUMED <sup>1</sup> (coal equiv.)				ELECTRIC ENERGY PRODUCTION <sup>2</sup> (bil. kWh)		CRUDE PETROLEUM PRODUCTION <sup>3</sup> (mil. metric tons)		COAL PRODUCTION <sup>4</sup> (mil. metric tons)	
	Total (mil. metric tons)		Per capita (kilograms)		1980	1988	1980	1988	1980	1988
	1980	1988	1980	1988						
World, total	8,544.3	10,013.2	1,919	1,959	8,247	11,026	2,979	2,919	2,728	3,450
United States	2,364.5	2,057.9	10,388	10,015	5,235.4	5,285.7	424.2	410.1	710.4	783.5
Algeria	24.8	29.2	1,327	1,228	7.1	24.0	47.4	33.2	(Z)	(Z)
Argentina	49.3	62.2	1,746	1,973	39.7	53.0	25.3	23.1	0.4	0.5
Australia	91.2	113.5	6,195	6,942	96.1	138.6	18.9	25.1	72.5	134.6
Austria	30.5	30.0	4,058	4,015	42.0	48.3	1.5	1.2	(Z)	(Z)
Bahrain	4.4	7.3	12,651	15,239	1.7	3.0	2.4	2.2	(NA)	(NA)
Bangladesh	3.8	7.3	44	67	2.7	6.9	(Z)	(Z)	(X)	(X)
Belgium	59.1	55.4	5,997	5,587	53.6	64.6	(X)	(X)	6.3	9.5
Brazil	92.5	112.5	763	779	139.5	204.1	9.2	27.9	5.2	7.3
Bulgaria	47.3	51.5	5,254	5,727	34.8	45.0	60.3	60.3	0.3	0.2
Burma	2.2	2.5	62	65	1.3	2.3	1.6	0.7	(Z)	(Z)
Canada	254.2	275.0	10,547	10,540	377.5	504.3	70.4	79.2	20.2	38.6
Chile	11.4	13.4	1,025	1,053	11.8	16.9	1.6	1.1	1.0	1.9
China: Mainland	562.8	820.1	571	756	300.6	537.8	105.9	136.8	595.8	346.4
Taiwan	37.8	59.4	2,126	2,957	43.8	79.9	0.2	0.1	2.6	1.2
Colombia	23.8	25.9	923	850	22.9	38.3	6.5	18.9	4.9	15.1
Cuba	13.6	15.4	1,394	1,520	9.9	13.6	0.3	0.7	(X)	(X)
Czechoslovakia	97.4	96.2	6,364	6,172	72.7	87.4	0.1	0.1	928.3	925.5
Denmark	26.9	25.6	5,254	5,007	27.1	28.0	0.3	4.7	(X)	(X)
East Germany	121.8	129.2	7,276	7,764	98.8	118.3	0.1	(Z)	(Z)	(Z)
Ecuador	5.7	7.2	708	710	3.4	5.6	10.4	15.6	(NA)	(NA)
Egypt	20.1	34.1	488	664	18.9	35.4	29.4	42.8	(X)	(X)
Ethiopia	0.9	1.1	27	25	0.7	0.8	(X)	(X)	(NA)	(NA)
Finland	26.4	28.6	5,514	5,791	38.7	53.8	(X)	(X)	(X)	(X)
France	237.3	204.5	4,409	3,665	5246.4	5391.9	1.2	3.4	920.2	912.9
Greece	20.1	28.2	2,088	2,823	22.7	33.2	(Z)	1.1	(X)	(X)
Hong Kong	7.3	11.3	1,448	1,995	12.6	25.5	(NA)	(NA)	(X)	(X)
Hungary	40.6	40.3	3,787	3,811	23.9	29.2	2.0	1.9	93.1	92.3
India	139.4	235.3	202	287	119.3	237.8	9.4	31.6	109.1	189.0
Indonesia	34.7	51.2	230	293	14.2	37.0	77.6	66.0	0.3	2.7
Iran	45.7	69.5	1,177	1,308	22.4	38.7	72.7	112.4	60.9	61.3
Iraq	10.7	13.0	807	738	11.4	23.4	130.1	128.2	(NA)	(NA)
Ireland	11.1	13.0	3,268	3,561	10.9	13.2	(X)	(X)	0.1	(Z)
Israel	8.8	12.5	2,273	2,831	12.5	19.5	(Z)	(Z)	(X)	(X)
Italy	174.9	207.6	3,112	3,624	185.7	200.7	1.8	4.5	6(Z)	(Z)
Japan	434.8	480.0	3,726	3,921	577.5	753.7	0.4	60.6	18.0	11.2
Kuwait	6.9	15.6	5,019	8,069	9.4	20.0	84.1	71.5	(NA)	(NA)
Libya	7.3	15.1	2,456	3,567	4.8	16.0	88.3	49.2	(X)	(X)
Malaysia	12.2	22.6	882	1,366	10.2	19.3	13.2	25.2	(X)	(X)
Mexico	118.6	140.1	1,709	1,651	567.0	5110.9	99.9	130.7	7.0	11.3
Morocco	6.4	8.2	319	347	4.9	8.8	(Z)	6(Z)	0.7	0.6
Netherlands	93.0	99.7	6,543	6,808	64.8	69.6	1.3	3.9	(Z)	616(Z)
New Zealand	10.0	16.1	3,152	4,859	22.0	29.9	0.3	1.5	2.0	62.1
Nigeria	11.0	17.0	136	161	7.2	9.9	104.2	69.3	0.2	60.1
North Korea	48.5	58.8	2,713	2,687	35.0	53.0	(X)	(X)	536.0	640.0
Norway	26.3	27.8	6,423	6,855	84.1	109.4	24.6	54.2	0.3	0.2
Pakistan	16.6	32.0	191	263	15.3	36.9	0.5	2.2	1.5	2.7
Peru	12.0	11.0	693	521	9.8	14.1	9.8	7.6	60.1	60.1
Philippines	16.7	16.6	346	280	17.9	24.5	0.5	0.3	0.3	1.3
Poland	176.8	179.8	4,935	4,735	121.9	144.4	0.3	0.2	193.1	193.0
Portugal	11.2	15.8	1,153	1,547	15.3	22.4	(X)	(X)	0.2	0.2
Romania	100.0	108.4	4,505	4,705	67.5	75.3	11.5	610.9	8.1	8.9
Saudi Arabia	25.3	81.4	2,745	6,230	18.9	42.2	495.9	258.1	(NA)	(NA)
South Africa	90.2	107.9	2,751	2,760	90.4	151.9	(X)	(X)	116.6	178.4
South Korea	52.3	85.9	1,373	2,017	40.1	85.5	(X)	(X)	18.6	24.3
Soviet Union	1,473.1	1,953.8	5,549	6,888	1,293.9	1,698.4	603.2	624.0	492.9	599.0
Spain	88.4	90.0	2,359	2,306	110.5	138.5	1.6	1.5	13.1	14.3
Sudan	1.5	1.4	82	62	1.0	1.1	(X)	(X)	(NA)	(NA)
Sweden	44.5	41.0	5,376	4,913	96.7	146.5	(Z)	(Z)	(Z)	(Z)
Switzerland	23.3	24.7	3,636	3,778	548.1	58.0	(X)	(X)	(X)	(X)
Syria	7.3	12.7	835	1,098	3.8	8.1	8.3	14.2	(X)	(X)
Tanzania	0.8	0.9	44	37	0.7	0.9	(X)	(X)	(Z)	(Z)
Thailand	17.3	30.2	372	558	15.1	33.9	(X)	1.1	(Z)	(Z)
Trinidad and Tobago	7.5	7.0	6,992	5,704	2.0	3.5	11.0	7.9	(NA)	(NA)
Tunisia	4.1	5.4	639	703	2.8	5.1	5.6	4.9	(X)	(X)
Turkey	31.9	50.3	718	940	23.3	48.0	2.3	2.6	3.6	3.2
United Arab Emirates	16.8	28.3	17,188	18,869	6.3	13.1	82.8	75.4	(NA)	(NA)

See footnotes at end of table.

**No. 1473. Energy Consumption and Production, by Country: 1980 and 1988—Continued**

[Metric ton = 1.1023 short tons. See text, section 31, for general comments about the data. For additional data qualifications for countries, see source]

COUNTRY	ENERGY CONSUMED <sup>1</sup> (coal equiv.)				ELECTRIC ENERGY PRODUCTION <sup>2</sup> (bil. kWh)		CRUDE PETROLEUM PRODUCTION <sup>3</sup> (mil. metric tons)		COAL PRODUCTION <sup>4</sup> (mil. metric tons)	
	Total (mil. metric tons)		Per capita (kilograms)		1980	1988	1980	1988	1980	1988
	1980	1988	1980	1988						
United Kingdom	271.0	282.0	4,850	4,948	284.9	308.2	78.9	109.4	<sup>9</sup> 130.1	<sup>9</sup> 101.8
Venezuela	49.0	57.5	3,140	3,070	35.9	57.8	114.8	97.6	(Z)	(Z)
Vietnam	6.6	7.3	122	114	3.8	5.7	(NA)	(NA)	5.2	5.5
West Germany	359.4	339.6	5,829	5,594	368.8	428.9	4.6	5.6	94.5	79.3
Yugoslavia	48.0	58.9	2,152	2,501	59.4	83.7	4.2	3.7	0.4	0.4
Zaire	2.0	2.2	69	65	4.2	5.3	1.0	1.8	0.1	0.1
Zambia	2.3	1.8	403	240	59.2	58.4	(X)	(X)	0.6	0.4

NA Not available. X Not applicable. Z Less than 50,000 metric tons. <sup>1</sup> Based on apparent consumption of coal, lignite, petroleum products, natural gas, and hydro, nuclear, and geothermal electricity. <sup>2</sup> Comprises production by utilities generating primarily for public use, and production by industrial establishments generating primarily for own use. Relates to production at generating centers, including station use and transmission losses. <sup>3</sup> Includes shale oil, but excludes natural gasoline. <sup>4</sup> Excludes lignite and brown coal, except as noted. <sup>5</sup> Net production, i.e., excluding station use. <sup>6</sup> United Nations Statistical Office estimate. <sup>7</sup> For year ending June 30 of year shown. <sup>8</sup> For year ending June of year shown. <sup>9</sup> Includes slimes. <sup>10</sup> For year ending April of year shown. <sup>11</sup> Source: U.S. Bureau of the Census, Data from Republic of China publications. <sup>12</sup> Includes Monaco. <sup>13</sup> For year ending March 20 of year shown. <sup>14</sup> Includes San Marino. <sup>15</sup> Includes share of production and consumption in the Neutral Zone. <sup>16</sup> Includes patent fuel and hard coal briquettes. <sup>17</sup> For year ending March 31 for year shown. <sup>18</sup> Includes Svalbard and Jan Mayen Islands. <sup>19</sup> Includes Botswana, Lesotho, Namibia, and Swaziland. <sup>20</sup> Includes Liechtenstein. <sup>21</sup> Includes inputs other than crude petroleum and natural gas liquids.

Source: Except as noted, Statistical Office of the United Nations, New York, NY, *Energy Statistics Yearbook*, annual. (Copyright.)

**No. 1474. Selected Petroleum Product Prices—Selected Countries: 1990**

[As of January 1, 1990. Includes taxes]

COUNTRY	AUTOMOTIVE FUELS (U.S. dollars per gallon)		RESIDENTIAL (U.S. dollars per gallon)			INDUSTRIAL (U.S. dollars per barrel)	
	Premium gasoline	Diesel fuel	Light fuel oil	Kerosene	Liquefied petroleum gases	Light fuel oil	Heavy fuel oil
United States <sup>1</sup>	<sup>2</sup> 1.04	0.99	<sup>2</sup> 0.81	<sup>2</sup> 1.00	<sup>2</sup> 0.95	32.47	21.84
Argentina	1.28	0.59	0.41	0.31	0.31	17.14	9.28
Austria	3.15	2.17	0.80	(NA)	1.39	28.56	17.11
Belgium	3.13	1.76	0.96	0.87	1.59	28.14	14.93
Bolivia	1.46	0.95	0.85	0.75	0.51	39.75	(NA)
Brazil	1.41	0.69	0.85	0.79	0.50	12.59	9.55
Canada	1.92	1.55	1.09	1.56	1.28	45.78	23.49
Chile	1.21	1.20	1.17	0.96	0.90	30.93	21.96
Denmark	3.64	1.04	2.32	1.84	2.06	36.96	20.83
Ecuador	0.52	0.37	(NA)	0.06	0.11	15.54	11.78
El Salvador	1.88	1.05	(NA)	1.14	0.70	21.00	21.00
Ethiopia	2.93	1.44	(NA)	1.18	1.28	41.47	47.00
Finland	3.40	2.29	1.21	(NA)	2.90	42.00	25.53
France	3.40	1.78	1.40	(NA)	(NA)	(NA)	18.51
Ghana	0.76	0.69	(NA)	0.52	0.60	22.04	18.36
Greece	2.16	0.89	0.90	0.79	0.76	37.80	24.31
India	1.92	0.78	(NA)	0.50	0.35	33.81	31.46
Ireland	3.83	2.54	1.43	0.48	0.97	42.84	21.79
Israel	2.20	1.67	0.75	1.69	0.49	(NA)	23.03
Italy	4.27	2.34	2.53	2.00	1.84	89.04	24.00
Jamaica	2.02	1.44	(NA)	0.78	(NA)	41.98	25.08
Japan	3.05	1.75	1.03	(NA)	(NA)	37.80	26.14
Luxembourg	2.32	1.40	0.94	0.98	0.64	36.96	19.81
Mexico	0.88	0.67	0.27	0.63	0.28	28.10	9.74
Morocco	2.86	1.63	0.95	1.47	0.77	35.61	33.48
Netherlands	3.35	1.72	1.25	1.62	1.09	(NA)	26.77
Norway	3.61	1.31	1.38	1.55	1.03	48.30	44.43
Pakistan	1.52	0.68	(NA)	0.53	0.38	12.42	14.28
Panama	1.98	1.19	(NA)	1.10	0.93	46.20	21.21
Paraguay	1.33	0.68	(NA)	0.81	0.46	28.44	17.84
Peru	1.28	0.39	(NA)	0.44	0.33	15.78	11.28
Portugal	3.30	2.06	2.13	2.03	2.07	86.10	25.16
Saudi Arabia	0.54	0.12	(NA)	0.20	0.49	36.00	55.10
South Africa	1.76	1.65	1.59	1.48	1.58	65.09	35.67
Spain	2.73	1.82	1.21	2.04	1.28	45.36	21.22
Sweden	3.23	2.30	1.74	2.18	0.66	63.42	55.61
Switzerland	2.66	2.71	0.88	(NA)	(NA)	33.60	23.42
Thailand	1.24	0.89	(NA)	0.90	0.78	36.30	17.84
Turkey	1.97	1.94	0.96	1.98	0.88	(NA)	36.24
United Kingdom	2.55	2.04	0.81	2.61	(NA)	(NA)	19.59
Uruguay	2.50	1.44	0.98	1.16	1.20	38.32	30.19
Venezuela	0.24	0.06	0.04	0.09	0.21	1.84	1.84
West Germany	2.72	1.91	0.95	(NA)	(NA)	35.11	20.31

NA Not available. <sup>1</sup> Average for January 1990. <sup>2</sup> Price excludes tax.

Source: Energy Information Administration, *International Energy Annual*, 1989.

## No. 1475. Indices of Food Production: 1980 to 1988

[1979-1981 = 100. For explanation of annual percent change, see Guide to Tabular Presentation. Minus sign (-) indicates decrease]

REGION AND COUNTRY	TOTAL FOOD PRODUCTION						PER CAPITA FOOD PRODUCTION					
	1980	1985	1987	1988	Average annual percent change		1980	1985	1987	1988	Average annual percent change	
					1980-1988	1987-1988					1980-1988	1987-1988
World . . . . .	99	114	116	116	2.0	-	99	105	103	101	0.2	-1.9
Developed countries . . . . .	99	108	105	100	0.1	-4.7	98	104	100	95	-0.4	-5.0
United States . . . . .	96	108	99	91	0.4	-8.1	96	103	93	85	-8.6	-8.6
Canada . . . . .	99	114	118	101	0.3	-14.4	99	108	110	93	-0.8	-15.4
Western Europe . . . . .	102	107	109	107	0.6	-1.8	102	106	107	105	0.4	-1.9
Japan . . . . .	96	109	105	103	0.9	-1.9	96	105	100	98	0.3	-2.0
Oceania . . . . .	95	107	106	109	1.7	2.8	94	99	96	97	0.4	1.0
South Africa . . . . .	96	94	102	106	1.2	3.4	96	83	86	87	-1.2	1.0
Centrally planned countries . . . . .	99	123	133	132	3.6	-0.7	99	116	123	121	2.5	-1.6
Soviet Union . . . . .	100	110	118	118	2.1	-	100	106	110	110	1.2	-
Eastern Europe . . . . .	98	108	112	110	1.3	-1.8	99	106	108	106	0.9	-1.9
China: Mainland . . . . .	99	129	140	139	4.3	-0.7	99	121	129	126	3.1	2.0
Developing countries . . . . .	100	116	117	123	2.6	5.1	100	103	100	102	0.2	2.0
Latin America . . . . .	99	114	116	120	2.4	3.4	99	101	99	100	0.1	1.0
Mexico . . . . .	100	113	111	111	1.3	0.0	100	99	93	91	-1.2	-2.1
Brazil . . . . .	103	124	128	137	3.6	7.0	103	111	110	115	1.4	4.5
Argentina . . . . .	96	106	107	107	1.3	-	96	98	96	95	-0.1	-1.0
Africa . . . . .	101	113	115	119	2.1	3.4	99	96	93	94	-0.8	1.1
Middle East . . . . .	100	113	117	124	2.7	6.0	100	99	97	98	-0.2	1.0
Far East . . . . .	100	120	120	127	3.0	5.8	100	108	104	108	1.0	1.0
India . . . . .	98	124	121	132	3.8	9.1	98	112	106	114	1.9	7.5

- Represents or rounds to zero.

Source: Food and Agriculture Organization of the United Nations, Rome, Italy, *FAO Quarterly Bulletin of Statistics*, vol. 2/1; and U.S. Department of Agriculture, Economic Research Service, unpublished data.

## No. 1476. Wheat, Rice, and Corn—Exports and Imports of 10 Leading Countries: 1986 to 1988

[In thousands of metric tons. Countries listed are the ten leading exporters or importers in 1988]

LEADING EXPORTERS	EXPORTS			LEADING IMPORTERS	IMPORTS		
	1986	1987	1988		1986	1987	1988
<b>WHEAT</b>				<b>WHEAT</b>			
United States . . . . .	24,555	30,638	40,500	Soviet Union . . . . .	15,745	18,097	21,180
Canada . . . . .	15,957	22,140	20,079	China: Mainland . . . . .	6,114	13,201	14,547
France . . . . .	13,367	14,220	14,847	Japan . . . . .	5,620	5,476	5,724
Australia . . . . .	16,109	14,789	12,303	Egypt . . . . .	4,329	5,162	5,287
Argentina . . . . .	4,021	4,192	3,643	Italy . . . . .	5,259	4,617	4,904
West Germany . . . . .	2,143	2,262	3,185	South Korea . . . . .	3,449	4,121	4,116
Saudi Arabia . . . . .	575	1,344	2,058	Algeria . . . . .	2,623	1,849	3,350
Turkey . . . . .	16	297	1,993	Iran . . . . .	1,908	3,600	3,200
United Kingdom . . . . .	3,987	4,122	1,927	Iraq . . . . .	2,185	2,900	2,800
Hungary . . . . .	1,669	1,281	1,790	Netherlands . . . . .	1,321	1,396	2,454
<b>RICE</b>				<b>RICE</b>			
Thailand . . . . .	4,524	4,443	5,267	India . . . . .	21	17	684
United States . . . . .	2,392	2,472	2,260	Bangladesh . . . . .	53	260	674
Pakistan . . . . .	1,316	1,270	1,210	Iraq . . . . .	550	524	603
China: Mainland . . . . .	950	1,022	699	Iran . . . . .	493	800	600
Italy . . . . .	676	610	510	Soviet Union . . . . .	493	598	498
Australia . . . . .	178	186	297	Hong Kong . . . . .	367	373	364
Uruguay . . . . .	282	212	273	Saudi Arabia . . . . .	374	375	363
North Korea . . . . .	200	250	236	China: Mainland . . . . .	322	551	310
India . . . . .	253	350	200	Senegal . . . . .	378	307	310
Spain . . . . .	72	171	119	France . . . . .	305	277	297
<b>CORN</b>				<b>CORN</b>			
United States . . . . .	27,099	40,906	46,568	Japan . . . . .	14,653	16,504	18,555
France . . . . .	5,799	6,305	6,011	Soviet Union . . . . .	7,236	9,238	11,426
Argentina . . . . .	7,411	3,987	4,217	South Korea . . . . .	3,671	4,566	5,051
China: Mainland . . . . .	5,641	3,917	3,917	Taiwan . . . . .	3,071	3,707	4,459
Thailand . . . . .	3,981	1,628	1,209	Mexico . . . . .	1,704	3,603	3,303
South Africa . . . . .	1,800	2,350	745	Spain . . . . .	1,564	942	2,244
Spain . . . . .	60	459	731	Netherlands . . . . .	1,877	1,760	2,045
Belgium-Luxembourg . . . . .	364	604	524	Belgium-Luxembourg . . . . .	1,466	1,729	1,487
Greece . . . . .	580	368	500	Italy . . . . .	835	1,245	1,471
Soviet Union . . . . .	212	257	365	United Kingdom . . . . .	1,482	1,471	1,338

Source: U.S. Dept. of Agriculture, Economic Research Service. Data from Food and Agriculture Organization of the United Nations, Rome, Italy, *FAO Trade Yearbook*.

## No. 1477. Wheat, Rice, and Corn Production, by Country: 1987 to 1989

[In thousands of metric tons. Rice data cover paddy. Data for each country pertain to the calendar year in which all or most of the crop was harvested. See text, section 31, for general comments concerning quality of the data]

COUNTRY	WHEAT			RICE			CORN		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
World, total	510,462	506,968	538,056	465,780	490,768	506,291	451,086	400,892	470,318
United States	57,363	49,303	55,407	5,879	7,253	7,007	181,142	125,193	191,197
Argentina	9,000	7,800	<sup>2</sup> 10,000	371	415	469	9,250	9,200	4,260
Australia	12,369	14,054	14,200	613	751	748	206	221	217
Belgium	1,078	1,293	1,478	(NA)	(NA)	(NA)	40	54	62
Brazil	6,035	5,751	5,407	10,419	<sup>2</sup> 11,806	<sup>2</sup> 11,107	26,803	24,750	26,508
Burma	192	157	230	13,636	<sup>2</sup> 13,162	<sup>2</sup> 13,581	224	259	270
Canada	25,992	15,996	24,383	(NA)	(NA)	(NA)	7,015	5,369	6,400
China: Mainland <sup>3</sup>	85,845	85,435	<sup>2</sup> 91,002	176,958	171,368	<sup>2</sup> 179,403	79,457	77,671	<sup>2</sup> 75,840
Egypt	2,721	2,639	<sup>2</sup> 3,148	2,406	2,132	<sup>2</sup> 2,680	3,019	4,087	3,748
France	27,415	29,677	31,817	54	65	97	12,470	14,120	12,926
Greece	2,213	2,183	2,005	137	116	110	2,156	1,750	1,700
Hungary	5,748	7,026	6,559	40	47	45	7,234	6,256	6,949
India	44,323	46,169	53,995	85,339	106,385	<sup>2</sup> 107,500	5,721	8,332	7,800
Indonesia	(NA)	(NA)	(NA)	40,078	41,676	43,566	5,155	6,852	6,324
Iran	7,600	7,265	5,900	1,803	1,419	1,200	580	555	370
Iraq	722	929	2,481	196	141	340	61	77	31
Japan	9,381	7,952	7,408	1,064	1,094	21,130	5,764	6,269	<sup>2</sup> 6,251
Mexico	864	4,415	3,665	13,284	12,419	<sup>2</sup> 12,934	1	31	31
Pakistan	12,016	12,675	14,419	591	456	2,441	11,607	10,600	29,900
South Korea	4	2	22	4,861	4,800	4,796	1,127	1,204	1,120
Soviet Union	83,312	84,445	90,500	7,596	8,260	8,200	127	108	218
Sweden	1,558	1,296	21,764	2,683	2,866	2,525	14,808	16,030	<sup>3</sup> 17,000
Thailand	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
United Kingdom	11,941	11,640	13,900	18,428	21,263	<sup>2</sup> 21,300	2,781	4,675	4,456
Vietnam	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
West Germany	9,932	11,922	11,065	15,550	16,860	<sup>2</sup> 18,100	561	815	<sup>3</sup> 900
Yugoslavia	5,345	6,304	5,599	49	24	<sup>2</sup> 30	8,863	7,700	9,415

NA Not available. <sup>1</sup> Includes Luxembourg. <sup>2</sup> Unofficial figure. <sup>3</sup> FAO estimate.

Source: Food and Agriculture Organization of the United Nations, Rome, Italy, *FAO Production Yearbook*, annual (copyright).

## No. 1478. Fisheries—Commercial Catch, by Country: 1984 to 1988

[In billions of pounds, live weight. Catch of fish, crustaceans, mollusks (including weight of shells), and other aquatic plants and animals, except whales and seals]

COUNTRY	1984	1985	1986	1987	1988	COUNTRY	1984	1985	1986	1987	1988
World, total <sup>1</sup>	183.2	190.6	203.7	206.7	216.9	Japan	26.5	25.2	26.4	26.1	26.2
United States	10.6	10.5	10.9	13.3	13.3	Mexico	2.4	2.7	2.9	3.1	3.0
Canada	2.8	3.1	3.3	3.4	3.5	North Korea (est.)	3.6	3.7	3.7	3.7	3.7
Chile	9.9	10.6	12.3	10.6	11.5	Norway	5.4	4.7	4.2	4.3	4.0
China: Mainland	13.1	14.9	17.6	20.6	22.8	Peru	7.4	9.2	12.4	10.1	14.6
Denmark	4.1	3.9	4.1	3.8	4.3	Philippines	4.3	4.1	4.2	4.4	4.5
Iceland	3.4	3.7	3.7	3.6	3.9	South Korea	5.5	5.8	6.8	6.3	6.0
India	6.3	6.2	6.4	6.4	6.9	Soviet Union	23.4	23.2	24.8	24.6	25.0
Indonesia	4.4	5.2	5.4	5.7	6.0	Spain	2.9	3.0	3.2	3.1	3.2
						Thailand	4.7	4.9	5.6	4.9	5.2

<sup>1</sup> Includes other countries not shown separately.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual. Data from Food and Agricultural Organization of the United Nations, Rome, Italy.

## No. 1479. Meat—Production, by Country: 1980 to 1988

[In thousands of metric tons, carcass weight. Covers beef and veal (incl. buffalo meat), pork (incl. bacon and ham), and mutton and lamb (incl. goat meat). Refers to meat from animals slaughtered within the national boundaries irrespective of origin of animals, and relates to commercial and farm slaughter. Excludes lard, tallow, and edible offals. See text, section 31, for general comments concerning the data]

COUNTRY	1980	1985	1988	COUNTRY	1980	1985	1988
World, total	104,535	115,537	117,261	Italy	2,305	2,462	2,419
United States	17,680	17,874	17,824	Japan	1,893	2,087	2,111
Argentina	3,220	3,077	3,085	Mexico	2,044	2,289	2,269
Australia <sup>1</sup>	2,332	2,086	2,234	Poland	2,397	2,192	2,511
Brazil	3,115	3,045	2,835	Soviet Union	12,698	14,050	14,799
China	12,664	16,443	19,892	United Kingdom	2,305	2,419	2,342
France	3,823	3,733	3,757	West Germany	4,759	4,845	5,058

<sup>1</sup> Year ending June 30.

Source: Food and Agriculture Organization of the United Nations, Rome, Italy, *FAO Production Yearbook*, annual. (Copyright.)

# No. 1480. Foreign Trade of Selected Countries—Source of Imports and Destination of Exports: 1989

[In billions of dollars, except percent. All exports are f.o.b. (free on board) and all imports are c.i.f. (cost insurance freight) except for U.S. and Canadian imports, which are f.o.b.]

COUNTRY	Total <sup>1</sup>	O.E.C.D. <sup>2</sup>		Soviet Union and Eastern Europe	China: Mainland, Vietnam, North Korea	O.P.E.C. <sup>4</sup>	Other developing countries <sup>5</sup>	Africa	America <sup>6</sup>	Middle East	Far East <sup>8</sup>
		Total	E.E.C. <sup>3</sup>								
IMPORTS											
United States . . . . .	473.4	287.7	85.1	2.1	12.0	30.6	141.0	14.0	57.4	15.1	96.0
Austria . . . . .	38.9	32.9	26.4	2.4	0.2	0.7	2.7	0.9	0.5	0.3	1.5
Belgium <sup>9</sup> . . . . .	98.5	84.4	70.3	1.8	0.3	2.9	9.0	4.6	1.8	2.6	3.0
Canada . . . . .	114.1	98.8	12.6	0.4	1.0	1.6	10.8	1.0	4.1	0.6	7.8
Denmark . . . . .	26.6	22.5	13.2	0.8	0.3	0.6	2.4	0.2	0.9	0.5	1.4
France . . . . .	190.6	153.8	114.3	4.7	1.8	8.0	19.2	9.3	4.5	5.2	8.8
Italy . . . . .	162.3	123.2	92.1	6.6	1.8	10.3	20.1	12.9	4.7	4.7	6.8
Japan . . . . .	210.8	105.6	28.3	3.7	11.8	31.9	57.8	4.2	8.7	22.8	64.7
Netherlands . . . . .	104.2	86.2	65.8	2.4	0.5	6.0	9.0	2.7	2.8	4.5	5.2
Spain . . . . .	71.5	45.0	40.8	1.8	0.5	5.3	8.1	4.6	3.5	2.5	3.1
Sweden . . . . .	48.9	42.9	26.9	1.7	0.3	0.5	3.4	0.2	1.1	0.5	2.3
Switzerland . . . . .	58.2	52.3	41.2	0.7	0.2	0.3	4.6	1.0	1.3	0.5	2.2
United Kingdom . . . . .	197.6	167.3	104.0	2.9	0.9	3.2	22.3	4.2	3.6	3.0	14.6
West Germany . . . . .	269.8	217.8	137.9	10.1	3.1	6.6	31.9	8.2	8.2	3.4	17.6
Percent distribution:											
United States . . . . .	100.0	60.8	18.0	0.4	2.5	6.5	29.8	3.0	12.1	3.2	20.3
Austria . . . . .	100.0	84.6	67.9	6.0	0.6	1.8	7.0	2.2	1.3	0.8	3.9
Belgium <sup>9</sup> . . . . .	100.0	85.7	71.4	1.8	0.3	3.0	9.2	4.7	1.8	2.7	3.1
Canada . . . . .	100.0	86.5	11.0	0.4	0.9	1.4	9.5	0.9	3.6	0.5	6.8
Denmark . . . . .	100.0	84.7	50.0	2.9	1.2	2.1	9.1	0.9	3.5	1.9	5.4
France . . . . .	100.0	80.7	60.0	2.4	0.9	4.2	10.1	4.9	2.4	2.7	4.6
Italy . . . . .	100.0	75.9	56.7	4.1	1.1	6.4	12.4	7.9	2.9	2.9	4.2
Japan . . . . .	100.0	50.1	13.4	1.8	5.6	15.1	27.4	2.0	4.1	10.8	30.7
Netherlands . . . . .	100.0	82.8	63.2	2.3	0.5	5.8	8.7	2.6	2.7	4.3	5.0
Spain . . . . .	100.0	62.9	57.1	2.5	0.8	7.4	11.3	6.4	4.8	3.5	4.4
Sweden . . . . .	100.0	87.8	55.0	3.5	0.7	1.1	6.9	0.4	2.2	1.0	4.7
Switzerland . . . . .	100.0	89.9	70.8	1.2	0.4	0.6	7.9	1.8	2.2	0.9	3.8
United Kingdom . . . . .	100.0	84.6	52.6	1.4	0.4	1.6	11.3	2.1	1.8	1.5	7.4
West Germany . . . . .	100.0	80.8	51.1	3.8	1.2	2.5	11.8	3.1	3.0	1.3	6.5
EXPORTS											
United States . . . . .	363.8	232.0	86.6	5.3	5.8	13.2	107.0	7.7	49.1	11.1	57.0
Austria . . . . .	32.4	26.4	20.7	2.9	0.2	0.9	2.1	0.6	0.2	0.7	0.9
Belgium <sup>9</sup> . . . . .	100.0	87.1	73.7	1.2	0.4	1.7	8.9	2.5	0.8	2.7	4.5
Canada . . . . .	116.2	105.7	9.8	0.8	1.0	1.6	7.1	0.9	2.2	1.0	5.5
Denmark . . . . .	28.0	24.3	14.2	0.7	0.1	0.7	2.3	0.5	0.6	0.7	0.9
France . . . . .	172.8	136.8	105.8	3.5	1.7	6.5	24.3	12.8	5.2	4.2	8.2
Italy . . . . .	149.2	118.8	84.3	4.6	1.3	7.1	16.8	7.1	3.3	5.0	6.7
Japan . . . . .	275.2	166.3	56.6	3.8	8.9	10.8	85.5	5.2	8.9	7.5	82.4
Netherlands . . . . .	107.8	95.9	81.3	1.8	0.3	2.2	6.8	2.6	1.2	1.8	3.1
Spain . . . . .	44.4	36.1	29.6	0.7	0.2	1.7	4.8	2.0	1.8	1.2	1.2
Sweden . . . . .	51.5	44.9	27.5	1.1	0.2	1.0	4.2	0.9	0.9	0.9	2.5
Switzerland . . . . .	51.5	40.7	29.2	1.7	0.4	1.6	7.1	1.1	1.4	2.1	4.1
United Kingdom . . . . .	152.6	120.5	77.3	2.2	0.7	8.3	19.4	5.5	2.6	8.6	10.6
West Germany . . . . .	341.4	284.9	188.2	13.0	2.5	8.7	31.6	9.1	6.2	7.4	15.7
Percent distribution:											
United States . . . . .	100.0	63.8	23.8	1.5	1.6	3.6	29.4	2.1	13.5	3.1	15.7
Austria . . . . .	100.0	81.4	63.8	9.0	0.6	2.6	6.4	1.8	0.7	2.0	2.8
Belgium <sup>9</sup> . . . . .	100.0	87.1	73.7	1.2	0.4	1.7	8.9	2.5	0.8	2.7	4.5
Canada . . . . .	100.0	91.0	8.4	0.7	0.8	1.4	6.1	0.8	1.9	0.9	4.7
Denmark . . . . .	100.0	86.5	50.6	2.5	0.3	2.3	8.2	1.9	2.2	2.5	3.3
France . . . . .	100.0	79.1	61.2	2.0	1.0	3.8	14.1	7.4	3.0	2.4	4.8
Italy . . . . .	100.0	79.6	56.5	3.1	0.9	4.8	11.3	4.8	2.2	3.4	4.5
Japan . . . . .	100.0	60.4	20.6	1.4	3.2	3.9	31.1	1.9	3.2	2.7	29.9
Netherlands . . . . .	100.0	89.0	75.4	1.6	0.2	2.1	6.3	2.5	1.2	1.7	2.8
Spain . . . . .	100.0	81.4	66.8	1.5	0.5	3.9	10.9	4.6	4.0	2.8	2.7
Sweden . . . . .	100.0	87.1	53.4	2.2	0.4	2.0	8.2	1.8	1.7	1.7	4.8
Switzerland . . . . .	100.0	79.1	56.6	3.2	0.8	3.1	13.8	2.1	2.7	4.1	8.0
United Kingdom . . . . .	100.0	79.0	50.7	1.5	0.5	5.5	12.7	3.6	1.7	5.6	7.0
West Germany . . . . .	100.0	83.5	55.1	3.8	0.7	2.6	9.3	2.7	1.8	2.2	4.6

<sup>1</sup> Includes other areas not shown separately. <sup>2</sup> Organization for Economic Cooperation and Development, except Australia. For member countries, see text, section 31. <sup>3</sup> European Economic Community comprises Belgium-Luxembourg, Denmark, France, Greece, Ireland, Italy, Netherlands, Portugal, Spain, United Kingdom, and West Germany. <sup>4</sup> Organization of Petroleum Exporting Countries. For member countries, see footnote 4, table 1487. <sup>5</sup> Comprises trade with all countries other than China: Mainland, North Korea, Vietnam, South Africa, Soviet Union, Eastern Europe, and members of O.P.E.C. and O.E.C.D. <sup>6</sup> All countries comprising the continent except Canada and the United States. <sup>7</sup> Comprises Syria, Lebanon, Israel, Gaza Strip, Jordan, Iraq, Saudi Arabia, Yemen (Aden), Yemen (Sanaa), Kuwait, Bahrain, United Arab Emirates, Qatar, Oman, and Iran. <sup>8</sup> All countries comprising the continent of Asia except Japan, China: Mainland, North Korea, Vietnam, and those countries listed under Middle East. <sup>9</sup> Includes Luxembourg.

Source: Organization for Economic Cooperation and Development, Paris, France. Data derived from *Monthly Statistics of Foreign Trade*, series A, May 1990.

## No. 1481. Reserve Assets and International Transaction Balances: 1985 to 1989

[In millions of U.S. dollars. Assets include holdings of convertible foreign currencies, special drawing rights, and reserve position in International Monetary Fund and exclude gold holdings. Minus sign (-) indicates decrease]

COUNTRY	TOTAL RESERVE ASSETS				CURRENT ACCOUNT BALANCE			MERCHANDISE TRADE BALANCE		
	1985	1988	1989		1985	1988	1989	1985	1988	1989
			Total	Currency holdings <sup>1</sup>						
United States	32,100	36,740	63,550	44,550	-112,750	-126,580	-105,900	-122,160	-127,210	-113,240
Algeria	2,819	900	847	843	1,015	-2,040	(NA)	4,223	946	(NA)
Argentina	3,273	3,363	1,463	1,463	-952	-1,615	-1,292	4,878	4,234	5,709
Australia	5,768	13,598	13,780	13,150	-8,913	-10,093	-15,677	-1,317	-1,128	-3,647
Austria	4,767	7,368	8,598	7,939	-273	-458	-94	-4,406	-6,301	-7,363
Bangladesh	337	1,046	502	469	-458	-286	-1,103	-1,287	-1,443	-1,986
Belgium	4,849	9,333	10,766	9,760	689	3,594	3,197	-472	1,223	967
Brazil	10,605	6,972	7,535	7,535	-273	4,159	(NA)	12,466	19,168	(NA)
Burma	34	77	263	263	-206	(NA)	(NA)	-202	(NA)	(NA)
Cameroon	132	151	80	79	-562	(NA)	(NA)	490	(NA)	(NA)
Canada	2,503	15,391	16,055	14,150	-1,470	-8,330	-16,593	12,574	8,881	5,047
Chile	2,450	3,161	(NA)	(NA)	-1,328	-167	-905	850	2,219	1,578
China: Mainland	12,728	18,541	17,960	17,022	-11,417	-3,802	-4,317	-13,123	-5,315	-5,620
Colombia	1,595	3,248	3,616	3,466	-1,809	-200	42	-23	827	1,481
Denmark	5,429	10,765	6,397	5,782	-2,728	-1,779	-1,402	-771	1,873	2,426
Ecuador	718	398	540	540	114	-536	-472	1,294	588	661
Egypt	792	1,263	1,520	1,520	-2,166	-1,190	(NA)	-5,215	-6,751	(NA)
Finland	3,750	6,369	5,111	4,637	-766	-2,998	-4,895	878	1,136	-250
France	26,589	25,364	24,611	21,868	-35	-3,549	-4,299	-5,276	-8,089	-10,349
Ghana	479	221	347	317	-134	-66	-98	-36	-112	-192
Greece	868	3,619	3,223	3,106	-3,276	-958	-2,573	-5,053	-6,072	-7,383
Hungary	2,153	1,467	1,246	1,246	-455	-572	-571	448	583	1,043
India	6,420	4,899	3,859	3,105	-4,177	(NA)	(NA)	-5,616	(NA)	(NA)
Indonesia	4,974	5,048	5,454	5,357	-1,923	-1,397	-1,368	5,822	5,678	6,413
Ireland	2,940	5,087	4,057	3,702	-690	653	521	631	3,829	4,007
Israel	3,680	4,016	5,276	5,276	1,109	-623	1,148	-2,362	-3,047	-1,819
Italy	15,595	34,715	46,720	44,278	-3,540	-6,190	-10,632	-6,083	-1,362	-1,990
Ivory Coast	5	10	15	10	64	-1,280	(NA)	1,351	816	(NA)
Japan	26,719	96,728	83,957	77,992	49,170	79,610	56,990	55,990	95,000	76,890
Kenya	391	264	285	257	-113	-455	-588	-327	-785	-1,037
Kuwait	5,471	1,924	3,102	2,765	4,815	4,419	9,323	4,712	1,645	5,637
Libya	5,904	4,322	4,333	3,685	1,906	-1,823	(NA)	4,599	-109	(NA)
Malaysia	4,912	6,527	7,783	7,393	-613	1,817	-175	3,577	5,546	3,899
Mexico	4,906	5,279	6,329	5,946	1,130	-2,443	-5,447	8,451	1,668	-645
Morocco	115	547	488	488	-891	467	-790	-1,368	-752	-1,679
Nepal	56	220	215	207	-122	-280	-243	-283	-477	-415
Netherlands	10,782	16,075	16,508	15,027	4,027	5,415	7,960	5,462	8,484	7,935
Nigeria	1,667	651	1,766	1,765	2,566	-194	-143	5,616	2,626	2,844
Norway	13,917	13,268	13,785	12,751	3,052	-3,715	226	4,728	-145	3,769
Pakistan	807	395	521	519	-1,080	-1,424	-1,204	-3,230	-2,693	-2,454
Peru	1,842	511	808	808	135	-1,096	508	1,172	-99	1,402
Philippines	615	1,003	1,417	1,365	-35	-390	-1,465	-482	-1,085	-2,598
Poland	870	2,055	2,314	2,314	-846	-275	-1,586	573	847	-114
Portugal	1,395	5,127	9,952	9,826	410	-632	-554	-1,457	-5,137	-5,192
Romania	199	(NA)	(NA)	(NA)	1,239	(NA)	(NA)	1,735	(NA)	(NA)
Saudi Arabia	25,004	20,553	16,748	11,287	-12,932	-6,774	(NA)	7,029	4,510	(NA)
Singapore	12,847	17,073	20,345	20,136	-4	1,306	2,338	-2,829	-2,345	-2,474
South Africa	315	780	960	958	2,622	1,218	1,579	5,842	5,222	5,589
South Korea	2,869	12,347	15,214	14,978	-887	14,161	5,056	-19	11,445	4,597
Spain	11,175	37,074	41,467	39,558	2,851	-3,784	-10,933	-4,171	-17,998	-24,495
Sri Lanka	451	222	244	231	-419	-395	-265	-523	-541	-454
Sudan	12	12	16	16	155	-358	-152	-135	-522	-508
Sweden	5,793	8,492	9,559	8,885	-1,608	-2,549	-5,179	2,384	4,748	4,133
Switzerland	18,016	24,203	25,116	25,070	6,040	8,836	8,495	-1,561	-4,576	-4,328
Syria	83	191	(NA)	(NA)	-958	-151	784	-2,090	-639	991
Thailand	2,190	6,097	9,515	9,461	-1,537	-1,655	2,455	-1,332	2,074	-2,948
Trinidad and Tobago	1,129	127	247	238	-90	-118	-66	756	389	489
Turkey	1,056	2,344	4,780	4,738	-1,013	1,596	966	-2,975	-1,777	-4,201
United Kingdom	12,860	44,100	34,770	31,990	4,765	-27,283	-32,115	-2,653	-37,438	-39,170
Venezuela	10,251	3,092	4,106	4,055	3,327	-5,809	2,496	6,782	-1,998	5,858
West Germany	44,380	58,528	60,709	55,862	17,000	50,450	55,430	28,520	79,400	76,660
Yugoslavia	1,095	2,298	4,136	4,136	833	2,487	2,427	-588	779	58
Zaire	190	187	195	190	-289	-762	-641	606	473	422

NA Not available. <sup>1</sup> Holdings of convertible foreign currencies.

Source: International Monetary Fund, Washington, DC, *International Financial Statistics*, monthly with annual supplements.

## No. 1482. Foreign Exchange Rates: 1970 to 1990

[National currency units per dollar, except as noted. Except as indicated, data are annual averages of certified noon buying rates for cable transfers]

YEAR	Australia <sup>1</sup> (dollar)	Austria (schilling)	Belgium (franc)	Canada (dollar)	China: Taiwan (dollar)	Denmark (krone)	France (franc)	Greece (drachma)	Hong Kong (dollar)
1970	111.36	25.880	49.680	1.0103	40.050	7.4890	5.5200	30.00	6.0600
1975	130.77	17.443	36.799	1.0175	38.000	5.7481	4.2876	32.29	4.9390
1979	111.77	13.387	29.342	1.1603	36.048	5.2622	4.2566	37.04	5.0030
1980	114.00	12.945	29.237	1.1693	36.015	5.6345	4.2250	42.62	4.9760
1981	114.95	15.948	37.194	1.1990	36.849	7.1350	5.4396	55.41	5.5678
1982	101.65	17.060	45.780	1.2344	39.124	8.3443	6.5793	66.87	6.0697
1983	90.14	17.968	51.121	1.2325	40.065	9.1483	7.6203	87.90	7.2569
1984	87.94	20.005	57.749	1.2953	39.633	10.3540	8.7355	112.73	7.8188
1985	70.03	20.676	59.336	1.3658	39.889	10.5980	8.9799	138.40	7.7911
1986	67.09	15.260	44.662	1.3896	37.837	8.0954	6.9256	139.93	7.8037
1987	70.14	12.649	37.357	1.3259	31.756	6.8477	6.0121	135.47	7.7985
1988	78.41	12.357	36.783	1.2306	28.636	6.7411	5.9594	142.00	7.8071
1989	79.19	13.236	39.409	1.1842	26.407	7.3210	6.3802	162.60	7.8008
1990	78.07	11.331	33.424	1.1668	26.918	6.1899	5.4467	158.59	7.7899
	India (rupee)	Ireland <sup>1</sup> (pound)	Italy (lira)	Japan (yen)	Malaysia (ringgit)	Nether- lands (guilder)	New Zealand <sup>1</sup> (dollar)	Norway (krone)	Portugal (escudo)
1970	7.576	239.59	623.00	357.60	3.0900	3.5970	111.48	7.1400	28.75
1975	8.409	222.16	653.09	296.78	2.4030	2.5293	121.16	5.2282	25.51
1979	8.156	204.65	831.10	219.02	2.1721	2.0072	102.23	5.0650	48.95
1980	7.887	205.77	858.20	226.63	2.1767	1.9875	97.34	4.9381	50.08
1981	8.681	161.32	1138.60	220.63	2.3048	2.4998	86.85	5.7430	61.74
1982	9.485	142.05	1354.00	249.06	2.3395	2.6719	75.10	6.4567	80.10
1983	10.104	124.81	1519.30	237.55	2.3204	2.8543	66.79	7.3012	111.61
1984	11.348	108.64	1756.10	237.45	2.3448	3.2083	57.84	8.1596	147.70
1985	12.332	106.62	1908.90	238.47	2.4806	3.3184	49.75	8.5933	172.07
1986	12.597	134.14	1491.16	168.35	2.5830	2.4484	52.46	7.3984	149.80
1987	12.943	148.79	1297.03	144.60	2.5185	2.0263	59.33	6.7408	141.20
1988	13.899	152.49	1302.39	128.17	2.6189	1.9778	65.56	6.5242	144.26
1989	16.213	141.80	1372.28	138.07	2.7079	2.1219	59.35	6.9131	157.53
1990	17.492	165.76	1198.27	145.00	2.7057	1.8215	59.62	6.2541	142.70
	Singapore (dollar)	South Africa (rand)	South Korea (won)	Spain (peseta)	Sweden (krona)	Switzer- land (franc)	Thai- land (baht)	United Kingdom <sup>1</sup> (pound)	West Germany (deutsche mark)
1970	3.0800	0.7181	310.57	69.72	5.1700	4.3160	21.000	239.59	3.6480
1975	2.3713	0.7408	484.00	57.43	4.1530	2.5839	20.379	222.16	2.4613
1979	2.1746	0.8424	484.00	67.16	4.2892	1.6643	20.419	212.24	1.8342
1980	2.1412	0.7796	607.43	71.76	4.2309	1.6772	20.476	232.43	1.8175
1981	2.1053	0.8787	681.03	92.40	5.0659	1.9674	21.731	202.43	2.2631
1982	2.1406	1.0876	731.93	110.09	6.2838	2.0327	23.014	174.80	2.4280
1983	2.1136	1.1148	776.04	143.50	7.6717	2.1006	22.991	151.59	2.5539
1984	2.1325	1.4761	807.91	160.78	8.2706	2.3500	23.582	133.66	2.8454
1985	2.2008	2.2344	861.89	169.98	8.6031	2.4551	27.193	129.74	2.9419
1986	2.1782	2.2919	884.61	140.04	7.1272	1.7979	26.314	146.77	2.1704
1987	2.1059	2.0385	825.93	123.54	6.3468	1.4918	25.774	163.98	1.7981
1988	2.0132	2.2770	734.51	116.52	6.1369	1.4642	25.312	178.13	1.7569
1989	1.9511	2.6214	674.29	118.44	6.4559	1.6369	25.725	163.82	1.8808
1990	1.8134	2.5885	710.64	101.96	5.9231	1.3901	25.609	178.41	1.6166

<sup>1</sup> Value is U.S. cents per unit of foreign currency. <sup>2</sup> Since unification of East and West Germany, the official German currency is the deutschmark.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

## No. 1483. Exchange Rates—Indexes of Value of Foreign Currency Relative to U.S. Dollar: 1970 to 1989

[1982 = 100]

YEAR	United States	Belgium	Canada	Den- mark	France	Italy	Japan	Nether- lands	Norway	Sweden	United King- dom	West Ger- many
1970	100.0	92.2	118.3	111.3	119.0	215.9	69.5	73.9	90.3	121.2	137.1	66.6
1975	100.0	124.8	121.3	145.5	153.7	207.5	83.9	105.9	123.8	151.7	127.1	98.9
1979	100.0	156.1	105.4	158.6	154.6	162.9	114.2	133.2	127.5	146.6	121.4	132.5
1980	100.0	156.8	105.6	148.2	155.9	158.3	110.4	134.6	130.8	148.6	133.1	133.8
1981	100.0	123.6	103.0	116.9	121.0	118.9	112.9	107.4	112.4	124.0	115.8	107.7
1982	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1983	100.0	89.5	100.2	91.2	86.3	89.1	104.8	93.6	88.4	81.9	86.7	95.1
1984	100.0	79.3	95.3	80.6	75.3	77.1	104.9	83.3	79.1	76.0	76.5	85.3
1985	100.0	77.2	90.4	78.7	73.3	70.9	104.4	80.5	75.1	73.0	74.2	82.5
1986	100.0	102.5	88.8	103.1	95.0	90.8	147.9	109.1	87.3	88.2	84.0	111.9
1987	100.0	122.5	93.1	121.9	109.4	104.4	172.2	131.9	95.8	99.0	93.8	135.0
1988	100.0	124.5	100.3	123.8	110.4	104.0	194.3	135.1	99.0	102.4	101.9	138.2
1989	100.0	116.2	104.2	114.0	103.1	98.7	180.4	125.9	93.4	97.3	93.7	129.1

Source: U.S. Bureau of Labor Statistics, News Release USDL: 90-383, "International Comparisons of Manufacturing Productivity and Labor Cost Trends", July 27, 1990.



### No. 1484. Central Bank Discount Rates, Money Market Rates, and Government Bond Yields—Selected Countries: 1980 to 1990

[In percent per annum. Central bank discount rates refer to the rate at which the monetary authority lends or discounts eligible paper for deposit money banks. Money market rates refer to the rate at which short-term borrowings are effected between financial institutions. Government bond yields refer to one or more series representing average yields to maturity of government bonds or other bonds that would be indicative of longer term rates]

NATIONAL INTEREST RATE AND YEAR	United States	Canada	Japan	France	Italy	Netherlands	Sweden	Switzerland	United Kingdom	West Germany
Central bank discount rates: <sup>1</sup>										
1980	13.00	17.26	7.25	9.50	16.50	8.00	10.00	3.00	14.00	7.50
1985	7.50	9.49	5.00	9.50	15.00	5.00	10.50	4.00	(2)	4.00
1986	5.50	8.49	3.00	9.50	12.00	4.50	7.50	4.00	(2)	3.50
1987	6.00	8.66	2.50	9.50	12.00	3.75	7.50	2.50	(2)	2.50
1988	6.50	11.17	2.50	9.50	12.50	4.50	8.50	3.50	(2)	3.50
1989	7.00	12.47	4.25	9.50	13.50	7.00	10.50	6.00	(2)	6.00
1990, June	7.00	13.90	5.25	9.50	12.50	7.00	11.00	6.00	(2)	6.00
Money market rates: <sup>3</sup>										
1980	13.36	13.28	10.93	11.85	17.17	10.13	12.17	2.29	15.62	9.10
1985	8.10	9.57	6.46	9.93	15.25	6.30	13.85	3.75	10.78	5.20
1986	6.81	9.30	4.79	7.74	13.41	5.83	10.15	3.17	10.68	4.60
1987	6.66	8.03	3.51	7.98	11.51	5.16	9.18	2.51	9.66	3.70
1988	7.61	9.40	3.62	7.52	11.29	4.48	10.08	2.22	10.31	4.00
1989	9.22	12.02	4.87	9.07	12.69	6.99	11.52	6.50	13.88	6.60
1990, June	8.29	(NA)	7.20	9.84	(NA)	7.96	12.27	8.70	(NA)	7.80
Government bond yields:										
1980	11.46	12.48	9.22	13.03	16.11	10.21	11.74	4.77	13.79	8.50
1985	10.62	11.04	6.34	10.94	13.00	7.34	13.09	4.78	10.62	6.87
1986	7.68	9.52	4.94	8.62	10.52	6.35	10.26	4.29	9.87	5.92
1987	8.38	9.95	4.21	9.43	9.68	6.38	(NA)	4.12	9.48	5.84
1988	8.85	10.22	4.27	9.06	10.16	6.29	(NA)	4.15	9.36	6.10
1989	8.50	9.92	5.05	8.79	10.72	7.21	(NA)	5.20	9.58	7.09
1990, June	8.48	10.72	7.06	9.76	11.69	8.97	(NA)	6.17	11.01	8.86

NA Not available. <sup>1</sup> End of period. <sup>2</sup> Minimum lending rate suspended as of August 20, 1981. <sup>3</sup> Period averages.  
Source: International Monetary Fund, Washington, DC, *International Financial Statistics*, monthly.

### No. 1485. External Debt of Soviet Union and Eastern European Countries: 1975 to 1989

[In billions of dollars. Gross debt: total amount owed. Commercial debt: money owed to private institutions or individuals. Official debt: money owed to or guaranteed by a foreign government. Net debt represents gross debt minus assets held with Western commercial banks]

TYPE AND SOURCE	1975	1980	1983	1984	1985	1986	1987	1988	1989
Gross debt, total	42.2	104.2	103.9	102.0	117.3	136.6	153.8	152.4	163.8
Soviet Union: Gross debt	12.5	20.5	22.0	22.3	29.0	38.0	40.8	42.4	47.8
Commercial debt	8.2	11.0	12.6	13.2	19.5	25.9	30.1	33.7	39.0
Official debt	4.3	9.5	9.4	9.1	9.5	10.1	10.7	8.7	8.8
Net debt	8.7	10.5	9.8	10.8	15.7	21.1	25.9	26.9	33.4
Bulgaria: Gross debt	2.6	3.5	2.4	2.2	3.7	4.9	6.1	7.5	10.0
Commercial debt	2.5	3.2	1.9	1.8	3.1	4.2	5.3	6.5	8.8
Official debt	0.2	0.3	0.5	0.5	0.6	0.7	0.8	1.0	1.2
Net debt	2.3	2.7	1.2	0.8	1.5	3.6	5.0	(NA)	(NA)
Czechoslovakia: Gross debt	1.1	4.9	4.0	3.6	3.8	4.5	5.8	6.1	7.8
Commercial debt	0.9	4.1	2.9	2.6	2.8	3.4	4.5	4.8	5.9
Official debt	0.2	0.9	1.1	1.0	1.0	1.1	1.3	1.3	1.9
Net debt	0.8	3.7	3.0	2.6	2.8	3.3	4.2	(NA)	(NA)
East Germany: Gross debt	5.4	14.1	13.1	12.4	14.0	17.0	20.4	19.5	21.2
Commercial debt	4.4	11.3	9.1	8.2	10.1	13.1	16.5	16.2	18.2
Official debt	1.0	2.8	3.9	4.2	3.9	3.9	3.9	3.3	3.0
Net debt	3.7	11.6	9.7	7.8	7.6	9.6	11.4	(NA)	(NA)
Hungary: Gross debt	3.1	9.1	8.2	8.8	11.8	15.1	17.7	18.0	20.7
Commercial debt	3.1	8.8	6.9	7.0	9.8	12.7	15.2	15.6	15.7
Official debt	-	0.3	0.7	0.8	0.8	0.9	1.0	1.0	3.2
BIS/IMF	-	-	0.6	1.1	1.2	1.5	1.6	1.4	1.8
Net debt	2.2	7.0	6.8	6.7	8.6	12.0	15.5	(NA)	(NA)
Poland: Gross debt	8.0	25.0	26.4	26.8	29.3	33.5	39.2	38.5	39.7
Commercial debt	5.9	14.9	10.9	9.4	10.6	12.1	12.8	11.9	13.4
Official debt	2.1	10.1	15.5	17.4	18.7	21.4	26.4	26.6	26.3
Net debt	7.4	24.4	25.2	25.3	27.7	31.8	36.2	(NA)	(NA)
Romania: Gross debt	2.9	9.4	8.8	7.1	6.6	6.4	5.1	2.2	0.4
Commercial debt	2.0	6.5	4.8	3.4	2.9	2.7	1.7	0.4	0.2
Official debt	0.7	1.7	0.9	1.1	1.1	1.1	0.8	0.6	0.2
IMF/World Bank/CEMA bank <sup>1</sup>	0.2	1.2	3.1	2.6	2.6	2.6	2.6	1.2	-
Net debt	2.4	9.1	8.2	6.4	6.4	5.8	4.5	(NA)	(NA)
Yugoslavia: Gross debt	6.6	17.4	19.0	18.8	19.2	19.4	18.7	18.2	16.2
Commercial debt	4.3	12.8	10.3	9.0	7.8	7.4	7.6	7.8	6.9
Official debt	1.6	2.6	4.6	5.8	7.1	7.7	6.6	5.4	5.5
IMF/World Bank	0.7	2.1	4.1	4.1	4.3	4.2	4.5	5.0	3.8
Net debt	5.8	16.2	18.1	17.7	18.1	17.9	18.0	(NA)	(NA)

- Represents zero. NA Not available. <sup>1</sup> BIS=Bank of International Settlements. IMF=International Monetary Fund. CEMA=Council for Economic Mutual Assistance.

Source: U.S. Central Intelligence Agency, *Handbook of Economic Statistics*, 1990; and unpublished data.

### No. 1486. Total External Public Debt, 1980 to 1987, and by Type of Creditor, 1987, and Debt Service Payments and Ratio, 1980 to 1987

[External public debt is defined as debt repayable to external creditors in foreign currency, goods, or services, with an original or extended maturity of more than one year, which is a direct obligation of, or has repayment guaranteed by, a public body in the borrowing country. Excludes undisbursed debt (amounts not yet drawn by recipient) and unguaranteed private debt, which for some countries is substantial. Debt contracted for the purchase of military equipment is not usually reported. Debt service payments represent the sum of interest payments and repayments of principal on external public debt]

COUNTRY	TOTAL EXTERNAL PUBLIC DEBT (mil. dol.)							DEBT SERVICE PAYMENTS (mil. dol.)			DEBT SERVICE RATIO <sup>3</sup> (percent)		
	1980	1985	1986	1987				1980	1985	1987	1980	1985	1987
				Total <sup>1</sup>	Bilateral official	Banks <sup>2</sup>	International or organizations						
Algeria	16,361	13,468	16,148	19,240	2,292	12,282	976	3,854	4,581	4,920	26.3	33.1	47.8
Argentina	10,181	35,708	38,774	47,451	3,190	39,664	3,934	1,987	4,259	3,894	16.6	40.6	45.3
Bangladesh	3,549	5,978	7,272	8,851	4,398	53	4,235	78	223	323	8.0	18.3	24.2
Bolivia	2,228	3,484	4,064	4,599	2,344	1,006	1,171	290	249	137	27.9	34.3	22.1
Brazil	40,434	73,672	84,349	91,653	12,889	63,741	12,312	8,050	7,839	7,656	34.6	26.7	26.7
Cameroon	2,049	2,007	2,378	2,785	1,155	409	1,075	186	244	336	10.2	8.7	15.9
Chile	4,705	12,904	14,604	15,536	739	11,263	3,218	1,375	1,230	1,367	21.9	26.3	21.1
China: Mainland	4,504	10,303	16,439	23,659	6,360	12,522	3,167	930	1,885	2,842	4.6	6.4	7.1
Colombia	4,089	9,570	12,185	13,828	2,489	4,882	5,773	529	1,412	2,372	9.0	30.6	33.4
Congo	1,427	2,397	3,001	3,679	1,198	1,913	397	91	399	195	8.8	32.5	18.6
Costa Rica	1,692	3,505	3,580	3,629	941	1,616	1,057	205	448	182	16.8	35.2	12.1
Dominican Republic	1,220	2,632	2,758	2,938	1,369	747	752	154	202	162	11.7	15.0	(NA)
Ecuador	3,300	7,161	8,193	9,026	1,363	5,468	1,797	559	896	494	18.9	27.0	20.7
Egypt	15,785	29,041	32,093	34,515	23,319	1,351	5,070	1,462	2,079	1,495	17.8	23.7	17.1
El Salvador	524	1,478	1,497	1,597	763	81	754	42	196	180	3.3	20.6	19.4
Ethiopia	701	1,753	2,038	2,434	1,151	94	876	34	107	180	5.6	19.4	(NA)
Ghana	1,128	1,296	1,690	2,207	703	187	1,232	101	106	173	8.3	15.6	(NA)
Greece	4,674	12,452	15,201	17,437	525	12,432	4,295	919	1,732	3,435	11.0	24.4	33.1
Guatemala	549	2,136	2,264	2,345	735	720	690	45	256	292	2.4	21.4	24.9
Guinea	1,032	1,311	1,447	1,616	1,051	18	467	95	66	111	(NA)	(NA)	(NA)
Honduras	997	2,163	2,399	2,681	812	420	1,369	98	163	229	10.1	17.5	23.0
Hungary	6,409	10,160	12,636	15,931	729	13,240	1,003	1,417	3,097	3,228	13.9	29.8	26.7
India	17,662	27,726	32,319	37,325	13,788	6,126	16,975	1,060	1,794	3,296	8.6	13.5	18.9
Indonesia	14,971	26,863	32,851	41,284	15,311	11,585	9,630	1,758	3,991	5,434	7.9	19.8	28.0
Israel	11,500	15,833	16,445	16,767	12,130	4,549	85	1,392	2,107	2,451	14.2	19.3	17.8
Ivory Coast	4,328	5,821	6,778	8,450	2,444	3,547	2,285	874	644	710	24.0	20.1	19.6
Jamaica	1,421	2,939	3,110	3,511	1,774	415	1,162	206	395	437	14.5	31.2	26.6
Jordan	1,276	2,769	3,238	3,518	1,643	1,010	737	133	351	518	7.5	16.1	21.7
Kenya	2,238	2,923	3,672	4,482	1,655	609	2,048	254	407	502	12.3	25.5	28.8
Madagascar	956	2,182	2,673	3,113	1,982	196	857	57	101	147	11.1	30.1	35.5
Malaysia	3,950	15,190	17,108	19,065	2,961	13,723	598	376	4,368	2,974	2.5	24.6	14.3
Mauritania	734	1,388	1,669	1,868	1,192	51	549	30	78	86	11.1	19.3	18.2
Mexico	33,987	72,711	75,991	82,771	5,560	66,569	10,380	7,901	10,633	8,972	32.1	35.7	30.1
Morocco	8,436	13,615	16,436	18,468	9,864	4,687	3,688	1,173	1,009	1,270	35.9	31.9	31.0
Nicaragua	1,661	4,484	5,228	6,150	3,981	1,300	835	82	47	34	16.0	13.2	(NA)
Nigeria	238	13,133	20,574	25,707	8,631	11,468	2,985	504	3,997	779	1.8	30.7	10.0
Oman	440	1,929	2,483	2,474	248	1,955	147	197	260	612	5.1	4.9	(NA)
Pakistan	8,785	10,774	11,886	13,150	8,258	474	4,236	594	1,066	1,173	19.7	31.3	25.9
Panama	2,271	3,340	3,572	3,722	383	2,226	1,071	466	410	383	6.0	6.5	6.5
Papua New Guinea	510	1,098	1,259	1,471	243	635	576	61	128	176	5.4	12.4	13.0
Paraguay	633	1,537	1,832	2,218	520	833	831	80	155	223	10.3	23.9	21.3
Peru	6,167	10,351	11,278	12,485	4,293	4,528	2,110	1,501	699	448	31.1	17.8	12.5
Philippines	6,527	13,567	20,409	22,321	5,353	11,308	5,084	583	1,233	2,142	7.3	15.6	23.2
Poland	(NA)	31,700	31,901	35,569	21,990	12,294	924	(NA)	1,893	1,922	(NA)	14.3	14.3
Portugal	6,702	12,884	13,661	14,922	831	11,285	1,951	1,041	2,939	4,832	15.2	37.0	37.8
Romania	7,131	5,805	5,653	5,425	1,217	2,112	2,039	1,156	1,756	1,631	9.5	13.5	(NA)
Senegal	958	1,977	2,456	3,068	1,759	257	1,050	179	86	274	21.6	10.6	21.4
Singapore	1,320	1,799	2,138	2,543	182	1,914	121	263	723	503	1.0	4.4	1.4
Somalia	715	1,868	2,075	2,288	1,530	153	591	9	5	9	4.4	4.0	(NA)
South Korea	15,833	28,304	29,355	24,541	5,785	10,748	5,881	2,783	5,052	12,299	12.3	15.3	21.9
Sri Lanka	1,348	2,912	3,496	4,109	2,295	569	1,094	84	231	339	6.3	14.0	19.3
Sudan	3,756	6,519	6,954	7,876	4,841	1,673	1,359	89	112	48	12.0	13.7	6.8
Syria	2,107	2,713	3,122	3,648	2,022	32	931	297	295	365	11.6	12.1	16.5
Tanzania	2,044	3,057	3,642	4,068	2,236	176	1,402	74	61	83	10.9	15.5	18.5
Thailand	4,070	9,937	11,613	14,023	4,150	4,700	4,482	432	1,496	1,947	5.0	14.6	13.6
Trinidad and Tobago	712	1,299	1,585	1,635	313	1,135	71	428	251	384	6.7	9.7	(NA)
Tunisia	3,224	4,487	5,222	6,189	2,867	1,550	1,552	1,044	3,524	4,576	28.4	31.0	31.7
Turkey	14,961	19,533	24,285	30,490	9,183	11,011	8,969	1,988	404	404	12.4	30.0	24.4
Uruguay	1,127	2,695	2,886	3,048	99	2,382	551	140	2,950	2,373	13.3	14.0	22.4
Venezuela	10,774	17,098	25,200	25,245	986	23,636	140	2,950	2,373	2,869	13.3	14.0	22.4
Yemen (Aden)	530	1,326	1,472	1,669	1,202	(NA)	467	27	110	71	15.1	65.7	38.3
Yemen (Sanaa)	903	1,869	2,052	2,155	1,520	76	558	21	74	145	6.1	37.1	50.8
Yugoslavia	4,580	9,349	11,961	14,446	3,284	7,605	3,557	616	1,354	2,118	4.5	9.6	13.3
Zaire	4,294	4,855	5,827	7,334	4,856	945	1,355	365	338	247	15.2	16.9	12.8
Zambia	2,187	3,203	3,762	4,354	2,483	357	1,261	289	95	129	17.8	10.9	13.5
Zimbabwe	695	1,557	1,750	2,044	674	806	521	44	307	383	2.5	23.6	23.2

NA Not available. <sup>1</sup> Includes other types of creditors, not shown separately. <sup>2</sup> Includes other private financial institutions. <sup>3</sup> Debt service payments as percent of exports. <sup>4</sup> The increase in debt outstanding from 1980 to 1985 includes the refinancing of short-term private debt by public debt, which matured in 1986-87. <sup>5</sup> Fiscal year basis. <sup>6</sup> The bulk of the debt of Yugoslavian enterprises is reported as nonguaranteed.

Source: The World Bank, Washington, DC, *World Debt Tables*, periodic.

### No. 1487. Net Flow of Financial Resources to Developing Countries, by Origin and Type of Resource: 1970 to 1989

[In billions of U.S. dollars. Net flow covers loans, grants, and grant-like flows minus amortization on loans. Military flows are excluded. Developing countries cover countries designated by Development Assistance Committee as developing. Official development assistance covers all flows to developing countries and multilateral institutions provided by official agencies, including State and local governments, or by their executive agencies, which are administered with the promotion of economic development and welfare of developing countries as their main objective and whose financial terms are intended to be concessional in character with grant element of at least 25 percent. Other official flows cover export credits and portfolio investment from the official sector.]

ORIGIN AND TYPE OF RESOURCE	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989, prel.
Development Assistance Committee countries <sup>1</sup>	15.9	75.4	84.2	69.8	79.1	45.2	68.8	66.4	85.6	(NA)
Official development assistance	6.9	27.3	27.7	27.6	28.7	29.4	36.7	41.6	48.1	48.8
Bilateral grants <sup>2</sup>	3.3	14.1	13.4	14.2	15.5	17.8	21.1	23.4	26.0	27.3
Bilateral loans	2.4	4.0	5.0	4.4	4.2	4.1	5.2	6.6	7.1	7.0
Multilateral contributions <sup>3</sup>	1.3	9.2	9.3	9.0	9.0	7.5	10.4	11.6	15.0	12.5
Other official flows	1.1	5.3	7.4	4.9	6.2	3.4	2.1	2.0	4.9	(NA)
Private flows at market terms	7.0	40.4	46.6	35.0	41.6	9.4	26.7	18.8	28.3	(NA)
Direct investment	3.7	10.1	10.4	7.8	10.9	6.5	11.0	21.0	25.1	(NA)
Private export credits	2.2	11.5	7.3	5.3	3.5	0.8	-1.7	-2.4	-1.3	(NA)
Portfolio investment	1.2	18.7	28.8	22.2	27.2	2.1	17.4	0.3	4.4	(NA)
Private voluntary agencies	0.9	2.4	2.3	2.3	2.6	2.9	3.3	4.0	4.2	(NA)
Organization of Petroleum Exporting Countries <sup>4</sup>	0.6	10.8	7.7	5.9	3.7	4.1	(NA)	(NA)	(NA)	(NA)
Official development assistance	0.4	9.7	5.8	5.0	4.6	3.6	4.7	3.3	2.4	2.4
Other official flows	0.2	1.1	1.9	0.9	-0.9	0.5	(NA)	(NA)	(NA)	(NA)
Centrally-planned economies <sup>5</sup>										
Official development assistance	1.0	2.6	3.1	3.5	3.4	3.6	4.6	5.0	5.0	4.7
Total net flow to developing countries, by DAC country <sup>1</sup>	15.9	75.4	84.2	69.8	79.1	45.2	68.8	66.4	85.6	(NA)
United States	6.4	13.9	30.2	23.0	28.6	1.8	18.2	13.8	17.5	16.4
Official development assistance	3.2	7.1	8.2	8.1	8.7	9.4	9.6	8.9	10.1	7.7
Bilateral grants <sup>2</sup>	1.4	3.0	3.8	4.5	5.6	7.3	7.0	6.7	6.5	6.8
Bilateral loans	1.3	1.4	1.1	1.0	0.8	0.9	0.6	0.3	0.3	-
Multilateral contributions <sup>3</sup>	0.5	2.8	3.3	2.5	2.3	1.2	2.0	1.9	3.4	0.9
Other official flows	0.1	1.1	1.6	(Z)	1.0	0.2	-0.6	-1.8	1.9	-0.5
Private flows at market terms	2.5	4.3	19.1	13.6	17.4	-9.3	7.5	4.4	3.2	7.3
Direct investment	1.9	3.4	5.5	2.3	4.4	0.9	3.1	8.0	4.2	7.8
Private export credits and portfolio investment	0.6	0.9	13.6	11.2	13.0	-10.2	4.4	-3.6	-1.0	-0.5
Private voluntary agencies	0.6	1.3	1.3	1.3	1.5	1.5	1.7	1.6	2.3	1.9
Australia	0.4	0.9	1.2	1.0	1.5	1.2	1.1	0.9	3.6	1.3
Austria	0.1	0.3	0.1	0.1	0.1	0.2	0.1	0.2	0.3	(NA)
Belgium	0.3	2.9	0.7	0.8	3.5	1.3	-0.8	-0.3	1.8	1.5
Canada	0.6	3.2	1.9	2.6	2.8	1.7	1.6	2.5	2.7	2.7
Denmark	0.1	0.8	0.8	1.1	0.6	0.4	0.5	0.9	0.7	(NA)
Finland	(Z)	0.2	0.2	0.2	0.3	0.3	0.4	0.6	0.8	(NA)
France	1.8	11.6	13.6	9.3	8.9	8.9	9.2	8.7	7.2	(NA)
Ireland	(NA)	(Z)	(Z)	(Z)	0.1	0.1	0.1	0.1	0.3	(NA)
Italy	0.7	4.0	5.0	3.1	2.3	2.2	2.6	2.0	5.1	5.8
Japan	1.8	6.8	8.9	7.9	11.7	11.6	14.6	20.3	21.2	(NA)
Netherlands	0.4	2.4	2.5	2.2	2.0	2.6	2.8	3.2	2.7	2.5
New Zealand	(Z)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	(NA)
Norway	0.1	0.9	0.8	0.7	0.6	0.6	0.7	0.9	0.9	0.9
Sweden	0.2	1.9	1.8	1.3	1.3	1.4	1.7	1.8	2.3	(NA)
Switzerland	0.1	2.7	3.2	3.3	3.4	2.5	1.4	-1.6	2.0	(NA)
United Kingdom	1.3	12.2	6.3	6.1	4.8	2.5	6.7	3.5	4.7	3.7
West Germany	1.5	10.6	7.0	7.0	6.5	5.8	7.9	8.8	11.8	(NA)

- Represents or rounds to zero. NA Not available. Z Less than \$50 million. <sup>1</sup> Includes flows to OPEC countries (see footnote 4). Comprises as donors Australia, Austria, Belgium, Canada, Denmark, Finland, France, Ireland, Italy, Japan, Netherlands, New Zealand, Norway, Sweden, Switzerland, United Kingdom, United States, and West Germany. <sup>2</sup> Includes "grant-like" flows (i.e., loans repayable in recipients' currencies). <sup>3</sup> Includes capital subscriptions to multilateral organizations in the form of demand instruments as of date of issue. <sup>4</sup> Algeria, Ecuador, Gabon, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela. <sup>5</sup> Bulgaria, Czechoslovakia, East Germany, Hungary, Poland, Romania, and Soviet Union.

Source: Organization for Economic Cooperation and Development, Paris, France, unpublished data.

### No. 1488. Per Capita Public and Private Aid to Developing Countries: 1980 to 1988

[In dollars. See headnote, table 1487. Private aid figures exclude government subsidies to voluntary agencies. Countries are ranked by per capita gross national product in 1988.]

COUNTRY	OFFICIAL DEVELOPMENT ASSISTANCE			PRIVATE VOLUNTARY AID			COUNTRY	OFFICIAL DEVELOPMENT ASSISTANCE			PRIVATE VOLUNTARY AID		
	1980	1985	1988	1980	1985	1988		1980	1985	1988	1980	1985	1988
Switzerland	40	46	92	10	8	13	France	77	72	123	1	1	2
Japan	29	31	74	(Z)	(Z)	1	Austria	24	33	40	3	2	3
Denmark	92	86	180	3	3	4	Netherlands	115	78	151	6	7	12
Norway	119	138	234	8	12	13	Belgium	60	45	63	5	2	1
Sweden	116	101	182	7	9	14	Australia	45	47	67	3	3	4
Finland	23	43	123	3	3	3	United Kingdom	33	27	46	2	3	4
West Germany	58	48	77	7	7	11	Italy	12	19	56	(Z)	(Z)	(Z)
United States	31	39	41	6	6	9	New Zealand	23	16	31	2	3	2
Canada	45	64	90	4	7	8	Ireland	9	11	16	-	6	6

- Represents or rounds to zero. Z Less than 50 cents.

Source: Organization for Economic Cooperation and Development, Paris, France, unpublished data.

## No. 1489. Military Expenditures in Current and Constant (1988) Dollars: 1980 to 1988

[In millions of dollars, except as indicated. See also table 548. For most countries, data for expenditures and for GNP were based on local currencies which were deflated to constant 1988 local currency values before conversion to U.S. dollar equivalents. In general, the rates used for conversion are the 1988 average par/market exchange rates as supplied by the International Bank for Reconstruction and Development]

COUNTRY	CURRENT DOLLARS				CONSTANT (1988) DOLLARS				Per capita (dollars)		Percent of GNP <sup>1</sup>	
	1980	1985	1987	1988	1980	1985	1987	1988	1980	1988	1980	1988
United States	144,000	265,800	296,200	307,700	203,700	290,500	306,000	307,700	894	1,250	5.3	6.3
Algeria	1,188	1,248	1,488	1,784	1,681	1,365	1,536	1,784	89	74	3.9	3.4
Argentina	2,712	2,789	2,400	2,972	3,837	3,049	2,447	2,972	136	94	3.6	3.1
Australia	3,006	5,195	5,729	6,170	4,253	5,678	5,918	6,170	291	379	2.3	2.7
Austria	895	2,147	1,441	1,426	1,266	2,158	1,488	1,426	168	168	1.1	1.2
Belgium	3,148	3,837	4,158	4,097	4,454	4,194	4,295	4,097	452	415	3.3	2.7
Brazil	1,559	2,402	3,356	1,209	2,206	2,626	3,467	1,209	18	8	0.7	0.3
Bulgaria	4,088	5,953	6,644	6,842	5,784	6,507	6,863	6,842	654	763	11.7	12.7
Canada	4,993	8,547	9,594	10,020	7,065	9,343	9,911	10,020	293	384	1.9	2.1
Chile	452	622	825	808	639	680	852	808	58	64	3.6	4.0
China:												
Mainland <sup>2</sup>	18,370	19,890	20,510	21,270	23,160	21,740	21,180	21,270	24	20	9.1	3.9
Taiwan	2,982	5,939	5,107	6,156	4,219	6,492	5,276	6,156	237	308	6.5	5.2
Cuba	1,140	1,603	1,306	1,326	1,613	1,752	1,349	1,326	167	128	6.5	3.8
Czechoslovakia <sup>2</sup>	5,687	8,625	9,551	9,818	8,046	9,428	9,866	9,818	527	629	6.5	7.1
Denmark	1,610	2,095	2,205	2,320	2,278	2,290	2,278	2,320	445	453	2.5	2.2
East Germany <sup>2</sup>	7,895	12,150	13,700	14,320	11,170	13,280	14,150	14,320	667	863	6.9	7.7
Egypt	3,402	7,911	8,038	6,086	4,813	8,647	8,303	6,086	114	114	9.5	7.8
El Salvador	117	269	244	212	166	294	252	212	35	39	2.7	3.8
Finland	891	1,326	1,566	2,701	1,260	1,450	1,618	2,701	264	344	1.6	1.7
France	22,700	31,620	34,930	35,950	32,120	34,570	36,090	35,950	596	644	4.0	3.9
Greece	1,894	3,250	3,053	3,378	2,679	3,552	3,163	3,378	278	337	5.5	6.5
Hungary	2,965	3,939	4,217	4,489	4,195	4,306	4,356	4,489	392	424	6.3	6.3
India	3,922	7,373	9,171	9,458	5,549	8,059	9,474	9,458	8	12	3.2	3.5
Indonesia	1,197	1,515	1,480	1,400	1,693	1,655	1,529	1,400	11	8	3.1	1.8
Iran	14,700	24,770	(NA)	(NA)	20,800	27,070	(NA)	(NA)	531	(NA)	8.6	(NA)
Iraq <sup>2</sup>	19,810	18,970	(NA)	(NA)	28,030	20,730	(NA)	(NA)	2,124	(NA)	22.5	(NA)
Israel	7,018	7,425	6,101	6,001	9,929	8,116	6,302	6,001	2,657	1,396	29.2	13.8
Italy	10,080	15,540	16,570	20,430	14,230	16,990	19,150	20,430	252	356	2.1	2.6
Japan	13,660	22,870	26,840	28,870	19,320	25,000	27,550	28,870	165	235	0.9	1.0
Kuwait	939	1,606	1,330	1,340	1,328	1,755	1,373	1,340	970	692	2.9	5.1
Malaysia	708	2,971	1,307	908	1,002	2,106	1,350	908	73	55	4.4	2.8
Mexico	448	1,032	969	1,016	634	1,128	898	1,016	9	12	0.4	0.6
Morocco	2,757	(NA)	2,156	1,138	2,107	(NA)	2,194	1,138	52	46	7.6	6.0
Netherlands	4,440	5,990	6,556	6,729	6,282	6,548	6,773	6,729	444	457	3.1	3.0
Nicaragua	249	217	(NA)	(NA)	269	212	(NA)	(NA)	25	(NA)	5.8	(NA)
Nigeria	505	333	202	223	715	363	208	223	8	2	2.4	0.8
North Korea	4,380	5,260	5,640	5,840	6,197	5,750	5,826	5,840	346	266	20.0	20.0
Norway	1,488	2,421	2,930	2,895	2,105	2,646	3,027	2,895	515	691	3.0	3.2
Oman	1,059	1,937	1,518	1,371	1,498	2,118	1,568	1,371	1,522	1,083	22.1	19.1
Pakistan	845	1,905	2,287	2,516	1,196	2,082	2,362	2,516	14	23	5.4	6.9
Peru	1,318	2,108	2,135	(NA)	1,865	2,304	2,205	(NA)	108	(NA)	5.0	(NA)
Philippines	505	408	653	680	715	446	675	680	14	11	1.9	1.7
Poland <sup>2</sup>	9,916	15,080	15,810	15,660	14,030	16,480	16,330	15,660	394	413	8.2	8.7
Portugal	867	1,061	1,196	1,347	1,226	1,160	1,236	1,347	125	130	3.6	3.3
Qatar	604	(NA)	(NA)	(NA)	855	(NA)	(NA)	(NA)	3,707	(NA)	9.3	(NA)
Romania	4,585	6,768	7,431	7,670	6,487	7,398	7,676	7,670	292	333	6.0	6.5
Saudi Arabia	14,990	21,340	21,620	13,560	21,210	23,320	21,670	13,560	2,090	878	14.3	16.5
Singapore	514	1,085	1,105	1,321	727	1,187	1,142	1,321	301	499	5.2	5.3
South Africa	2,594	2,644	2,353	3,607	3,669	2,890	2,346	3,607	126	103	5.2	4.3
South Korea	3,607	5,630	6,427	7,202	5,103	6,154	6,639	7,202	134	168	6.1	4.3
Soviet Union <sup>2</sup>	198,200	277,200	303,000	299,800	280,400	303,000	313,000	299,800	1,053	1,047	12.9	11.9
Spain	4,489	6,528	7,441	7,171	6,351	7,136	7,686	7,171	169	183	2.3	2.2
Sweden	3,324	4,473	4,697	4,975	4,703	4,889	4,852	4,975	566	593	3.1	2.8
Switzerland	2,746	2,885	2,768	2,888	3,885	2,247	2,892	2,888	609	590	2.4	2.1
Syria	1,601	2,959	2,172	2,164	2,265	2,235	2,152	2,164	261	139	17.2	10.9
Thailand	1,004	1,801	1,717	1,718	1,420	1,969	1,774	1,718	30	31	4.1	3.1
Turkey	1,540	2,404	2,807	2,664	2,179	2,628	2,900	2,664	48	49	4.8	3.9
United Arab Emirates	1,724	2,190	1,590	1,587	2,440	2,078	1,642	1,587	2,439	801	5.7	6.8
United Kingdom	22,960	33,890	34,780	34,680	32,490	37,050	35,930	34,680	577	609	5.0	4.3
Venezuela	441	491	2,153	2,848	624	537	2,146	2,848	42	45	1.1	1.4
West Germany	24,430	32,710	34,420	35,100	34,570	35,760	35,560	35,100	562	576	3.3	2.9
Yugoslavia	1,809	2,042	2,665	2,080	2,559	2,232	2,753	2,080	115	88	4.3	3.4

NA Not available. <sup>1</sup> Military expenditure as percent of gross national product. For additional information on comparisons between communist and noncommunist countries, see footnote 4, table 548. <sup>2</sup> Estimated. <sup>3</sup> Data probably omit a major share of total military expenditures, probably including most arms acquisitions.

Source: U.S. Arms Control and Disarmament Agency, *World Military Expenditures and Arms Transfers*, annual.

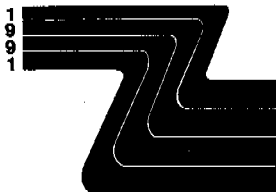
**No. 1490. Armed Forces Personnel—Number and Rate, by Country: 1980 to 1988**

[Personnel data as of July. Armed Forces refer to active-duty military personnel, including paramilitary forces where those forces resemble regular units in their organization, equipment, training, or mission. Reserve forces are not included]

COUNTRY	ARMED FORCES PERSONNEL (1,000)						ARMED FORCES PER 1,000 POPULATION					
	1980	1984	1985	1986	1987	1988	1980	1984	1985	1986	1987	1988
United States	2,050	2,222	2,244	2,269	2,279	2,246	9.0	9.4	9.4	9.4	9.3	9.1
Algeria	101	170	170	180	170	126	5.4	8.0	7.7	7.9	7.2	5.2
Argentina	155	174	129	104	118	95	5.5	5.8	4.3	3.4	3.8	3.0
Australia	71	71	70	71	70	71	4.9	4.6	4.5	4.5	4.4	4.3
Austria	40	40	40	39	70	55	5.3	5.3	5.3	5.2	9.2	7.2
Belgium	108	107	107	107	109	110	11.0	10.9	10.9	10.8	11.0	11.1
Brazil	450	459	496	527	541	319	3.7	3.4	3.5	3.7	3.7	2.1
Bulgaria	188	189	189	190	191	160	21.2	21.2	21.2	21.2	21.3	17.8
Canada	82	82	83	85	86	88	3.4	3.3	3.3	3.3	3.3	3.4
Chile	116	123	124	127	127	96	10.5	10.4	10.3	10.3	10.2	7.6
China: Mainland	4,650	4,100	4,100	4,030	3,530	3,783	4.7	4.0	3.9	3.8	3.3	3.5
Taiwan	465	470	440	390	365	390	26.1	24.7	22.8	20.0	18.5	19.5
Cuba	220	297	297	297	297	297	22.8	29.8	29.5	28.9	28.9	28.7
Czechoslovakia	190	206	210	214	215	211	12.5	13.3	13.5	13.8	13.8	13.5
Denmark	33	31	29	28	28	30	6.4	6.1	5.7	5.5	5.5	5.9
East Germany	228	240	242	242	241	242	13.6	14.4	14.5	14.6	14.5	14.6
Egypt	447	466	466	400	450	452	10.6	9.8	9.5	7.9	8.7	8.5
El Salvador	16	45	48	48	49	45	3.4	9.2	9.6	9.3	9.3	8.4
Finland	36	40	(NA)	37	37	36	7.5	8.2	(NA)	7.4	7.4	7.2
France	575	571	563	558	559	558	10.7	10.4	10.2	10.1	10.1	10.0
Greece	186	197	201	202	199	199	19.3	19.9	20.2	20.3	19.9	19.9
Honduras	14	20	21	22	22	19	3.7	4.6	4.7	4.6	4.5	3.8
Hungary	120	118	117	116	116	117	11.2	11.0	11.0	10.9	10.9	11.0
India	1,104	1,380	1,515	1,492	1,502	1,362	1.6	1.8	2.0	1.9	1.9	1.7
Indonesia	250	281	281	278	281	284	1.6	1.7	1.6	1.6	1.6	1.5
Iran	305	335	345	345	350	654	7.8	7.4	7.3	7.1	7.0	12.6
Iraq	430	788	788	800	900	1,000	32.6	51.7	49.9	48.8	53.0	56.9
Israel	196	205	195	180	180	191	52.4	51.2	47.8	43.4	42.6	44.4
Italy	500	508	531	529	531	446	8.9	8.9	9.3	9.2	9.3	7.8
Japan	242	241	241	245	244	245	2.1	2.0	2.0	2.0	2.0	2.0
Kuwait	12	15	16	18	20	15	8.8	9.2	9.3	10.1	10.7	7.7
Malaysia	83	105	106	106	106	108	6.0	7.0	6.9	6.7	6.6	6.6
Mexico	120	129	140	141	141	154	1.7	1.7	1.8	1.8	1.7	1.8
Morocco	117	149	165	185	200	195	5.7	6.6	7.1	7.8	8.2	7.8
Netherlands	107	103	103	106	106	107	7.6	7.1	7.1	7.3	7.2	7.3
Nicaragua	24	67	74	75	80	74	8.6	21.6	23.4	23.1	24.1	21.7
Nigeria	150	144	134	138	138	107	1.7	1.4	1.3	1.3	1.3	1.0
North Korea	700	784	784	838	838	842	39.1	39.9	38.5	40.1	39.1	38.3
Norway	40	39	36	38	38	40	9.7	9.4	8.7	9.1	9.1	9.5
Oman	15	25	25	26	27	27	15.2	22.4	21.7	21.9	22.0	21.0
Pakistan	467	646	644	573	572	484	5.5	6.7	6.5	5.6	5.5	4.5
Peru	151	135	128	127	127	111	8.7	7.0	6.5	6.3	6.1	5.2
Philippines	155	157	157	161	161	105	3.0	2.8	2.7	2.7	2.6	1.7
Poland	408	434	439	443	441	430	11.5	11.7	11.8	11.8	11.7	11.3
Portugal	88	100	102	101	105	104	9.0	9.9	10.0	9.9	10.2	10.0
Qatar	6	6	7	9	11	7	26.0	21.5	24.0	29.7	34.8	21.3
Romania	211	236	237	238	248	220	9.5	10.4	10.4	10.4	10.8	9.5
Saudi Arabia	79	80	80	80	80	84	7.8	6.3	6.0	5.7	5.4	5.4
Singapore	50	59	59	56	55	56	20.7	23.3	23.1	21.5	21.0	21.0
South Africa	70	97	95	90	102	100	2.4	3.0	2.9	2.7	3.0	2.8
South Korea	600	602	600	604	604	628	15.7	14.9	14.6	14.5	14.3	14.6
Soviet Union	3,900	3,900	3,900	3,900	3,900	3,900	14.6	14.1	14.0	13.9	13.7	13.6
Spain	356	342	314	314	314	304	9.5	8.9	8.1	8.1	8.1	7.7
Sweden	70	69	(NA)	66	66	65	8.4	8.3	(NA)	7.8	7.8	7.8
Switzerland	23	25	(NA)	21	20	23	3.6	3.8	(NA)	3.2	3.0	3.5
Syria	250	402	402	400	400	400	28.8	40.2	38.8	37.2	35.9	34.6
Thailand	234	250	270	275	275	273	5.0	4.9	5.2	5.2	5.1	5.0
Turkey	717	815	814	860	879	847	15.9	16.5	16.1	16.6	16.6	15.6
United Arab Emirates	44	44	44	44	44	43	44.0	30.6	28.0	25.7	23.8	21.7
United Kingdom	330	336	334	331	328	324	5.9	5.9	5.9	5.8	5.8	5.7
Venezuela	55	64	71	66	69	73	3.7	3.8	4.1	3.7	3.8	3.9
Vietnam	900	1,000	1,000	1,300	1,300	1,100	16.8	16.9	16.5	21.0	20.4	16.9
West Germany	490	487	495	495	495	495	8.0	8.0	8.1	8.1	8.1	8.1
Yugoslavia	260	259	258	234	234	229	11.6	11.3	11.2	10.0	10.0	9.7

NA Not available.

Source: U.S. Arms Control and Disarmament Agency, *World Military Expenditures and Arms Transfers*, annual.



## Appendix I

# Guide to— Sources of Statistics, State Statistical Abstracts, and Foreign Statistical Abstracts

Alphabetically arranged by subject, this guide contains references to the important primary sources of statistical information for the United States. Secondary sources have been included if the information contained in them is presented in a particularly convenient form or if primary sources are not readily available. Nonrecurrent publications presenting compilations or estimates for years later than 1980 or types of data not available in regular series are also included.

Much valuable information may also be found in State reports (see pp. 901-905) and foreign statistical abstracts (see pp. 906 and 907) and in reports for particular commodities, industries, or similar segments of our economic and social structures, many of which are not included here.

Publications listed under each subject are divided into two main groups: "U.S. Government" and "Other." The location of the publisher of each report is given except for Federal agencies located in Washington, DC. Most Federal publications may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, tel. 202-783-3238, or from Government Printing Office bookstores in certain major cities. In some cases, Federal publications may be obtained from the issuing agency.

Major reports, such as the Census of Population, which consist of many volumes, are listed by their general, all-inclusive titles.

## Bureau of the Census Publications

In most cases, separate reports of the most recent censuses are available for each State, subject, industry, etc. Complete information on publications of all the censuses and current surveys conducted by the Bureau of the Census appears in the *Bureau of the Census Catalog*, published annually and available from the Superintendent of Documents.

Abortions—see Vital Statistics.

**Accidents** —see also Health; Insurance; and Vital Statistics

### *U.S. Government*

Bureau of Labor Statistics  
Handbook of Labor Statistics. 1989.  
Occupational Injuries and Illnesses in the  
United States by Industry. Annual.

Department of Transportation  
Transportation Safety Information Report.  
Quarterly.

Federal Railroad Administration  
Accident/Incident Bulletin. Summary, statistics, and analysis of accidents on railroads in the United States. Annual.  
Rail-Highway Crossing Accident/Incident and Inventory Bulletin. Annual.

Mine Safety and Health Administration  
Informational Reports by Mining Industry:  
Coal; Metallic Minerals; Nonmetallic Minerals (except stone and coal); Stone, Sand, and Gravel. Annual.  
Mine Injuries and Worktime. (Some preliminary data.) Quarterly.

National Center for Health Statistics  
Vital Statistics of the United States. Annual.  
Volume I, Natality  
Volume II, Mortality  
Volume III, Marriage and Divorce

**Accidents** —Con.

### *U.S. Government* —Con.

National Transportation Safety Board  
Accidents; Air Carriers. Annual.  
Accidents; General Aviation. Annual.

### *Other*

Metropolitan Life Insurance Company, New York, NY

Health and Safety Education.  
Statistical Bulletin. Quarterly.

National Fire Protection Association, Quincy, MA

Fire Journal. Bimonthly.

National Safety Council, Chicago, IL

Accident Facts. Annual.

**Agriculture** —see also Food; Foreign Commerce; Labor; Money and Banking; and Population

### *U.S. Government*

Bureau of the Census

Census of Agriculture. Quinquennial. (1987, most recent.)

U.S. Commodity Exports and Imports as Related to Output. Annual. (Series ES2.)

Bureau of the Census and Bureau of Mines  
Raw Materials in the United States Economy; 1900-1977. (Issued 1980. Working Paper No. 47.)

**Agriculture —Con.***U.S. Government —Con.*

## Bureau of Reclamation

## Summary Statistics:

Vol. I, Water, Land, and Related Data.

## Commodity Futures Trading Commission

## Annual Report.

Commitments of Traders in Commodity Futures. Monthly.

## Department of Agriculture

Agricultural Chartbook. Annual.

Agricultural Income and Finance. Situation and Outlook Report. Quarterly.

Agricultural Outlook. 11 issues per year.

Agricultural Price Reports. Reports on prices received for farm commodities, prices paid for farm supplies, indexes and parity ratios. Monthly and annual.

The Agricultural Work Force of 1987: A Statistical Profile. (Agricultural Economic Report No. 609.) May 1989.

Crop Production Reports. Acreage, yield, and production of various commodities. Monthly and annual.

Crop Values Report. Price and value of various commodities. Annual.

Economic Indicators of the Farm Sector. A series of 5 annual issues.

Farmlife. 11 issues per year.

Fertilizer Use and Price Statistics, 1960–88. (Statistical Bulletin No. 780.) Periodic.

Financial Characteristics of U.S. Farms, January 1, 1989. (Agriculture Information Bulletin. No. 569.) Annual.

Food Consumption, Prices, and Expenditures, 1967–88. (Statistical Bulletin No. 804.) Revised annually.

Food Marketing Review, 1988. (Agricultural Economic Report No. 614.) Revised annually.

Food Spending in American Households. (Statistical Bulletin No. 791.) Annual.

Foreign Agricultural Trade of the United States (FATUS). 6 issues with annual supplements on calendar year and fiscal year trade data.

Fruit and Vegetable Reports. Acreage, yield, production, value, and utilization of various fruits and vegetables. Periodic.

Journal of Agricultural Economics Research. Quarterly.

Livestock and Meat Statistics, 1984–88. (Statistical Bulletin No. 784.) Annual.

Milk and Dairy Products Reports. Milk cows, milk production, and dairy products. Monthly and annual.

Other Reports. Reports on varied items including cold storage, farm employment and wages, farm production expenditures, mink, mushrooms, and floriculture crops. Monthly and annual.

**Agriculture —Con.***U.S. Government —Con.*

## Department of Agriculture—Con.

Poultry and Egg Reports. Reports covering eggs, chickens, turkeys, hatcheries, egg products, and poultry slaughter. Weekly, monthly, annual.

Rural Development Perspectives. 3 issues per year.

Situation and Outlook Reports. Issued for agricultural exports, cotton and wool, dairy, feed, fruit and tree nuts, agricultural resources, livestock and poultry, oil crops, rice, aquaculture, sugar and sweeteners, tobacco, vegetables, wheat, and world agriculture. Monthly, quarterly, annual.

Stock Reports. Stocks of grain, hops, peanuts, potatoes, rice, and soybeans. Quarterly, annual, periodic.

U.S. Egg and Poultry Statistical Series, 1960–87. (Statistical Bulletin No. 775.) Periodic.

U.S. Rice Distribution Patterns, 1986/87. (Statistical Bulletin No. 776.) Periodic.

Weekly Weather and Crop Bulletin. Report summarizing weather and its effect on crops the previous week.

## Farm Credit Administration

## Annual Report.

Loans and Discounts of Farm Credit Banks and Associations. Annual.

## National Oceanic and Atmospheric Administration

Weekly Weather and Crop Bulletin. National summary.

## Soil Conservation Service

National Resources Inventory, 1982. Periodic.

Report of Administrator of Soil Conservation Service. Annual.

Air Force —see National Defense.

Air Pollution —see Environment.

Aliens —see Immigration.

American Samoa —see Outlying Areas.

Area —see Geography.

Army— see National Defense.

Aviation— see Transportation.

Banks and Banking— see Money.

Births— see Vital Statistics.

Broadcasting— see Communications.

Building Permits— see Construction.

**Business** —see also Economic Indexes; Investments; Manufactures; Retail and Wholesale Trade; Science Resources; and Service Establishments*U.S. Government*

## Administrative Office of the United States Courts

Annual Report of the Director.

## Board of Governors of the Federal Reserve System

Federal Reserve Bulletin. Monthly.

**Business —Con.***U.S. Government —Con.*

- Bureau of the Census
  - Census of Retail Trade. Quinquennial. (1987, most recent.)
  - Census of Service Industries. Quinquennial. (1987, most recent.)
  - Census of Wholesale Trade. Quinquennial. (1987, most recent.)
  - Census of Transportation. Quinquennial. (1987, most recent.)
  - County Business Patterns. Annual.
  - Characteristics of Business Owners. 1982.
  - Current Business Reports. Retail Trade, Sales, and Inventories, BR; and Wholesale Trade, Sales, and Inventories, BW.
  - Minority-Owned Businesses. Quinquennial. (1982, most recent.)
  - Quarterly Financial Report for Manufacturing, Mining, and Trade Corporations.
- Bureau of Economic Analysis
  - Business Statistics, 1961-88. 1989.
  - The Detailed Input-Output Structure of the U.S. Economy, 1977. 1984.
  - Fixed Reproducible Tangible Wealth in the United States, 1925-85. 1987.
  - The National Income and Product Accounts of the United States, 1929-1982: Statistical Tables. 1986.
  - Selected Data on U.S. Direct Investment Abroad, 1950-89. 1990.
  - Summary Input-Output Tables of the U.S. Economy: 1980-85. 1990.
  - Survey of Current Business. Monthly.
- Council of Economic Advisers
  - Economic Indicators. Monthly.
  - Economic Report of the President. Annual.
- Federal Trade Commission
  - Mergers & Acquisitions, 1972-1974. 1978.
- Internal Revenue Service
  - Statistics of Income.
    - Corporation Income Tax Returns. Annual.
    - Statistics of Income Bulletin. Quarterly.
- International Trade Administration
  - U.S. Industrial Outlook. Annual.
- Patent and Trademark Office
  - Commissioner of Patents and Trademarks Annual Report.
  - Patenting Trends in the United States, State Country Report, 1963-1988.
  - Technology Assessment and Forecast Report - "All Technologies". Annual.
- Securities and Exchange Commission
  - Annual Report.
  - Statistical Review. Monthly. (Discontinued February 1989.)
- Small Business Administration
  - Annual Report.

*Other*

- The Conference Board, New York, NY
- Economic Road Maps. Monthly.

**Business —Con.***Other —Con.*

- The Dun & Bradstreet Corporation, New York, NY
  - The Business Failure Record. Annual.
  - Monthly Business Starts Report.
  - Monthly Business Failure Report.
  - Monthly New Business Incorporations Report.
  - Quarterly Survey of Business Expectations.
- Fortune (Time Warner), New York, NY
  - The Fortune Directory of the 500 Largest Industrial Corporations. (Annual supplement to Fortune.)
  - The Fortune Directory of the 500 Largest Non-Industrial Corporations. (Annual supplement to Fortune.)
- National Bureau of Economic Research, Cambridge, MA
  - Financial Aspects of the United States Pension System, Zvi Bodie and John B. Shoven, editors. 1983. (University of Chicago Press, Chicago, IL.)
  - The U.S. National Income and Product Accounts: Selected Topics, Murray F. Foss, editor. 1982. (Studies in Income and Welfare, No. 47.) (University of Chicago Press, Chicago, IL.)
- Child Welfare —see Education; and Social Insurance.
- City Government —see State and Local Government.
- Civil Service —see Federal Government; and State and Local Government.
- Climate —see also Agriculture
- U.S. Government*
  - National Oceanic and Atmospheric Administration
    - Climatology of the United States, No. 20, Supplement No. 1, Freeze/Frost Data.
    - Climatology of the United States, No. 81: Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1951-80. 1982. Issued by State.
    - Climatological Data. Issued in sections for States and outlying areas. Monthly with annual summary.
    - Comparative Climatic Data Through 1987. General Summary of Tornadoes. Annual.
    - Hourly Precipitation Data. Monthly with annual summary; for each State.
    - Local Climatological Data. Monthly with annual summary; for major cities.
    - Storm Data. Monthly.
    - Weekly Weather and Crop Bulletin. National summary.
- Commerce —see Foreign Commerce; Retail and Wholesale Trade; and Transportation.
- Commodity Prices —see also Economic Indexes



**Commodity Prices —Con.***U.S. Government*

Board of Governors of the Federal Reserve System

Federal Reserve Bulletin. Monthly.

Bureau of Labor Statistics

Consumer Prices: Energy and Food. Monthly.

CPI Detailed Report. Monthly.

Handbook of Labor Statistics. 1989.

Monthly Labor Review.

Producer Price Indexes. Monthly, with annual supplement.

Relative Importance of Components in the Consumer Price Indexes. Annual.

U.S. Import and Export Price Indexes. Monthly.

Department of Agriculture

Agricultural Price Reports. Monthly and annual.

*Other*

Commodity Research Bureau, a Knight-Ridder Business Information Service, New York, NY  
Commodity Year Book Statistical Abstract Service. (3 editions annually.)

CRB Commodity Index Report. Weekly.

CRB Commodity Year Book. Annual.

CRB Futures Chart Service. Weekly.

Electronic Futures Trend Analyzer. Daily.

Futures Market Service. Weekly.

Wall Street Journal. (Dow Jones & Co., New York, NY.) Daily except Saturdays, Sundays, and holidays.

**Communications —see also Newspapers***U.S. Government*

Federal Communications Commission

Annual Report.

Statistics of Communications Common Carriers. Annual.

Rural Electrification Administration

Annual Statistical Report—Rural Telephone Borrowers.

U.S. Postal Service

Annual Report of the Postmaster General.

Cost and Revenue Analysis. Annual.

*Other*

John Blair & Company, New York, NY

Statistical Trends in Broadcasting. Annual.

Book Industry Study Group, Inc., New York, NY

Book Industry Trends. Annual.

Broadcasting Publications, Inc., Washington, DC

Broadcasting Magazine. Weekly.

The Broadcasting Yearbook.

Corporation for Public Broadcasting, Washington, DC

Average Revenue Profiles for Public Broadcasting Stations.

Public Broadcasting Income. Annual.

**Communications —Con.***Other —Con.*

Corporation for Public Broadcasting, Washington, DC—Con.

Public Broadcasting Stations' Income from State Governments and State Colleges & Universities Ranked State-By-State.

Public Broadcasting: Statistical Brief. Annual.

Public Radio and Television Programming Content by Category. Biennial.

Editor & Publisher Co., New York, NY

International Year Book. Annual.

Market Guide. Annual.

Electronic Industries Association, Washington, DC

Electronic Market Data Book. Annual.

Electronic Market Trends. Monthly.

Electronics Foreign Trade. Monthly.

Electronics Foreign Trade Five-Year Summary. Annual.

Radio Advertising Bureau, New York, NY

Radio Facts. Annual.

United States Telephone Association, Washington, DC

Statistics of the Independent Telephone Industry. Annual.

Warren Publishing, Inc., Washington, DC

Cable Action Update. Weekly.

Cable and Station Coverage Atlas. Annual.

Television Action Update. Weekly.

Television and Cable Factbook. Annual.

TV Station & Cable Ownership Directory. Semi-annual.

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Board of Governors of the Federal Reserve System

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Bureau of Census

Census of Construction Industries. Quinquennial. (1987, most recent.)

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## **Bureau of Economic Analysis**

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Occupational Employment in Mining, Construction, Finance, and Services. 1989. (Bulletin No. 2330.)

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## **Department of Housing and Urban Development**

Survey of Mortgage Lending Activity. Monthly and quarterly press releases.

## **Department of Veterans Affairs**

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Trend Data 1964-1988.

## **Energy Information Administration**

Residential Energy Consumption Survey: Housing Characteristics. Triennial.

## **International Trade Administration**

Construction Review. Bimonthly.

## **Office of Thrift Supervision**

Annual Report.

Savings and Home Financing Source Book. Annual.

## **Other**

Dodge, F.W., National Information Services Division, McGraw-Hill Information Systems Co., New York, NY

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# **Consumer Income and Expenditures, and Personal Income —see also Agriculture; Economic Indexes; Investments; and National Income**

## **U.S. Government**

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# **Consumer Income and Expenditures, and Personal Income —Con.**

## **U.S. Government —Con.**

## **Bureau of the Census**

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Current Population Reports. (Series on Consumer Income, P-60.)

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## **Bureau of Economic Analysis**

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## **Internal Revenue Service**

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## **National Science Foundation**

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Science and Technology Data Book. Report. Annual.

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Favorable Employment Opportunities Continue for Recent S/E Graduates. (NSF 90-315.)

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Pace of Retirements of Ph.D. Scientists and Engineers Show Gradual Increase. (NSF 89-305.)

Scientists and Engineers Now Account for Over 4 Percent of Total U.S. Employment. (NSF 87-313.)

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*Other*

American Financial Services Association, Washington, DC

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Correctional Institutions —see Law Enforcement.

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Courts —see Law Enforcement.

Crime —see Law Enforcement.

Crops —see Agriculture.

Deaths —see Vital Statistics.

Defense —see National Defense.

Divorce —see Vital Statistics.

Domestic Trade —see Retail and Wholesale Trade; and Service Establishments.

**Economic Indexes** —see also Agriculture; Business; Commodity Prices; Manufactures; and Science Resources

**Economic Indexes —Con.***U.S. Government*

Board of Governors of the Federal Reserve System

Federal Reserve Banks. Monthly review published by each Bank with special reference to its own Federal Reserve District.

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## Bureau of Economic Analysis

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## Council of Economic Advisers

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The Conference Board, New York, NY

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The National Balance Sheet of the United States, 1953-80, by Raymond W. Goldsmith. 1982. (University of Chicago Press, Chicago, IL.)

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## Bureau of the Census

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Current Population Reports. (Series on Population Characteristics, P-20; and Special Studies, P-23.)

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Occupational Projections and Training Data. Biennial.

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Detailed Statistical Tables. Annual.

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Characteristics of Doctoral Scientists and Engineers in the United States. Detailed Statistical Tables. Biennial.

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Favorable Employment Opportunities Continue for Recent S/E Graduates. (NSF 90-315.)

Foreign Students Account for Most Growth in Graduate Science and Engineering Enrollment. (NSF 88-316.)

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Recent-Doctorate Faculty Increase in Engineering and Some Science Fields. (NSF 87-310.)

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Racial, Ethnic and Sex Enrollment Data, From Institutions of Higher Education. Fall 1982. Biennial.

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State and National Summaries of Data from the Fall 1982 Civil Rights Survey of Elementary and Secondary Schools. Biennial.

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## Congress. Clerk of the House

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## Congress. Joint Committee on Printing

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The Book of the States and its Supplement I, State Elective Officials and the Legislatures. Biennial.

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## Elections Research Center, Washington, DC

America Votes. A handbook of contemporary American election statistics, compiled and edited by Richard M. Scammon and Alice V. McGillivray. Biennial.

## Joint Center for Political Studies, Washington, DC

Black Elected Officials: A National Roster. Annual.

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Emigration —see Immigration.

Employment —see Federal Government; Labor; and State and Local Government.

Energy —see also communications; Manufactures; Minerals; and Transportation

*U.S. Government*

## Bureau of the Census

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## Bureau of the Census—Con.

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## Bureau of Labor Statistics

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## Energy Information Administration

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Monthly Energy Review.

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Residential Energy Consumption Survey: Consumption and Expenditures. Triennial.

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Solar Collector Manufacturing Activity. Annual.

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## Bureau of the Census

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## Council on Environmental Quality

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Estimated Use of Water in the United States in 1985, 1987. (Geological Survey Circular 1004.)

A Statistical Summary of Data from the U.S. Geological Survey's National Water Quality Networks. (Open-File Report 83-533.)

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The Conservation Foundation, Washington, DC

The Coastal Almanac, by Paul L. Ringold and John Clark. 1980.

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Exports —see Foreign Commerce.

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—see also Elections; Science Resources; and State and Local Government

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Board of Governors of the Federal Reserve System

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Bureau of the Census

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Internal Revenue Service

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### U.S. Government—Con.

#### National Science Foundation—Con.

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#### Office of Personnel Management

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Employment by Geographic Area. Biennial. (Even Years.)

Employment and Trends. Bimonthly. (Odd Months.)

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A Catalog of Federal Grant-in-Aid Programs to State and Local Governments, FY 89. 1989. Every 3 years.

Changing Public Attitudes on Governments and Taxes. Annual.

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#### Department of Agriculture

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Fishery Statistics of the United States. (Statistical Digest.) Annual.

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#### U.S. Government

#### Bureau of the Census

Canned Food Report. (Issued five times a year.) (Last report, July 1981.)

#### Bureau of Labor Statistics

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Producer Price Indexes. Monthly, with annual supplement.

#### Department of Agriculture

Agricultural Outlook. 11 issues per year.

Food Cost Review. 1988. (Agricultural Economic Report No. 615.) Revised annually.

National Food Review. Quarterly.

#### Department of Agriculture, Food and Nutrition Service

Annual Historical Review:

Food and Nutrition Service Programs.

Food Program Update. Monthly.

#### Department of Agriculture, Science and Education Administration.

Family Economics Review. Quarterly.

### Other

American Frozen Food Institute, Burlingame, CA

Frozen Food Pack Statistics. Annual.

National Food Processors Association, Washington, DC

Canned Fruit and Vegetable Pack and Stock Situation Reports. Quarterly.

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Army, Corps of Engineers



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Waterborne Commerce of the United States  
(in five parts). Annual.

**Bureau of the Census**

Highlights of U.S. Export and Import Trade.  
Monthly; includes cumulative data. (FT 990.)

Summary of U.S. Export and Import Merchandise Trade. Monthly; includes cumulative data. (FT 900.)

Survey of the Origin of Exports of Manufacturing Establishments. Triennial. (Current Industrial Reports M76(AS)-8.)

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U.S. Commodity Exports and Imports as Related to Output. Annual. (Series ES 2.)

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U.S. Exports, Schedule E Commodity Groupings by World Area and Country. Annual. (FT 450.)

U.S. Exports, World Area and Country by Schedule E Commodity Groupings. Annual. (FT 455.)

U.S. General Imports and Imports for Consumption, Schedule A Commodity by Country. Monthly; includes cumulative data. (FT 135.)

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U.S. Waterborne Exports and General Imports. Monthly and Annual. (FT 985.)

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Business Statistics, 1961-88. 1989.

Survey of Current Business. Monthly. (June issue contains detailed data on merchandise trade.)

U.S. Merchandise Trade: Exports and Imports by End-Use Category. Annually.

**Department of Agriculture**

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**Department of Commerce**

Commerce America. Biweekly. (Issues in March, June, September, and December contain quarterly data on U.S. share of world exports of manufactures.)

Export Administration Report, East-West Trade: Quarterly Report to the President, Senate, and House of Representatives.

**Department of the Treasury**

Statistical Appendix to Annual Report of the Secretary of the Treasury on the State of the Finances through 1980.

**Energy Information Administration**

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U.S. Trade Performance and Outlook. Annual.

**Maritime Administration**

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Imports of Aerospace Products. Quarterly.

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- Survey of Current Business. Monthly.

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- Current Wage Developments. Monthly.
- Employment and Earnings. Monthly, with annual supplement.
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- Mass Layoffs. Annual.
- Monthly Labor Review.
- Occupational Employment in Manufacturing Industries. 1988. (Bulletin No. 2312.)
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- U.S. Industrial Outlook. Annual.

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  - Aerospace Facts and Figures. Annual.
  - Aerospace Industry Year-End Review and Forecast. Annual.
  - Commercial Helicopter Shipments. Quarterly.
  - DOD Prime Contract Awards by Region and State. Annual.
  - DOD Prime Contract Awards by Service Category and Federal Supply Classification. Annual.
  - DOD Prime Contract Awards—Top 100 Contractors. Annual.
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- American Frozen Food Institute, Burlingame, CA
  - Frozen Food Pack Statistics. Annual.
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  - Annual Statistical Report.
  - Commodity Research Bureau, New York, NY
  - Commodity Yearbook. Annual.
- The Conference Board, New York, NY
  - Quarterly Survey of Capital Appropriations.
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- Dataquest Inc., San Jose, CA
  - Consolidated Data Base.
- Dealerscope Merchandising, Philadelphia, PA
  - Merchandising. Annual.
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  - Electronic Market Data Book. Annual.
  - Electronic Market Trends. Monthly.
  - Electronics Foreign Trade. Monthly.
  - Electronics Foreign Trade Five-Year Summary. Annual.

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- Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI
- Motor Vehicle Facts and Figures. Annual.
- National Association of Hosiery Manufacturers, Charlotte, NC
- Hosiery Statistics. Annual.
- National Food Processors Association, Washington, DC
- Canned Fruit and Vegetable Pack and Stock Situation Reports. Quarterly.

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## Bureau of the Census

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- Census of Mineral Industries. Quinquennial. (1987, Industry series MIC87-I; Geographic Area Series MIC87-A.)

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- Apparent Consumption of Industrial Explosives and Blasting Agents in the United States. Annual.
- Mineral Commodity Summaries. Annual.
- Mineral Industry Surveys. (Monthly, quarterly, or annual report.)
- Minerals Today. (Bimonthly survey.)
- Minerals Yearbook. Annual.

## Department of the Treasury

- Treasury Bulletin. Monthly through 1982; beginning 1983, quarterly.

## Energy Information Administration

- Annual Energy Review.
- Coal Production. Annual.
- Domestic Uranium Mining and Milling Industry. Annual.
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- U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves. Annual.

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- Non-Ferrous Metal Data.

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- American Gas Association, Arlington, VA
- Gas Facts. Annual.
- Year Book.

- American Metal Market, New York, NY
- Daily Newspapers.
- Metal Statistics. Annual.

- American Petroleum Institute, Washington, DC
- Quarterly Review of Drilling Statistics for the United States.

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- Joint Association Survey on Drilling Costs. Annual.

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- PennWell Publishing Co., Tulsa, OK

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- Comparative Oil Company Statistics, 1988-1987. Annual.

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- Annual Statistical Digest.
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## Office of Thrift Supervision

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*Other*

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Credit Union Services Profile. Annual.

The Credit Union Report. Annual.

National Member Survey. 1989.

Operating Ratios and Spreads. Semiannual.

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The National Balance Sheet of the United States, 1953-80, by Raymond W. Goldsmith. 1982. (University of Chicago Press, Chicago, IL)

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Data on Vietnam Era Veterans, 1984.

## National Guard Bureau

Annual Review of the Chief.

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## Office of Management and Budget

The Budget of the United States Government. Annual.

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Semiannual Report of the Director of Selective Service

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World Military Expenditures and Arms Transfers. Annual.

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The U.S. National Income and Product Accounts: Selected Topics, Murray F. Foss, editor. 1982. (Studies in Income and Wealth, No. 47.) (University of Chicago Press, Chicago, IL)

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Navy —see National Defense.

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International Year Book.  
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Gale Research Inc., Fort Lauderdale, FL  
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Occupation —see Labor; Population; and Social Insurance.

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Bureau of the Census  
Census of Agriculture. Quinquennial. (1987, most recent.)  
Census of Housing. Decennial. (1980, most recent.)  
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Current Population Reports. (Series on Population Estimates, P-25.)  
Economic Censuses of Outlying Areas.  
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Guam. (OA87-E-6.)  
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*National Center for Education Statistics*

Digest of Education Statistics. Annual.  
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Vital Statistics of the United States. Annual.  
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*Other*

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Balance of Payments—Puerto Rico. Annual.  
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Socioeconomic Statistics. Annual.

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**Population and Population Characteristics —see also Labor and Vital Statistics***U.S. Government*

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Current Population Reports. (Series on Population Characteristics, P-20; Special Studies, P-23; Population Estimates and Projections, P-25; Local Population Estimates, P-26; Special Censuses, P-28; Consumer Income, P-60; and Household Economic Studies, P-70.)  
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Bureau of Labor Statistics  
Employment and Earnings. Monthly, with annual supplement.  
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1987 Survey of Veterans.

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Veteran Population Data. Semiannual.

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Power —*see* Energy.

Prices —*see* Commodity Prices; *and* Economic Indexes.

Prisons and Prisoners —*see* Law Enforcement.

Public Assistance —*see* Social Insurance.

**Public Lands and Park Systems —*see also* Federal Government; *and* Recreation**

*U.S. Government*

**Bureau of Land Management**

Public Land Statistics. Annual.

**General Services Administration**

Inventory Report on Real Property Leased to the United States Throughout the World. Annual.

Inventory Report on Real Property Owned by the United States Throughout the World. Annual.

**National Park Service**

Federal Recreation Fee Report. Annual.

National Park Statistical Abstract. Annual.

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National Association of State Park Directors, Texas Parks and Wildlife Department, Austin, TX

Annual Information Exchange.

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Puerto Rico —*see* Outlying Areas.

Radio —*see* Communications.

Railways —*see* Transportation.

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Statistics on Outdoor Recreation. 1984.

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American Jewish Year Book.

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Churches and Church Membership in the United States 1980, by B. Quinn, H. Anderson, M. Bradley, P. Goetting, and P. Shriver. 1982.

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Yearbook of American and Canadian Churches. Annual.

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Consolidated Federal Funds Report. Annual.

Federal Expenditures by State

Volume I County Areas

Volume II Subcounty Areas

Current Population Reports (series P-60, Consumer Income.)

Finances of Employee-Retirement Systems of State and Local Governments. Annual. (GF No. 2.)

**Social Insurance and Human Services —Con.***U.S. Government —Con.***Bureau of the Census—Con.**

- Finances of Selected Public Employee Retirement Systems. Quarterly. (GR Nos. 1-4.)
- Social Indicators, 1980.

**Bureau of Labor Statistics**

- Employee Benefits in Medium and Large Firms. Biennial.
- Employee Benefits in State and Local Governments. Biennial.

**Department of Health and Human Services Annual Report.**

- Income of the Population 55 and Over. 1984.

**Department of Labor**

- Annual Report of the Secretary.

**Department of Veterans Affairs**

- Annual Report of The Secretary of Veterans Affairs.
- Government Life Insurance Programs for Veterans and Members of the Services. Annual.
- Trend Data 1964-1988.

**Employment and Training Administration**

- Unemployment Insurance Claims. Weekly.

**Family Support Administration**

- Quarterly Public Assistance Statistics. Annual.

**Health Care Financing Administration**

- Health Care Financing Program Statistics. Medicare and Medicaid data. Annual.
- Health Care Financing Review. Quarterly.

**Office of Personnel Management**

- Compensation Report. Annual.
- Employment and Trends. Bimonthly. (Odd Months.)

**Rehabilitation Services Administration**

- Caseload Statistics of State Vocational Rehabilitation Agencies in Fiscal Year. Annual.
- Characteristics of Clients Rehabilitated in Fiscal Year. Annual.

**Railroad Retirement Board, Chicago, IL**

- Annual Report.
- Monthly Benefit Statistics.
- Statistical Supplement to the Annual Report.

**Social Security Administration**

- Benefits and Beneficiaries Under Public Employee Retirement Systems, Fiscal Year 1987, Social Security Bulletin, June 1990.
- Cash Benefits for Short-Term Sickness: Thirty-Five Years of Data, 1948-83, Social Security Bulletin, May 1986.
- Characteristics of Social Security Disability Insurance Beneficiaries, 1985. 1988.
- Effects of the OASDI Benefit Increase, December 1989, Social Security Bulletin, April 1990.

**Social Insurance and Human Services —Con.***U.S. Government —Con.***Social Security Administration—Con.**

- Income and Resources of the Population 55 and over, 1988. 1990.
- 1982 New Beneficiary Survey Findings, Social Security Bulletin, 1983-87.
- Private Social Welfare Expenditures, 197287, Social Security Bulletin, November 1989.
- Public Social Welfare Expenditures, 196587, Social Security Bulletin, February 1990.
- Social Security Beneficiaries by State and County. Annual.
- Social Security Bulletin. Monthly with annual statistical supplement. (Data on OAS-DHI, Supplemental Security Income, Aid to Families with Dependent Children, Medicaid, Low Income Home Energy Assistance, Food Stamps, black lung benefits, and other programs.)
- Social Security Programs in the United States, Social Security Bulletin, July 1989.
- State Assistance Programs for SSI Recipients. January 1990.
- Supplemental Security Income, State and County Data. Annual.
- Workers' Compensation Coverage, Benefits, and Costs, 1987, Social Security Bulletin, April 1990.
- Workers' Compensation: 1981-84 Benchmark Data, Social Security Bulletin, July 1988.

*Other*

- AAFRC Trust For Philanthropy, New York, NY  
Giving USA. Annual.
- American Red Cross, Washington, DC  
Annual Report.
- Boy Scouts of America, National Council, Irving, TX  
Annual Report.  
Local Council Index.
- The Foundation Center, New York, NY  
The Foundation Grants Index. Edition 19. 1990.  
National Data Book of Foundations. Edition 14. 1990.
- Girl Scouts of the U.S.A., New York, NY  
Annual Report.
- National Bureau of Economic Research, Cambridge, MA  
Financial Aspects of the United States Pension System, Zvi Bodie and John B. Shoven, editors. 1983. (University of Chicago Press, Chicago, IL)
- United Way of America, Alexandria, VA  
Annual Directory.
- Soil Conservation —see Agriculture.
- Sports —see Recreation.

**State and Local Government** —*see also* Federal Government*U.S. Government*

## Bureau of the Census

Census of Governments. Quinquennial. (1987, most recent.)

City Employment. Annual. (GE No. 2.)

City Government Finances. Annual. (GF No. 4.)

County Government Employment. Annual. (GE No. 4.)

County Government Finances. Annual. (GF No. 8.)

Federal Expenditures by State. Annual.

Finances of Employee-Retirement Systems of State and Local Governments. Annual. (GF No. 2.)

Finances of Public School Systems. Annual. (GF No. 10.)

Finances of Selected Public Employee Retirement Systems. Quarterly. (GR Nos. 1-4.)

Government Finances. Annual: Covers Federal, State, and local governments. (GF No. 5.)

Local Government Employment in Major County Areas. Annual. (GE No. 3.)

Local Government Finances in Major County Areas. Annual. (GF No. 6.)

Public Employment. Annual. (GE No. 1.)

Quarterly Summary of Federal, State, and Local Tax Revenue. (GT Nos. 1-4.)

State Government Finances. Annual. (GF No. 3.)

State Government Tax Collections. Annual. (GF No. 1.)

## Bureau of Labor Statistics

Employee Benefits in State and Local Governments. 1987.

Employment and Earnings. Monthly.

Employment, Hours, and Earnings, United States, 1909-84. 1985. (Bulletin No. 131212.)

Occupational Employment in Transportation, Communications, Utilities, and Trade. 1984. (Bulletin No. 2220.)

## Federal Highway Administration

Highway Statistics. Annual.

## Office of Management and Budget

The Budget of the United States Government. Annual.

## Social Security Administration

Benefits and Beneficiaries Under Public Employee Retirement Systems, 1985, Social Security Bulletin, May 1988.

*Other*

Advisory Commission on Intergovernmental Relations, Washington, DC

A Catalog of Federal Grant-in-Aid Programs to State and Local Governments, FY 89. 1989. Every 3 years.

1988 State Fiscal Capacity and Effort.

Significant Features of Fiscal Federalism. Annual.

**State and Local Government** —Con.  
*Other* —Con.

The Council of State Governments, Lexington, KY

The Book of the States. Biennial.

State Administrative Officials Classified by Function. Biennial.

International City Management Association, Washington, DC

Baseline Data Reports. Bimonthly.

Compensation: An Annual Report on Local Government Executive Salaries and Fringe Benefits.

Municipal Year Book. Annual.

Special Data Issues. Periodical.

National Governors' Association, Washington, DC

Directory of Governors of the American States, Commonwealths &amp; Territories. Annual.

Governors' Staff Directory. Biannual.

National Governors' Association and National Association of State Budget Officers, Washington, DC

Budgetary Processes in the States. July 1981.

Fiscal Survey of the States. Biannual.

The President's 1990 Budget-Impact on the States.

Public Securities Association, New York, NY

Statistical Yearbook of Municipal Finance.

Tax Foundation, Washington, DC

Facts and Figures on Government Finance. Annual.

Stocks and Bonds —*see* Investments.Stores —*see* Retail and Wholesale Trade and Service Establishments.Tax Collections —*see* Federal Government; and State and Local Government.Telephone and Telegraph Systems —*see* Communications.Television —*see* Communications.Trade —*see* Foreign Commerce; Retail and Wholesale Trade; and Service Establishments.**Transportation** —*see also* Foreign Commerce; and Roads*U.S. Government*

## Army, Corps of Engineers

Waterborne Commerce of the United States (in five parts). Annual.

## Bureau of the Census

Census of Transportation. Quinquennial. (1987, most recent.)

Motor Freight Transportation and Warehousing Survey. Annual.

Truck Inventory and Use Survey. (1987, most recent.)

Vessel Entrances and Clearances. Annual. (FT 975.)

**Transportation —Con.***U.S. Government —Con.*

- Bureau of Economic Analysis
  - Business Statistics, 1961-88. 1989.
  - Survey of Current Business. Monthly.
- Coast Guard
  - Marine Safety Statistical Review.
  - Merchant Vessels of the United States. Annual.
  - Polluting Incidents In And Around U.S. Waters. Annual.
- Department of State, Bureau of Consular Affairs
  - Summary of Passport Statistics. Annual.
- Department of Transportation
  - National Transportation Statistics. Annual.
  - Transportation Safety Information Report. Quarterly.
  - U.S. International Air Travel Statistics. Annual.
- Federal Aviation Administration
  - Census of U.S. Civil Aircraft. Annual.
  - FAA Air Traffic Activity. Annual, for fiscal years.
  - FAA Statistical Handbook of Aviation. Annual.
  - General Aviation Activity and Avionics Survey. Annual.
  - U.S. Civil Airman Statistics. Annual.
- Federal Aviation Administration and Research and Special Programs Administration
  - Airport Activity Statistics of Certificated Route Air Carriers. Annual.
- Federal Highway Administration
  - Drivers Licenses. Annual.
  - Highway Statistics. Annual.
  - Highway Statistics, Summary to 1985. (Published every 10 years.)
  - Selected Highway Statistics and Charts. Annual.
- Interstate Commerce Commission
  - Class I Freight Railroads Selected Earnings Data. Quarterly.
  - Large Class I Household Goods Carriers Selected Earnings Data. Quarterly.
  - Large Class I Motor Carriers of Passengers Selected Earnings Data. Quarterly.
  - Large Class I Motor Carriers of Property Selected Earnings Data. Quarterly.
  - Quarterly Report.
  - Transport Statistics in the United States. Issued annually in two separate parts:
    - Part 1: Railroads
    - Part 2: Motor Carriers
- Maritime Administration
  - Annual Report.
  - Bulk Carriers in the World Fleet. Annual.
  - Containerized Cargo Statistics. Annual.
  - Employment Report of United States Flag Merchant Fleet Ocean-going Vessels 1,000 Gross Tons and Over. Annual. (Monthly and quarterly data available from source.)

**Transportation —Con.***U.S. Government —Con.*

- Maritime Administration—Con.
  - Foreign Flag Merchant Ships Owned by U.S. Parent Companies. Annual.
  - Maritime Manpower Report. Monthly.
  - New Ship Construction. Annual.
  - United States Oceanborne Foreign Trade Routes. Annual.
- Research and Special Programs Administration
  - Air Carrier Financial Statistics. Quarterly.
  - Air Carrier Industry Scheduled Service Traffic Statistics. Quarterly.
  - Air Carrier Traffic Statistics. Monthly.
- Other*
  - Aerospace Industries Association of America, Washington, DC
    - Aerospace Facts and Figures. Annual.
    - Net New Orders, Shipments, and Backlog for Jet Transport Aircraft. Quarterly.
    - Commercial Helicopter Shipments. Quarterly.
  - Air Transport Association of America, Washington, DC
    - Air Transport Facts and Figures. Annual.
  - American Bureau of Shipping, Paramus, NJ
    - The Record. Annual with 1 supplement.
  - American Public Transit Association, Washington, DC
    - Transit Fact Book. Annual.
  - Association of American Railroads, Washington, DC
    - Analysis of Class I Railroads. Annual.
    - Cars of Revenue Freight Loaded. Weekly with annual summary.
    - Freight Commodity Statistics, Class I Railroads in the United States. Annual.
    - Yearbook of Railroad Facts.
  - ENO Foundation for Transportation, Westport, CT
    - Transportation in America. May, annually with periodic supplements.
  - General Aviation Manufacturers Association, Washington, DC
    - Shipment Report. Quarterly and Annual.
    - Statistical Databook. Annual.
  - Lake Carriers' Association, Cleveland, OH
    - Annual Report.
    - Monthly Bulk Commodities Report.
  - Lloyd's Register of Shipping, London, England
    - Annual Summary of Merchant Ships Completed in the World.
    - Casualty Returns. Annual. (Statistical summary of all merchant ships totally lost or reported broken up during year.)

**Transportation —Con.***Other —Con.*

- Lloyd's Register of Shipping, London, England—Con.
- Merchant Shipbuilding Returns. Quarterly. (Statistical summary of world shipbuilding.)
- Statistical Tables. Annual. (Analysis of world merchant fleet.)
- Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI
- Motor Vehicle Facts and Figures. Annual.
- World Motor Vehicle Data. Annual.
- National Air Carrier Association, Washington, DC
- Annual Report.
- Regional Airline Association, Washington, DC
- Annual Report.
- Shipbuilders Council of America, Washington, DC
- Annual Report.
- Tanker Advisory Center, Inc., New York, NY
- Worldwide Tanker Casualty Returns. Quarterly.

Travel —*see* Recreation and Transportation.

Unemployment Insurance —*see* Labor; and Social Insurance.

Utilities, Public —*see* Communications; Energy and Transportation.

Veterans —*see* National Defense; and Population.

Virgin Islands of the United States —*see* Outlying Areas.

**Vital Statistics —see also Accidents; and Health***U.S. Government*

- Centers for Disease Control, Atlanta, GA
- Abortion Surveillance. Annual Summary 1979-1980.
- Morbidity and Mortality Weekly Report. Annual summary also.
- National Center for Health Statistics
- Monthly Vital Statistics Report. Provisional statistics. Annual summary also.
- Vital and Health Statistics. (A series of statistical reports covering health-related topics.)
- Series 20: Mortality Data. Irregular.
- Series 21: Natality, Marriage, and Divorce Data. Irregular.
- Series 23: National Survey of Family Growth Statistics. Irregular.
- Vital Statistics of the United States. Annual.

*Other*

- The Alan Guttmacher Institute, New York, NY
- Abortion Services in the United States, Each State and Metropolitan Area, 1984-1985. 1988.
- Teenage Pregnancy in the United States: The Scope of the Problem and State Responses. 1989.
- Family Planning Perspectives. Monthly.

**Vital Statistics —Con.***Other —Con.*

- United Nations Statistical Office, New York, NY
- Demographic Yearbook.
- Population and Vital Statistics Report. (Series A.) Quarterly.
- World Health Organization, Geneva, Switzerland
- Annual Epidemiological and Vital Statistics.
- Epidemiological and Vital Statistics Report. Monthly.
- World Health Statistics. Quarterly and annual.

**Vocational Rehabilitation and Education***U.S. Government*

- Bureau of the Census
- Social Indicators, 1980.
- Department of Education
- Annual Report.
- Department of Veterans Affairs
- Annual Report of The Secretary of Veterans Affairs.
- Disability Compensation Data. Semiannual.
- Disability and Death Pension Data. Semiannual.
- Employment and Unemployment Among Vietnam Era Veteran—An Analysis of the 1979 National Survey of Veterans. August 1981.
- Flight Training Under the GI Bill. September 1980.
- Historical Data on the Usage of Educational Benefits: 1944-1983. April 1984.
- Office of Information Management and Statistics Monograph Selected Compensation and Pension Data, by State of Residence. Annual.
- Office of Information Management and Statistics Monograph—Veterans Benefits under Current Educational Programs. Annual.
- Trend Data 1964-1988.
- Women Veterans—Use of Educational Benefits Under the GI Bill. September 1981.
- Office of Management and Budget
- The Budget of the United States Government. Annual.
- Rehabilitation Services Administration
- Caseload Statistics of State Vocational Rehabilitation Agencies in Fiscal Year. Annual.
- Characteristics of Clients Rehabilitated in Fiscal Year. Annual.

Wages and Wage Rates —*see* Labor; and Social Insurance.

Wealth —*see* National Income.

Weather —*see* Climate.

Welfare Services —*see* Health; and Social Insurance.

Wholesale and Retail Trade —*see* Retail and Wholesale Trade.

Wholesale Prices —*see* Commodity Prices.

Work Relief —*see* Social Insurance.

Work Stoppages —*see* Labor.

# Guide to State Statistical Abstracts

This bibliography includes the most recent statistical abstracts for States and Puerto Rico published since 1980 plus those that will be issued in late 1990 or early 1991. For some States, a near equivalent has been listed in substitution for, or in addition to, a statistical abstract. All sources contain statistical tables on a variety of subjects for the State as a whole, its component parts, or both. The page counts given for publications are approximate.

## Alabama

University of Alabama, Center for Business and Economic Research, P.O. Box 870221, Tuscaloosa 35487 205-348-6191

*Economic Abstract of Alabama*. 1989. 500 pp.

## Alaska

Department of Commerce and Economic Development, Division of Economic Development, Pouch D, Juneau 99811 907-465-2017 *The Alaska Economy Performance Report*. 1988-1989

## Arizona

University of Arizona, Division of Economic and Business Research, College of Business and Public Administration, Tucson 85721 602-621-2155 Fax 602-621-2150

*Arizona Statistical Abstract: A 1990 Data Handbook*. 594pp.

*Arizona Economic Indicators*. 52 pp. (Biannual.)

## Arkansas

University of Arkansas at Little Rock, Regional Economic Analysis, Library 512, Little Rock 72204

*Arkansas State and County Economic Data*. 18 pp. (Revised annually.)

University of Arkansas at Little Rock, State Data Center, Library 508, Little Rock 72204 501-569-8530

*Arkansas Statistical Abstract*. 500 pp. (Revised biennially.)

## California

Department of Finance, 915 L Street, 8th Floor, Sacramento 95814 916-322-2263

*California Statistical Abstract, 1991*. 230 pp.

Pacific Data Resources, P.O. Box 1911, Santa Barbara, CA 93116-9954 800-422-2546

*California Almanac, 5th ed.* Biennial. 645 pp.

## Colorado

University of Colorado, Business Research Division, Campus Box 420, Boulder 80309 303-4928227

*Statistical Abstract of Colorado, 1987*. 600 pp.

## Connecticut

Connecticut Department of Economic Development, 1990-1991 87 pp. No charge for single copy. 865 Brook St., Rocky Hill 06067-3405

*Connecticut Market Data*.

## Delaware

Delaware Development Office, 99 Kings Highway, P.O. Box 1401, Dover 19903 302-739-4271

*Delaware Data Book, 1990*. 146 pp.

## District of Columbia

Office of Planning, Data Management Division, Presidential Bldg., Suite 500, 415 12th St., N.W. Washington 20004 202-727-6533

*Population Estimates and Housing Units*, annual.

Office of Policy and Program Evaluation, Executive Office of the Mayor, District Building, Room 208, 1350 Pennsylvania Ave., N.W., Washington 20004 202-727-4016

*Indices—A Statistical Index to DC Services, 1990*. Annual. 422 pp.

## Florida

University of Florida, Bureau of Economic and Business Research, Gainesville 32611-2017 904-392-0171

*Florida Statistical Abstract, 1990*. 24th ed. 1990. 723 pp.

National Data Consultants, P.O. Box 6381, Athens, Georgia 30604 404-548-8460

*Florida County Perspectives: 1991*. Annual. 110 pp.

## Georgia

University of Georgia, Division of Research, College of Business Administration, Athens 30602 404-542-4085

*Georgia Statistical Abstract, 1988-89*. 1988. 512 pp.

University of Georgia, College of Agriculture, Cooperative Extension Service, Athens 30602 404-542-8940

*The Georgia County Guide*. 1991. 10th ed. Annual. 190 pp.

Office of Planning and Budget, 254 Washington St., S.W., Atlanta 30334-8501 404-656-0911

*Georgia Descriptions in Data*. 1989. 175 pp.

## Hawaii

Hawaii State Department of Business, and Economic Development & Tourism, P.O. Box 2359, Honolulu 96804. Inquiries 808-586-2482; Copies 808-586-2404

*The State of Hawaii Data Book 1990: A Statistical Abstract*. 24th ed. 1990. 667 pp.

**Idaho**

Department of Commerce, 700 West State St., Boise 83720 208-334-2470.

*County Economic Profiles, 1982.* (Separate report for each county.)

*County Profiles of Idaho, 1989.*

*Idaho Community Profiles, 1988.*

*Idaho Facts, 1989.*

*Idaho Facts Data Book, 1989.*

University of Idaho, Center for Business Development and Research, Moscow 83843 208-885-6611

*Idaho Statistical Abstract, 1980.* 415 pp. (Out of print.)

**Illinois**

University of Illinois, Bureau of Economic and Business Research, 428 Commerce West, 1206 South 6th Street, Champaign 61820 217-333-2330

*Illinois Statistical Abstract, 1990.* page 445.

Department of Commerce and Community Affairs, 620 Adams St., Springfield 62701 217-782-1438

*Illinois State and Regional Economic Data Book—1985* 351 pp.

**Indiana**

Indiana University, Indiana Business Research Center, School of Business, Indianapolis 46202-5151 317-274-2204

*Indiana Factbook, 1985.* 420 pp.

*Indiana Factbook, 1989.* 165 pp.

**Iowa**

Iowa Department of Economic Development Research Bureau, 200 East Grand Ave., Des Moines 50309

*1987 Statistical Profile of Iowa.* 116 pp. (Out of print.)

**Kansas**

University of Kansas, Institute for Public Policy and Business Research, 607 Blake Hall, Lawrence 66045-2960 913-864-3701

*Kansas Statistical Abstract, 1989-90.* 24th ed. 1989.

**Kentucky**

Department of Existing Business and Industry, Capital Plaza Office Tower, Frankfort 40601

*Kentucky Economic Statistics.* 26th ed. 1990.

**Louisiana**

University of New Orleans, Division of Business and Economic Research, New Orleans 70148 504-286-6248

*Statistical Abstract of Louisiana.* 8th ed. 1990.

**Maine**

Maine Department of Economic and Community Development, State House Station 59, Augusta 04333 207-289-2656

*Maine: A Statistical Summary.* (Updated periodically.)

**Maryland**

Department of Economic and Employment Development, 217 E. Redwood St., Baltimore 21202 Inquiries 301-333-6953; Copies 301-333-6955

*Maryland Statistical Abstract.* 1990-91. 274 pp. (Biennial.)

**Massachusetts**

Massachusetts Institute for Social and Economic Research, 128 Thompson Hall, University of Massachusetts at Amherst 01003 413-545-3460 FAX 413-545-3686

*Projections of the Population of Cities and Towns in Massachusetts to the Year 2000.* December 1990. 400 pp.

**Michigan**

Wayne State University, Bureau of Business Research, School of Business Administration, Detroit 48202

*Michigan Statistical Abstract.* 20th ed. 1986-87. 629 pp.

**Minnesota**

Department of Trade and Economic Development, Business Development and Analysis Division, 900 American Center Building, St. Paul 55101 612-296-8283

*Compare Minnesota: An Economic and Statistical Factbook, 1989-90.* 137 pp.

*Economic Report to the Governor: State of Minnesota, 1990.* 164 pp.

Office of State Demographer, State Planning Agency, 300 Centennial Bldg., St. Paul 55155 612-296-2557

*Minnesota Population and Household Estimates, 1988.* 74 pp.

**Mississippi**

Mississippi State University, College of Business and Industry, Division of Research, Mississippi State 39762 601-325-3817

*Mississippi Statistical Abstract.* 1989. 850 pp.

**Missouri**

University of Missouri, Business and Public Administration Research Center, Columbia 65211 314-882-4805

*Statistical Abstract for Missouri, 1989.* Biennial. 350 pp.

**Montana**

Montana Department of Commerce, Census and Economic Information Center, Capitol Station, Helena 59620 406-444-2896

*Montana County Profiles.* 5th ed. 1985. Supplement to 5th ed. 1989. (Separate county reports updated periodically, available in both paper and microfiche.)

**Nebraska**

Department of Economic Development, Division of Research, Box 94666, Lincoln 68509 402-471-3779

*Nebraska Statistical Handbook.* 1990-1991. 300 pp.

**Nevada**

Department of Administration, Planning Division,  
Capitol Complex, Carson City 89710 702-687-  
4065

*Nevada Statistical Abstract*. 1990. Biennial. 405  
pp.

**New Hampshire**

Office of State Planning, 2 1/2 Beacon St.,  
Concord 03301 603-271-2155

*Current Estimates and Trends in New Hamp-  
shire's Housing Supply*. Update: 1989. 22 pp.

*Selected Economic Characteristics of New  
Hampshire Municipalities*. September 1983.  
12 pp. (Other series available on population  
estimates and projections, and taxation.)

**New Jersey**

New Jersey State Data Center, NJ Department  
of Labor, CN 388, Trenton 08625-0388 609-  
984- 2593

*New Jersey Statistical Factbook*, 1989. 115  
pp.

*Statistical Source Directory for New Jersey  
State Government*, 1989. 100 pp.

**New Mexico**

University of New Mexico, Bureau of Business  
and Economic Research, Albuquerque 87131  
505-277-2216

*New Mexico Statistical Abstract*. 1989. 215  
pp.

County Profiles. (Updated continuously.)

**New York**

Energy Association of New York, 111 Washing-  
ton Avenue, Suite 601, Albany 12210 518-449-  
3440

*New York at a Glance*, 1989-90. 230 pp.

Nelson Rockefeller Institute of Government, 411  
State Street, Albany 12203 518-472-1300

*New York State Statistical Yearbook*, 1991. 16th  
ed. 536 pp.

**North Carolina**

Office of State Budget and Management, Man-  
agement and Information Services Section,  
116 West Jones Street, Raleigh 27603-8005  
919-733-7061

*Statistical Abstract of North Carolina Coun-  
ties*, 1991. 6th edition.

**North Dakota**

University of North Dakota, Bureau of Business  
and Economic Research, Grand Forks 58202  
701-777-2637

*The Statistical Abstract of North Dakota*. 1988.  
700 pp.

Economic Development Commission, Liberty Memo-  
rial Bldg., Bismarck 58505 701-224-2810

*North Dakota Economic Data Book*. 1988.  
100 pp.

**Ohio**

Department of Development, Ohio Data Users  
Center (ODUC), P.O. Box 1001, Columbus  
43266-0101 614-466-2115

**Ohio —Con.**

*ODUC Products and Services*. (Updated con-  
tinuously.)

*Ohio County Profiles*.

The Ohio State University, School of Public  
Policy and Management, 1775 College Road,  
Columbus 43210-1399 614-292-8696

*Benchmark Ohio*, 1991. Biennial. 300 pp.

**Oklahoma**

University of Oklahoma, Center for Economic  
and Management Research, 307 West Brooks  
Street, Room 4, Norman 73019 405-325-2931

*Statistical Abstract of Oklahoma*, 1990. Annual.  
626 pp.

**Oregon**

Secretary of State, Room 136, State Capitol,  
Salem 97310

*Oregon Blue Book*. 1991-1992. Biennial. 488  
pp.

**Pennsylvania**

Pennsylvania State Data Center, Pennsylvania  
State University at Harrisburg, Middleton 15057,  
in cooperation with the Pennsylvania Depart-  
ment of Commerce

*Pennsylvania Statistical Abstract*, 1987. 29th  
ed. 1987. 262 pp.

**Rhode Island**

Department of Economic Development, 7 Jack-  
son Walkway, Providence 02903 401-277-2601

*Rhode Island Basic Economic Statistics*. 1990.  
145 pp.

**South Carolina**

Budget and Control Board, Division of Research  
and Statistical Services, R. C. Dennis Building,  
Room 425, Columbia 29201 803-734-3781

*South Carolina Statistical Abstract*: 1991. 390  
pp.

**South Dakota**

University of South Dakota, State Data Center,  
Vermillion 57069 605-677-5287

*Handbook of Manpower Statistics for South  
Dakota*. 294 pp.

*1990 South Dakota Community Abstracts*.  
400 pp.

**Tennessee**

University of Tennessee, Center for Business  
and Economic Research, Knoxville 37996-4170  
615-974-5441

*Tennessee Statistical Abstract*, 1991. 13th  
ed. 700 pp. (Annual.)

**Texas**

Dallas Morning News, Communications Center,  
P.O. Box 655237, Dallas 75265 214-977-8261

*Texas Almanac*, 1992-1993. 1991. 608 pp.

University of Texas, Bureau of Business Research,  
Austin 78712 512-471-5180

*Texas Fact Book*, 1989. 6th ed. 250 pp.



**Utah**

University of Utah, Bureau of Economic and Business Research, 401 Kendall D. Garff Building, Salt Lake City 84112 801-581-6333

*Statistical Abstract of Utah*. 1990. (Triennial.)

Utah Foundation, 10 West 100 South 323, Salt Lake City 84101 801-364-1837

*Statistical Review of Government in Utah*. 1991. 101 pp.

**Vermont**

Office of Policy Research and Coordination, Department of Employment and Training, Montpelier 05602 802-229-0311 ext. 323

Demographic and Economic Profiles. (Periodically issued.)

**Virginia**

University of Virginia, Center for Public Service, Dynamics Building, 4th Floor, 2015 Ivy Road, Charlottesville 22903 804-924-1022

*Virginia Statistical Abstract*, 1989. Biennial. 850 pp.

**Washington**

Washington State Office of Financial Management, Insurance Building M. S. AQ-44, Olympia 98504 206-753-1853

*Washington State Data Book*, 1989. 300 pp.

**West Virginia**

West Virginia Chamber of Commerce, P.O. Box 2789, Charleston 25330 304-342-1115

*West Virginia: Economic-Statistical Profile*, 1987-1988. Biennial. 750 pp.

**West Virginia —Con.**

West Virginia Research League, Inc., 405 Capitol Street, Suite 414, Charleston 25301 304-346-9451

*Economic Indicators*. 1988. 110 pp.

*The 1990 Statistical Handbook*. 86 pp.

**Wisconsin**

Wisconsin Legislative Reference Bureau, P.O. Box 2037, Madison 53701-2037 608-266-0341

*1989-1990 Wisconsin Blue Book*. 1,000 pp. Biennial.

**Wyoming**

Department of Administration and Fiscal Control, Division of Research and Statistics, 327 E. Emerson Building, Cheyenne 82002 307-777-7504

*Wyoming Data Handbook*, 1989. 200 pp.

**Puerto Rico**

Planning Board, Area of Economic and Social Planning, Bureau of Economic Analysis and Bureau of Statistics, Santurce 00940 809-722-2070

*Economic Report to the Governor*, 1990. (In Spanish.)

*Historic Series of Employment, Unemployment and Labor Force*, 1988. 98 pp. (In Spanish.)

*Social Statistics Abstract*, 1987. 258 pp. (In Spanish.)

*Socioeconomic Indicators by Municipios*, 1989. (In Spanish.)

# Guide to Foreign Statistical Abstracts

This bibliography presents recent statistical abstracts for Mexico, the Soviet Union, and member nations of the Organization for Economic Cooperation and Development. All sources contain statistical tables on a variety of subjects for the individual countries. Many of the following publications provide text in English as well as in the national language(s). For further information on these publications, contact the named statistical agency which is responsible for editing the publication.

## Austria

Osterreichisches Statistisches Zentralamt, P.O. Box 9000, A-1033 Vienna

*Statistisches Handbuch für die Republik Österreich.* Annual. 586 pp. (In German.)

## Australia

Australian Bureau of Statistics, Canberra

*Yearbook Australia.* Annual. 846 pp. (In English.)

## Belgium

Institut National de Statistique, 44 rue de Louvain, 1000 Brussels

*Annuaire statistique de la Belgique.* Annual. 783 pp. (In French and Dutch.)

## Canada

Statistics Canada, Ottawa, Ontario, KIA OT6

*Canada Yearbook: A review of economic, social and political developments in Canada.* 1990. Irregular. (In English and French.)

## Denmark

Danmarks Statistik, Postboks 2550 Sejrøgade 11, DK 2100, Copenhagen O

*Statistical Yearbook.* 1990. Annual. 541 pp. (In Danish with English translations of table headings.)

## Finland

Central Statistical Office of Finland, Box 504 SF-00101 Helsinki

*Statistical Yearbook of Finland.* Annual. 586 pp. (In English, Finnish, and Swedish.)

## France

Institut National de la Statistique et des Etudes Economiques, Paris 18, Bld. Adolphe Pinard, 75675 Paris (Cedex 14)

*Annuaire Statistique de la France.* Annual. 864 pp. (In French.)

## Greece

National Statistical Office, 14-16 Lycourgo St., 101-66 Athens

*Statistical Yearbook of Greece.* Annual. 240 pp. (plus 7 pages of diagrams). (In English and Greek.)

## Iceland

Hagstofa Islands/Statistical Bureau, Hverfisgata 8-10, Reykjavik.

*Statistical Abstract of Iceland.* 1984. Irregular. 286 pp. (In English and Icelandic.)

## Ireland

Central Statistics Office, Earlsfort Terrace, Dublin 2

*Statistical Abstract.* Annual. 406 pp. (In English.)

## Italy

ISTAT (Istituto Centrale di Statistica), Via Cesare Balbo 16, 00100 Rome

*Annuario Statistico Italiano.* Annual. 691 pp. (In Italian.)

## Japan

Statistics Bureau, Management & Coordination Agency, 19-1 Wakamatsucho, Shinjuku Tokyo 162

*Japan Statistical Yearbook.* Annual. 840 pp. (In English and Japanese.)

## Luxembourg

STATEC (Service Central de la Statistique et des Etudes), P.O. Box 304, L-2013, Luxembourg

*Annuaire Statistique.* Annual. 529 pp. (In French.)

## Mexico

Instituto Nacional de Estadística Geografía e Informática, Avda. Insurgentes Sur No. 795-PH Col. Napoles, Del. Benito Juárez 03810 Mexico, D.F.

*Anuario estadístico de los Estados Unidos Mexicanos.* Annual. 706 pp. (In Spanish.)

## Netherlands

Centraal Bureau voor de Statistiek, 428 Prinses Beatrixlaan P.O. Box 959, 2270 AZ Voorburg

*Statistical Yearbook of the Netherlands.* Annual. 491 pp. (In English.)

## New Zealand

Department of Statistics, Wellington

*New Zealand Official Yearbook.* Annual. 707 pp. (In English.)

## Norway

Central Bureau of Statistics, Skippergate 15, P.B. 8131 Dep. N-Oslo 1

*Statistical Yearbook.* Annual. 502 pp. (In English and Norwegian.)

## Portugal

INE (Instituto Nacional de Estatística), Avenida Antonio Jose de Almeida, P-1078 Lisbon Codex

*Anuario Estatístico: Continente, Açores e Madeira.* Annual. 336 pp. (In Portuguese.)

## Soviet Union

Central Statistical Board, Moscow

*Narodnoe Khoziaistvo SSSR: Statisticheskii ezhegodnik.* Annual. 767 pp. (In Russian.)

## Spain

INE (Instituto Nacional de Estadística), Paseo de la Castellana, 183, Madrid 16

*Anuario Estadístico de España.* Annual. 895 pp. (In Spanish.)

**Spain —Con.**

*Anuario Estadístico.* 1989. (Edición Manual.)  
976 pp.

**Sweden**

Statistics Sweden, S-11581 Stockholm

*Statistical Abstract of Sweden.* Annual. 561  
pp. (In English and Swedish.)

**Switzerland**

Bundesamt für Statistik, Hallwylstrasse 15, CH-3003,  
Bern

*Statistisches Jahrbuch der Schweiz.* Annual.  
400 pp. (In French and German.)

**Turkey**

State Institute of Statistics, Prime Ministry, 114  
Necatibey Caddesi, Bakanliklar, Yenisehir, Ankara

*Statistical Yearbook of Turkey.* Published on  
odd numbered years. 479 pp. (In English and  
Turkish.)

*Statistical Pocketbook of Turkey.* Published  
on even numbered years. 294 pp. (In English  
and Turkish.)

**United Kingdom**

Central Statistical Office, Great George Street,  
London SW1P 3AQ

*Annual Abstract of Statistics.* Annual. 349 pp.  
(In English.)

**West Germany**

Statistische Bundesamt, Postfach 5528, 6200  
Wiesbaden

*Statistisches Jahrbuch für die Bundesrepublik  
Deutschland.* Annual. 740 pp. (In German.)

**Yugoslavia**

Savezni Zavod za Statistiku, P.O. Box 203, 11000  
Belgrade

*Statistički Godisnjak Jugoslavije.* Annual. 784  
pp. (In Serbo-Croatian with English, French,  
and Russian translations of table headings.)

*Statistical Pocketbook of Yugoslavia.* 1989.  
212 pp. (In English.)



## Appendix II

# Metropolitan Area Concepts and Components

Statistics for metropolitan areas shown in the *Statistical Abstract* represent areas designated by the U.S. Office of Management and Budget (OMB) as standard metropolitan statistical areas (SMSA's) or metropolitan statistical areas (MSA's). Effective June 30, 1983, OMB changed the basic term from SMSA to MSA and revised the geographic definitions of many individual metropolitan areas; some new areas were defined, and some areas were redesignated as PMSA's or CMSA's (see further explanation below). The revised definitions appear in OMB press release 83-20 of June 27, 1983. The official standards for defining MSA's appeared in the Federal Register, January 3, 1980 (part 6). Revisions of MSA definitions are made periodically by OMB, mainly to add newly qualified MSA's or central cities.

The list of areas which follows (see p. 911) specifies components and population totals and refers to the definitions in effect on June 30, 1990. On that date, there were 268 MSA's, as well as 21 CMSA's comprising 73 PMSA's (including 4 MSA's, 1 CMSA, and 2 PMSA's in Puerto Rico).

The general concept of a metropolitan area is one of a large population nucleus, together with adjacent communities which have a high degree of economic and social integration with that nucleus. Standard definitions of metropolitan statistical areas were first issued in 1949 by the then Bureau of the Budget (predecessor of OMB), under the designation, "Standard Metropolitan Areas"; the term was changed to SMSA in 1959. From 1977 to 1981, the SMSA's were the responsibility of the Office of Federal Statistical Policy and Standards, Department of Commerce.

The criteria for the establishment and definition of SMSA's were modified in 1958, 1971, and 1975. The current standards were adopted in January 1980; they provide that each MSA must include at least:

- (a) One city with 50,000 or more inhabitants, or
- (b) A Census Bureau-defined urbanized area of at least 50,000 inhabitants *and* a total MSA population of at least 100,000 (75,000 in New England).

The standards provide that the MSA include as "central county(ies)" the county in which the central city is located, and adjacent counties, if any, with at least 50 percent of their population in the urbanized area. Additional "outlying counties" are included if they meet specified requirements of commuting to the central counties and of metropolitan character (such as population density and percent urban). In New England the MSA's are defined in terms of cities and towns rather than counties.

The 1980 standards provide that within metropolitan complexes of 1 million or more population, separate component areas are defined if specified criteria are met. Such areas are designated primary metropolitan statistical areas (PMSA's); and any area containing PMSA's is designated a consolidated metropolitan statistical area (CMSA). Besides the 21 CMSA's, as of 1990 there were 18 MSA's of 1 million or more within which no component PMSA's have been established. Of the 73 PMSA's, most were formerly SMSA's, but some were newly established in 1983.

Of the 21 CMSA's, most were previously recognized as standard consolidated statistical areas (SCSA's), but 5 were formerly SMSA's within which PMSA's were newly qualified in 1983.

The standards adopted in 1980 were implemented in two stages. First, they were used to define a group of 36 new areas in June 1981. The 323 SMSA's as of June 30, 1981 were reported in the 1980 census tabulations and publications. Next, the boundaries of all SMSA's were reviewed in 1982-83 under the new standards after 1980 commuting data became available.

Revised 1980 standards for determining central cities and titles were implemented as part of the 1982-83 review. The largest city in each MSA is designated a "central city"; in addition there may be additional central cities if specified requirements are met. The title of each MSA consists of the name(s) of up to three of its central cities and the name of each State into which the MSA extends. However, a central city generally is not included in an MSA title unless it has at least one-third the population of the area's largest city. Prior to 1983, virtually all central cities appeared in the area titles. An MSA may include other cities of 50,000 or more besides its central or title cities.

One report relating to the revised 1980 MSA definitions has been published as *1980 Census of Population, Supplementary Report, Metropolitan Statistical Areas* (PC80-S1-18). The *State and Metropolitan Area Data Book, 1991* presents many data items for metropolitan areas from a wide variety of sources (see inside back cover).

Standards for defining metropolitan areas after the 1990 census were issued by OMB in March 1990, revising the 1980 standards in a few respects. Effective in April 1990, the areas are collectively termed "metropolitan areas", although each individual area will continue to be designated an MSA, CMSA, or PMSA.

**New England MSA's and NECMA's.**—Because MSA's in New England are defined in terms of cities and towns rather than counties, some statistical data that are available only for counties cannot be compiled for individual New England MSA's. Therefore, for New England areas, data are shown for both New England County Metropolitan Areas (NECMA's) and MSA's wherever possible. The NECMA's provide a county version of the New England areas, but do not replace New England MSA's as the standard areas. NECMA's are defined corresponding to the 3 CMSA's in New England and for the portion of the New York-Northern New Jersey-Long Island CMSA in Connecticut. There are no NECMA definitions corresponding to New England PMSA's.

**Effect of changes in MSA definitions.**—Changes in the definitions of MSA's since 1949 have consisted chiefly of (1) the recognition of new areas as, for example, cities reached 50,000 population; and (2) the addition of counties (or towns in New England) to existing MSA's as new census data showed them to qualify. Also, several formerly separate MSA's have been merged, and occasionally territory has been transferred from one MSA to another or from an MSA to nonmetropolitan territory. Comparisons of MSA figures over time may be affected in cases where the MSA definitions were changed. To maintain comparability, data for an earlier period have been revised in this volume where possible, to reflect the MSA boundaries of the more recent period. However, this could not always be done; for data based on a sample survey, in particular, it is usually not possible to revise the data to reflect changes in MSA definitions that occurred after the survey was made.

### New England County Metropolitan Areas (NECMA'S)

[In thousands. As of April 1]

NECMA	Population, 1990	NECMA	Population, 1990	NECMA	Population, 1990
<b>Bangor, ME</b> . . . . .	147	Tolland County . . . . .	129	Cumberland County . . . . .	243
Penobscot County . . . . .	147				
<b>Boston-Lawrence-Salem-Lowell-Brockton, MA</b> . . . . .	3,784	<b>Lewiston-Auburn, ME</b> . . . . .	105	<b>Portsmouth-Dover-Rochester, NH</b> . . . . .	350
Essex County . . . . .	670	Androscoggin County . . . . .	105	Rockingham County . . . . .	246
Middlesex County . . . . .	1,398	<b>Manchester-Nashua, NH</b> . . . . .	336	Strafford County . . . . .	104
Norfolk County . . . . .	616	Hillsborough County . . . . .	336		
Plymouth County . . . . .	435	<b>New Bedford-Fall River-Attleboro, MA</b> . . . . .	506	<b>Providence-Pawtucket-Woonsocket, RI</b> . . . . .	918
Suffolk County . . . . .	664	Bristol County . . . . .	506	Bristol County . . . . .	49
				Kent County . . . . .	161
<b>Bridgeport-Stamford-Norwalk-Danbury, CT</b> . . . . .	828	<b>New Haven-Waterbury-Meriden, CT</b> . . . . .	804	Providence County . . . . .	596
Fairfield County . . . . .	828	New Haven County . . . . .	804	Washington County . . . . .	110
<b>Burlington, VT</b> . . . . .	137	<b>New London-Norwich, CT</b> . . . . .	255	<b>Springfield, MA</b> . . . . .	603
Chittenden County . . . . .	132	New London County . . . . .	255	Hampden County . . . . .	456
Grand Isle County . . . . .	5			Hampshire County . . . . .	147
<b>Hartford-New Britain-Middletown-Bristol, CT</b> . . . . .	1,124	<b>Pittsfield, MA</b> . . . . .	139	<b>Worcester-Fitchburg-Leominster, MA</b> . . . . .	710
Hartford County . . . . .	852	Berkshire County . . . . .	139	Worcester County . . . . .	710
Middlesex County . . . . .	143	<b>Portland, ME</b> . . . . .	243		

Source: U.S. Bureau of the Census, unpublished data.

# Metropolitan Areas and Their Components as of June 30, 1990

[Population enumerated as of April 1, 1990. All metropolitan areas are arranged alphabetically.  
For relationship of PMSA's to their CMSA's, see CMSA entry]

	1990 Popu- lation (1,000)		1990 Popu- lation (1,000)		1990 Popu- lation (1,000)
<b>Ablene, TX MSA</b> .....	120	<b>Asheville, NC MSA</b> .....	175	<b>Baton Rouge, LA MSA</b> .....	528
Taylor County .....	120	Buncombe County .....	175	Ascension Parish .....	58
<b>Akron, OH PMSA</b> .....	658	<b>Athens, GA MSA</b> .....	156	East Baton Rouge Parish .....	380
Portage County .....	143	Clarke County .....	88	Livingston Parish .....	71
Summit County .....	515	Jackson County .....	30	West Baton Rouge Parish .....	19
<b>Albany, GA MSA</b> .....	113	Madison County .....	21	<b>Battle Creek, MI MSA</b> .....	136
Dougherty County .....	96	Oconee County .....	18	Calhoun County .....	136
Lee County .....	16	<b>Atlanta, GA MSA</b> .....	2,834	<b>Beaumont-Port Arthur, TX</b>	
<b>Albany-Schenectady-Troy,</b>		Barrow County .....	30	<b>MSA</b> .....	361
<b>NY MSA</b> .....	874	Butts County .....	15	Hardin County .....	41
Albany County .....	293	Cherokee County .....	90	Jefferson County .....	239
Greene County .....	45	Clayton County .....	182	Orange County .....	81
Montgomery County .....	52	Cobb County .....	448	<b>Beaver County, PA PMSA</b> .....	186
Rensselaer County .....	154	Coweta County .....	54	Beaver County .....	186
Saratoga County .....	181	De Kalb County .....	546	<b>Bellingham, WA MSA</b> .....	128
Schenectady County .....	149	Douglas County .....	71	Whatcom County .....	128
<b>Albuquerque, NM MSA</b> .....	481	Fayette County .....	62	<b>Benton Harbor, MI MSA</b> .....	161
Bernalillo County .....	481	Forsyth County .....	44	Barren County .....	161
<b>Alexandria, LA MSA</b> .....	132	Fulton County .....	649	<b>Bergen-Passaic, NJ PMSA</b> .....	1,278
Rapides Parish .....	132	Gwinnett County .....	353	Bergen County .....	825
<b>Allentown-Bethlehem-</b>		Henry County .....	59	Passaic County .....	453
<b>Easton, PA-NJ MSA</b> .....	687	Newton County .....	42	<b>Billings, MT MSA</b> .....	113
Carbon County, PA .....	57	Paulding County .....	42	Yellowstone County .....	113
Lehigh County, PA .....	291	Rockdale County .....	54	<b>Biloxi-Gulfport, MS MSA</b> .....	197
Northampton County, PA .....	247	Spalding County .....	54	Hancock County .....	32
Warren County, NJ .....	82	Walton County .....	39	Harrison County .....	165
<b>Altoona, PA MSA</b> .....	131	<b>Atlantic City, NJ MSA</b> .....	319	<b>Binghamton, NY MSA</b> .....	264
Blair County .....	131	Atlantic County .....	224	Broome County .....	212
<b>Amarillo, TX MSA</b> .....	188	Cape May County .....	95	Tioga County .....	52
Potter County .....	98	<b>Augusta, GA-SC MSA</b> .....	397	<b>Birmingham, AL MSA</b> .....	908
Randall County .....	80	Columbia County, GA .....	66	Blount County .....	39
<b>Anaheim-Santa Ana, CA</b>		McDuffie County, GA .....	20	Jefferson County .....	652
<b>PMSA</b> .....	2,411	Richmond County, GA .....	190	St. Clair County .....	50
Orange County .....	2,411	Aiken County, SC .....	121	Shelby County .....	99
<b>Anchorage, AK MSA</b> .....	226	<b>Aurora-Elgin, IL PMSA</b> .....	357	Walker County .....	68
Anchorage Borough .....	226	Kane County .....	317	<b>Blmarck, ND MSA</b> .....	84
<b>Anderson, IN MSA</b> .....	131	Kendall County .....	39	Burleigh County .....	60
Madison County .....	131	<b>Austin, TX MSA</b> .....	782	Morton County .....	24
<b>Anderson, SC MSA</b> .....	145	Hays County .....	66	<b>Bloomington, IN MSA</b> .....	109
Anderson County .....	145	Travis County .....	578	Monroe County .....	109
<b>Ann Arbor, MI PMSA</b> .....	283	Williamson County .....	140	<b>Bloomington-Normal, IL</b>	
Washtenaw County .....	283	<b>Bakersfield, CA MSA</b> .....	543	<b>MSA</b> .....	129
<b>Anniketon, AL MSA</b> .....	116	Kern County .....	543	McLean County .....	129
Calhoun County .....	116	<b>Baltimore, MD MSA</b> .....	2,382	<b>Boise City, ID MSA</b> .....	206
<b>Appleton-Oshkosh-Neenah,</b>		Anne Arundel County .....	427	Ada County .....	206
<b>WI MSA</b> .....	315	Baltimore County .....	692	<b>Boston, MA PMSA</b> .....	2,871
Calumet County .....	34	Carroll County .....	123	Bristol County (pt.) .....	41
Outagamie County .....	141	Harford County .....	182	Essex County (pt.) .....	122
Winnebago County .....	140	Howard County .....	187	Middlesex County (pt.) .....	1,132
		Queen Anne's County .....	34		
		Baltimore city .....	738		
		<b>Bangor, ME MSA</b> .....	89		
		Penobscot County (pt.) .....	86		
		Waldo County (pt.) .....	3		

	1990 Population (1,000)		1990 Population (1,000)		1990 Population (1,000)
Norfolk County (pt.)	605	<b>Charlotte-Gastonia-Rock Hill, NC-SC MSA</b>	1,162	<b>Columbus, GA-AL MSA</b>	243
Plymouth County (pt.)	237	Cabarrus County, NC	99	Chattahoochee County, GA	17
Suffolk County	664	Gaston County, NC	175	Muscogee County, GA	179
Worcester County (pt.)	71	Lincoln County, NC	50	Russell County, AL	47
<b>Boston-Lawrence-Salem, MA-NH CMSA</b>	4,172	Mecklenburg County, NC	511	<b>Columbus, OH MSA</b>	1,377
Boston, MA PMSA	2,871	Rowan County, NC	111	Delaware County	67
Brockton, MA PMSA	189	Union County, NC	84	Fairfield County	103
Lawrence-Haverhill, MA-NH PMSA	394	York County, SC	131	Franklin County	961
Lowell, MA-NH PMSA	273	<b>Charlottesville, VA MSA</b>	131	Licking County	128
Nashua, NH PMSA	181	Albemarle County	68	Madison County	37
Salem-Gloucester, MA PMSA	264	Fluvanna County	12	Pickaway County	48
<b>Boulder-Longmont, CO PMSA</b>	225	Greene County	10	Union County	32
Boulder County	225	Charlottesville city	40	<b>Corpus Christi, TX MSA</b>	350
<b>Bradenton, FL MSA</b>	212	<b>Chattanooga, TN-GA MSA</b>	433	Nueces County	291
Manatee County	212	Hamilton County, TN	286	San Patricio County	59
<b>Brazoria, TX PMSA</b>	192	Marion County, TN	25	<b>Cumberland, MD-WV MSA</b>	102
Brazoria County	192	Sequatchie County, TN	9	Allegany County, MD	75
<b>Bremerton, WA MSA</b>	190	Calhoun County, GA	42	Mineral County, WV	27
Kitsap County	190	Dade County, GA	13	<b>Dallas, TX PMSA</b>	2,553
<b>Bridgeport-Milford, CT PMSA</b>	444	Walker County, GA	58	Collin County	264
Fairfield County (pt.)	335	<b>Cheyenne, WY MSA</b>	73	Dallas County	1,853
New Haven County (pt.)	109	Laramie County	73	Denton County	274
<b>Bristol, CT PMSA</b>	79	<b>Chicago, IL PMSA</b>	6,070	Ellis County	85
Hartford County (pt.)	68	Cook County	5,105	Kaufman County	52
Litchfield County (pt.)	12	Du Page County	782	Rockwall County	26
<b>Brockton, MA PMSA</b>	189	McHenry County	183	<b>Dallas-Fort Worth, TX CMSA</b>	3,885
Bristol County (pt.)	20	<b>Chicago-Gary-Lake County (IL), IL-IN-WI CMSA</b>	8,066	Dallas, TX PMSA	2,553
Norfolk County (pt.)	5	Aurora-Elgin, IL PMSA	357	Fort Worth-Arlington, TX PMSA	1,332
Plymouth County (pt.)	165	Chicago, IL PMSA	6,070	<b>Danbury, CT PMSA</b>	188
<b>Brownsville-Harlingen, TX MSA</b>	260	Gary-Hammond, IN PMSA	605	Fairfield County (pt.)	163
Cameron County	260	Joliet, IL PMSA	390	Litchfield County (pt.)	25
<b>Bryan-College Station, TX MSA</b>	122	Kenosha, WI PMSA	128	<b>Danville, VA MSA</b>	109
Brazos County	122	Lake County, IL PMSA	516	Pittsylvania County	56
<b>Buffalo, NY PMSA</b>	969	<b>Chico, CA MSA</b>	182	Danville city	53
Erie County	969	Butte County	182	<b>Davenport-Rock Island-Moline, IA-IL MSA</b>	351
<b>Buffalo-Niagara Falls, NY CMSA</b>	1,189	<b>Cincinnati, OH-KY-IN PMSA</b>	1,453	Scott County, IA	151
Buffalo, NY PMSA	969	Clermont County, OH	150	Henry County, IL	51
Niagara Falls, NY PMSA	221	Hamilton County, OH	866	Rock Island County, IL	149
<b>Burlington, NC MSA</b>	108	Warren County, OH	114	<b>Dayton-Springfield, OH MSA</b>	951
Alamance County	108	Boone County, KY	58	Clark County	148
<b>Burlington, VT MSA</b>	131	Campbell County, KY	84	Greene County	137
Chittenden County (pt.)	125	Kenton County, KY	142	Miami County	93
Franklin County (pt.)	4	Dearborn County, IN	39	Montgomery County	574
Grand Isle County (pt.)	3	<b>Cincinnati-Hamilton, OH-KY-IN CMSA</b>	1,744	<b>Daytona Beach, FL MSA</b>	371
<b>Canton, OH MSA</b>	394	Cincinnati, OH-KY-IN PMSA	1,453	Volusia County	371
Carroll County	27	Hamilton-Middletown, OH PMSA	291	<b>Decatur, AL MSA</b>	132
Stark County	368	<b>Clarksville-Hopkinsville, TN-KY MSA</b>	169	Lawrence County	32
<b>Casper, WY MSA</b>	61	Montgomery County, TN	100	Morgan County	100
Natrona County	61	Christian County, KY	69	<b>Decatur, IL MSA</b>	117
<b>Cedar Rapids, IA MSA</b>	169	<b>Cleveland, OH PMSA</b>	1,831	Macon County	117
Linn County	169	Cuyahoga County	1,412	<b>Denver, CO PMSA</b>	1,623
<b>Champaign-Urbana-Rantoul, IL MSA</b>	173	Geauga County	81	Adams County	265
Champaign County	173	Lake County	215	Arapahoe County	392
<b>Charleston, SC MSA</b>	507	Medina County	122	Denver County	468
Berkeley County	129	<b>Cleveland-Akron-Lorain, OH CMSA</b>	2,760	Douglas County	60
Charleston County	295	Akron, OH PMSA	658	Jefferson County	438
Dorchester County	83	Cleveland, OH PMSA	1,831	<b>Denver-Boulder, CO CMSA</b>	1,848
<b>Charleston, WV MSA</b>	250	Lorain-Elyria, OH PMSA	271	Boulder-Longmont, CO PMSA	225
Kanawha County	208	<b>Colorado Springs, CO MSA</b>	397	Denver, CO PMSA	1,623
Putnam County	43	El Paso County	397	<b>Des Moines, IA MSA</b>	393
		<b>Columbia, MO MSA</b>	112	Dallas County	30
		Boone County	112	Polk County	327
		<b>Columbia, SC MSA</b>	453	Warren County	36
		Lexington County	168	<b>Detroit, MI PMSA</b>	4,382
		Richland County	286	Lapeer County	75
				Livingston County	116
				Macomb County	717

	1990 Population (1,000)		1990 Population (1,000)		1990 Population (1,000)
Monroe County . . . . .	134	Fort Myers-Cape Coral, FL		Harriessburg-Lebanon-	
Oakland County . . . . .	1,084	MSA . . . . .	335	Carlisle, PA MSA . . . . .	588
St. Clair County . . . . .	146	Lee County . . . . .	335	Cumberland County . . . . .	195
Wayne County . . . . .	2,112	Fort Pierce, FL MSA . . . . .	251	Dauphin County . . . . .	238
Detroit-Ann Arbor, MI CMSA .	4,665	Martin County . . . . .	101	Lebanon County . . . . .	114
Ann Arbor, MI PMSA . . . . .	283	St. Lucie County . . . . .	150	Perry County . . . . .	41
Detroit, MI PMSA . . . . .	4,382	Fort Smith, AR-OK MSA . . . . .	176	Hartford, CT PMSA . . . . .	768
Dothan, AL MSA . . . . .	131	Crawford County, AR . . . . .	42	Hartford County (pt.) . . . . .	634
Dale County . . . . .	50	Sebastian County, AR . . . . .	100	Litchfield County (pt.) . . . . .	9
Houston County . . . . .	81	Sequoyah County, OK . . . . .	34	Middlesex County (pt.) . . . . .	7
Dubuque, IA MSA . . . . .	86	Fort Walton Beach, FL MSA .	144	New London County (pt.) . . . . .	11
Dubuque County . . . . .	86	Okaloosa County . . . . .	144	Tolland County (pt.) . . . . .	107
Duluth, MN-WI MSA . . . . .	240	Fort Wayne, IN MSA . . . . .	364	Hartford-New Britain-	
St. Louis County, MN . . . . .	198	Allen County . . . . .	301	Middletown, CT CMSA . . . . .	1,086
Douglas County, WI . . . . .	42	De Kalb County . . . . .	35	Bristol, CT PMSA . . . . .	79
Eau Claire, WI MSA . . . . .	138	Whitley County . . . . .	28	Hartford, CT PMSA . . . . .	768
Chippewa County . . . . .	52	Fort Worth-Arlington, TX		Middletown, CT PMSA . . . . .	90
Eau Claire County . . . . .	85	PMSA . . . . .	1,332	New Britain, CT PMSA . . . . .	148
El Paso, TX MSA . . . . .	592	Johnson County . . . . .	97	Hickory-Morganton, NC MSA	222
El Paso County . . . . .	592	Parker County . . . . .	65	Alexander County . . . . .	28
Elkhart-Goshen, IN MSA . . .	156	Tarrant County . . . . .	1,170	Burke County . . . . .	76
Elkhart County . . . . .	156	Fresno, CA MSA . . . . .	667	Catawba County . . . . .	119
Fresno County . . . . .	667	Gadsden, AL MSA . . . . .	100	Honolulu, HI MSA . . . . .	836
Etowah County . . . . .	100	Etowah County . . . . .	100	Honolulu County . . . . .	836
Gainesville, FL MSA . . . . .	204	Gainesville, FL MSA . . . . .	204	Houma-Thibodaux, LA MSA .	183
Alachua County . . . . .	182	Alachua County . . . . .	182	Lafourche Parish . . . . .	86
Bradford County . . . . .	23	Bradford County . . . . .	23	Terrebonne Parish . . . . .	97
Galveston-Texas City, TX		Galveston-Texas City, TX		Houston, TX PMSA . . . . .	3,302
PMSA . . . . .	217	Galveston County . . . . .	217	Fort Bend County . . . . .	225
Galveston County . . . . .	217	Gary-Hammond, IN PMSA . . .	605	Harris County . . . . .	2,818
Gary-Hammond, IN PMSA . . .	605	Lake County . . . . .	476	Liberty County . . . . .	53
Lake County . . . . .	476	Porter County . . . . .	129	Montgomery County . . . . .	182
Porter County . . . . .	129	Glens Falls, NY MSA . . . . .	119	Waller County . . . . .	23
Glens Falls, NY MSA . . . . .	119	Warren County . . . . .	59	Houston-Galveston-	
Washington County . . . . .	59	Washington County . . . . .	59	Brazoria, TX CMSA . . . . .	3,711
Grand Forks, ND MSA . . . . .	71	Grand Forks, ND MSA . . . . .	71	Brazoria, TX PMSA . . . . .	192
Grand Forks County . . . . .	71	Grand Forks County . . . . .	71	Galveston-Texas City, TX	
Grand Rapids, MI MSA . . . . .	688	Grand Rapids, MI MSA . . . . .	688	PMSA . . . . .	217
Kent County . . . . .	501	Kent County . . . . .	501	Houston, TX PMSA . . . . .	3,302
Ottawa County . . . . .	188	Ottawa County . . . . .	188	Huntington-Ashland,	
Great Falls, MT MSA . . . . .	78	Great Falls, MT MSA . . . . .	78	WV-KY-OH MSA . . . . .	313
Cascade County . . . . .	78	Cascade County . . . . .	78	Cabell County, WV . . . . .	97
Greeley, CO MSA . . . . .	132	Greeley, CO MSA . . . . .	132	Wayne County, WV . . . . .	42
Weld County . . . . .	132	Weld County . . . . .	132	Boyd County, KY . . . . .	51
Green Bay, WI MSA . . . . .	195	Green Bay, WI MSA . . . . .	195	Carter County, KY . . . . .	24
Brown County . . . . .	195	Brown County . . . . .	195	Greenup County, K . . . . .	37
Greensboro-Winston-		Greensboro-Winston-		Lawrence County, OH . . . . .	62
Salem-High Point,		Salem-High Point,		Huntsville, AL MSA . . . . .	239
NC MSA . . . . .	942	NC MSA . . . . .	942	Madison County . . . . .	239
Davidson County . . . . .	127	Davidson County . . . . .	127	Indianapolis, IN MSA . . . . .	1,250
Davie County . . . . .	28	Davie County . . . . .	28	Boone County . . . . .	38
Forsyth County . . . . .	266	Forsyth County . . . . .	266	Hamilton County . . . . .	109
Guilford County . . . . .	347	Guilford County . . . . .	347	Hancock County . . . . .	46
Randolph County . . . . .	107	Randolph County . . . . .	107	Hendricks County . . . . .	76
Stokes County . . . . .	37	Stokes County . . . . .	37	Johnson County . . . . .	88
Yadkin County . . . . .	30	Yadkin County . . . . .	30	Marion County . . . . .	797
Greenville-Spartanburg, SC		Greenville-Spartanburg, SC		Morgan County . . . . .	56
MSA . . . . .	641	MSA . . . . .	641	Shelby County . . . . .	40
Greenville County . . . . .	320	Greenville County . . . . .	320	Iowa City, IA MSA . . . . .	96
Pickens County . . . . .	94	Pickens County . . . . .	94	Johnson County . . . . .	96
Spartanburg County . . . . .	227	Spartanburg County . . . . .	227	Jackson, MI MSA . . . . .	150
Hagerstown, MD MSA . . . . .	121	Hagerstown, MD MSA . . . . .	121	Jackson County . . . . .	150
Washington County . . . . .	121	Washington County . . . . .	121	Jackson, MS MSA . . . . .	395
Hamilton-Middletown, OH		Hamilton-Middletown, OH		Hinds County . . . . .	254
PMSA . . . . .	291	PMSA . . . . .	291	Madison County . . . . .	54
Butler County . . . . .	291	Butler County . . . . .	291	Rankin County . . . . .	87
				Jackson, TN MSA . . . . .	78
				Madison County . . . . .	78
				Jacksonville, FL MSA . . . . .	907
				Clay County . . . . .	106
				Duval County . . . . .	673
				Nassau County . . . . .	44
				St. Johns County . . . . .	84



	1990 Popu- lation (1,000)		1990 Popu- lation (1,000)		1990 Popu- lation (1,000)
<b>Jacksonville, NC MSA</b> . . . . .	150	<b>Lakeland-Winter Haven, FL</b>		<b>Lowell, MA-NH PMSA</b> . . . . .	273
Onslow County . . . . .	150	<b>MSA</b> . . . . .	405	Middlesex County, MA (pt.) . . . . .	264
<b>Jamestown-Dunkirk, NY MSA</b> . . . . .	142	Polk County . . . . .	405	Hillsborough County, NH (pt.) . . . . .	9
Chautauqua County . . . . .	142	<b>Lancaster, PA MSA</b> . . . . .	423	<b>Lubbock, TX MSA</b> . . . . .	223
<b>Janeville-Beloit, WI MSA</b> . . . . .	140	Lancaster County . . . . .	423	Lubbock County . . . . .	223
Rock County . . . . .	140	<b>Lansing-East Lansing, MI</b>		<b>Lynchburg, VA MSA</b> . . . . .	142
<b>Jersey City, NJ PMSA</b> . . . . .	553	<b>MSA</b> . . . . .	433	Amherst County . . . . .	29
Hudson County . . . . .	553	Clinton County . . . . .	58	Campbell County . . . . .	48
<b>Johnson City-Kingsport-</b>		Eaton County . . . . .	93	Lynchburg city . . . . .	66
<b>Bristol, TN-VA MSA</b> . . . . .	436	Ingham County . . . . .	282	<b>Macon-Warner Robins, GA MSA</b>	281
Carter County, TN . . . . .	52	<b>Laredo, TX MSA</b> . . . . .	133	Bibb County . . . . .	150
Hawkins County, TN . . . . .	45	Webb County . . . . .	133	Houston County . . . . .	89
Sullivan County, TN . . . . .	144	<b>Las Cruces, NM MSA</b> . . . . .	136	Jones County . . . . .	21
Union County, TN . . . . .	17	Dona Ana County . . . . .	136	Peach County . . . . .	21
Washington County, TN . . . . .	92	<b>Las Vegas, NV MSA</b> . . . . .	741	<b>Madison, WI MSA</b> . . . . .	367
Scott County, VA . . . . .	23	Clark County . . . . .	741	Dane County . . . . .	367
Washington County, VA . . . . .	46	<b>Lawrence, KS MSA</b> . . . . .	82	<b>Manchester, NH MSA</b> . . . . .	148
Bristol city, VA . . . . .	18	Douglas County . . . . .	82	Hillsborough County (pt.) . . . . .	127
<b>Johnstown, PA MSA</b> . . . . .	241	<b>Lawrence-Haverhill, MA-</b>		Merrimack County (pt.) . . . . .	13
Cambria County . . . . .	163	<b>NH PMSA</b> . . . . .	394	Rockingham County (pt.) . . . . .	8
Somerset County . . . . .	78	Essex County, MA (pt.) . . . . .	284	<b>Mansfield, OH MSA</b> . . . . .	126
<b>Joliet, IL PMSA</b> . . . . .	390	Rockingham County, NH		Richland County . . . . .	126
Grundy County . . . . .	32	(pt.) . . . . .	110	<b>McAllen-Edinburg-Mission,</b>	
Will County . . . . .	357	<b>Lawton, OK MSA</b> . . . . .	111	<b>TX MSA</b> . . . . .	384
<b>Joplin, MO MSA</b> . . . . .	135	Comanche County . . . . .	111	Hidalgo County . . . . .	384
Jasper County . . . . .	90	<b>Lewiston-Auburn, ME MSA</b>	88	<b>Medford, OR MSA</b> . . . . .	146
Newton County . . . . .	44	Androscoggin County (pt.) . . . . .	88	Jackson County . . . . .	146
<b>Kalamazoo, MI MSA</b> . . . . .	223	<b>Lexington-Fayette, KY MSA</b>	348	<b>Melbourne-Titusville-Palm</b>	
Kalamazoo County . . . . .	223	Bourbon County . . . . .	19	<b>Bay, FL MSA</b> . . . . .	399
<b>Kankakee, IL MSA</b> . . . . .	96	Clark County . . . . .	29	Brevard County . . . . .	399
Kankakee County . . . . .	96	Fayette County . . . . .	225	<b>Memphis, TN-AR-MS MSA</b> . . . . .	982
<b>Kansas City, MO-KS MSA</b> . . . . .	1,566	Jessamine County . . . . .	31	Shelby County, TN . . . . .	826
Cass County, MO . . . . .	64	Scott County . . . . .	24	Tipton County, TN . . . . .	38
Clay County, MO . . . . .	153	Woodford County . . . . .	20	Crittenden County, AR . . . . .	50
Jackson County, MO . . . . .	633	<b>Lima, OH MSA</b> . . . . .	154	De Soto County, MS . . . . .	68
Lafayette County, MO . . . . .	31	Allen County . . . . .	110	<b>Merced, CA MSA</b> . . . . .	178
Platte County, MO . . . . .	58	Auglaize County . . . . .	45	Merced County . . . . .	178
Ray County, MO . . . . .	22	<b>Lincoln, NE MSA</b> . . . . .	214	<b>Miami-Fort Lauderdale, FL</b>	
Johnson County, KS . . . . .	355	Lancaster County . . . . .	214	<b>CMSA</b> . . . . .	3,193
Leavenworth County, KS . . . . .	64	<b>Little Rock-North Little</b>		Fort Lauderdale-Hollywood-	
Miami County, KS . . . . .	23	<b>Rock, AR MSA</b> . . . . .	513	Pompano Beach, FL PMSA . . . . .	1,255
Wyandotte County, KS . . . . .	162	Faulkner County . . . . .	60	Miami-Hialeah, FL PMSA . . . . .	1,937
<b>Kenosha, WI PMSA</b> . . . . .	128	Lonoke County . . . . .	39	<b>Miami-Hialeah, FL PMSA</b> . . . . .	1,937
Kenosha County . . . . .	128	Pulaski County . . . . .	350	Dade County . . . . .	1,937
<b>Killeen-Temple, TX MSA</b> . . . . .	255	Saline County . . . . .	64	<b>Middlesex-Somerset-</b>	
Bell County . . . . .	191	<b>Longview-Marshall, TX MSA</b>	162	<b>Hunterdon, NJ PMSA</b> . . . . .	1,020
Coryell County . . . . .	64	Gregg County . . . . .	105	Hunterdon County . . . . .	108
<b>Knoxville, TN MSA</b> . . . . .	605	Harrison County . . . . .	57	Middlesex County . . . . .	672
Anderson County . . . . .	68	<b>Lorain-Elyria, OH PMSA</b> . . . . .	271	Somerset County . . . . .	240
Blount County . . . . .	86	Lorain County . . . . .	271	<b>Middletown, CT PMSA</b> . . . . .	90
Grainger County . . . . .	17	<b>Los Angeles-Anaheim-</b>		Middlesex County (pt.) . . . . .	90
Jefferson County . . . . .	33	<b>Riverside, CA CMSA</b> . . . . .	14,532	<b>Midland, TX MSA</b> . . . . .	107
Knox County . . . . .	336	Anaheim-Santa Ana, CA		Midland County . . . . .	107
Sevier County . . . . .	51	PMSA . . . . .	2,411	<b>Milwaukee, WI PMSA</b> . . . . .	1,432
Union County . . . . .	14	Los Angeles-Long Beach,		Milwaukee County . . . . .	959
<b>Kokomo, IN MSA</b> . . . . .	97	CA PMSA . . . . .	8,863	Ozaukee County . . . . .	73
Howard County . . . . .	81	Oxnard-Ventura, CA PMSA . . . . .	669	Washington County . . . . .	95
Tipton County . . . . .	16	Riverside-San Bernardino,		Waukesha County . . . . .	305
<b>La Crosse, WI MSA</b> . . . . .	98	CA PMSA . . . . .	2,589	<b>Milwaukee-Racine, WI CMSA</b>	1,607
La Crosse County . . . . .	98	<b>Los Angeles-Long Beach,</b>		Milwaukee, WI PMSA . . . . .	1,432
<b>Lafayette, LA MSA</b> . . . . .	209	<b>CA PMSA</b> . . . . .	8,863	Racine, WI PMSA . . . . .	175
Lafayette Parish . . . . .	165	<b>Louisville, KY-IN MSA</b> . . . . .	953	<b>Minneapolis-St. Paul,</b>	
St. Martin Parish . . . . .	44	Bullitt County, KY . . . . .	48	<b>MIN-WI MSA</b> . . . . .	2,464
<b>Lafayette-West Lafayette,</b>		Jefferson County, KY . . . . .	665	Anoka County, MN . . . . .	244
<b>IN MSA</b> . . . . .	131	Oldham County, KY . . . . .	33	Carver County, MN . . . . .	48
Tiptecanoe County . . . . .	131	Shelby County, KY . . . . .	25	Chisago County, MN . . . . .	31
<b>Lake Charles, LA MSA</b> . . . . .	168	Clark County, IN . . . . .	88	Dakota County, MN . . . . .	275
Calcasieu Parish . . . . .	168	Floyd County, IN . . . . .	64	Hennepin County, MN . . . . .	1,032
<b>Lake County, IL PMSA</b> . . . . .	516	Harrison County, IN . . . . .	30	Isanti County, MN . . . . .	26
Lake County . . . . .	516				

	1990 Popu- lation (1,000)		1990 Popu- lation (1,000)		1990 Popu- lation (1,000)
Ramsay County, MN . . . . .	486	<b>New York-Northern New</b>		<b>Parkersburg-Marietta, WV-</b>	
Scott County, MN . . . . .	58	<b>Jersey-Long Island,</b>		<b>OH MSA . . . . .</b>	149
Washington County, MN . . . . .	146	<b>NY-NJ-CT CMSA . . . . .</b>	18,087	Wood County, WV . . . . .	87
Wright County, MN . . . . .	69	Bergen-Passaic, NJ PMSA . . . . .	1,278	Washington County, OH . . . . .	62
St. Croix County, WI . . . . .	50	Bridgeport-Milford, CT PMSA . . . . .	444		
		Danbury, CT PMSA . . . . .	188	<b>Pascagoula, MS MSA . . . . .</b>	115
<b>Mobile, AL MSA . . . . .</b>	477	Jersey City, NJ PMSA . . . . .	553	Jackson County . . . . .	115
Baldwin County . . . . .	98	Middlesex-Somerset . . . . .			
Mobile County . . . . .	379	Hunterdon, NJ PMSA . . . . .	1,020	<b>Pawtucket-Woonsocket-</b>	
		Monmouth-Ocean, NJ PMSA . . . . .	986	<b>Attleboro, RI-MA PMSA . . . . .</b>	329
<b>Modesto, CA MSA . . . . .</b>	371	Nassau-Suffolk, NY PMSA . . . . .	2,609	Providence County, RI (pt.) . . . . .	227
Stanislaus County . . . . .	371	New York, NY PMSA . . . . .	8,547	Bristol County, MA (pt.) . . . . .	85
		Newark, NJ PMSA . . . . .	1,824	Norfolk County, MA (pt.) . . . . .	7
<b>Monmouth-Ocean, NJ</b>		Norwalk, CT PMSA . . . . .	127	Worcester County, MA (pt.) . . . . .	10
<b>PMSA . . . . .</b>	986	Orange County, NY PMSA . . . . .	308		
Monmouth County . . . . .	553	Stamford, CT PMSA . . . . .	203	<b>Pensacola, FL MSA . . . . .</b>	344
Ocean County . . . . .	433			Escambia County . . . . .	263
		<b>Newark, NJ PMSA . . . . .</b>	1,824	Santa Rosa County . . . . .	82
<b>Monroe, LA MSA . . . . .</b>	142	Essex County . . . . .	778		
Ouachita Parish . . . . .	142	Morris County . . . . .	421	<b>Peoria, IL MSA . . . . .</b>	339
		Sussex County . . . . .	131	Peoria County . . . . .	183
<b>Montgomery, AL MSA . . . . .</b>	293	Union County . . . . .	494	Tazewell County . . . . .	124
Autauga County . . . . .	34			Woodford County . . . . .	33
Elmore County . . . . .	49	<b>Niagara Falls, NY PMSA . . . . .</b>	221		
Montgomery County . . . . .	209	Niagara County . . . . .	221	<b>Philadelphia, PA-NJ PMSA . . . . .</b>	4,857
				Bucks County, PA . . . . .	541
<b>Muncie, IN MSA . . . . .</b>	120	<b>Norfolk-Virginia Beach-</b>		Chester County, PA . . . . .	376
Delaware County . . . . .	120	<b>Newport News, VA</b>		Delaware County, PA . . . . .	548
		<b>MSA . . . . .</b>	1,396	Montgomery County, PA . . . . .	678
<b>Muskegon, MI MSA . . . . .</b>	159	Gloucester County . . . . .	30	Philadelphia County, PA . . . . .	1,586
Muskegon County . . . . .	159	James City County . . . . .	35	Burlington County, NJ . . . . .	395
		York County . . . . .	42	Camden County, NJ . . . . .	503
<b>Naples, FL MSA . . . . .</b>	152	Chesapeake city . . . . .	152	Gloucester County, NJ . . . . .	230
Collier County . . . . .	152	Hampton city . . . . .	134		
		Newport News city . . . . .	170	<b>Philadelphia-Wilmington-</b>	
<b>Nashua, NH PMSA . . . . .</b>	181	Norfolk city . . . . .	261	<b>Trenton, PA-NJ-DE-MD</b>	
Hillsborough County (pt.) . . . . .	161	Poquoson city . . . . .	11	<b>CMSA . . . . .</b>	5,899
Rockingham County (pt.) . . . . .	20	Portsmouth city . . . . .	104	Philadelphia, PA-NJ PMSA . . . . .	4,857
		Suffolk city . . . . .	52	Trenton, NJ PMSA . . . . .	326
<b>Nashville, TN MSA . . . . .</b>	985	Virginia Beach city . . . . .	393	Vineland-Millville-Bridgeton,	
Cheatham County . . . . .	27	Williamsburg city . . . . .	12	NJ PMSA . . . . .	138
Davidson County . . . . .	511			Wilmington, DE-NJ-MD PMSA . . . . .	579
Dickson County . . . . .	35				
Robertson County . . . . .	41	<b>Norwalk, CT PMSA . . . . .</b>	127	<b>Phoenix, AZ MSA . . . . .</b>	2,122
Rutherford County . . . . .	119	Fairfield County (pt.) . . . . .	127	Maricopa County . . . . .	2,122
Sumner County . . . . .	103				
Williamson County . . . . .	81	<b>Oakland, CA PMSA . . . . .</b>	2,083	<b>Pine Bluff, AR MSA . . . . .</b>	85
Wilson County . . . . .	68	Alameda County . . . . .	1,279	Jefferson County . . . . .	85
		Contra Costa County . . . . .	804		
<b>Nassau-Suffolk, NY PMSA . . . . .</b>	2,609			<b>Pittsburgh, PA PMSA . . . . .</b>	2,057
Nassau County . . . . .	1,287	<b>Ocala, FL MSA . . . . .</b>	195	Allegheny County . . . . .	1,336
Suffolk County . . . . .	1,322	Marion County . . . . .	195	Fayette County . . . . .	145
				Washington County . . . . .	205
<b>New Bedford, MA MSA . . . . .</b>	176	<b>Odessa, TX MSA . . . . .</b>	119	Westmoreland County . . . . .	370
Bristol County (pt.) . . . . .	161	Ector County . . . . .	119		
Plymouth County (pt.) . . . . .	14			<b>Pittsburgh-Beaver Valley,</b>	
		<b>Oklahoma City, OK MSA . . . . .</b>	959	<b>PA CMSA . . . . .</b>	2,243
<b>New Britain, CT PMSA . . . . .</b>	148	Canadian County . . . . .	74	Beaver County, PA PMSA . . . . .	186
Hartford County (pt.) . . . . .	148	Cleveland County . . . . .	174	Pittsburgh, PA PMSA . . . . .	2,057
		Logan County . . . . .	29		
<b>New Haven-Meriden, CT</b>		McClain County . . . . .	23	<b>Pittsfield, MA MSA . . . . .</b>	79
<b>MSA . . . . .</b>	530	Oklahoma County . . . . .	600	Berkshire County (pt.) . . . . .	79
Middlesex County (pt.) . . . . .	18	Pottawatomie County . . . . .	59		
New Haven County (pt.) . . . . .	513			<b>Portland, ME MSA . . . . .</b>	215
		<b>Olympia, WA MSA . . . . .</b>	161	Cumberland County (pt.) . . . . .	197
<b>New London-Norwich, CT-</b>		Thurston County . . . . .	161	York County (pt.) . . . . .	18
<b>RI MSA . . . . .</b>	267				
New London County, CT (pt.) . . . . .	234	<b>Omaha, NE-IA MSA . . . . .</b>	618	<b>Portland, OR PMSA . . . . .</b>	1,240
Windham County, CT (pt.) . . . . .	4	Douglas County, NE . . . . .	416	Clackamas County . . . . .	279
Washington County, RI (pt.) . . . . .	28	Sarpy County, NE . . . . .	103	Multnomah County . . . . .	584
		Washington County, NE . . . . .	17	Washington County . . . . .	312
<b>New Orleans, LA MSA . . . . .</b>	1,239	Pottawattamie County, IA . . . . .	83	Yamhill County . . . . .	66
Jefferson Parish . . . . .	448				
Orleans Parish . . . . .	497	<b>Orange County, NY PMSA . . . . .</b>	308	<b>Portland-Vancouver, OR-</b>	
St. Bernard Parish . . . . .	67	Orange County . . . . .	308	<b>WA CMSA . . . . .</b>	1,478
St. Charles Parish . . . . .	42			Portland, OR PMSA . . . . .	1,240
St. John the Baptist Parish . . . . .	40	<b>Orlando, FL MSA . . . . .</b>	1,073	Vancouver, WA PMSA . . . . .	238
St. Tammany Parish . . . . .	145	Orange County . . . . .	677		
		Osceola County . . . . .	108	<b>Portsmouth-Dover-</b>	
<b>New York, NY PMSA . . . . .</b>	8,547	Seminole County . . . . .	288	<b>Rochester, NH-ME</b>	
Bronx County . . . . .	1,204			<b>MSA . . . . .</b>	224
Kings County . . . . .	2,301	<b>Owensboro, KY MSA . . . . .</b>	87	Rockingham County, NH	
New York County . . . . .	1,488	Daviess County . . . . .	87	(pt.) . . . . .	77
Putnam County . . . . .	84			Strafford County, NH (pt.) . . . . .	98
Queens County . . . . .	1,952	<b>Oxnard-Ventura, CA PMSA . . . . .</b>	669	York County, ME (pt.) . . . . .	49
Richmond County . . . . .	379	Ventura County . . . . .	669		
Rockland County . . . . .	265			<b>Poughkeepsie, NY MSA . . . . .</b>	259
Westchester County . . . . .	875	<b>Panama City, FL MSA . . . . .</b>	127	Dutchess County . . . . .	259
		Bay County . . . . .	127		

	1990 Population (1,000)		1990 Population (1,000)		1990 Population (1,000)
<b>Providence, RI PMSA</b> . . . . .	655	<b>Sacramento, CA MSA</b> . . . . .	1,481	<b>Santa Fe, NM MSA</b> . . . . .	117
Bristol County . . . . .	49	El Dorado County . . . . .	126	Los Alamos County . . . . .	18
Kent County (pt.) . . . . .	158	Placer County . . . . .	173	Santa Fe County . . . . .	99
Newport County (pt.) . . . . .	5	Sacramento County . . . . .	1,041		
Providence County (pt.) . . . . .	369	Yolo County . . . . .	141	<b>Santa Rosa-Petaluma, CA</b>	
Washington County (pt.) . . . . .	74			<b>PMSA</b> . . . . .	388
<b>Providence-Pawtucket-Fall</b>		<b>Saginaw-Bay City-Midland,</b>		Sonoma County . . . . .	388
<b>River, RI-MA CMSA</b> . . . . .	1,142	<b>MI MSA</b> . . . . .	399		
Fall River, MA-RI PMSA . . . . .	157	Bay County . . . . .	112	<b>Sarasota, FL MSA</b> . . . . .	278
Pawtucket-Woonsocket . . . . .		Midland County . . . . .	76	Sarasota County . . . . .	278
Attleboro, RI-MA PMSA . . . . .	329	Saginaw County . . . . .	212		
Providence, RI PMSA . . . . .	655			<b>Savannah, GA MSA</b> . . . . .	243
<b>Provo-Orem, UT MSA</b> . . . . .	264	<b>St. Cloud, MN MSA</b> . . . . .	191	Chatham County . . . . .	217
Utah County . . . . .	264	Benton County . . . . .	30	Efingham County . . . . .	26
		Sherburne County . . . . .	42		
<b>Pueblo, CO MSA</b> . . . . .	123	Stearns County . . . . .	119	<b>Scranton-Wilkes-Barre, PA</b>	
Pueblo County . . . . .	123			<b>MSA</b> . . . . .	734
		<b>St. Joseph, MO MSA</b> . . . . .	83	Columbia County . . . . .	63
<b>Racine, WI PMSA</b> . . . . .	175	Buchanan County . . . . .	83	Lackawanna County . . . . .	219
Racine County . . . . .	175			Luzerne County . . . . .	328
<b>Raleigh-Durham, NC MSA</b> . . . . .	735	<b>St. Louis, MO-IL MSA</b> . . . . .	2,444	Monroe County . . . . .	96
Durham County . . . . .	182	Franklin County, MO . . . . .	81	Wyoming County . . . . .	28
Franklin County . . . . .	36	Jefferson County, MO . . . . .	171		
Orange County . . . . .	94	St. Charles County, MO . . . . .	293	<b>Seattle, WA PMSA</b> . . . . .	1,973
Wake County . . . . .	423	St. Louis County, MO . . . . .	914	King County . . . . .	1,507
<b>Rapid City, SD MSA</b> . . . . .	81	St. Louis city, MO . . . . .	397	Snohomish County . . . . .	466
Pennington County . . . . .	81	Clinton County, IL . . . . .	34		
		Jersey County, IL . . . . .	21	<b>Seattle-Tacoma, WA</b>	
<b>Reading, PA MSA</b> . . . . .	337	Madison County, IL . . . . .	249	<b>CMSA</b> . . . . .	2,559
Berks County . . . . .	337	Monroe County, IL . . . . .	22	Seattle, WA PMSA . . . . .	1,973
		St. Clair County, IL . . . . .	263	Tacoma, WA PMSA . . . . .	586
<b>Redding, CA MSA</b> . . . . .	147	<b>Salem, OR MSA</b> . . . . .	278		
Shasta County . . . . .	147	Marion County . . . . .	228	<b>Sharon, PA MSA</b> . . . . .	121
		Polk County . . . . .	50	Mercer County . . . . .	121
<b>Reno, NV MSA</b> . . . . .	255	<b>Salem-Gloucester, MA</b>		<b>Sheboygan, WI MSA</b> . . . . .	104
Washoe County . . . . .	255	<b>PMSA</b> . . . . .	264	Sheboygan County . . . . .	104
		Essex County (pt.) . . . . .	264		
<b>Richland-Kennewick-Pasco,</b>		<b>Salinas-Seaside-Monterey,</b>		<b>Sherman-Denison, TX</b>	
<b>WA MSA</b> . . . . .	150	<b>CA MSA</b> . . . . .	356	<b>MSA</b> . . . . .	95
Benton County . . . . .	113	Monterey County . . . . .	356	Grayson County . . . . .	95
Franklin County . . . . .	37			<b>Shreveport, LA MSA</b> . . . . .	334
<b>Richmond-Petersburg, VA</b>		<b>Salt Lake City-Ogden, UT</b>		Bossier Parish . . . . .	86
<b>MSA</b> . . . . .	866	<b>MSA</b> . . . . .	1,072	Caddo Parish . . . . .	248
Charles City County . . . . .	6	Davis County . . . . .	188		
Chesterfield County . . . . .	209	Salt Lake County . . . . .	726	<b>Sioux City, IA-NE MSA</b> . . . . .	115
Dinwiddie County . . . . .	21	Weber County . . . . .	158	Woodbury County, IA . . . . .	98
Goochland County . . . . .	14			Dakota County, NE . . . . .	17
Hanover County . . . . .	63	<b>San Angelo, TX MSA</b> . . . . .	98		
Henrico County . . . . .	218	Tom Green County . . . . .	98	<b>Sioux Falls, SD MSA</b> . . . . .	124
New Kent County . . . . .	10			Minnehaha County . . . . .	124
Powhatan County . . . . .	15	<b>San Antonio, TX MSA</b> . . . . .	1,302		
Prince George County . . . . .	27	Bexar County . . . . .	1,185	<b>South Bend-Mishawaka, IN</b>	
Colonial Heights city . . . . .	16	Comal County . . . . .	52	<b>MSA</b> . . . . .	247
Hopewell city . . . . .	23	Guadalupe County . . . . .	65	St. Joseph County . . . . .	247
Petersburg city . . . . .	38				
Richmond city . . . . .	203	<b>San Diego, CA MSA</b> . . . . .	2,498	<b>Spokane, WA MSA</b> . . . . .	361
		San Diego County . . . . .	2,498	Spokane County . . . . .	361
<b>Riverside-San Bernardino,</b>		<b>San Francisco, CA PMSA</b> . . . . .	1,604	<b>Springfield, IL MSA</b> . . . . .	190
<b>CA PMSA</b> . . . . .	2,589	Marin County . . . . .	230	Menard County . . . . .	11
Riverside County . . . . .	1,170	San Francisco County . . . . .	724	Sangamon County . . . . .	178
San Bernardino County . . . . .	1,418	San Mateo County . . . . .	650		
<b>Roanoke, VA MSA</b> . . . . .	224	<b>San Francisco-Oakland-San</b>		<b>Springfield, MA MSA</b> . . . . .	530
Botetourt County . . . . .	25	<b>Jose, CA CMSA</b> . . . . .	6,253	Hampden County (pt.) . . . . .	445
Roanoke County . . . . .	79	Oakland, CA PMSA . . . . .	2,083	Hampshire County (pt.) . . . . .	84
Roanoke city . . . . .	96	San Francisco, CA PMSA . . . . .	1,604		
Salem city . . . . .	24	San Jose, CA PMSA . . . . .	1,498	<b>Springfield, MO MSA</b> . . . . .	241
		Santa Cruz, CA PMSA . . . . .	230	Christian County . . . . .	33
<b>Rochester, MN MSA</b> . . . . .	106	Santa Rosa-Petaluma, CA		Greene County . . . . .	208
Olmsted County . . . . .	106	<b>PMSA</b> . . . . .	388		
		Vallejo-Fairfield-Napa, CA		<b>Stamford, CT PMSA</b> . . . . .	203
<b>Rochester, NY MSA</b> . . . . .	1,002	<b>PMSA</b> . . . . .	451	Fairfield County (pt.) . . . . .	203
Livingston County . . . . .	62				
Monroe County . . . . .	714	<b>San Jose, CA PMSA</b> . . . . .	1,498	<b>State College, PA MSA</b> . . . . .	124
Ontario County . . . . .	95	Santa Clara County . . . . .	1,498	Centre County . . . . .	124
Orleans County . . . . .	42			<b>Steubenville-Weirton, OH-</b>	
Wayne County . . . . .	89	<b>Santa Barbara-Santa Maria-</b>		<b>WV MSA</b> . . . . .	143
		<b>Lompoc, CA MSA</b> . . . . .	370	Jefferson County, OH . . . . .	80
<b>Rockford, IL MSA</b> . . . . .	284	Santa Barbara County . . . . .	370	Brooke County, WV . . . . .	27
Boone County . . . . .	31			Hancock County, WV . . . . .	35
Winnebago County . . . . .	253	<b>Santa Cruz, CA PMSA</b> . . . . .	230		
		Santa Cruz County . . . . .	230	<b>Stockton, CA MSA</b> . . . . .	481
				San Joaquin County . . . . .	481

	1990 Popu- lation (1,000)		1990 Popu- lation (1,000)		1990 Popu- lation (1,000)
<b>Syracuse, NY MSA</b> . . . . .	660	<b>Utica-Rome, NY MSA</b> . . . . .	317	<b>Wausau, WI MSA</b> . . . . .	115
Madison County . . . . .	89	Herkimer County . . . . .	66	Marathon County . . . . .	115
Onondaga County . . . . .	489	Oneida County . . . . .	251		
Oswego County . . . . .	122				
<b>Tacoma, WA PMSA</b> . . . . .	586	<b>Vallejo-Fairfield-Napa, CA</b>		<b>West Palm Beach-Boca</b>	
Pierce County . . . . .	586	PMSA . . . . .	451	Raton-Delray Beach, FL	
		Napa County . . . . .	111	MSA . . . . .	864
		Solano County . . . . .	340	Palm Beach County . . . . .	864
<b>Tallahassee, FL MSA</b> . . . . .	234	<b>Vancouver, WA PMSA</b> . . . . .	238	<b>Wheeling, WV-OH MSA</b> . . . . .	159
Gadsden County . . . . .	41	Clark County . . . . .	238	Marshall County, WV . . . . .	37
Leon County . . . . .	192			Ohio County, WV . . . . .	51
<b>Tampa-St. Petersburg-</b>		<b>Victoria, TX MSA</b> . . . . .	74	Belmont County, OH . . . . .	71
<b>Clearwater, FL MSA</b> . . . . .	2,068	Victoria County . . . . .	74		
Hernando County . . . . .	101			<b>Wichita, KS MSA</b> . . . . .	485
Hillsborough County . . . . .	834	<b>Vineland-Millville-Bridgeton,</b>		Butler County . . . . .	51
Pasco County . . . . .	281	NJ PMSA . . . . .	138	Harvey County . . . . .	31
Pinellas County . . . . .	852	Cumberland County . . . . .	138	Sedgwick County . . . . .	404
<b>Terre Haute, IN MSA</b> . . . . .	131	<b>Visalia-Tulare-Porterville,</b>		<b>Wichita Falls, TX MSA</b> . . . . .	122
Clay County . . . . .	25	CA MSA . . . . .	312	Wichita County . . . . .	122
Vigo County . . . . .	106	Tulare County . . . . .	312		
<b>Texarkana, TX-Texarkana,</b>		<b>Waco, TX MSA</b> . . . . .	189	<b>Williamsport, PA MSA</b> . . . . .	119
<b>AR MSA</b> . . . . .	120	McLennan County . . . . .	189	Lycoming County . . . . .	119
Bowie County, TX . . . . .	82			<b>Wilmington, DE-NJ-MD</b>	
Miller County, AR . . . . .	38	<b>Washington, DC-MD-VA</b>		PMSA . . . . .	579
<b>Toledo, OH MSA</b> . . . . .	614	MSA . . . . .	3,924	New Castle County, DE . . . . .	442
Fulton County . . . . .	38	District of Columbia . . . . .	607	Salem County, NJ . . . . .	65
Lucas County . . . . .	462	Calvert County, MD . . . . .	51	Cecil County, MD . . . . .	71
Wood County . . . . .	113	Charles County, MD . . . . .	101		
		Frederick County, MD . . . . .	150	<b>Wilmington, NC MSA</b> . . . . .	120
<b>Topeka, KS MSA</b> . . . . .	161	Montgomery County, MD . . . . .	757	New Hanover County . . . . .	120
Shawnee County . . . . .	161	Prince George's County,			
		MD . . . . .	729	<b>Worcester, MA MSA</b> . . . . .	437
<b>Trenton, NJ PMSA</b> . . . . .	326	Arlington County, VA . . . . .	171	Worcester County (pt.) . . . . .	437
Mercer County . . . . .	326	Fairfax County, VA . . . . .	819		
<b>Tucson, AZ MSA</b> . . . . .	667	Loudoun County, VA . . . . .	86	<b>Yakima, WA MSA</b> . . . . .	189
Pima County . . . . .	667	Prince William County, VA . . . . .	216	Yakima County . . . . .	189
<b>Tulsa, OK MSA</b> . . . . .	709	Stafford County, VA . . . . .	61		
Creek County . . . . .	61	Alexandria city, VA . . . . .	111	<b>York, PA MSA</b> . . . . .	418
Osage County . . . . .	42	Fairfax city, VA . . . . .	20	Adams County . . . . .	78
Rogers County . . . . .	55	Falls Church city, VA . . . . .	10	York County . . . . .	340
Tulsa County . . . . .	503	Manassas city, VA . . . . .	28		
Wagoner County . . . . .	48	Manassas Park city, VA . . . . .	7	<b>Youngstown-Warren, OH</b>	
<b>Tuscaloosa, AL MSA</b> . . . . .	151			MSA . . . . .	493
Tuscaloosa County . . . . .	151	<b>Waterbury, CT MSA</b> . . . . .	222	Mahoning County . . . . .	265
<b>Tyler, TX MSA</b> . . . . .	151	Litchfield County (pt.) . . . . .	39	Trumbull County . . . . .	228
Smith County . . . . .	151	New Haven County (pt.) . . . . .	183		
		<b>Waterloo-Cedar Falls, IA</b>		<b>Yuba City, CA MSA</b> . . . . .	123
		MSA . . . . .	147	Sutter County . . . . .	64
		Black Hawk County . . . . .	124	Yuba County . . . . .	58
		Bremer County . . . . .	23	<b>Yuma, AZ MSA</b> . . . . .	107
				Yuma County . . . . .	107



## Appendix III

# Statistical Methodology and Reliability

**Introduction.**—The data presented in this *Statistical Abstract* came from many sources. The sources include not only Federal statistical bureaus and other organizations that collect and issue statistics as their principal activity, but also governmental administrative and regulatory agencies, private research bodies, trade associations, insurance companies, health associations, and private organizations such as the National Education Association and philanthropic foundations. Consequently, the data vary considerably as to reference periods, definitions of terms and, for ongoing series, the number and frequency of time periods for which data are available.

The statistics presented were obtained and tabulated by various means. Some statistics are based on complete enumerations or censuses while others are based on samples. Some information is extracted from records kept for administrative or regulatory purposes (school enrollment, hospital records, securities registration, financial accounts, social security records, income tax returns, etc.), while other information is obtained explicitly for statistical purposes through interviews or by mail. The estimation procedures used vary from highly sophisticated scientific techniques, to crude "informed guesses."

Each set of data relates to a group of individuals or units of interest referred to as the *target universe* or *target population*, or simply as the *universe* or *population*. Prior to data collection the target universe should be clearly defined. For example, if data are to be collected for the universe of households in the United States, it is necessary to define a "household." The target universe may not be completely tractable. Cost and other considerations may restrict data collection to a *survey universe* of households on some available list, such list being inaccurate, out of date, defining "household" slightly differently, etc. This list is called a *survey frame* or *sampling frame*.

The data in many tables are based on data obtained for all population units, a *census*, or on data obtained for only a portion, or *sample*, of the population units. When the data presented are based on a sample, the sample is usually a scientifically selected *probability sample*. This is a sample selected from a list or sampling frame in such a way that every possible sample has a known chance of selection and usually each unit selected can be assigned a number, between zero and one, representing its likelihood or probability of selection.

For large-scale sample surveys, the probability sample of units is often selected as a multistage sample. The first stage of a multistage sample is the selection of a probability sample of large groups of population members, referred to as primary sampling units (PSU's). For example, in a national multistage household sample, PSU's are often counties or groups of counties. The second stage of a multistage sample is the selection, within each PSU selected at the first stage, of smaller groups of population units, referred to as secondary sampling units. In subsequent stages of selection, smaller and smaller nested groups are chosen until the ultimate sample of population units is obtained. To qualify a multistage sample as a probability sample, all stages of sampling must be carried out using probability sampling methods.

Prior to selection at each stage of a multistage (or a single stage) sample, a list of the sampling units or sampling frame for that stage must be obtained. For example, for the first stage of selection of a national household sample, a list of the counties and county groups that form the PSU's must be obtained. For the final stage of selection, lists of households, and sometimes persons within the households, have to be compiled in the field. For surveys of economic entities and for the economic census, the Census Bureau generally uses a frame constructed from the Bureau's Standard Statistical Establishment List (SSEL). The SSEL contains all establishments with payroll in the U.S. including small single establishment firms as well as large multi-establishment firms.

Wherever the quantities in a table refer to an entire universe, but are constructed from data collected in a sample survey, the table quantities are referred to as *sample estimates*. In constructing a sample estimate, an attempt is made to come as close as is feasible to the corresponding universe quantity that would be obtained from a complete census of the universe. Estimates based on a sample will, however, generally differ from the hypothetical census figures. Two classifications of errors are associated with estimates based on sample surveys: (1)

*sampling error*—the error arising from the use of a sample, rather than a census, to estimate population quantities and (2) *nonsampling error*—those errors arising from nonsampling sources. As discussed below, the magnitude of the sampling error for an estimate can usually be estimated from the sample data. However, the magnitude of the nonsampling error for an estimate can rarely be estimated. Consequently, actual error in an estimate exceeds the estimated error in the estimate.

The particular sample used in a survey is only one of a large number of possible samples of the same size which could have been selected using the same sampling procedure. Estimates derived from the different samples would, in general, differ from each other. The *standard error* (SE) is a measure of the variation among the estimates derived from all possible samples. The standard error is the most commonly used measure of the sampling error of an estimate. Valid estimates of the standard errors of survey estimates can usually be calculated from the data collected in a probability sample. For convenience, the standard error is sometimes expressed as a percent of the estimate and is called the relative standard error or *coefficient of variation* (CV). For example, an estimate of 200 units with an estimated standard error of 10 units has an estimated CV of 5 percent.

A sample estimate and an estimate of its standard error or CV can be used to construct interval estimates that have a prescribed confidence that the interval includes the average of the estimates derived from all possible samples with a known probability. To illustrate, if all possible samples were selected under essentially the same general conditions, and using the same sample design, and if an estimate and its estimated standard error were calculated from each sample, then: 1) Approximately 68% of the intervals from one standard error below the estimate to one standard error above the estimate would include the average estimate derived from all possible samples; 2) approximately 90% of the intervals from 1.6 standard errors below the estimate to 1.6 standard errors above the estimate would include the average estimate derived from all possible samples; and 3) approximately 95% of the intervals from two standard errors below the estimate to two standard errors above the estimate would include the average estimate derived from all possible samples.

Thus, for a particular sample, one can say with the appropriate level of confidence (e.g., 90% or 95%) that the average of all possible samples is included in the constructed interval. Example of a confidence interval: An estimate is 200 units with a standard error of 10 units. An approximately 90% confidence interval (plus or minus 1.6 standard errors) is from 184 to 216.

All surveys and censuses are subject to nonsampling errors. Nonsampling errors are two kinds—*random* and *nonrandom*. Random nonsampling errors arise because of the varying interpretation of questions (by respondents or interviewers) and varying actions of coders, keyers, and other processors. Some randomness is also introduced when respondents must estimate values. These same errors usually have a nonrandom component. Nonrandom nonsampling errors result from total nonresponse (no usable data obtained for a sampled unit), partial or item nonresponse (only a portion of a response may be usable), inability or unwillingness on the part of respondents to provide correct information, difficulty interpreting questions, mistakes in recording or keying data, errors of collection or processing, and coverage problems (overcoverage and undercoverage of the target universe). Random nonresponse errors usually, but not always, result in an understatement of sampling errors and thus an overstatement of the precision of survey estimates. Estimating the magnitude of nonsampling errors would require special experiments or access to independent data and, consequently, the magnitudes are seldom available.

Nearly all types of nonsampling errors that affect surveys also occur in complete censuses. Since surveys can be conducted on a smaller scale than censuses, nonsampling errors can presumably be controlled more tightly. Relatively more funds and effort can perhaps be expended toward eliciting responses, detecting and correcting response error, and reducing processing errors. As a result, survey results can sometimes be more accurate than census results.

To compensate for suspected nonrandom errors, adjustments of the sample estimates are often made. For example, adjustments are frequently made for nonresponse, both total and partial. Adjustments made for either type of nonresponse are often referred to as *imputations*. Imputation for total nonresponse is usually made by substituting for the questionnaire responses of the nonrespondents the "average" questionnaire responses of the respondents. These imputations usually are made separately within various groups of sample members, formed by attempting to place respondents and nonrespondents together that have "similar" survey characteristics. Imputation for item nonresponse is usually made by substituting for a missing item the response to that item of a respondent having characteristics that are "similar" to those of the nonrespondent.

For an estimate calculated from a sample survey, the *total error* in the estimate is composed of the sampling error, which can usually be estimated from the sample, and the nonsampling error, which usually cannot be estimated from the sample. The total error present in a population quantity obtained from a complete census is composed of only nonsampling errors. Ideally, estimates of the total error associated with data given in the *Statistical Abstract* tables should be given. However, due to the unavailability of estimates of nonsampling errors, only estimates of the levels of sampling errors, in terms of estimated standard errors or coefficients of variation, are available. To obtain estimates of the estimated standard errors from the sample of interest, obtain a copy of the referenced report which appears at the end of each table.

**Principal data bases.**—Beginning below are brief descriptions of 34 of the sample surveys and censuses that provide a substantial portion of the data contained in this *Abstract*.

## SECTION 1. POPULATION

**Source and Title:** Bureau of the Census, *Census of Population*

**Tables:** See tables citing *Census of Population* in section 1 and also in sections 2, 4, 6, 8, 13, 14, 26, and 30.

**Universe, Frequency, and Types of Data:** Complete count of U.S. population conducted every 10 years since 1790. Data obtained on number and characteristics of inhabitants.

**Type of Data Collection Operation:** In 1970, 1980, and 1990 complete census for some items—age, sex, race, marital status, and relationship to household head. In 1970, other items collected from a 5% and a 15% probability (systematic) sample of the population. In 1980, approximately 19% of the housing units were included in the sample; in 1990, approximately 17%.

**Data Collection and Imputation Procedures:** In 1970, extensive use of mail questionnaires in urban areas; personal interviews in most rural areas. In 1980 and 1990, mail questionnaires were used in even more areas than in 1970, with personal interviews in the remainder. Extensive telephone and personal followup for nonrespondents was done in the censuses. Imputations were made for missing characteristics.

**Estimates of Sampling Error:** Sampling errors for data are estimated for all items collected by sample and vary by characteristic and geographic area. The CV's for national and State estimates are generally very small.

**Other (nonsampling) Errors:** Since 1950, evaluation programs have been conducted to provide information on the magnitude of some sources of nonsampling errors such as response bias and undercoverage in each census. Results from the evaluation program for the 1980 census indicate that coverage improved substantially over previous censuses; demographic analysis estimated the net undercount at between 1.0 and 2.2 percent in 1980.

**Sources of Additional Material:** U.S. Bureau of the Census, *The Coverage of Population in the 1980 Census*, PHC80-E4; *Content Reinterview Study: Accuracy of Data for Selected Population and Housing Characteristics as Measured by Reinterview*, PHC80-E2; *1980 Census of Population*, vol 1., (PC80-1), Appendixes B, C, and D.

**Source and Title:** U.S. Bureau of the Census, *Current Population Survey (CPS)*

**Tables:** See tables citing *Current Population Reports* primarily in section 1, but also in sections 2, 3, 4, 8, 12, 13, 14, 23, and 30. Many Bureau of Labor Statistics' (BLS) tables in section 13 are CPS based.

**Universe, Frequency, and Types of Data:** Nationwide monthly sample survey of civilian noninstitutional population, 15 years old or over, to obtain data on employment, unemployment, and a number of other characteristics.

**Type of Data Collection Operation:** Multistage probability sample of about 60,000 households in 729 PSU's in 1989. Over-sampling in some States and the largest MSA's to improve reliability for those areas of employment data on annual average basis. A continual sample rotation system is used. Households are in sample 4 months, out for 8 months, and in for 4 more. Month-to-month overlap is 75%; year-to-year overlap is 50%.

**Data Collection and Imputation Procedures:** For first and fifth months that a household is in sample, personal interviews; other months, approximately, 85% of the data collected by phone. Imputation is done for both item and total nonresponse. Adjustment for total nonresponse is done by a predefined cluster of units, by MSA size and residence; for item nonresponse imputation varies by subject matter.

**Estimates of Sampling Error:** Estimated CV's on national annual averages for labor force, total employment, and nonagricultural employment, .2%; for total unemployment and agricultural employment, 1.0% to 2.5%. The estimated CV's for family income and poverty rate for all persons in 1986 are .5% and 1.5%, respectively. CV's for subnational areas, such as States, would be larger and would vary by area.

**Other (nonsampling) Errors:** Estimates of response bias on unemployment are not available, but estimates of unemployment are usually 5% to 9% lower than estimates from reinterviews. Four to 5.0% of sample households unavailable for interviews.

**Sources of Additional Material:** U.S. Bureau of the Census and Bureau of Labor Statistics, *Concepts and Methods Used in Labor Force Statistics from Current Population Survey* (Census series P-23, No. 62; BLS Report No. 463) and Bureau of the Census, *Current Population Survey* (Tech. Paper 40) and Bureau of Labor Statistics, *Employment and Earnings*, monthly, Explanatory Notes, table A-K and *BLS Handbook of Methods*, Chapter 1 (Bulletin 2285.)

## SECTION 2. VITAL STATISTICS

**Source and Title:** U.S. National Center for Health Statistics (NCHS), *Vital Registration System Tables*: See tables citing *Vital Statistics of the United States*, 297 in section 5; and 1417 in section 30.

**Universe, Frequency, and Types of Data:** Annual data on births and deaths in the United States.

**Type of Data Collection Operation:** Mortality data based on complete file of death records, except 1972, based on 50% sample. Natality statistics 1951-71, based on 50% sample of birth certificates, except a 20% to 50% in 1967, received by NCHS. Beginning 1972, data from some States received through Vital Statistics Cooperative Program (VSCP) and complete file used; data from other States based on 50% sample. Beginning 1986, all reporting areas participated in the VSCP.

**Data Collection and Imputation Procedures:** Reports based on records from registration offices of all States, District of Columbia, New York City, Puerto Rico, Virgin Islands, and Guam.

**Estimates of Sampling Error:** For recent years, CV's for births are small due to large portion of total file in sample (except for very small estimated totals).

**Other (nonsampling) Errors:** Data on births and deaths believed to be at least 99% complete.

**Sources of Additional Material:** U.S. National Center for Health Statistics, *Vital Statistics of the United States*, vol. I and vol. II, annual, and *Monthly Vital Statistics Report*.

(See section 1 above for information pertaining to tables 94-100.)

## SECTION 3. HEALTH AND NUTRITION

**Source and Title:** U.S. National Center for Health Statistics, *National Health Interview Survey (NHIS)*

**Tables:** 162, 184, 188, 189, 194-196, 201, 203-205, 211, and in section 4, table 228, and section 12, table 621.

**Universe, Frequency, and Types of Data:** Continuous data collection covering the civilian noninstitutional population to obtain information on personal and demographic characteristics, illnesses, injuries, impairments, and other health topics.

**Type of Data Collection Operation:** Multistage probability sample of 42,000 households (in 376 PSU's) selected in groups of about four adjacent households.

**Data Collection and Imputation Procedures:** Personal household interviews with extensive followup of nonrespondents. Data are adjusted for nonresponse by imputation procedure based on "average" characteristics of persons in interviewed households in the same geographic area.

**Estimates of Sampling Error:** Estimated CV's: For physician visits by males, 1.5%; for workdays lost by males, 3.5%; for persons injured at home, 4.7%.

**Other (nonsampling) Errors:** Response rate was 95.7% in 1985 for the NHIS.

**Sources of Additional Material:** U.S. National Center for Health Statistics, "Current Estimates from the National Health Interview Survey, U.S., 1983," *Vital and Health Statistics*, series 10.

(See section 15 for information pertaining to table 152.)

## SECTION 4. EDUCATION

**Source and Title:** U.S. Department of Education, National Center for Education Statistics, *Higher Education General Information Survey (HEGIS)*, *Fall Enrollment in Institutions of Higher Education*; beginning 1986, *Integrated Postsecondary Education Data Survey (IPEDS)*, *Fall Enrollment*

**Tables:** 262, 264-267, and 286.

**Universe, Frequency, and Types of Data:** Annual survey of all institutions and branches listed in the *Directory* to obtain data on total enrollment by sex, level of enrollment, type of program, racial/ethnic characteristics (in alternate years) and attendance status of student, and on first-time students.

**Type of Data Collection Operation:** Complete census.



**Data Collection and Imputation Procedures:** Survey package is usually mailed in the spring with surveys due at varying dates in the summer and fall; mail and phone followup procedures for nonrespondents. Missing data are imputed by using data of similar institutions.

**Estimates of Sampling Error:** Not applicable.

**Other (nonsampling) Errors:** Approximately 93% response rate.

**Sources of Additional Material:** U.S. Department of Education, National Center for Education Statistics, *Fall Enrollment in Higher Education*, annual.

**Source and Title:** U.S. Department of Education, National Center for Education Statistics, *Higher Education General Information Survey (HEGIS)*, *Financial Statistics of Institutions of Higher Education*; beginning 1986, *Integrated Postsecondary Education Data Survey (IPEDS)*, *Financial Statistics of Institutions of Higher Education*

**Tables:** 216, 217, 265, and 273.

**Universe, Frequency, and Types of Data:** Annual survey of all institutions and branches listed in the *Education Directory*, *Colleges and Universities* to obtain data on financial status and operations, including current funds revenues, current funds expenditures, and physical plant assets.

**Type of Data Collection Operation:** Complete census.

**Data Collection and Imputation Procedures:** Survey package is usually mailed in the spring with surveys due at varying dates in the summer and fall; mail and phone followup procedures for nonrespondents. Missing data are imputed by using data of similar institutions.

**Estimates of Sampling Error:** Not applicable.

**Other (nonsampling) Errors:** For 1986, a 87% response rate. Imputed expenditures amounted to about 2.8% of total expenditures.

**Sources of Additional Material:** U.S. Department of Education, National Center for Education Statistics, *Financial Statistics of Institutions of Higher Education*, annual.

**Source and Title:** U.S. Department of Education, National Center for Education Statistics, *Higher Education General Information Survey (HEGIS)*, *Degrees and Other Formal Awards Conferred*. Beginning 1986, *Integrated Postsecondary Education Data Survey (IPEDS)*, *Degrees and Other Formal Awards Conferred*.

**Tables:** 283-287.

**Universe, Frequency, and Types of Data:** Annual survey of all institutions and branches listed in the *Education Directory*, *Colleges and Universities* to obtain data on earned degrees and other formal awards, conferred by field of study, level of degree, sex, and by racial/ethnic characteristics (in alternate years).

**Type of Data Collection Operation:** Complete census.

**Data Collection and Imputation Procedures:** Survey package is usually mailed in the spring with surveys due at varying dates in the summer and fall; mail and phone followup procedures for nonrespondents. Missing data are imputed by using data of similar institutions.

**Estimates of Sampling Error:** Not applicable.

**Other (nonsampling) Errors:** For 1985-86, approximately 93% response rate.

**Sources of Additional Material:** U.S. Department of Education, National Center for Education Statistics, *Earned Degrees Conferred*, annual.

(See sections 1 and 9 for information pertaining to the Bureau of the Census and section 3 above for the National Center for Health Statistics.)

## SECTION 5. LAW ENFORCEMENT, COURTS, AND PRISONS

**Source and Title:** U.S. Federal Bureau of Investigation, *Uniform Crime Reporting (UCR) Program*

**Tables:** 292-296, 298, 299, 307, and 309.

**Universe, Frequency, and Types of Data:** Monthly reports on the number of criminal offenses that become known to law enforcement agencies. Data are collected on crimes cleared by arrest, by age, sex, and race of offender, and on assaults on law enforcement officers.

**Type of Data Collection Operation:** Crime statistics are based on reports of crime data submitted either directly to the FBI by contributing law enforcement agencies or through cooperating State UCR programs.

**Data Collection and Imputation Procedures:** States with UCR programs collect data directly from individual law enforcement agencies and forward reports, prepared in accordance with UCR standards, to FBI. Accuracy and consistency edits are performed by FBI.

**Estimates of Sampling Error:** Not applicable.

**Other (nonsampling) Errors:** Coverage of 98% of the population (99% in SMSA's, 94% in "other cities," and 90% in rural areas) by UCR program, though varying number of agencies report. Some error may be present through incorrect reporting.

**Sources of Additional Material:** U.S. Federal Bureau of Investigation, *Crime in the United States*.

**Source and Title:** U.S. Bureau of Justice Statistics (BJS), *National Crime Survey*

**Tables:** 300-304.

**Universe, Frequency, and Types of Data:** Monthly survey of individuals and households in the U.S. to obtain data on criminal victimization of those units for compilation of annual estimates.

**Type of Data Collection Operation:** National probability sample survey of about 50,000 interviewed households in 376 PSU's selected from a list of addresses from the 1980 census, supplemented by new construction permits and an area sample where permits are not required.

**Data Collection and Imputation Procedures:** Interviews are conducted every 6 months for 3 years for each household in the sample; 8,000 households are interviewed monthly. Personal interviews are used in the first and fifth interviews; the intervening interviews are conducted by telephone whenever possible.

**Estimates of Sampling Error:** CV's in 1985: 2.2% for crimes of violence; 14.8% for estimate of rape counts; 5.5% for robbery counts; 2.5% for assault counts; 1.4% for personal larceny counts; 2.2% for burglary counts; 1.8% for household larceny; 1.3% for all household crimes; and 4.8% for motor vehicle theft counts.

**Other (nonsampling) Errors:** Respondent recall errors which may include reporting incidents for other than the reference period; interviewer coding and processing errors; and possible mistaken reporting or classifying of events. Adjustment is made for a household noninterview rate of about 4% and for a smaller within-household noninterview rate.

**Sources of Additional Material:** U.S. Bureau of Justice Statistics, *Criminal Victimization in the United States*, annual.

(See section 2 for details on table 297 and section 9 for details on table 318.)

## SECTION 8. ELECTIONS

(See section 1 above for information pertaining to table 450.)

## SECTION 9. STATE AND LOCAL GOVERNMENT FINANCES AND EMPLOYMENT

**Source and Title:** U.S. Bureau of the Census, *Census of Governments*

**Tables:** See tables in section 9 citing *Census of Governments*.

**Universe, Frequency, and Types of Data:** Survey of all governmental units in the U.S. conducted every 5 years to obtain data on government revenue, expenditures, debt, employment and employee retirement systems, property values, public school systems, and number, size, and structure of governments.

**Type of Data Collection Operation:** Complete census. List of units derived through classification of government units recently authorized in each State and identification, counting, and classification of existing local governments and public school systems.

**Data Collection and Imputation Procedures:** Data collected through field and office compilation of financial data from official records and reports for States and large local governments; mail canvass of selected data items, like State tax revenue and employee retirement systems; and collection of local government statistics through central collection arrangements with State governments.

**Estimates of Sampling Error:** Not applicable.

**Other (nonsampling) Errors:** Some nonsampling errors may arise due to possible inaccuracies in classification, response, and processing.

**Sources of Additional Material:** U.S. Bureau of the Census, *Census of Governments, 1987*, various reports, and *State Government Finances in 1989*, GF 89, No. 3.

**Source and Title:** U.S. Bureau of the Census, *Annual Surveys of State and Local Government*

**Tables:** See tables citing *Public Employment* and *Governmental Finances* in section 9; table 243 in section 4; table 318 in section 5; and table 601 in section 12.

**Universe, Frequency, and Types of Data:** Sample survey conducted annually to obtain data on revenue, expenditure, debt, and employment of State and local governments. Universe is all governmental units in the U.S. (about 82,000).

**Type of Data Collection Operation:** Sample of about 22,000 units includes all State governments, county governments with 50,000+ population, municipalities and townships in certain States with 25,000+ population, all school districts with 5,000+ enrollment in October 1981, and other governments meeting certain criteria; probability sample for remaining units. A supplemental survey provides complete coverage of 39,000 local government units for data on taxes and intergovernmental revenue.

**Data Collection and Imputation Procedures:** Field and office compilation of data from official records and reports for States and large local governments; central collection of local governmental financial data through a number of State governments; mail canvass of other units with mail and telephone followups of nonrespondents. Data for nonresponses are imputed from previous year data or obtained from secondary sources, if available.

**Estimates of Sampling Error:** CV's for estimates of major employment and financial items are generally less than 2% for most States and less than 1.2% for the majority of States.

**Other (nonsampling) Errors:** Nonresponse rate is about 15% for number of units. Other possible errors may result from undetected inaccuracies in classification, response, and processing.

**Sources of Additional Material:** U.S. Bureau of the Census, *Public Employment in 1988*, GE 88, No. 1, *Governmental Finances in 1987-88*, GF 88, No. 5, and *Census of Governments, 1987*, various reports.

#### SECTION 10. FEDERAL GOVERNMENT

**Source and Title:** U.S. Internal Revenue Service, *Statistics of Income, Individual Income Tax Returns*

**Tables:** 523-527.

**Universe, Frequency, and Types of Data:** Annual study of unaudited individual income tax returns, Forms 1040, 1040A, and 1040EZ, filed by U.S. citizens and residents. Data provided on various financial characteristics by size of adjusted gross income, marital status, and by taxable and nontaxable returns. Data by State, based on 100% file, also include returns from 1040NR, filed by nonresident aliens plus certain self-employment tax returns.

**Type of Data Collection Operation:** Annual stratified probability sample of approximately 125,000 returns broken into sample strata based on the larger of total income or total loss amounts as well as the size of business plus farm receipts. Sampling rates for sample strata varied from .025% to 100%.

**Data Collection and Imputation Procedures:** Computer selection of sample of tax return records. Data adjusted during editing for incorrect, missing, or inconsistent entries to ensure consistency with other entries on return.

**Estimates of Sampling Error:** Estimated CV's for tax year 1987: Adjusted gross income less deficit .13%; salaries and wages .20%; and tax-exempt interest received 4.51%. (State data not subject to sampling error.)

**Other (nonsampling) Errors:** Processing errors and errors arising from the use of tolerance checks for the data.

**Sources of Additional Material:** U.S. Internal Revenue Service, *Statistics of Income, Individual Income Tax Returns*, annual.

#### SECTION 12. SOCIAL INSURANCE AND HUMAN SERVICES

**Source and Title:** U.S. Social Security Administration, *Benefit Data*

**Tables:** 593 and 594.

**Universe, Frequency, and Types of Data:** All persons receiving monthly benefits under Title 11 of Social Security Act. Data on number and amount of benefits paid by type and State.

**Type of Data Collection Operation:** Data based on administrative records. Data based on 100% files, as well as 10% and 1% sample files.

**Data Collection and Imputation Procedures:** Records used consist of actions pursuant to applications for benefits, updated by subsequent post-entitlement actions.

**Estimates of Sampling Error:** Varies by size of estimate and sample file size.

**Other (nonsampling) Errors:** Processing errors, which are believed to be small.

**Sources of Additional Material:** U.S. Social Security Administration, *Annual Statistical Supplement to the Social Security Bulletin*.

**Source and Title:** U.S. Social Security Administration, *Supplemental Security Income (SSI) Program*

**Tables:** 612-615.

**Universe, Frequency, and Types of Data:** All eligible aged, blind, or disabled persons receiving SSI benefit payments under SSI program. Data include number of persons receiving federally administered SSI, amounts paid, and State administered supplementation.

**Type of Data Collection Operation:** Data based on administrative records.

**Data Collection and Imputation Procedures:** Data adjusted to reflect returned checks and overpayment refunds. For federally administered payments, actual adjusted amounts are used; for State administered, payments are deflated for average rate across all States.

**Estimates of Sampling Error:** Not applicable.

**Other (nonsampling) Errors:** Processing errors, which are believed to be small.

**Sources of Additional Material:** U.S. Social Security Administration, *Annual Statistical Supplement to the Social Security Bulletin*.

(See section 1 above for information pertaining to the Current Population Survey, section 3 for information pertaining to the National Center for Health Statistics, and section 9 for information pertaining to Annual Surveys of State and Local Government.)

### SECTION 13. LABOR FORCE, EMPLOYMENT, AND EARNINGS

**Source and Title:** U.S. Bureau of Labor Statistics (BLS), *Current Employment Statistics (CES)* Program

**Tables:** 667-669, 674; in section 21, table 1020; in section 22, table 1083; and in section 24, table 1183.

**Universe, Frequency, and Types of Data:** Monthly survey covering about 5 million nonagricultural establishments to obtain data on employment, hours, and earnings, by industry.

**Type of Data Collection Operation:** Sample survey of over 330,000 establishments in March 1989.

**Data Collection and Imputation Procedures:** Cooperating State agencies mail questionnaires to sample establishments to develop State and local estimates; information is forwarded to BLS where national estimates are prepared.

**Estimates of Sampling Error:** Estimated CV's for average weekly hours paid, .1% and for average hourly earnings, .2%.

**Other (nonsampling) Errors:** Estimates of employment adjusted annually to reflect complete universe. Average adjustment is .2%.

**Sources of Additional Material:** U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly, Explanatory Notes, tables L-Q and *BLS Handbook of Methods*, Chapter 2, Bulletin 2285 (Apr. 1988).

(See section 1 above for information pertaining to the Current Population Survey.)

### SECTION 14. INCOME, EXPENDITURES, AND WEALTH

(See section 1 above for information pertaining to the Bureau of the Census.)

### SECTION 15. PRICES

**Source and Title:** U.S. Bureau of Labor Statistics (BLS), *Consumer Price Index (CPI)*

**Tables:** 764, 765, 769-773, 787, 788, and in section 3, table 152.

**Universe, Frequency, and Types of Data:** Monthly survey of price changes of all types of consumer goods and services purchased by urban wage earners and clerical workers prior to 1978, and urban consumers thereafter. Both indexes continue to be published.

**Type of Data Collection Operation:** Prior to 1978, sample of various consumer items in 56 urban areas; thereafter, in 85 PSU's, except from January 1987 through March 1988, when 91 areas were sampled.

**Data Collection and Imputation Procedures:** Prices of consumer items are obtained from about 57,000 housing units, and 19,000 other reporters in 85 areas. Prices of food, fuel, and a few other items are obtained monthly; prices of most other commodities and services are collected every month in the 5 largest geographic areas and every other month in others.

**Estimates of Sampling Error:** Estimates of standard errors are not available at present.

**Other (nonsampling) Errors:** Errors result from inaccurate reporting, difficulties in defining concepts and their operational implementation, and introduction of product quality changes and new products.

**Sources of Additional Material:** U.S. Bureau of Labor Statistics, *The Consumer Price Index: 1987 Revision*, Report 736, and *BLS Handbook of Methods*, Bulletin 2285.

**Source and Title:** U.S. Bureau of Labor Statistics, *Producer Price Index (PPI)*

**Tables:** 764, 766, 776-778; in section 21, table 1068; in section 24, table 1187; and in section 26, table 1260.

**Universe, Frequency, and Types of Data:** Monthly survey of producing companies to determine price changes of all commodities produced in the U.S. for sale in commercial transactions. Data on agriculture, forestry, fishing, manufacturing, mining, gas, electricity, public utilities and a few services.

**Type of Data Collection Operation:** Probability sample of approximately 3,100 commodities and about 75,000 quotations per month.

**Data Collection and Imputation Procedures:** Data are collected by mail. If transaction prices are not supplied, list prices are used. Some prices are obtained from trade publications, organized exchanges, and government agencies. To calculate index, price changes are multiplied by their relative weights based on total net selling value of all commodities in 1982.

**Estimates of Sampling Error:** Not applicable.

**Other (nonsampling) Errors:** Not available at present.

**Sources of Additional Material:** U.S. Bureau of Labor Statistics, *BLS Handbook of Methods*, Bulletin 2285.

#### SECTION 17. BUSINESS ENTERPRISE

**Source and Title:** U.S. Internal Revenue Service, *Statistics of Income, Sole Proprietorship Returns and Statistics of Income Bulletin*

**Tables:** 860-863.

**Universe, Frequency, and Types of Data:** Annual study of unaudited income tax returns of nonfarm sole proprietorships, Form 1040 with business schedules. Data provided on various financial characteristics by industry.

**Type of Data Collection Operation:** Stratified probability sample of approximately 33,000 sole proprietorships for tax year 1987. The sample is classified based on presence or absence of certain business schedules; the larger of total income or loss; and size of business plus farm receipts. Sampling rates vary from .025% to 100%.

**Data Collection and Imputation Procedures:** Computer selection of sample of tax return records. Data adjusted during editing for incorrect, missing, or inconsistent entries to ensure consistency with other entries on return.

**Estimates of Sampling Error:** Estimated CV's for tax year 1987 (latest available): For sole proprietorships, business receipts, 1.66%; net income, (less loss), 1.33%; depreciation 2.17%; interest expense 2.80%; and employee benefit programs 7.55%.

**Other (nonsampling) Errors:** Processing errors and errors arising from the use of tolerance checks for the data.

**Sources of Additional Material:** U.S. Internal Revenue Service, *Statistics of Income, Sole Proprietorship Returns* (for years through 1980) and *Statistics of Income Bulletin*, Vol. 10, No. 1 (Summer 1990).

**Source and Title:** U.S. Internal Revenue Service, *Statistics of Income, Partnership Returns and Statistics of Income Bulletin*

**Tables:** 860-862, 864, and 865.

**Universe, Frequency, and Types of Data:** Annual study of unaudited income tax returns of partnerships, Form 1065. Data provided on various financial characteristics by industry.

**Type of Data Collection Operation:** Stratified probability sample of approximately 33,000 partnership returns from a population of 1,790,000 filed during calendar year 1989. The sample is classified based on combinations of gross receipts, net income or loss, and total assets, and on industry. Sampling rates vary from .03% to 100%.

**Data Collection and Imputation Procedures:** Computer selection of sample of tax return records. Data adjusted during editing for incorrect, missing, or inconsistent entries to ensure consistency with other entries on return. Data not available due to regulations are not imputed.

**Estimates of Sampling Error:** Estimated CV's for tax year 1988 (latest available): For number of partnerships, .51%; business receipts, .78%; net income, 3.03%; net loss, 2.21% and total assets, 1.22%.

**Other (nonsampling) Errors:** Processing errors and errors arising from the use of tolerance checks for the data.

**Sources of Additional Material:** U.S. Internal Revenue Service, *Statistics of Income, Partnership Returns and Statistics of Income Bulletin*, Vol. 10, No. 1 (Summer 1990).

**Source and Title:** U.S. Internal Revenue Service, *Corporation Income Tax Returns*

**Tables:** 860-862, and 868-870.

**Universe, Frequency, and Types of Data:** Annual study of unaudited corporation income tax returns, Forms 1120 and 1120 (A, F, FSC, IC-DISC, L, PC, REIT, RIC, and S), filed by corporations or businesses legally defined as corporations. Data provided on various financial characteristics by industry and size of total assets, and business receipts.

**Type of Data Collection Operation:** Stratified probability sample of approximately 85,000 returns for 1987, distributed by sample classes generally based on type of return, size of total assets, size of net income or deficit, and selected business activity. Sampling rates for sample strata varied from .3% to 100%.

**Data Collection and Imputation Procedures:** Computer selection of sample of tax return records. Data adjusted during editing for incorrect, missing, or inconsistent entries to ensure consistency with other entries on return and to achieve statistical definitions.

**Estimates of Sampling Error:** Estimated CV's for 1987: Number of returns in subgroups ranged from 1.3% with assets under \$100,000, to 0% with assets over \$100 mil.; for amount of net income and amount of income tax, .8%.

**Other (nonsampling) Errors:** Processing errors and errors arising from the use of tolerance checks for the data.

**Sources of Additional Material:** U.S. Internal Revenue Service, *Statistics of Income, Corporation Income Tax Returns*, annual.

## SECTION 18. COMMUNICATIONS

(See section 27 for information pertaining to table 931.)

## SECTION 19. ENERGY

**Source and Title:** U.S. Energy Information Administration, *Residential Energy Consumption Survey*

**Tables:** 953-956, 987, and table 1289 in section 26.

**Universe, Frequency, and Types of Data:** Triennial survey of households and fuel suppliers. Data are obtained on energy-related household characteristics, housing unit characteristics, use of fuels, and energy consumption and expenditures by fuel type.

**Type of Data Collection Operation:** Probability sample of 7,183 eligible units in 129 PSU's. For responding units, fuel consumption and expenditure data obtained from fuel suppliers to those households.

**Data Collection and Imputation Procedures:** Personal interviews. Extensive followup of nonrespondents including mail questionnaires for some households. Adjustments for nonrespondents were made in weighting for respondents. Most item nonresponses were imputed.

**Estimates of Sampling Error:** Estimated CV's for household averages: For consumption, 1.3%; for expenditures, 1.0%; for various fuels, values ranged from 1.4% for electricity to 5.9% for LPG.

**Other (nonsampling) Errors:** Household response rate of 86.7%. Non-consumption data were mostly imputed for mail respondents (5.2% of eligible units). Usable responses from fuel suppliers for various fuels ranged from 82.8% for electricity to 55.7% for fuel oil.

**Sources of Additional Material:** U.S. Energy Information Administration, *Household Energy Consumption and Expenditures, 1987* and *Housing Characteristics, 1987*.

## SECTION 21. TRANSPORTATION—LAND

(See section 13 for table 1020, and section 15 for table 1068.)

## SECTION 22. TRANSPORTATION—AIR AND WATER

**Source and Title:** U.S. Bureau of the Census, *Foreign Trade—Export Statistics*

**Tables:** See Bureau of the Census citations for export statistics in source notes in sections 22 and 29 and also tables 1210 and 1211 in section 24; 1224 in section 25; and 1429 in section 30.

**Universe, Frequency, and Types of Data:** The export declarations collected by Customs are processed each month to obtain data on the movement of U.S. merchandise exports to foreign countries. Data obtained include value, quantity, and shipping weight of exports by commodity, country of destination, Customs district of exportation, and mode of transportation.

**Type of Data Collection Operation:** Shipper's Export Declarations are required to be filed for the exportation of merchandise valued over \$1,500. Customs officials collect and transmit the documents to the Bureau of the Census on a flow basis for data compilation. Value data for shipments valued under \$1,501 are estimated, based on established percentages of individual country totals.

**Data Collection and Imputation Procedures:** Statistical copies of Shipper's Export Declarations are received on a daily basis from Customs ports throughout the country and subjected to a monthly processing cycle. They are fully processed to the extent they reflect items valued over \$1,500. Estimates for shipments valued at \$1,500 or less are made, based on established percentages of individual country totals.

**Estimates of Sampling Error:** Not applicable.

**Other (nonsampling) Errors:** Clerical and complex computer checks intercept most processing errors and minimize otherwise significant reporting errors; other nonsampling errors are caused by undercounting of exports to Canada due to the nonreceipt of some Shipper's Export Declarations.

**Sources of Additional Material:** U.S. Bureau of the Census, *U.S. Merchandise Trade: Exports, General Imports, and Imports for Consumption, SITC, Commodity by Country*, FT 925.

**Source and Title:** U.S. Bureau of the Census, *Foreign Trade—Import Statistics*

**Tables:** See Bureau of the Census citations for import statistics in source notes in sections 22 and 29 and also tables 1210 and 1211 in section 24; 1224 in section 25; and 1429 in section 30.

**Universe, Frequency, and Types of Data:** The import entry documents collected by Customs are processed each month to obtain data on the movement of merchandise imported into the United States. Data obtained include value, quantity, and shipping weight by commodity, country of origin, Customs district of entry, and mode of transportation.

**Type of Data Collection Operation:** Import entry documents are required to be filed for the importation of goods into the United States valued over \$1,000 or for articles which must be reported on formal entries. Customs officials collect and transmit statistical copies of the documents to the Bureau of the Census on a flow basis for data compilation. Estimates for shipments valued under \$1,001 and not reported on formal entries are based on established percentages of individual country totals.

**Data Collection and Imputation Procedures:** Statistical copies of import entry documents, received on a daily basis from Customs ports of entry throughout the country, are subjected to a monthly processing cycle. They are fully processed to the extent they reflect items valued at \$1,001 and over or items which must be reported on formal entries.

**Estimates of Sampling Error:** Not applicable.

**Other (nonsampling) Errors:** Verification of statistical data reporting by Customs officials prior to transmittal and a subsequent program of clerical and computer checks are utilized to hold nonsampling errors arising from reporting and/or processing errors to a minimum.

**Sources of Additional Material:** U.S. Bureau of the Census, *U.S. Merchandise Trade: Exports, General Imports and Imports for Consumption, SITC, Commodity by Country*, FT 925.

(See section 13 for information pertaining to table 1083.)

## SECTION 23. AGRICULTURE

**Source and Title:** U.S. Department of Agriculture, National Agricultural Statistics Service (NASS), *Basic Area Frame Sample*

**Tables:** See tables citing NASS in source notes in section 23, which pertain to this or the following two surveys.

**Universe, Frequency, and Types of Data:** Two annual area sample surveys of U.S. farm operators: June agricultural survey collects data on planted acreage and livestock inventories; and a February Farm Costs and Returns survey that collects data on total farm production, expenses and specific commodity costs of production.

**Type of Data Collection Operation:** Stratified probability sample of about 16,000 land area units of about 1 sq. mile (range from .1 sq. mile in cities to several sq. miles in open grazing areas). Sample includes 60,000 parcels of agricultural land. About 20% of the sample replaced annually.

**Data Collection and Imputation Procedures:** Data collection is by personal enumeration. Imputation is based on enumerator observation or data reported by respondents having similar agricultural characteristics.

**Estimates of Sampling Error:** Estimated CV's range from 1% to 2% for regional estimates to 3% to 6% for State estimates of livestock inventories.

**Other (nonsampling) Errors:** Minimized through rigid quality controls on the collection process and careful review of all reported data.

**Sources of Additional Material:** U.S. Department of Agriculture, SRS, *Scope and Methods of the Statistical Reporting Service*, (name changed to National Agricultural Statistics Service), Miscellaneous Publication No. 1308, September 1983 (revised).

**Source and Title:** U.S. Department of Agriculture, National Agricultural Statistics Service (NASS), *Multiple Frame Surveys*

**Tables:** See tables citing NASS in source notes in section 23, which pertain to this or the following survey.

**Universe, Frequency, and Types of Data:** Surveys of U.S. farm operators to obtain data on major livestock inventories, selected crop acreages and production, grain stocks, and farm labor characteristics; and to obtain farm economic data for price indexing.

**Type of Data Collection Operation:** Primary frame is obtained from general or special purpose lists, supplemented by a probability sample of land areas used to estimate for list incompleteness.

**Data Collection and Imputation Procedures:** Mail, telephone or personal interviews used for initial data collection. Mail nonrespondent followup by phone and personal interviews. Imputation based on average of respondents.

**Estimates of Sampling Error:** Estimated CV for number of hired farm workers is about 3%. Estimated CV's range from 1% to 2% for regional estimates to 3% to 6% for State estimates of livestock inventories.

**Other (nonsampling) Errors:** In addition to above, replicated sampling procedures used to monitor effects of changes in survey procedures.

**Sources of Additional Material:** U.S. Department of Agriculture, SRS, *Scope and Methods of the Statistical Reporting Service*, (name changed to National Agricultural Statistics Service), Miscellaneous Publication No. 1308, September 1983 (revised).

**Source and Title:** U.S. Department of Agriculture, National Agricultural Statistics Service (NASS), *Objective Yield Surveys*

**Tables:** See tables citing NASS in source notes in section 23, which pertain to this or the preceding survey.

**Universe, Frequency, and Types of Data:** Surveys for data on corn, cotton, potatoes, soybeans, wheat, and rice to forecast and estimate yields.

**Type of Data Collection Operation:** Random location of plots in probability sample of fields. Fields selected in June from Basic Area Frame Sample (see above).

**Data Collection and Imputation Procedures:** Enumerators count and measure plant characteristics in sample fields. Production measured from plots at harvest. Harvest loss measured from post harvest gleanings.

**Estimates of Sampling Error:** CV's for national estimates of production are about 2-3%.

**Other (nonsampling) Errors:** In addition to above, replicated sampling procedures used to monitor effects of changes in survey procedures.

**Sources of Additional Material:** U.S. Department of Agriculture, SRS, *Scope and Methods of the Statistical Reporting Service*, (name changed to National Agricultural Statistics Service), Miscellaneous Publication No. 1308, September 1983 (revised).

(See section 1 above for information pertaining to the Census of Population and Current Population Survey.)

## SECTION 24. FORESTS AND FISHERIES

(See section 13 for information pertaining to table 1183, section 15 for table 1187, and section 22 for tables 1210 and 1211.)

## SECTION 26. CONSTRUCTION AND HOUSING

**Source and Title:** U.S. Bureau of the Census, *Monthly Survey of Construction*

**Tables:** 1269, and 1271-1274.

**Universe, Frequency, and Types of Data:** Survey conducted monthly of newly constructed housing units (excluding mobile homes, and nonhousekeeping residential buildings such as motels, hotels, courts and cabins). Data are collected on the start, completion, and sale of housing. (Annual figures are aggregates of monthly estimates.)

**Type of Data Collection Operation:** Probability sample of housing units obtained from building permits selected from 16,000 permit-issuing places through 1984 and, beginning in 1985, 17,000 places. For nonpermit places, multistage probability sample of new housing units selected in 169 PSU's. In those areas, all roads are canvassed in selected enumeration districts.

**Data Collection and Imputation Procedures:** Data are obtained by telephone inquiry and field visit.

**Estimates of Sampling Error:** Estimated CV of 3% to 4% for estimates of national totals, but are as high as 20% for estimated totals of more detailed characteristics, such as housing units in multiunit structures.

**Other (nonsampling) Errors:** Response rate is over 90% for most items. Nonsampling errors are attributed to definitional problems, differences in interpretation of questions, incorrect reporting, inability to obtain information about all cases in the sample, and processing errors.

**Sources of Additional Material:** U.S. Bureau of the Census, *Construction Reports*, series C20, *Housing Starts*; C22, *Housing Completions*; C25, *New One-Family Houses Sold and For Sale*; and C27, *Price Index of New One-Family Houses Sold*.

**Source and Title:** U.S. Bureau of the Census, *Value of New Construction Put in Place*

**Tables:** 1262-1264.



**Universe, Frequency, and Types of Data:** Survey conducted monthly on total value of all construction put in place in the current month, both public and private projects. Construction values include costs of materials and labor, contractors' profits, overhead costs, cost of architectural and engineering work, and miscellaneous project costs. (Annual figures are aggregates of monthly estimates.)

**Type of Data Collection Operation:** Varies by type of activity: Total cost of private one-family houses started each month is distributed into value put in place using fixed patterns of monthly construction progress; using a multistage probability sample, data for private multifamily housing are obtained by mail from owners of multiunit projects. Data for residential additions and alterations are obtained in a quarterly survey measuring expenditures; monthly estimates are interpolated from quarterly data. Estimates of value of private nonhousekeeping, nonresidential buildings, and State and local government construction are obtained by mail from owners (or agents) for a probability sample of projects. Estimates of farm nonresidential construction expenditures are based on U.S. Department of Agriculture annual estimates of construction; public utility estimates are obtained from reports submitted to Federal regulatory agencies and from private utility companies; estimates for all other private construction (nonbuilding) are obtained by phasing F. W. Dodge contract award data; estimates of Federal construction are based on monthly data supplied by Federal agencies.

**Data Collection and Imputation Procedures:** See "Type of Data Collection Operation." Imputation accounts for approximately 20% of estimated value of construction each month.

**Estimates of Sampling Error:** CV estimates for private nonresidential building construction range from 3% for estimated value of industrial buildings to 10% for miscellaneous buildings. CV is approximately 2% for total new private nonresidential buildings.

**Other (nonsampling) Errors:** For directly measured data series based on samples, some nonsampling errors may arise from processing errors, imputations, and misunderstanding of questions. Indirect data series are dependent on the validity of the underlying assumptions and procedures.

**Sources of Additional Material:** U.S. Bureau of the Census, *Construction Reports*, series C30, *Value of New Construction Put in Place*.

**Source and Title:** U.S. Bureau of the Census, *Census of Housing*

**Tables:** 1283, 1284, and 1288.

**Universe, Frequency, and Types of Data:** Census of all occupied and vacant housing, excluding group quarters, conducted every 10 years as part of the decennial census (see section 1 above) to determine characteristics of U.S. housing.

**Type of Data Collection Operation:** For 1970, 1980, and 1990, a complete count of some housing items (e.g. Owned or rented, and value). In 1970, other items collected from 5% and 15% probability samples selected from two sets of detailed questions on housing (these two sets having some common items). In 1980, approximately 19% of the housing units were included in the sample; in 1990, approximately 17%.

**Data Collection and Imputation Procedures:** In 1970, a self-enumeration census using a mail-out/mail-back procedure was used in most areas. In 1980 and 1990, mail questionnaires were used in even more areas than in 1970, with personal interviews in the remainder. Followup for nonrespondents and identification of vacant units done by phone and personal visit.

**Estimates of Sampling Error:** Sampling errors for data are estimated for all items collected by sample and vary by characteristic and geographic area.

**Other (nonsampling) Errors:** Evaluation studies for 1980 estimated the underenumeration of occupied housing units at 1.5%. The missed rate in 1980 for all units was 2.6% or approximately 2.3 million units, 1 million of which were vacant housing units.

**Sources of Additional Material:** U.S. Bureau of the Census, *1980 Census of Population and Housing, The Coverage of Housing in the 1980 Census*, PHC80-E1, July 1985.

**Source and Title:** U.S. Bureau of the Census, *American Housing Survey*

**Tables:** See tables citing *American Housing Survey* in source notes.

**Universe, Frequency, and Types of Data:** Conducted nationally in the fall in odd numbered years to obtain data on the approximately 103 million occupied or vacant housing units in the U.S. (group quarters are excluded). Data include characteristics of occupied housing units, vacant units, new housing and mobile home units, financial characteristics, recent mover households, housing and neighborhood quality indicators, and energy characteristics.

**Type of Data Collection Operation:** The national sample was a multistage probability sample with about 51,300 units eligible for interview in 1987. Sample units, selected within 394 PSU's, were surveyed over a 5-month period.

**Data Collection and Imputation Procedures:** For 1987, the survey was conducted by personal interviews. The interviewers obtained the information from the occupants or, if the unit was vacant, from informed persons such as landlords, rental agents, or knowledgeable neighbors.

**Estimates of Sampling Error:** For the national sample, illustrations of the S.E. of the estimates are provided in the appendix B of the 1987 report. As an example, the estimated CV is about .5% for the estimated percentage of owner occupied units with 2 persons.

**Other (nonsampling) Errors:** Response rate was about 97%. Nonsampling errors may result from incorrect or incomplete responses, errors in coding and recording, and processing errors. For the 1985 national sample, approximately 6% of the total housing inventory was not adequately represented by the AHS sample.

**Sources of Additional Material:** U.S. Bureau of the Census, *Current Housing Reports*, series H-150 and H-170, *American Housing Survey*.

(See section 1 above for information pertaining to the Census of Population, section 15 pertaining to table 1260, and section 19 for table 1289.)

## Section 27. MANUFACTURES

**Source and Title:** U.S. Bureau of the Census, *Census of Manufactures*

**Tables:** See tables citing *Census of Manufactures* in source notes in section 27 and also table 931 in section 18 and tables 1427 and 1431 in section 30.

**Universe, Frequency, and Types of Data:** Conducted every five years to obtain information on labor materials, capital input and output characteristics, plant location, and legal form of organization for all plants in the United States with one or more employees. Universe was 350,000 manufacturing establishments in 1987.

**Type of Data Collection Operation:** Complete enumeration of data items obtained from 200,000 firms. Administrative records from Internal Revenue Service and Social Security Administration are used for 150,000 smaller single-location firms, which were determined by various cutoffs based on size and industry.

**Data Collection and Imputation Procedures:** Five mail and telephone followups for larger nonrespondents. Data for small single-location firms (generally those with fewer than 10 employees) not mailed census questionnaires were estimated from administrative records of IRS and SSA. Data for nonrespondents were imputed from related responses or administrative records from IRS and SSA. Approximately 8% of total value of shipments was represented by fully imputed records in 1987.

**Estimates of Sampling Error:** Not applicable.

**Other (nonsampling) Errors:** Based on evaluation studies, estimates of nonsampling errors for 1972 were about 1.3% for estimated total payroll; 2% for total employment; and 1% for value of shipments. Estimates for later years are not available.

**Sources of Additional Material:** U.S. Bureau of the Census, *1987 Census of Manufactures, Industry Series, Geographic Area Series, and Subject Series*.

**Source and Title:** U.S. Bureau of the Census, *Annual Survey of Manufactures*

**Tables:** See tables citing *Annual Survey of Manufactures* in source notes.

**Universe, Frequency, and Types of Data:** Conducted annually to provide basic measures of manufacturing activity for intercensal years for all manufacturing establishments having one or more paid employees.

**Type of Data Collection Operation:** Sampling frame is 350,000 establishments in the 1987 Census of Manufactures (see above), supplemented by Social Security Administration lists of new manufacturers and new manufacturing establishments of multi-establishment companies identified annually by the Census Bureau's Company Organization Survey. A probability sample of 56,000 establishments is selected. All establishments of companies with more than \$500 million of manufacturing shipments in 1982 are included with certainty. All establishments with 250+ employees are also included with certainty along with a probability sample of smaller establishments.

**Data Collection and Imputation Procedures:** Survey is conducted by mail with phone and mail followups of nonrespondents. Imputation (for all nonresponse items) is based on previous year reports, or for new establishments in survey, on industry averages.

**Estimates of Sampling Error:** Estimated CV's for number of employees, new expenditure, and for value added totals are given in annual publications. For U.S. level industry statistics, most estimated CV's are 2% or less, but vary considerably for detailed characteristics.

**Other (nonsampling) Errors:** Response rate is about 85%. Nonsampling errors include those due to collection, reporting, and transcription errors, many of which are corrected through computer and clerical checks.

**Sources of Additional Material:** U.S. Bureau of the Census, *Annual Survey of Manufactures*, and Technical Paper 24.

#### Section 28. DOMESTIC TRADE AND SERVICES

**Source and Title:** U.S. Bureau of the Census, *Census of Wholesale Trade, Census of Retail Trade, Census of Service Industries*

**Tables:** See tables citing the above censuses in source notes in section 28 and tables 408 and 409 in section 7 and tables 1425, 1426, and 1431 in section 30.

**Universe, Frequency, and Types of Data:** Conducted every five years to obtain data on number of establishments, number of employees, total payroll size, total sales, and other industry-specific statistics. In 1982, universe was all employer establishments primarily engaged in wholesale trade, and employer and nonemployer establishments in retail trade or service industries. Currently for 1987, data are available for establishments with payroll for retail trade, wholesale trade, and services.

**Type of Data Collection Operation:** All wholesale firms with paid employees surveyed; all retail and service large employer firms surveyed (i.e. all employer firms above the payroll size cutoff established to separate large from small employers) plus a 10-percent sample of smaller employer firms. Firms with no employees were not required to file a census return.

**Data Collection and Imputation Procedures:** Mail questionnaire is utilized with both mail and telephone followups for nonrespondents. Data for nonrespondents and "nonselected" small employer firms in retail trade and service industries are obtained from administrative records of IRS and the Social Security Administration.

**Estimates of Sampling Error:** Not applicable.

**Other (nonsampling) Errors:** Response rate in 1987 of 80% for single establishment firms; 83% for multi-establishment firms. Item response ranged from 60% to 90% with higher rates for less detailed questions.

**Sources of Additional Material:** U.S. Bureau of the Census, Appendix A of *Census of Retail Trade; Census of Service Industries; Census of Wholesale Trade; and History of the 1982 Economic Censuses*, February 1987.

**Source and Title:** U.S. Bureau of the Census, *Current Business Surveys*

**Tables:** 1355-1358, 1373, 1380, 1381, and table 1022 in section 21.

**Universe, Frequency, and Types of Data:** Provides monthly estimates of retail sales by kind of business and geographic area, and end-of-month inventories of retail stores; wholesale sales and end-of-month inventories; and annual receipts of selected service industries.

**Type of Data Collection Operation:** Probability sample of all firms from a list frame and, additionally, for retail and service an area frame. The list frame is the Bureau's Standard Statistical Establishment List (SSEL) updated quarterly for recent birth Employer Identification (EI) Numbers issued by the Internal Revenue Service and assigned a kind-of-business code by the Social Security Administration. The largest firms are included monthly; a sample of others is included every three months on a rotating basis. The area frame covers businesses not subjected to sampling on the list frame.

**Data Collection and Imputation Procedures:** Data are collected by mail questionnaire with telephone followups for nonrespondents. Imputation made for each nonresponse item and each item failing edit checks.

**Estimates of Sampling Error:** For the 1989 monthly surveys, CV's are about .6% for estimated total retail sales, 1.7% for wholesale sales, 1.3% for wholesale inventories. For dollar volume of receipts, CV's from the *Service Annual Survey* vary by kind of business and range between 1.5% to 15.0%. Sampling errors are shown in monthly publications.

**Other (nonsampling) Errors:** Imputation rates are about 18% to 23% for monthly retail sales, 20% to 25% for wholesale sales, about 25% to 30% for monthly wholesale inventories and 14% for the *Service Annual Survey*.

**Sources of Additional Material:** U.S. Bureau of the Census, *Current Business Reports, Monthly Retail Trade, Monthly Wholesale Trade, and Service Annual Survey*.

#### Section 30. OUTLYING AREAS

(See section 2 for information pertaining to table 1417, section 22 for table 1429, section 27 for tables 1427 and 1431 and section 28 for tables 1425 and 1426.)



# Appendix IV Index to Tables Having Historical Statistics, Colonial Times to 1970 Series

[The most recent historical supplement to the *Statistical Abstract* is the bicentennial edition, *Historical Statistics of the United States, Colonial Times to 1970* (see inside back cover). Listed below are statistical time series (identified by number) appearing in this edition, for which tables in the *Statistical Abstract* present comparable figures. Historical series are listed only where related or comparable data are available for one or more years later than 1970. In a few instances, it may be necessary to combine figures shown in the *Abstract* to obtain totals comparable to the series shown in *Historical Statistics*]

Historical Statistics series	1991 Abstract table number	Historical Statistics series	1991 Abstract table number	Historical Statistics series	1991 Abstract table number	Historical Statistics series	1991 Abstract table number
<b>A</b>		<b>C—Con.</b>		<b>H—Con.</b>		<b>K</b>	
A 6-8. . . . .	2	C 144 . . . . .	312	H 305-317 . . . . .	603	K 1-2. . . . .	1106
A 23-25. . . . .	13	C 149-157 . . . . .	424	H 332-345 . . . . .	604	K 4-7. . . . .	1109
A 29-41. . . . .	13	C 158-160 . . . . .	312	H 346-354 . . . . .	613	K 16. . . . .	1123
A 119-134. . . . .	22	C 296-331 . . . . .	422	H 355-367 . . . . .	612	K 82-113 . . . . .	1114
A 143-149 . . . . .	19			H 392-397 . . . . .	608	K 142-146 . . . . .	1112
A 156-159 . . . . .	85			H 398-411 . . . . .	627	K 162-173 . . . . .	1111
A 158-159 . . . . .	128	<b>D</b>		H 421-429 . . . . .	214	K 174-176 . . . . .	1106
A 160-171 . . . . .	50			H 442-476 . . . . .	222	K 184-191 . . . . .	1142
A 172. . . . .	26	D 11-19. . . . .	635	H 513-519 . . . . .	216	K 192. . . . .	1130
A 195-198 . . . . .	26	D 29-41. . . . .	638	H 535-544 . . . . .	250	K 195-203 . . . . .	1140
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A 210-263 . . . . .	347	D 49-62. . . . .	642	H 602-617 . . . . .	224	K 251-255 . . . . .	1150
A 264-275 . . . . .	33	D 85-86. . . . .	635	H 690-692 . . . . .	266	K 259-260 . . . . .	1130
A 288-319 . . . . .	56	D 87-101 . . . . .	659	H 699-705 . . . . .	265	K 264-285 . . . . .	1130
A 320-334 . . . . .	58	D 116-126 . . . . .	648	H 705 . . . . .	266	K 286-302 . . . . .	1131
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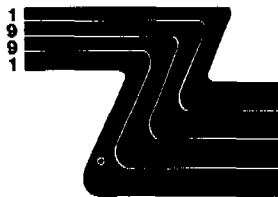


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