

Yearbook of Statistics Singapore 2017



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The "Yearbook of Statistics Singapore 2017" is the fiftieth edition of an annual flagship publication by the Singapore Department of Statistics (DOS). It provides a comprehensive and current statistical record of the key socio-demographic and economic characteristics of Singapore. Through this publication, users are able to gain a snapshot of the Singapore economy and population based on the latest available information.

Improvements are continually made to the Yearbook to enhance its value to users. New data series on topics of interest are added as and when appropriate. The Yearbook currently contains 272 tables organised into 27 chapters.

In addition to the Yearbook, the Department disseminates official statistics on Singapore through a range of electronic and mobile services. These include the Statistics Singapore website, SingStat mobile application and SingStat Express. Users may download softcopies of statistical publications via the SingStat website for free. For users with specific data requirements, the Department's Statistical Information Services offer personalised assistance on a cost-recovery basis.

The data series in the Yearbook are compiled by DOS as well as other government ministries and departments, statutory boards and private organisations. I would like to extend my deep appreciation to all the organisations that have contributed to the success of this publication. I look forward to your continued readership and support.

Wong Wee Kim Chief Statistician Singapore

Aug 2017

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NOTATIONS

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The Yearbook of Statistics contains statistics that are the most recent available at the time of its preparation.

Numbers may not add up to the totals due to rounding.

Some statistics, particularly those for the most recent time periods, are provisional and may be subject to revision in later issues.

Values are shown in Singapore dollars (unless otherwise stated).

Notes on Changes & Revisions

To maintain currency and relevance of the Yearbook of Statistics Singapore, new series are added and existing series are replaced. In this edition, changes have been incorporated in the following tables:

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| Table 23.1 | Health Facilities |
| Table 23.3 | Hospital Admissions and Public Sector Outpatient |
| | Attendances |
| Table 23.4 | Hospital Admission Rate and Age |

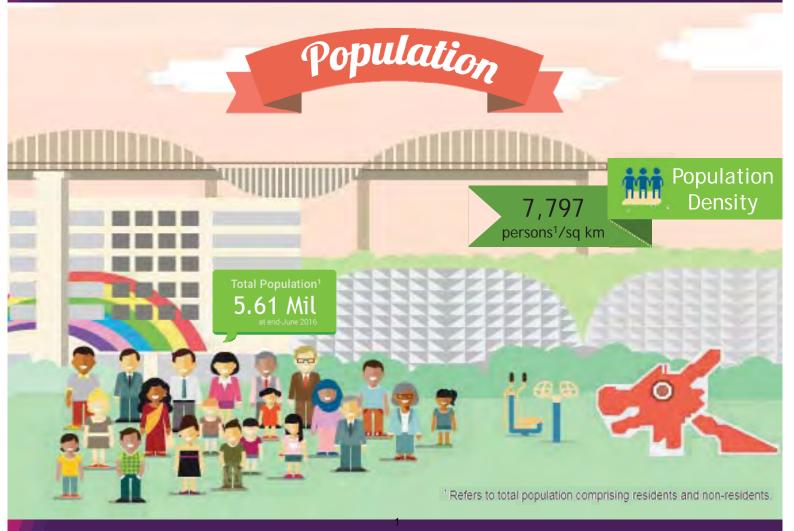


Selected data series have been discontinued in the following tables:

| Table 13.1 | Available and Vacant Private Residential Properties |
|------------|-----------------------------------------------------|
| Table 21.3 | Price Indices of Selected Consumer Items |
| Table 21.4 | Average Retail Prices of Selected Consumer Items |
| Table 23.6 | Visits to Public Sector Dental Clinics |



Find out more at http://www.singstat.gov.sg/statistics/visualising-data/infographics/economy





Climate and Air Quality

1

Climate and Air Quality





The Republic of Singapore is located between latitudes 1° 09'N and 1° 29' N and longitudes 103° 36' E and 104° 25' E.

The land area of Singapore is approximately 719.2 square kilometres as at end June 2016. This area comprises the mainland and other islands. The mainland measures 49 kilometres from east to west and 25 kilometres from north to south with a coastline of 197 kilometres. The figures are based on 2.515m High Water Mark cadastral survey boundaries.



Singapore can be geographically divided into three major areas — the central hilly area with heavy deposits of granite in Bukit Timah, Bukit Panjang, Bukit Mandai and Bukit Batok; the western undulating area comprising Mount Faber Ridge and Pasir Panjang Ridge; and the eastern coastal area consisting of alluvium and sediment stretches from Katong to Bedok and Changi.

Climate 6



Singapore is situated near the equator and has a tropical climate, with abundant rainfall, high and uniform temperatures, and high humidity all year round. The average daily maximum and minimum temperatures are around 31°C 31°C and 24°C respectively.

The relative humidity is usually around 60 per cent on dry afternoons but frequently exceeds 90 per cent in the early hours of the morning before sunrise. Although rain falls throughout the year, the wettest months are usually during the first part of the Northeast Monsoon season from November to January.

The drier months are normally between April and September; however widespread heavy rain and gusty winds associated with Sumatra squalls typically occur during this time of the year.

Air Pollution



The ambient air quality in Singapore is monitored by the National Environment Agency (NEA) through the Telemetric Air Quality Monitoring and Management System. The system comprises remote air monitoring stations linked to a Data Management System via dial-up telephone lines or wireless modems.

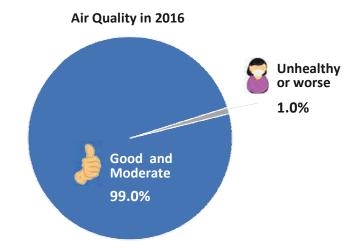
Automatic analysers and equipment are deployed at the stations to measure the concentrations of major air pollutants such as Sulphur Dioxide (SO_2), Oxides of Nitrogen (NO_x), Carbon Monoxide (CO), Ozone (O_3) and Particulate Matter (PM_{10} and $PM_{2.5}$).

NEA also reports the Pollutant Standards Index (PSI) which is computed from the concentration of Sulphur Dioxide (SO_2), Particulate Matter (PM_{10} and $PM_{2.5}$), Nitrogen Dioxide (NO_2), Carbon Monoxide (CO) and Ozone (O_3). Based on the PSI, the air quality is described as 'Good', 'Moderate', 'Unhealthy', 'Very unhealthy' or 'Hazardous'.

Climate and Air Quality •

Air quality in 2016 was significantly better than in 2015, the year in which Singapore was affected by severe transboundary smoke haze. In 2016, the air quality was 'Good' and 'Moderate' 99.0 per cent of the time, and 'Unhealthy' or worse 1.0 per cent of the time. The latter was caused by a period of slight transboundary smoke haze in August.

An annual summary of Singapore's air quality is available in the "Environmental Protection Division Annual Report", published by the NEA.



1.1 AIR TEMPERATURE AND SUNSHINE

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-----------------------------------|------|------|------|------|------|------|------|
| Air Temperature in Degree Celsius | | | | | | | |
| Means | | | | | | | |
| Daily Maximum | 31.9 | 31.2 | 31.2 | 31.3 | 31.6 | 31.9 | 32.0 |
| Daily Minimum | 24.9 | 24.7 | 25.0 | 25.0 | 25.3 | 25.8 | 25.8 |
| Absolute Extremes | | | | | | | |
| Maximum | 35.5 | 35.3 | 33.7 | 35.2 | 34.5 | 34.4 | 35.0 |
| Minimum | 21.7 | 21.4 | 21.1 | 20.9 | 21.1 | 21.9 | 21.6 |
| Bright Sunshine | | | | | | | |
| Daily Mean Hours | 5.7 | 5.6 | 5.5 | 5.4 | 6.0 | 6.2 | 6.0 |
| | | | | | | | |

Source: National Environment Agency

Notes: Data are from designated climate station located at Changi, Singapore.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2854

1.2 RELATIVE HUMIDITY AND RAINFALL

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|---------------------------------|----------|---------|---------|---------|---------|---------|---------|---------|
| Minimum Relative Humidity | Per Cent | 43 | 41 | 48 | 36 | 37 | 35 | 33 |
| 24 Hours Mean Relative Humidity | Per Cent | 82.9 | 84.6 | 83.5 | 81.7 | 78.5 | 76.9 | 76.0 |
| Rainfall | | | | | | | | |
| Total | mm | 2,075.1 | 2,524.2 | 2,159.9 | 2,748.4 | 1,538.4 | 1,266.8 | 1,955.7 |
| Maximum in a Day | mm | 121.1 | 216.2 | 92.3 | 139.8 | 64.4 | 63.2 | 75.4 |
| Rainy Days | No. | 178 | 188 | 191 | 206 | 152 | 125 | 179 |

Source: National Environment Agency

Notes: Data are from designated climate station located at Changi, Singapore.

 $Download\ time\ series\ at\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2854$

1.3 AIR POLLUTION LEVELS

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-----------------------------------------|-------------------|------|------|------|------|------|------|------|
| Sulphur Dioxide | | | | | | | | |
| Annual mean | μg/m³ | 11 | 10 | 13 | 14 | 12 | 12 | 13 |
| Maximum 24-hour mean | μg/m³ | 104 | 80 | 98 | 75 | 83 | 75 | 61 |
| Nitrogen Dioxide | | | | | | | | |
| Annual mean | μg/m³ | 23 | 25 | 25 | 25 | 24 | 22 | 26 |
| Maximum 1-hour mean | μg/m³ | 153 | 189 | 154 | 132 | 121 | 99 | 123 |
| Particulate Matter (PM ₁₀) | . 2 | | | | | | | |
| Annual mean | μg/m³ | 26 | 27 | 29 | 31 | 30 | 37 | 26 |
| 99th percentile 24-hour mean | μg/m³ | 76 | 55 | 57 | 215 | 75 | 186 | 61 |
| Particulate Matter (PM _{2.5}) | | | | | | | | |
| Annual mean | μg/m³ | 17 | 17 | 19 | 20 | 18 | 24 | 15 |
| 99th percentile 24-hour mean | μg/m³ | 56 | 41 | 42 | 176 | 51 | 145 | 40 |
| Carbon Monoxide | | | | | | | | |
| Maximum 8-hour mean | mg/m ³ | 2.4 | 2.0 | 1.9 | 5.5 | 1.8 | 3.3 | 2.2 |
| Maximum 1-hour mean | mg/m ³ | 2.8 | 2.6 | 2.4 | 7.5 | 2.7 | 3.5 | 2.7 |
| Ozone Maximum 8-hour mean | μg/m³ | 139 | 123 | 122 | 139 | 135 | 152 | 115 |
| iviaxiffiuffi 8-fi0uf ffiedfi | μg/111 | 133 | 123 | 122 | 133 | 133 | 132 | 113 |

Source: National Environment Agency

Notes: Singapore's Air Quality Targets by 2020

Singapore Sustainable Blueprint Target: Sulphur Dioxide \leq 15 $\mu g/m^3$ (annual mean)

World Health Organisation (WHO) Interim Target-2: Sulphur Dioxide ≤ 50 μg/m³ (24-hour mean)

WHO Air Quality Guideline: Nitrogen Dioxide ≤ 40 µg/m³ (annual mean)

 \leq 200 µg/m³ (1-hour mean)

WHO Air Quality Guideline: PM_{10} (Particulate Matter ≤ 10 microns) $\leq 20 \,\mu\text{g/m}^3$ (annual mean)

≤ 50 µg/m³ (99th Percentile 24-hour mean)

Singapore Sustainable Blueprint Target: $PM_{2.5}$ (Particulate Matter ≤ 2.5 microns) $\leq 12 \mu g/m^3$ (annual mean)

WHO Interim Target-3: $PM_{2.5}$ (Particulate Matter \leq 2.5 microns) \leq 37.5 $\mu g/m^3$ (99th Percentile 24-hour mean)

WHO Air Quality Guideline: Carbon Monoxide ≤ 10 mg/m³ (8-hour mean)

 \leq 30 mg/m³ (1-hour mean)

WHO Air Quality Guideline: Ozone ≤ 100 µg/m³ (Maximum 8-hour mean)

 PM_{10} , $PM_{2.5}$ and Carbon Monoxide levels in 2013 and 2015 were severely affected by transboundary smoke haze from overseas land and forest fires.

 $Download\ time\ series\ at\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=1730$

Population



2

Population



Population Census



Singapore's first census was undertaken in April 1871. Regular censuses were undertaken at ten-year intervals up to 1931. The Second World War delayed the next census until 1947. In the pre-war censuses, Singapore was included as part of the Straits Settlements and later as part of Malaya. Separate censuses for Singapore carried out since 1947. The were first post-independence census was conducted in 1970. Subsequently, censuses were undertaken at ten-year intervals in 1980, 1990, 2000 and 2010.

In the 1990 and earlier censuses, the population comprised Singapore citizens and permanent residents who were present and enumerated in Singapore on Census Day. Singapore citizens and permanent residents who were away for short periods of time during the census, as well as non-residents staying or working in Singapore were also included.

From the 2000 census onwards, the de jure concept for Singapore's population estimates based on a person's place of usual residence was adopted. Under this concept, Singapore residents (comprising Singapore citizens and permanent residents) with local addresses were included in the total population count. The non-resident population, comprising foreigners who were working, studying or living in Singapore but not granted permanent residence, was also included in the total population count. The transient population such as tourists and short-term visitors was excluded. For the 2010 census, Singapore residents who were away from Singapore for a continuous period of 12 months or longer were also excluded.

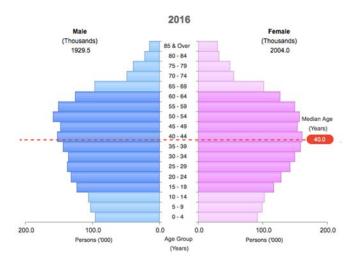
Singapore conducted the first mid-decade mini-census (General Household Survey) in 1995. Subsequent General Household Surveys were conducted in 2005 and 2015.

Register-based Population Estimates



Singapore's mid-year population estimates have been compiled using the register-based approach since 2000, where the basic count and profile of the population are based on a person's place of usual residence i.e. de jure concept. The total population comprises Singapore residents (i.e. Singapore citizens and permanent residents) and non-residents. From 2003 onwards, Singapore residents who were away for a continuous period of 12 months or longer were excluded.

Age Pyramid of Resident Population, end-June 2016



Births and Deaths

The Registration of Births and Deaths Act (Cap 267) specifies that a birth must be registered within 42 days of the date of birth. Births registered after 42 days from occurrence are classified as late registrations. A birth registration after one year from the date of birth can only be effected with the written authority of the Registrar-General of Births and Deaths. Under the same Act, a death must be registered within three days of its occurrence. Still-births, which are

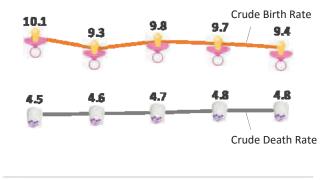
classified separately from births and deaths, must be registered within 14 days of their occurrence.

Registration facilities for births and deaths are available at the Registry of Births and Deaths (RBD) and at designated government hospitals. Deaths and still-births can also be registered at nearest Police Divisional Headquarter, the Neighbourhood Police Centre or Neighbourhood Police Post. The registration system comprehensive and the records of birth and death statistics are virtually complete.

Measures of natality and mortality include the crude birth and crude death rates. From 1980 onwards, these are respectively defined as the number of live-births and deaths of Singapore residents, per thousand mid-year resident population.

Crude Birth Rate and Crude Death Rate

(per 1,000 residents)



2012 2013 2014 2015 2016

Marriages 🧂



Registration of marriages is compulsory in Singapore. Civil marriages are marriages registered under the Women's Charter, 1961. Notices of such marriages have to be lodged with the Registrar of Marriages regardless of the venue of solemnisation.

Registration of Muslim marriages in Singapore became compulsory from 1 July 1909 when the Mohammadan Marriage Ordinance, 1908 (Ordinance No.XXV of 1908) was enacted. This Ordinance was subsequently repealed and

replaced by the Administration of Muslim Law Act, 1966.

Total Marriages, 2016



Divorces and Annulments



Statistics on divorces and annulments under the Women's Charter are obtained from records maintained by the Family Justice Courts.

For divorces under the Administration of Muslim Law Act, statistics are obtained from the register of divorces kept by the Syariah Court. The records on revocation of divorces are obtained from the Registry of Muslim Marriages.

Time-dependent variables, such as the duration of marriage and age of divorcees, are based on the date when Interim Judgment was made final for civil divorces, and the date of registration for Muslim divorces.

Total Divorces and Annulments Registered, 2016



Definitions



Age-specific fertility rate: Refers to the number of live-births to females in a particular age group, per thousand females in that age group during the period.

Total fertility rate (TFR): Refers to the average number of live-births each female would have during her reproductive years if she were to experience the age-specific fertility rates prevailing during the period. It is derived by aggregating the age-specific fertility rates of

females in each of the reproductive ages for a specific year.

Gross reproduction rate: Refers to the average number of daughters each female would have during her reproductive years if she were to experience the age-specific fertility rates prevailing during the period.

Net reproduction rate: Refers to the average number of daughters each female would have during her reproductive years if she were to experience the age-specific fertility and mortality rates prevailing during the period. It is a refinement of the gross reproduction rate, and is also the measure of replacement of population.

Life expectancy: Refers to the average number of additional years which a person at a specific age (such as at birth or at age 65 years) might expect to live, if he or she were to experience the age-specific mortality rates of the reference period throughout his or her lifetime.

Age-specific marriage rate: Refers to the number of marriages registered within a specific age group during the year, out of every thousand unmarried population in the same age group.

Age-specific divorce rate: Refers to the number of divorces and annulments granted within a specific age group during the year, out of every thousand married population in the same age group.

General marriage rate: Refers to the number of marriages registered among persons aged 15-49 years during the year, out of every thousand unmarried population in the same age group.

General divorce rate: Refers to the number of divorces and annulments granted to married persons aged 20 years and over during the year, out of every thousand married population in the same age group.

Other References



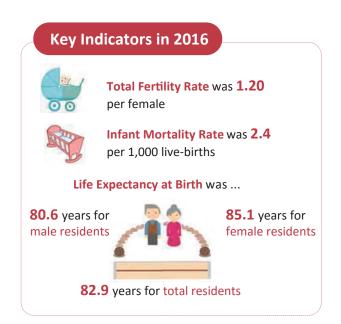
Statistics on births and deaths are compiled and published quarterly in the

"Singapore Demographic Bulletin" produced by RBD. RBD also publishes the annual "Report on Registration of Births and Deaths", which provides the demographic and socio-economic characteristics of parents and characteristics of births, detailed causes of death, together with statistical tables and charts.

Complete life tables and key trends in life expectancies for the Singapore resident population are available in the annual statistical report "Complete Life Tables for Singapore Resident Population" published by the Singapore Department of Statistics (DOS).

Annual data on marriages and divorces are available in the report "Statistics on Marriages and Divorces" published by DOS. This publication analyses annual marriage trends and the socio-economic characteristics of grooms and brides, as well as provides insights into the nature of divorces and the socio-economic characteristics of divorcees.

Demographic statistics are available in the annual report "Population Trends" published by DOS. The publication comprises five sections, namely, 'Population', 'Households and Housing', 'Family Formation and Dissolution', 'Fertility' and 'Mortality'. Statistical analyses of Singapore's changing population profiles can also be found in the publication.



2.1 SINGAPORE POPULATION SIZE AND GROWTH BY RESIDENTIAL STATUS

| | | | Singapore Residents | | |
|---------------|-------------------------------|------------------|-------------------------------------|-------------------------------------|---------------|
| Year | Total Population ¹ | Total | Singapore Citizens | Singapore Permanent Residents | Non-Residents |
| | | | Number as at end-June | | |
| 1000 (Consus) | 2.047.122 | 2 725 000 | 2 (22 726 | 112 122 | 211 264 |
| 1990 (Census) | 3,047,132 | 2,735,868 | 2,623,736 | 112,132 | 311,264 |
| 2000 (Census) | 4,027,887 | 3,273,363 | 2,985,886 | 287,477 | 754,524 |
| 2010 (Census) | 5,076,732 | 3,771,721 | 3,230,719 | 541,002 | 1,305,011 |
| 2011 | 5,183,688 | 3,789,251 | 3,257,228 | 532,023 | 1,394,437 |
| 2012 | 5,312,437 | 3,818,205 | 3,285,140 | 533,065 | 1,494,232 |
| 2013 | 5,399,162 | 3,844,751 | 3,313,507 | 531,244 | 1,554,411 |
| 2014 | 5,469,724 | 3,870,739 | 3,343,030 | 527,709 | 1,598,985 |
| 2015 | 5,535,002 | 3,902,690 | 3,375,023 | 527,667 | 1,632,312 |
| 2016 | 5,607,283 | 3,933,559 | 3,408,943 | 524,616 | 1,673,724 |
| | | Aver | age Annual Growth ² (Per | Cent) | |
| 1990 (Census) | 2.3 3 | 1.7 ³ | 1.73 | 2.3 3 | 9.0 |
| 2000 (Census) | 2.8 | 1.8 | 1.3 | 9.9 | 9.3 |
| 2010 (Census) | 1.8 | 1.0 | 0.9 | 1.5 | 4.1 |
| 2011 | 2.1 | 0.5 | 0.8 | -1.7 | 6.9 |
| 2012 | 2.5 | 0.8 | 0.9 | 0.2 | 7.2 |
| 2013 | 1.6 | 0.7 | 0.9 | -0.3 | 4.0 |
| 2014 | 1.3 | 0.7 | 0.9 | -0.7 | 2.9 |
| 2015 | 1.2 | 0.8 | 1.0 | - | 2.1 |
| 2016 | 1.3 | 0.8 | 1.0 | -0.6 | 2.5 |

Notes: Data from 1990 onwards are based on de jure concept. Data from 2000 onwards are based on the register-based approach.

Data from 2003 onwards exclude residents who have been away from Singapore for a continuous period of 12 months or longer as at the reference period.

- 1 Total population comprises Singapore residents and non-residents. Resident population comprises Singapore citizens and permanent residents. Non-resident population comprises foreigners who were working, studying or living in Singapore but not granted permanent residence, excluding tourists and short-term visitors.
- 2 For 1990 and 2000, growth rate refers to the annualised change over the last ten years. From 2010 onwards, growth rate refers to the change over the previous year.
- 3 The growth rate is computed using population estimates based on de facto concept (i.e. the person is present in the country when enumerated at the reference period).

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=1347

2.2 VITAL RATES

| Year | Rate of Natural Increase | Crude Birth Rate | Crude Death Rate | Age- Standardised Death Rate ¹ | Infant Mortality Rate | Total Fertility Rate | Gross Re- production Rate | Net Re- production Rate |
|------|--------------------------------|------------------------|------------------------|-------------------------------------------------|-----------------------------|----------------------------|---------------------------------|-------------------------------|
| | | Per 1,000 | Population | | Per 1,000 Live-births | | Per Female | |
| 1960 | 31.3 | 37.5 | 6.2 | 10.8 | 34.9 | 5.76 | 2.78 | 2.54 |
| 1965 | 24.1 | 29.5 | 5.4 | 10.4 | 26.3 | 4.66 | 2.27 | 2.08 |
| 1970 | 17.0 | 22.1 | 5.2 | 9.1 | 20.5 | 3.07 | 1.49 | 1.42 |
| 1975 | 12.6 | 17.7 | 5.1 | 8.4 | 13.9 | 2.07 | 1.00 | 0.97 |
| 1980 | 12.7 | 17.6 | 4.9 | 7.5 | 8.0 | 1.82 | 0.88 | 0.86 |
| 1985 | 11.7 | 16.6 | 4.9 | 6.7 | 7.6 | 1.61 | 0.78 | 0.76 |
| 1990 | 13.5 | 18.2 | 4.7 | 5.9 | 6.6 | 1.83 | 0.88 | 0.87 |
| 1995 | 10.8 | 15.6 | 4.8 | 5.5 | 3.8 | 1.67 | 0.80 | 0.80 |
| 2000 | 9.2 | 13.7 | 4.5 | 4.8 | 2.5 | 1.60 | 0.77 | 0.76 |
| 2005 | 5.8 | 10.2 | 4.4 | 4.1 | 2.1 | 1.26 | 0.61 | 0.61 |
| 2006 | 5.9 | 10.3 | 4.4 | 4.0 | 2.6 | 1.28 | 0.62 | 0.61 |
| 2007 | 5.9 | 10.3 | 4.5 | 3.9 | 2.1 | 1.29 | 0.62 | 0.62 |
| 2008 | 5.8 | 10.2 | 4.4 | 3.8 | 2.1 | 1.28 | 0.62 | 0.62 |
| 2009 | 5.6 | 9.9 | 4.3 | 3.6 | 2.2 | 1.22 | 0.59 | 0.59 |
| 2010 | 4.9 | 9.3 | 4.4 | 3.5 | 2.0 | 1.15 | 0.56 | 0.55 |
| 2011 | 5.1 | 9.5 | 4.5 | 3.4 | 2.0 | 1.20 | 0.58 | 0.58 |
| 2012 | 5.6 | 10.1 | 4.5 | 3.3 | 1.8 | 1.29 | 0.62 | 0.62 |
| 2013 | 4.6 | 9.3 | 4.6 | 3.3 | 2.0 | 1.19 | 0.57 | 0.57 |
| 2014 | 5.1 | 9.8 | 4.7 | 3.2 | 1.8 | 1.25 | 0.61 | 0.60 |
| 2015 | 4.9 | 9.7 | 4.8 | 3.1 | 1.7 | 1.24 | 0.60 | 0.60 |
| 2016 | 4.6 | 9.4 | 4.8 | 3.0 | 2.4 | 1.20 | 0.58 | 0.58 |

Notes: Figures prior to 1980 pertain to total population which comprises the resident and non-resident population. From 1980, figures pertain to Singapore resident population (i.e. Singapore citizens and permanent residents).

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=1347 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=3624 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=3733

¹ The Singapore resident population as at end-June 2003 is used as the standard population which is chosen to fix the age structure to eliminate its effect on mortality trends.

2.3

SINGAPORE RESIDENTS BY AGE GROUP AND SEX, END-JUNE Number Age Group (Years) 2010 2011 2012 2013 2014 2015 2016 Males Total 1.861.133 1,868,170 1,880,046 1,891,504 1,902,410 1,916,628 1,929,526 0 - 498,890 95,885 94,924 93,520 92,528 93,852 95,678 5 - 9 110,215 106,047 105,033 104,586 104,588 103,861 102,426 10 - 14 125,271 123,438 119,697 116,000 112,959 109,401 105,589 15 - 19 134,003 132,579 132,106 129,989 126,514 124,287 122,911 20 - 24 123,942 128,245 132,675 134,034 132,902 133,493 132,046 25 - 29 131.299 127.132 123.056 124.013 129,304 132.504 137.243 30 - 34 143,048 141,947 140,686 141,262 138,954 137,847 135,596 35 - 39 156,318 154,097 147,408 144,959 143,795 143,553 152,252 40 - 44 152,995 150,678 151,213 152,691 154,320 154,460 152,466 45 - 49 163,237 163,002 161,122 158,312 153,194 149,607 147,517 50 - 54 152,721 155,424 156,561 157,789 158,734 158,465 158,202 55 - 59 124,822 130,717 136,379 140,813 144,316 147,860 150,315 60 - 64 94.796 102,799 105,781 110,241 115,217 119.660 125.130 54,115 70,525 96,349 65 - 6953,321 62.372 78,285 88.697 42,887 70 - 74 46,135 47,890 47,779 48,691 48,663 49,438 75 - 79 28,214 29,123 29,715 31,164 33,753 36,126 38,976 80 - 84 15,532 16,558 17,496 18,572 19,515 20,932 21,884 10,249 14,954 85 & Over 9,622 11,088 11,922 12,930 14,002 Females Total 1,910,588 1,921,081 1,938,159 1,953,247 1,968,329 1,986,062 2,004,033 0 - 4 91,482 95,542 92,364 91,749 89,775 88,841 89,723 99,083 5 - 9 105,460 102,072 101,291 101,118 101,202 100,591 10 - 14 119,031 117,098 113,623 110,244 107,837 104,987 101,906 15 - 19 129.747 128,159 120,823 118,615 116,860 126,755 125,077 20 - 24 123,248 131,016 130,634 128,808 126,824 131,831 132,855 25 - 29 141,340 135,474 131,526 131,602 136,355 138,526 142,745 30 - 34 155,639 155,608 154,710 155,608 153,333 152,772 149,948 35 - 39 163,706 162,064 161,718 158,095 157,070 157,272 158,445 40 - 44 156,446 155,936 157,610 159,890 161,703 162,295 160,979 45 - 49 160,222 160,989 159,803 158,024 155.339 153.806 153.666 50 - 54 150,323 152,706 153,815 155,199 156,769 156,626 157,396 55 - 59 123,874 129,961 135,438 140,256 144,076 147,203 149,276 60 - 64 97,199 105,361 108,215 111,913 116,285 120,833 126,723 65 - 69 58,190 58,281 66,507 75,292 82,913 93,728 101,671 70 - 74 49,731 53,938 56,524 57,083 57,377 54,852 55,105 75 - 79 36,964 37,786 37,960 39,455 42,541 45,085 48,979

Notes: Singapore resident population comprises Singapore citizens and permanent residents.

24,307

19,619

80 - 84

85 & Over

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=315

25,587

20,873

27,627

24,134

28.903

25,946

30.853

27.661

31,672

29.289

26,619

22,465

2.4 SINGAPORE RESIDENTS BY AGE GROUP, ETHNIC GROUP AND SEX, END-JUNE 2016

| | | | | | | | | | Number |
|--------------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| Ethnic Group / Sex | Total | 0 - 4 | 5 - 9 | 10 - 14 | 15 - 19 | 20 - 24 | 25 - 29 | 30 - 34 | 35 - 39 |
| | | | | | | | | | |
| Total | 3,933,559 | 187,160 | 201,509 | 207,495 | 239,771 | 260,854 | 279,988 | 285,544 | 301,998 |
| Males | 1,929,526 | 95,678 | 102,426 | 105,589 | 122,911 | 132,046 | 137,243 | 135,596 | 143,553 |
| Females | 2,004,033 | 91,482 | 99,083 | 101,906 | 116,860 | 128,808 | 142,745 | 149,948 | 158,445 |
| Chinese | 2,923,172 | 130,177 | 135,257 | 137,225 | 165,774 | 184,609 | 204,843 | 208,889 | 220,701 |
| Males | 1,425,244 | 66,943 | 69,259 | 70,290 | 85,383 | 93,681 | 100,380 | 99,734 | 104,108 |
| Females | 1,497,928 | 63,234 | 65,998 | 66,935 | 80,391 | 90,928 | 104,463 | 109,155 | 116,593 |
| Malays | 525,888 | 33,088 | 31,706 | 35,267 | 42,750 | 47,798 | 46,239 | 38,943 | 30,939 |
| Males | 261,564 | 16,992 | 16,267 | 18,121 | 22,160 | 24,538 | 23,559 | 19,575 | 14,936 |
| Females | 264,324 | 16,096 | 15,439 | 17,146 | 20,590 | 23,260 | 22,680 | 19,368 | 16,003 |
| Indians | 356,876 | 17,312 | 25,415 | 25,676 | 22,939 | 22,438 | 22,787 | 27,781 | 35,342 |
| Males | 182,935 | 8,635 | 12,637 | 12,722 | 11,463 | 11,125 | 11,136 | 12,869 | 18,172 |
| Females | 173,941 | 8,677 | 12,778 | 12,954 | 11,476 | 11,313 | 11,651 | 14,912 | 17,170 |
| Others | 127,623 | 6,583 | 9,131 | 9,327 | 8,308 | 6,009 | 6,119 | 9,931 | 15,016 |
| Males | 59,783 | 3,108 | 4,263 | 4,456 | 3,905 | 2,702 | 2,168 | 3,418 | 6,337 |
| Females | 67,840 | 3,475 | 4,868 | 4,871 | 4,403 | 3,307 | 3,951 | 6,513 | 8,679 |
| | | | | | | | | | |

| Ethnic Group / Sex | 40 - 44 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | 75 - 79 | 80 - 84 | 85 & Over |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|
| Total | 313,445 | 201 102 | 215 500 | 299,591 | 251 052 | 109 020 | 102 706 | 97055 | 53,556 | 44 242 |
| | • | 301,183 | 315,598 | , | 251,853 | 198,020 | 103,796 | 87,955 | , | 44,243 |
| Males | 152,466 | 147,517 | 158,202 | 150,315 | 125,130 | 96,349 | 48,691 | 38,976 | 21,884 | 14,954 |
| Females | 160,979 | 153,666 | 157,396 | 149,276 | 126,723 | 101,671 | 55,105 | 48,979 | 31,672 | 29,289 |
| Chinese | 231,775 | 223,222 | 235,906 | 232,481 | 202,871 | 163,881 | 88,238 | 74,926 | 44,620 | 37,777 |
| Males | 110,080 | 106,909 | 117,173 | 115,891 | 100,764 | 79,855 | 41,479 | 33,270 | 18,180 | 11,865 |
| Females | 121,695 | 116,313 | 118,733 | 116,590 | 102,107 | 84,026 | 46,759 | 41,656 | 26,440 | 25,912 |
| Malays | 31,701 | 35,056 | 43,212 | 38,118 | 28,147 | 18,867 | 8,571 | 7,275 | 5,087 | 3,124 |
| Males | 15,354 | 16,950 | 21,342 | 18,982 | 13,619 | 8,838 | 3,806 | 3,217 | 1,992 | 1,316 |
| Females | 16,347 | 18,106 | 21,870 | 19,136 | 14,528 | 10,029 | 4,765 | 4,058 | 3,095 | 1,808 |
| Indians | 33,829 | 29,035 | 26,523 | 22,471 | 16,676 | 12,372 | 5,710 | 4,715 | 3,171 | 2,684 |
| Males | 19,315 | 16,798 | 14,316 | 11,865 | 8,377 | 5,945 | 2,656 | 1,970 | 1,408 | 1,526 |
| Females | 14,514 | 12,237 | 12,207 | 10,606 | 8,299 | 6,427 | 3,054 | 2,745 | 1,763 | 1,158 |
| Others | 16,140 | 13,870 | 9,957 | 6,521 | 4,159 | 2,900 | 1,277 | 1,039 | 678 | 658 |
| Males | 7,717 | 6,860 | 5,371 | 3,577 | 2,370 | 1,711 | 750 | 519 | 304 | 247 |
| Females | 8,423 | 7,010 | 4,586 | 2,944 | 1,789 | 1,189 | 527 | 520 | 374 | 411 |

Notes: Singapore resident population comprises Singapore citizens and permanent residents.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=315

2.5 RESIDENT AGE-SPECIFIC FERTILITY RATES

| | | | | | | Per Thous | and Females |
|-------------------|------|------|------|------|------|-----------|-------------|
| Age Group (Years) | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| 15 - 19 | 4.8 | 4.7 | 4.3 | 3.8 | 3.3 | 2.7 | 2.7 |
| 20 - 24 | 23.3 | 22.4 | 22.2 | 19.7 | 19.5 | 18.7 | 17.0 |
| 25 - 29 | 68.1 | 73.4 | 76.7 | 70.5 | 71.1 | 68.7 | 65.8 |
| 30 - 34 | 86.0 | 89.5 | 99.5 | 90.2 | 99.3 | 98.5 | 96.2 |
| 35 - 39 | 42.2 | 42.4 | 46.3 | 44.7 | 48.3 | 49.9 | 49.7 |
| 40 - 44 | 6.1 | 7.2 | 8.0 | 8.0 | 8.3 | 8.9 | 8.8 |
| 45 - 49 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.3 |

Notes: Data pertain to resident population (i.e. Singapore citizens and permanent residents).

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=3733

2.6 LIVE-BIRTHS BY ETHNIC GROUP AND SEX

| | | | | | | | Number |
|--------------------|--------|--------|--------|--------|--------|--------|--------|
| Ethnic Group / Sex | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 37,967 | 39,654 | 42,663 | 39,720 | 42,232 | 42,185 | 41,251 |
| Males | 19,643 | 20,434 | 22,102 | 20,528 | 21,679 | 21,755 | 21,315 |
| Females | 18,323 | 19,220 | 20,561 | 19,191 | 20,552 | 20,430 | 19,936 |
| Chinese | 23,303 | 24,691 | 26,760 | 23,890 | 25,958 | 25,412 | 24,749 |
| Males | 12,099 | 12,854 | 13,998 | 12,388 | 13,446 | 13,054 | 12,750 |
| Females | 11,204 | 11,837 | 12,762 | 11,502 | 12,512 | 12,358 | 11,999 |
| Malays | 5,711 | 5,719 | 5,908 | 6,067 | 6,468 | 6,961 | 7,143 |
| Males | 2,961 | 2,880 | 3,047 | 3,130 | 3,265 | 3,608 | 3,701 |
| Females | 2,749 | 2,839 | 2,861 | 2,937 | 3,202 | 3,353 | 3,442 |
| Indians | 4,285 | 4,376 | 4,672 | 4,648 | 4,678 | 4,895 | 4,499 |
| Males | 2,168 | 2,255 | 2,311 | 2,398 | 2,347 | 2,564 | 2,355 |
| Females | 2,117 | 2,121 | 2,361 | 2,250 | 2,331 | 2,331 | 2,144 |
| Other Ethic Groups | 4,668 | 4,868 | 5,323 | 5,115 | 5,128 | 4,917 | 4,860 |
| Males | 2,415 | 2,445 | 2,746 | 2,612 | 2,621 | 2,529 | 2,509 |
| Females | 2,253 | 2,423 | 2,577 | 2,502 | 2,507 | 2,388 | 2,351 |
| | | | | | | | |

Source : Registry of Births and Deaths

 $Notes: \qquad \hbox{Figures for males and females may not add up to the total due to unknown sex}.$

Data are based on date of occurrence.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=9567

2.7 LIVE-BIRTHS BY (a) BIRTH ORDER AND (b) PLACE OF OCCURRENCE

| | | | | | | | Number |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 37,967 | 39,654 | 42,663 | 39,720 | 42,232 | 42,185 | 41,251 |
| Birth Order ¹ | | | | | | | |
| 1st | 18,130 | 19,035 | 20,755 | 19,292 | 20,327 | 20,248 | 19,392 |
| 2nd | 13,404 | 14,120 | 15,082 | 13,924 | 15,262 | 14,857 | 14,913 |
| 3rd | 4,615 | 4,726 | 4,988 | 4,651 | 4,859 | 5,099 | 4,927 |
| 4th | 1,296 | 1,285 | 1,299 | 1,294 | 1,243 | 1,394 | 1,378 |
| 5th | 367 | 323 | 352 | 360 | 357 | 388 | 434 |
| 6th & over | 155 | 164 | 187 | 199 | 184 | 199 | 207 |
| Place of Occurrence | | | | | | | |
| Public Sector Hospitals | 15,312 | 15,872 | 16,403 | 15,646 | 17,066 | 17,730 | 17,895 |
| Private Sector Hospitals | 22,546 | 23,679 | 26,149 | 23,919 | 25,029 | 24,300 | 23,191 |
| Other Locations | 109 | 103 | 111 | 155 | 137 | 155 | 165 |

Source: Registry of Births and Deaths

Notes: Data are based on date of occurrence.

 $Download\ time\ series\ at\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2796\\http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2795\\http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2795\\http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2795\\http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2795\\http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2795\\http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2795\\http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2795\\http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2795\\http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2795\\http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2795\\http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2795\\http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2795\\http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2795\\http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2795\\http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2795\\http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2795\\http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2795\\http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2795\\http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2795\\http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2795\\http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.gov.sg/publicfacing/createDataTable.gov.sg/publicfacing/createDataTable.gov.sg/publicfacing/createDataTable.gov.sg/publi$

¹ Includes birth order not stated.

2.8 RESIDENT AGE-SEX SPECIFIC DEATH RATES

| Per | Thousand | Residents |
|-----|----------|-----------|
| | | |

| | | | | rei illousallu kesidelits | | | | |
|----------------------|-------|-------|-------|---------------------------|-------|-------|-------|--|
| Age Group (Years) | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | |
| | | | | Total | | | | |
| Total | 4.4 | 4.5 | 4.5 | 4.6 | 4.7 | 4.8 | 4.8 | |
| Under 1 ¹ | 2.0 | 2.0 | 1.8 | 2.0 | 1.8 | 1.7 | 2.4 | |
| 1 - 4 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | |
| 5 - 9 | 0.1 | 0.1 | 0.1 | 0.1 | - | - | 0.1 | |
| 10 - 14 | 0.1 | 0.1 | 0.1 | 0.1 | - | 0.1 | 0.1 | |
| 15 - 19 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | |
| 20 - 24 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | |
| 25 - 29 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | |
| 30 - 34 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | |
| 35 - 39 | 0.6 | 0.5 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | |
| 40 - 44 | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | |
| 45 - 49 | 1.7 | 1.7 | 1.6 | 1.5 | 1.5 | 1.5 | 1.4 | |
| 50 - 54 | 3.0 | 2.8 | 2.5 | 2.7 | 2.5 | 2.5 | 2.4 | |
| 55 - 59 | 4.5 | 4.4 | 4.6 | 4.3 | 4.5 | 4.2 | 4.1 | |
| 60 - 64 | 7.3 | 7.0 | 7.3 | 7.0 | 6.4 | 6.5 | 6.2 | |
| 65 - 69 | 12.5 | 12.6 | 11.9 | 11.0 | 10.6 | 10.4 | 10.1 | |
| 70 - 74 | 20.7 | 19.9 | 20.0 | 19.6 | 18.5 | 18.2 | 16.7 | |
| 75 - 79 | 34.9 | 37.0 | 33.3 | 33.8 | 32.6 | 31.8 | 30.1 | |
| 80 - 84 | 60.4 | 57.4 | 55.7 | 55.7 | 56.3 | 51.6 | 53.0 | |
| 85 & Over | 121.5 | 116.4 | 116.2 | 116.4 | 115.4 | 113.8 | 108.2 | |
| | | | | | | | | |

(continued on the next page)

Notes: Data pertain to resident population (i.e. Singapore citizens and permanent residents).

 $Download\ time\ series\ at\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=3633$

Infant mortality rate (deaths of resident infants under 1 year of age per thousand resident live-births).

2.8 RESIDENT AGE-SEX SPECIFIC DEATH RATES (continued)

Per Thousand Residents

| | rei mousanu kesit | | | | | | |
|----------------------|-------------------|-------|-------|-------|-------|-------|-------|
| Age Group (Years) | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | | Males | | | |
| Total | 4.8 | 4.9 | 5.0 | 5.1 | 5.2 | 5.2 | 5.3 |
| Under 1 ¹ | 1.9 | 2.3 | 2.0 | 1.8 | 1.9 | 2.2 | 2.3 |
| 1 - 4 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 |
| 5 - 9 | 0.1 | 0.1 | 0.1 | 0.1 | - | 0.1 | 0.1 |
| 10 - 14 | 0.1 | 0.1 | 0.2 | 0.1 | - | 0.1 | 0.2 |
| 15 - 19 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 0.3 |
| 20 - 24 | 0.4 | 0.5 | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 |
| 25 - 29 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.4 | 0.4 |
| 30 - 34 | 0.4 | 0.5 | 0.4 | 0.6 | 0.5 | 0.5 | 0.4 |
| 35 - 39 | 0.8 | 0.7 | 0.6 | 0.6 | 0.7 | 0.7 | 0.6 |
| 40 - 44 | 1.3 | 1.0 | 1.2 | 1.2 | 1.3 | 1.1 | 1.1 |
| 45 - 49 | 2.2 | 2.2 | 1.9 | 2.0 | 1.7 | 1.9 | 1.7 |
| 50 - 54 | 3.9 | 3.6 | 3.1 | 3.4 | 3.0 | 3.1 | 3.1 |
| 55 - 59 | 5.7 | 5.9 | 5.8 | 5.7 | 5.8 | 5.4 | 5.3 |
| 60 - 64 | 9.4 | 8.9 | 9.7 | 8.8 | 8.4 | 8.5 | 8.2 |
| 65 - 69 | 16.6 | 16.4 | 15.2 | 14.5 | 13.8 | 13.9 | 13.3 |
| 70 - 74 | 27.1 | 26.0 | 26.5 | 26.0 | 24.4 | 23.9 | 22.5 |
| 75 - 79 | 45.2 | 47.2 | 42.3 | 43.3 | 41.0 | 41.0 | 38.4 |
| 80 - 84 | 76.4 | 71.3 | 69.9 | 68.2 | 70.6 | 63.7 | 66.6 |
| 85 & Over | 140.0 | 130.8 | 132.3 | 131.0 | 128.5 | 124.8 | 124.2 |

(continued on the next page)

Notes: Data pertain to resident population (i.e. Singapore citizens and permanent residents).

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=3633

¹ Infant mortality rate (deaths of resident infants under 1 year of age per thousand resident live-births).

2.8 RESIDENT AGE-SEX SPECIFIC DEATH RATES (continued)

| | | | | | | Per Thousa | nd Residents |
|-------------------|-------|-------|-------|---------|-------|------------|--------------|
| Age Group (Years) | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | | Females | | | |
| Total | 3.9 | 4.0 | 4.1 | 4.2 | 4.3 | 4.3 | 4.3 |
| Under 1 1 | 2.1 | 1.7 | 1.6 | 2.1 | 1.7 | 1.2 | 2.5 |
| 1 - 4 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| 5 - 9 | 0.1 | 0.1 | 0.1 | - | - | - | 0.1 |
| 10 - 14 | 0.1 | - | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 15 - 19 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 |
| 20 - 24 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 |
| 25 - 29 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 |
| 30 - 34 | 0.2 | 0.3 | 0.4 | 0.3 | 0.2 | 0.3 | 0.2 |
| 35 - 39 | 0.5 | 0.4 | 0.5 | 0.4 | 0.3 | 0.4 | 0.3 |
| 40 - 44 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 | 0.6 | 0.8 |
| 45 - 49 | 1.2 | 1.3 | 1.3 | 1.1 | 1.2 | 1.1 | 1.1 |
| 50 - 54 | 1.9 | 2.1 | 2.0 | 2.0 | 1.9 | 1.9 | 1.8 |
| 55 - 59 | 3.3 | 2.9 | 3.3 | 3.0 | 3.2 | 3.1 | 3.0 |
| 60 - 64 | 5.3 | 5.2 | 5.1 | 5.1 | 4.4 | 4.5 | 4.3 |
| 65 - 69 | 8.8 | 9.0 | 8.7 | 7.8 | 7.5 | 7.1 | 7.0 |
| 70 - 74 | 15.1 | 14.7 | 14.5 | 14.2 | 13.5 | 13.2 | 11.5 |
| 75 - 79 | 27.1 | 29.0 | 26.3 | 26.3 | 25.9 | 24.4 | 23.5 |
| 80 - 84 | 50.2 | 48.4 | 46.4 | 47.2 | 46.6 | 43.4 | 43.7 |
| 85 & Over | 112.5 | 109.4 | 108.3 | 109.1 | 108.8 | 108.2 | 100.0 |

Notes: Data pertain to resident population (i.e. Singapore citizens and permanent residents).

¹ Infant mortality rate (deaths of resident infants under 1 year of age per thousand resident live-births).

2.9 DEATHS BY BROAD GROUP OF CAUSES

| | | | | | | | Number |
|----------------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Causes of Death | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 17,610 | 18,027 | 18,481 | 18,938 | 19,393 | 19,862 | 20,017 |
| Infective & Parasitic Diseases | 269 | 244 | 233 | 211 | 217 | 194 | 174 |
| of which: Tuberculosis | 77 | 68 | 65 | 51 | 60 | 41 | 41 |
| Neoplasms | 5,078 | 5,461 | 5,651 | 5,849 | 5,790 | 5,986 | 5,993 |
| of which: Malignant | 5,025 | 5,411 | 5,565 | 5,775 | 5,701 | 5,903 | 5,925 |
| Endocrine, Nutritional & Metabolic Diseases | 272 | 356 | 279 | 253 | 296 | 270 | 363 |
| of which: Diabetes | 182 | 299 | 268 | 247 | 277 | 250 | 343 |
| Diseases of the Blood & Blood-Forming Organs | 41 | 41 | 20 | 14 | 23 | 10 | 14 |
| Diseases of the Nervous System & | | | | | | | |
| Sense Organs | 92 | 117 | 166 | 137 | 144 | 210 | 226 |
| Diseases of the Circulatory System | 5,807 | 5,720 | 5,747 | 5,765 | 5,987 | 6,101 | 6,107 |
| of which: Heart & Hypertensive Diseases | 4,161 | 3,920 | 3,848 | 3,914 | 4,165 | 4,534 | 4,576 |
| Cerebrovascular Disease | 1,472 | 1,628 | 1,714 | 1,680 | 1,620 | 1,357 | 1,317 |
| Diseases of the Respiratory System | 3,434 | 3,493 | 3,708 | 4,061 | 4,232 | 4,417 | 4,440 |
| of which : Pneumonia | 2,766 | 2,879 | 3,096 | 3,512 | 3,680 | 3,859 | 3,855 |
| Diseases of the Digestive System | 436 | 426 | 414 | 418 | 482 | 477 | 467 |
| Diseases of the Genito-Urinary System | 893 | 918 | 934 | 967 | 951 | 928 | 913 |
| Congenital Anomalies | 60 | 53 | 54 | 47 | 50 | 62 | 72 |
| of which: Congenital Anomalies of Heart | 35 | 21 | 25 | 21 | 26 | 32 | 38 |
| Certain Causes of Perinatal Mortality | 34 | 49 | 44 | 43 | 42 | 30 | 36 |
| Accidents, Poisonings & Violence | 973 | 989 | 1,030 | 933 | 909 | 895 | 890 |
| of which: Transport Accidents | 208 | 207 | 192 | 176 | 183 | 168 | 164 |
| Suicides | 353 | 361 | 467 | 422 | 415 | 409 | 429 |
| Other Diseases & Causes | 221 | 160 | 201 | 240 | 270 | 282 | 322 |

Source: Registry of Births and Deaths

Notes: Deaths prior to 2012 are classified according to the Ninth Revision of the International Classification of Diseases (ICD).

From 2012 onwards, causes of death are adapted in accordance to the Tenth Revision of the ICD.

2.10 LIFE EXPECTANCY OF SINGAPORE RESIDENTS AT BIRTH AND AT AGE 65 YEARS BY SEX

Years

| Year | | At Birth | | | At Age 65 Year | 'S |
|------|-------|----------|---------|-------|----------------|---------|
| | Total | Males | Females | Total | Males | Females |
| | | | | | | |
| 1980 | 72.1 | 69.8 | 74.7 | 14.0 | 12.6 | 15.4 |
| 1985 | 73.9 | 71.5 | 76.4 | 14.9 | 13.6 | 16.2 |
| 1990 | 75.3 | 73.1 | 77.6 | 15.7 | 14.5 | 16.9 |
| 1995 | 76.3 | 74.1 | 78.6 | 16.0 | 14.6 | 17.2 |
| 2000 | 78.0 | 76.0 | 80.0 | 16.9 | 15.6 | 18.1 |
| 2005 | 80.1 | 77.6 | 82.5 | 18.7 | 16.9 | 20.4 |
| 2006 | 80.3 | 77.8 | 82.6 | 18.9 | 17.1 | 20.4 |
| 2007 | 80.6 | 78.1 | 82.9 | 19.0 | 17.2 | 20.6 |
| 2008 | 80.9 | 78.4 | 83.3 | 19.3 | 17.5 | 20.8 |
| 2009 | 81.4 | 78.9 | 83.7 | 19.6 | 17.8 | 21.2 |
| 2010 | 81.7 | 79.2 | 84.0 | 19.8 | 18.0 | 21.4 |
| 2011 | 81.9 | 79.5 | 84.1 | 20.0 | 18.1 | 21.6 |
| 2012 | 82.1 | 79.8 | 84.3 | 20.2 | 18.4 | 21.7 |
| 2013 | 82.4 | 80.1 | 84.5 | 20.4 | 18.6 | 21.9 |
| 2014 | 82.6 | 80.3 | 84.8 | 20.6 | 18.8 | 22.1 |
| 2015 | 82.9 | 80.5 | 85.1 | 20.8 | 18.9 | 22.3 |
| 2016 | 82.9 | 80.6 | 85.1 | 20.8 | 19.0 | 22.4 |

Notes: Data pertain to resident population (i.e. Singapore citizens and permanent residents).

2.11 AGE AT FIRST MARRIAGE AND DIVORCE

| | | | | | | | Years |
|--------------------------------------|------|------|------|------|------|------|-------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Median Age at First Marriage | | | | | | | |
| Grooms | 30.0 | 30.1 | 30.1 | 30.2 | 30.2 | 30.3 | 30.3 |
| Brides | 27.7 | 28.0 | 28.0 | 28.1 | 28.2 | 28.2 | 28.3 |
| Median Age of Divorcees ¹ | | | | | | | |
| Male | 41.0 | 41.3 | 41.6 | 42.4 | 42.6 | 42.9 | 42.8 |
| Female | 37.4 | 37.7 | 38.0 | 38.2 | 38.4 | 38.8 | 38.5 |
| | | | | | | | |

¹ Exclude annulments.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=10111 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=1694

2.12 RESIDENT AGE-SEX SPECIFIC MARRIAGE RATES

| Age Group (Years) | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 201 |
|------------------------------------|-------|-------|---------------|-------------|----------------|---------|----------|
| | | Mal | es (per thous | and unmarri | ed resident m | nales) | |
| 15 - 19 | 0.7 | 0.7 | 0.6 | 0.6 | 0.5 | 0.6 | 0. |
| 20 - 24 | 11.7 | 11.1 | 12.2 | 10.9 | 10.7 | 10.1 | 0. 9. |
| | | | | | | | |
| 25 - 29 | 71.8 | 79.6 | 77.8 | 71.5 | 77.0 | 76.4 | 78. |
| 30 - 34 | 102.7 | 117.9 | 117.8 | 109.9 | 127.2 | 132.5 | 131. |
| 35 - 39 | 77.9 | 89.2 | 96.5 | 86.2 | 89.1 | 90.6 | 88. |
| 40 - 44 | 52.1 | 58.5 | 65.2 | 56.0 | 61.0 | 54.6 | 58. |
| 45 - 49 | 36.7 | 41.2 | 39.8 | 36.0 | 35.7 | 36.3 | 35. |
| General Marriage Rate | 39.3 | 43.5 | 43.8 | 40.5 | 44.4 | 44.2 | 44. |
| (per thousand unmarried | | | | | | | |
| resident males aged 15-49 years) | | | | | | | |
| | | | | | | | |
| | | Fema | es (per thous | and unmarri | ed resident fe | emales) | |
| 15 - 19 | 2.8 | 2.4 | 2.3 | 2.2 | 1.7 | 1.7 | 1. |
| 20 - 24 | 22.6 | 23.5 | 24.4 | 21.3 | 22.3 | 20.9 | 19. |
| 25 - 29 | 99.0 | 108.0 | 106.7 | 97.4 | 103.8 | 107.2 | 106. |
| 30 - 34 | 81.0 | 96.0 | 96.2 | 89.2 | 105.3 | 106.5 | 105. |
| 35 - 39 | 36.3 | 42.4 | 43.2 | 44.6 | 44.3 | 48.2 | 48. |
| 40 - 44 | 16.2 | 20.7 | 21.0 | 19.4 | 19.5 | 21.1 | 21. |
| 45 - 49 | 10.2 | 10.2 | 10.5 | 10.2 | 11.7 | 10.4 | 11. |
| 4J - 43 | 10.4 | 10.2 | 10.5 | 10.2 | 11./ | 10.4 | 11 |
| General Marriage Rate | 35.3 | 39.2 | 39.4 | 36.9 | 40.8 | 41.1 | 41 |
| (per thousand unmarried | | | | | | | |
| resident females aged 15-49 years) | | | | | | | |

Notes: Data are based on resident grooms/brides and resident population (i.e. Singapore citizens and permanent residents).

2.13 GROOMS BY AGE GROUP

| | | | | | | | Number |
|-------------------|--------|--------|------------|---------------|---------|--------|--------|
| Age Group (Years) | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | Wo | men's Charter | | | |
| Total | 20,230 | 22,840 | 23,134 | 21,180 | 22,863 | 22,544 | 22,017 |
| Under 20 | 63 | 59 | 46 | 53 | 37 | 24 | 25 |
| 20 - 24 | 1,139 | 1,192 | 1,297 | 1,097 | 1,034 | 921 | 824 |
| 25 - 29 | 6,631 | 7,392 | 7,323 | 6,568 | 7,390 | 7,191 | 7,111 |
| 30 - 34 | 5,881 | 6,893 | 7,066 | 6,681 | 7,171 | 7,242 | 7,091 |
| 35 - 39 | 2,867 | 3,251 | 3,303 | 3,062 | 3,284 | 3,208 | 3,205 |
| 40 - 44 | 1,492 | 1,582 | 1,661 | 1,533 | 1,756 | 1,741 | 1,629 |
| 45 - 49 | 993 | 1,031 | 1,025 | 898 | 872 | 891 | 872 |
| 50 - 54 | 590 | 703 | 671 | 635 | 626 | 578 | 532 |
| 55 - 59 | 327 | 409 | 384 | 345 | 376 | 396 | 351 |
| 60 & Over | 247 | 328 | 358 | 308 | 317 | 352 | 377 |
| | | | Administra | ion of Muslim | Law Act | | |
| Total | 4,133 | 4,418 | 4,802 | 5,074 | 5,544 | 5,778 | 5,954 |
| Under 20 | 36 | 42 | 38 | 28 | 33 | 48 | 27 |
| 20 - 24 | 557 | 506 | 610 | 578 | 591 | 613 | 591 |
| 25 - 29 | 1,666 | 1,883 | 2,106 | 2,177 | 2,444 | 2,507 | 2,727 |
| 30 - 34 | 805 | 878 | 946 | 1,084 | 1,273 | 1,282 | 1,268 |
| 35 - 39 | 443 | 428 | 441 | 446 | 413 | 481 | 476 |
| 40 - 44 | 254 | 260 | 246 | 293 | 297 | 283 | 312 |
| 45 - 49 | 161 | 190 | 176 | 196 | 218 | 215 | 204 |
| 50 - 54 | 83 | 112 | 123 | 131 | 138 | 169 | 168 |
| 55 - 59 | 70 | 64 | 54 | 80 | 80 | 90 | 88 |
| 60 & Over | 58 | 55 | 62 | 61 | 57 | 90 | 93 |

Sources: Registry of Marriages

Registry of Muslim Marriages

Notes: Data on marriages registered under the Women's Charter exclude re-registered marriages, i.e. marriages which were contracted overseas or under religious and customary rites and were subsequently registered in Singapore in the

reference year.

 $Download\ time\ series\ at\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=10059\\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=10081\\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTablebuilder.singstat.gov.sg/publicfacing/createDataTablebuilder.singstat.gov.sg/pub$

2.14 BRIDES BY AGE GROUP

| | | | | | | | Nun |
|-------------------|--------|--------|------------|-----------------|-----------|--------|------|
| Age Group (Years) | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | W | omen's Charte | er | | |
| Total | 20,230 | 22,840 | 23,134 | 21,180 | 22,863 | 22,544 | 22,0 |
| Under 20 | 292 | 259 | 222 | 206 | 152 | 133 | 1: |
| 20 - 24 | 3,087 | 3,268 | 3,343 | 2,785 | 2,658 | 2,427 | 2,1 |
| 25 - 29 | 9,137 | 10,311 | 10,244 | 9,296 | 10,403 | 10,269 | 10,2 |
| 30 - 34 | 4,623 | 5,424 | 5,667 | 5,423 | 5,884 | 5,857 | 5,7 |
| 35 - 39 | 1,799 | 1,980 | 2,074 | 2,003 | 2,097 | 2,150 | 2,1 |
| 40 - 44 | 655 | 882 | 877 | 813 | 914 | 914 | 8 |
| 45 - 49 | 378 | 403 | 382 | 378 | 417 | 437 | 4 |
| 50 - 54 | 171 | 193 | 172 | 165 | 212 | 199 | 1 |
| 55 - 59 | 54 | 67 | 91 | 74 | 80 | 85 | |
| 60 & Over | 34 | 53 | 62 | 37 | 46 | 73 | |
| | | | Administra | ation of Muslin | n Law Act | | |
| Total | 4,133 | 4,418 | 4,802 | 5,074 | 5,544 | 5,778 | 5,9 |
| Under 20 | 179 | 149 | 164 | 149 | 134 | 145 | 1 |
| 20 - 24 | 1,105 | 1,176 | 1,279 | 1,245 | 1,384 | 1,345 | 1,2 |
| 25 - 29 | 1,611 | 1,812 | 1,969 | 2,132 | 2,417 | 2,494 | 2,7 |
| 30 - 34 | 562 | 548 | 641 | 711 | 820 | 856 | 8 |
| 35 - 39 | 266 | 286 | 284 | 344 | 293 | 351 | 3 |
| 40 - 44 | 157 | 187 | 194 | 214 | 213 | 269 | 2 |
| 45 - 49 | 131 | 125 | 160 | 139 | 149 | 145 | 1 |
| 50 - 54 | 72 | 87 | 72 | 76 | 75 | 111 | 1 |
| 55 - 59 | 33 | 32 | 24 | 40 | 37 | 36 | |
| 60 & Over | 17 | 16 | 15 | 24 | 22 | 26 | |

Sources: Registry of Marriages

Registry of Muslim Marriages

Notes: Data on marriages registered under the Women's Charter exclude re-registered marriages, i.e. marriages which were contracted overseas or under religious and customary rites and were subsequently registered in Singapore in the

reference year.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=10071 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=10040

2.15 MARRIAGES REGISTERED BY ETHNIC GROUP OF COUPLE

| | | | | | | | Number |
|---------------------------|--------|--------|------------|----------------|-----------|--------|--------|
| Ethnic Group | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | W | omen's Chart | er | | |
| Total | 20,230 | 22,840 | 23,134 | 21,180 | 22,863 | 22,544 | 22,017 |
| Chinese | 14,535 | 16,499 | 16,387 | 14,948 | 16,750 | 16,237 | 15,944 |
| Indians | 799 | 879 | 950 | 960 | 978 | 940 | 916 |
| Others ¹ | 1,346 | 1,495 | 1,614 | 1,407 | 1,244 | 1,225 | 1,150 |
| Inter-ethnic ² | 3,550 | 3,967 | 4,183 | 3,865 | 3,891 | 4,142 | 4,007 |
| | | | Administra | ation of Musli | m Law Act | | |
| Total | 4,133 | 4,418 | 4,802 | 5,074 | 5,544 | 5,778 | 5,954 |
| Malays | 2,381 | 2,635 | 2,803 | 3,001 | 3,221 | 3,377 | 3,408 |
| Indians | 174 | 178 | 189 | 217 | 198 | 216 | 243 |
| Others ³ | 200 | 184 | 199 | 226 | 223 | 232 | 286 |
| Inter-ethnic ⁴ | 1,378 | 1,421 | 1,611 | 1,630 | 1,902 | 1,953 | 2,017 |

Sources: Registry of Marriages

Registry of Muslim Marriages

Notes: Data on marriages registered under the Women's Charter exclude marriages which were contracted overseas or under religious and customary rites and were subsequently registered in Singapore in the reference year.

- 1 Comprises couples of the same ethnicity from other ethnic groups besides Chinese and Indians, namely Malays, Eurasians, Caucasians and other ethnicities as one single 'Others' group.
 - E.g. Eurasian-Eurasian, Caucasian-Caucasian, Others-Others.
- 2 Refers to marriages where both the groom and bride are of different ethnicity.
 - $\hbox{E.g. Indian-Chinese, Eurasian-Caucasian, Chinese-Malay, Chinese-Others.}\\$
- 3 Comprises Muslim couples of the same ethnicity from other ethnic groups besides Malays and Indians, namely Chinese, Eurasians, Caucasians and other ethnicities as one single 'Others' group.
 - E.g. Eurasian-Eurasian, Caucasian-Caucasian, Others-Others.
- 4 Refers to marriages where both the groom and bride are of different ethnicity.
 - E.g. Malay-Indian, Malay-Chinese, Malay-Others.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=10046 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=10098

2.16 RESIDENT AGE-SEX SPECIFIC DIVORCE RATES

| Age Group (Years) | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 201 |
|---------------------------------------------------------------------------------------|-----------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|---------------------|
| | | Mal | es (per thousa | and married re | esident males) | | |
| 20 - 24 | 24.9 | 26.6 | 28.4 | 25.8 | 25.3 | 30.8 | 27. |
| 25 - 29 | 16.3 | 20.3 | 21.7 | 21.7 | 20.2 | 17.8 | 16. |
| 30 - 34 | 14.6 | 14.0 | 13.3 | 13.1 | 13.1 | 12.5 | 12 |
| 35 - 39 | 12.5 | 12.7 | 11.9 | 12.0 | 11.6 | 11.7 | 12 |
| 40 - 44 | 9.6 | 10.0 | 9.4 | 9.8 | 9.9 | 10.1 | 9 |
| 45 - 49 | 7.5 | 7.7 | 7.6 | 8.5 | 7.7 | 8.3 | 8 |
| 50 & Over | 3.3 | 3.5 | 3.3 | 3.6 | 3.5 | 3.7 | 3 |
| eneral Divorce Rate per thousand married resident nales aged 20 years and over) | 7.5 | 7.6 | 7.1 | 7.3 | 7.0 | 7.1 | 7 |
| • | | | | | | | |
| males aged 20 years and over) | | Femal | es (per thousa | and married re | esident female | es) | |
| • | 24.4 | Femal | es (per thousa | and married re | esident female 23.5 | es) 26.3 | 28 |
| males aged 20 years and over) | 24.4 15.0 | | | | | , <u> </u> | 28 15 |
| males aged 20 years and over) 20 - 24 | | 27.8 | 29.1 | 26.7 | 23.5 | 26.3 | 15 |
| males aged 20 years and over) 20 - 24 25 - 29 | 15.0 | 27.8 17.8 | 29.1 15.8 | 26.7 17.5 | 23.5 16.0 | 26.3 15.3 | 15 11 |
| males aged 20 years and over) 20 - 24 25 - 29 30 - 34 | 15.0 12.8 | 27.8 17.8 12.0 | 29.1 15.8 12.0 | 26.7 17.5 12.4 | 23.5 16.0 11.7 | 26.3 15.3 11.6 | |
| 20 - 24 25 - 29 30 - 34 35 - 39 | 15.0 12.8 10.7 | 27.8 17.8 12.0 11.0 | 29.1 15.8 12.0 10.0 | 26.7 17.5 12.4 10.3 | 23.5 16.0 11.7 10.1 | 26.3 15.3 11.6 9.6 | 15 11 10 |
| 20 - 24 25 - 29 30 - 34 35 - 39 40 - 44 | 15.0 12.8 10.7 7.9 | 27.8 17.8 12.0 11.0 8.5 | 29.1 15.8 12.0 10.0 8.2 | 26.7 17.5 12.4 10.3 8.0 | 23.5 16.0 11.7 10.1 8.3 | 26.3 15.3 11.6 9.6 8.8 | 15 11 10 8 |

Notes: Data are based on divorces and annulments where the male/female spouses are residents (i.e. Singapore citizens and permanent residents).

2.17 DIVORCES AND ANNULMENTS BY AGE GROUP OF MALES

| | | | | | | | Numbe |
|--------------------|----------|---------|-----------------|-----------------|---------------|------------|-------|
| Age Group (Years) | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | Divorces und | er the Women | 's Charter | | |
| Total | 5,433 | 5,696 | 5,306 | 5,471 | 5,172 | 5,450 | 5,505 |
| Under 25 | 25 | 32 | 24 | 28 | 34 | 40 | 24 |
| 25 - 29 | 266 | 341 | 256 | 274 | 227 | 234 | 247 |
| 30 - 34 | 919 | 858 | 785 | 740 | 730 | 725 | 692 |
| 35 - 39 | 1,194 | 1,211 | 1,149 | 1,051 | 997 | 1,020 | 1,113 |
| 40 - 44 | 960 | 1,026 | 952 | 980 | 946 | 1,039 | 1,022 |
| 45 - 49 | 815 | 883 | 798 | 892 | 769 | 826 | 825 |
| 50 - 54 | 594 | 624 | 606 | 705 | 648 | 664 | 664 |
| 55 - 59 | 360 | 397 | 372 | 408 | 419 | 446 | 447 |
| 60 & Over | 291 | 323 | 357 | 393 | 351 | 436 | 456 |
| Unknown | 9 | 1 | 7 | 0 | 51 | 20 | 15 |
| | | Divorce | es under the Ad | dministration o | of Muslim Law | Act | |
| Total | 1,536 | 1,538 | 1,587 | 1,662 | 1,689 | 1,667 | 1,702 |
| Under 25 | 47 | 41 | 49 | 40 | 33 | 41 | 40 |
| 25 - 29 | 186 | 186 | 172 | 180 | 159 | 162 | 191 |
| 30 - 34 | 290 | 256 | 286 | 290 | 293 | 288 | 305 |
| 35 - 39 | 292 | 305 | 275 | 310 | 265 | 279 | 284 |
| 40 - 44 | 255 | 251 | 265 | 257 | 295 | 249 | 234 |
| 45 - 49 | 217 | 201 | 235 | 257 | 229 | 231 | 229 |
| 50 - 54 | 123 | 153 | 157 | 172 | 210 | 222 | 191 |
| 55 - 59 | 63 | 76 | 87 | 85 | 121 | 94 | 119 |
| 60 & Over | 59 | 69 | 60 | 71 | 84 | 101 | 109 |
| Unknown | 4 | 0 | 1 | 0 | 0 | 0 | 0 |
| | | P | Annulments un | der the Wome | en's Charter | | |
| Total | 369 | 370 | 344 | 392 | 446 | 405 | 407 |
| Under 25 | 8 | 10 | 10 | 21 | 14 | 14 | 13 |
| 25 - 29 | 101 | 91 | 18 84 | 88 | 109 | | 87 |
| 30 - 34 | 111 | 126 | 99 | 111 | 132 | 105 117 | 137 |
| 30 - 34 35 - 39 | 70 | 62 | 65 | 63 | 75 | 68 | 82 |
| 40 & Over | 70 79 | 81 | 78 | 109 | 116 | 101 | 88 |
| Unknown | 0 | 0 | 78 0 | 0 | 0 | 0 | 0 |
| Ulikiluwii | U | U | U | U | U | U | U |

Sources: Family Justice Courts

Syariah Court

Registry of Muslim Marriages

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=10084 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=10052 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=10086

2.18 DIVORCES AND ANNULMENTS BY AGE GROUP OF FEMALES

| | | | | | | | Num |
|-------------------|-------|--------|----------------|---------------|---------------|-------|------|
| Age Group (Years) | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | Divorces und | der the Womer | n's Charter | | |
| Total | 5,433 | 5,696 | 5,306 | 5,471 | 5,172 | 5,450 | 5,50 |
| Under 25 | 114 | 112 | 126 | 106 | 97 | 109 | 8 |
| 25 - 29 | 654 | 744 | 574 | 584 | 537 | 544 | 53 |
| 30 - 34 | 1,230 | 1,182 | 1,164 | 1,189 | 1,090 | 1,160 | 1,15 |
| 35 - 39 | 1,201 | 1,280 | 1,166 | 1,135 | 1,127 | 1,102 | 1,21 |
| 40 - 44 | 844 | 934 | 908 | 938 | 894 | 1,011 | 94 |
| 45 - 49 | 640 | 658 | 565 | 647 | 589 | 620 | 66 |
| 50 - 54 | 375 | 397 | 401 | 450 | 391 | 448 | 39 |
| 55 - 59 | 205 | 209 | 215 | 260 | 239 | 207 | 28 |
| 60 & Over | 158 | 179 | 179 | 161 | 165 | 234 | 21 |
| Unknown | 12 | 1 | 8 | 1 | 43 | 15 | |
| | | Divord | es under the A | dministration | of Muslim Law | Act | |
| Total | 1,536 | 1,538 | 1,587 | 1,662 | 1,689 | 1,667 | 1,70 |
| Under 25 | 132 | 124 | 120 | 107 | 84 | 95 | 10 |
| 25 - 29 | 281 | 283 | 281 | 289 | 253 | 272 | 30 |
| 30 - 34 | 318 | 276 | 318 | 337 | 345 | 326 | 3 |
| 35 - 39 | 268 | 279 | 252 | 295 | 270 | 273 | 2 |
| 40 - 44 | 211 | 222 | 229 | 232 | 273 | 250 | 2 |
| 45 - 49 | 177 | 182 | 188 | 190 | 205 | 191 | 1 |
| 50 - 54 | 80 | 97 | 123 | 130 | 142 | 150 | 1 |
| 55 - 59 | 44 | 41 | 49 | 53 | 66 | 63 | |
| 60 & Over | 24 | 34 | 26 | 29 | 51 | 47 | ! |
| Unknown | 1 | 0 | 1 | 0 | 0 | 0 | |
| | | | Annulments u | nder the Wom | en's Charter | | |
| Total | 369 | 370 | 344 | 392 | 446 | 405 | 40 |
| Under 25 | 51 | 59 | 49 | 49 | 59 | 45 | 4 |
| 25 - 29 | 169 | 162 | 143 | 175 | 170 | 166 | 1 |
| 30 - 34 | 81 | 91 | 97 | 110 | 133 | 119 | 1 |
| 35 - 39 | 47 | 37 | 33 | 36 | 50 | 48 | 4 |
| 40 & Over | 21 | 21 | 22 | 22 | 34 | 27 | 3 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | |

Sources: Family Justice Courts

Syariah Court

Registry of Muslim Marriages

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=10084 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=10052 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=10086

2.19 DIVORCES AND ANNULMENTS BY ETHNIC GROUP OF COUPLE

| | | | | | | | Number |
|---------------------------|-------|--------|----------------|---------------|---------------|-------|--------|
| Ethnic Group | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | Divorces und | ler the Womer | n's Charter | | |
| Total | 5,433 | 5,696 | 5,306 | 5,471 | 5,172 | 5,450 | 5,505 |
| Chinese | 4,446 | 4,595 | 4,240 | 4,331 | 4,018 | 4,121 | 4,123 |
| Indians | 366 | 408 | 336 | 373 | 352 | 387 | 380 |
| Others ¹ | 64 | 82 | 91 | 86 | 89 | 118 | 119 |
| Inter-ethnic ² | 546 | 602 | 628 | 658 | 701 | 802 | 853 |
| | | Divorc | es under the A | dministration | of Muslim Law | Act | |
| Total | 1,536 | 1,538 | 1,587 | 1,662 | 1,689 | 1,667 | 1,702 |
| Malays | 1,080 | 1,108 | 1,209 | 1,211 | 1,254 | 1,177 | 1,181 |
| Indians | 55 | 73 | 95 | 74 | 70 | 77 | 98 |
| Others ³ | 32 | 13 | 15 | 22 | 20 | 21 | 14 |
| Inter-ethnic ⁴ | 369 | 344 | 268 | 355 | 345 | 392 | 409 |
| | | | Annulments u | nder the Wom | en's Charter | | |
| Total | 369 | 370 | 344 | 392 | 446 | 405 | 407 |
| Chinese | 276 | 272 | 236 | 226 | 266 | 259 | 262 |
| Indians | 39 | 33 | 28 | 37 | 40 | 38 | 50 |
| Others ¹ | 3 | 3 | 5 | 7 | 8 | 2 | 8 |
| Inter-ethnic ² | 51 | 62 | 75 | 122 | 131 | 106 | 85 |

Sources: Family Justice Courts

Syariah Court

Registry of Muslim Marriages

Notes: Total includes divorces or annulments where the ethnic group of males or females was not reported.

- Comprises male and female divorcees of the same ethnicity from other ethnic groups besides Chinese and Indians, namely Malays, Eurasians, Caucasians and other ethnicities as one single 'Others' group.
 E.g. Eurasian-Eurasian, Caucasian-Caucasian, Others-Others.
- 2 Refers to divorces or annulments where both the male and female divorcees are of different ethnicity. E.g. Indian-Chinese, Eurasian-Caucasian, Chinese-Malay, Chinese-Others.
- 3 Comprises Muslim male and female divorcees of the same ethnicity from other ethnic groups besides Malays and Indians, namely Chinese, Eurasians, Caucasians, and other ethnicities as one single 'Others' group.
 E.g. Eurasian-Eurasian, Caucasian-Caucasian, Others-Others.
- 4 Refers to divorces where both the male and female divorcees are of different ethnicity. E.g. Malay-Indian, Malay-Chinese, Indian-Others.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=9804 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=10099 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=10087

3

Households



3

Households



Households



Household: Refers to a group of two or more persons living together in the same house and sharing common food or other arrangements for essential living. It also includes a person living alone or a person living with others but having his own food arrangements. Although persons may be living in the same house, they may not be members of the same household.

Resident household: Refers to a household headed by a resident (i.e. Singapore citizen or permanent resident).

Resident employed household: Refers to a resident household with at least one working person.

Household size: Refers to the total number of members in the household, including domestic workers.

Household Income from Work



Household income from work: Refers to the sum of income received by working members of the household from employment and business. However, it does not include the income of domestic workers. Household income from work includes one-twelfth of the annual bonus. Data on household income from work refer to household income from work before accounting for Government transfers and taxes, unless stated otherwise.

As the income data pertain to income from work, the coverage of households is based on resident employed households.

Household income from work per household member: Refers to the household income from work divided by the total number of members in the household. For example, if there is one person in a household of four who is working, his income is divided by four to derive the income per household

member. This takes into account the different sizes of households in each group and enables analysis of changes in household income, adjusted for changes in household size over time.

Household Income Groups



Data on household income by income groups are derived by first ranking, in ascending order, all resident employed households by their monthly household income from work per household member, and then dividing them into ten equal groups or deciles.

Not all households are consistently in the same decile group from one year to the next. For example, an employed household may move down from a higher decile in a particular year due to temporary unemployment of a household member, before moving up the deciles when the member resumes work in the subsequent year.

In comparing the performance of any particular decile group over time, it is therefore relevant to note that they may not pertain to the same group of households.

Household Income Distribution



Percentile ratios: A measure of the spread of incomes across the population. P90 refers to the income level at the 90th percentile. P10 refers to the income level at the 10th percentile.

Gini coefficient: A summary measure of income inequality. It is equal to zero in the case of total income equality and equal to one in the case of total inequality. The more unequal the income distribution, the larger the value of the Gini coefficient.

Internationally, the computation methods adopted vary across countries, although the basic concept of Gini remains the same. One major difference is in the equivalence scale adopted.

Households ■ 🟠

Equivalence scales take into account economies of scale within the household, and adjust for household size so that households of different sizes and compositions are comparable. There are different scales used by different countries.

The simplest method of adjusting for differences in household size is to divide household income by the number of members in the household, and present household income on a per household member basis.

For example, a household of four having income from work of \$4,000 would have \$1,000 on a per member basis.

There are more complex methods of adjusting for differences in household size. One such method is the modified Organisation of Economic Co-operation and Development (OECD) scale.

The modified OECD scale assigns the first adult in the household a weight of 1 point, and each additional adult a weight of 0.5 points and each child a weight of 0.3 points. Equivalised household income is derived by dividing the total household income by the sum of the points allocated to the household members.

For example, a household comprising two adults and two children would have a sum total of 2.1 points. If the household has income from work of \$4,000, then the equivalised household income would be \$1,905 (i.e. \$4,000 divided by 2.1).

Another method is the square root scale, which is used by OECD in its major reports on income inequality. The square root scale divides household income by the square root of household size.

For example, based on the square root scale, a household of four having income from work of \$4,000 would have an equivalised household income of \$2,000 (i.e. \$4,000 divided by the square root of 4).

Equivalised Household Income Computation Methods

| | Per Household Member Scale | Modified OECD Scale | Square Root Scale |
|------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Total household income | \$4,000 | \$4,000 | \$4,000 |
| Equivalence value | Number of household members | 2.1 1st adult is assigned 1 point, each additional adult is assigned 0.5 points and each child is assigned 0.3 points | 2 Square root of household size |
| Equivalised household income | \$4,000 ÷ 4 = \$1,000 | \$4,000 ÷ 2.1 = \$1,905 | \$4,000 ÷ 2 = \$2,000 |

Government Transfers and Taxes



The Government transfers and taxes included in different years are subject to scheme design and data availability. For example, data on workfare-related payment starts from 2006, when the scheme was first introduced in 2006 as workfare bonus and subsequently as the workfare income supplement scheme. As more administrative data on transfers or taxes become available, the coverage for Government transfers or taxes would be expanded to include them. The full list of Government transfers and taxes included for the relevant years is available in the annual paper on "Key Household Income Trends" published by the Singapore Department of Statistics (DOS).

Other References



The annual report on "Population Trends" published by DOS also contains data on households and housing, among other demographic statistics. The publication comprises five sections, namely 'Population', 'Households and Housing', 'Family Formation and Dissolution', 'Fertility' and 'Mortality'. Statistical analyses of Singapore's changing population profiles are also included in the publication.

Data on household income from work are also available in the annual paper on "Key Household Income Trends". The paper highlights key trends in household income from work and presents the impact of Government transfers and taxes on household income.

3.1 NUMBER OF RESIDENT HOUSEHOLDS AND AVERAGE HOUSEHOLD SIZE

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total | '000 | 1,145.9 | 1,146.2 | 1,152.0 | 1,174.5 | 1,200.0 | 1,225.3 | 1,263.6 |
| 1-Person Household | '000 | 139.9 | 114.0 | 109.5 | 124.4 | 134.8 | 146.0 | 156.2 |
| 2-Person Household | '000 | 215.0 | 227.9 | 230.9 | 234.1 | 252.2 | 259.2 | 276.1 |
| 3-Person Household | '000 | 231.4 | 237.1 | 238.3 | 243.7 | 251.5 | 256.2 | 266.2 |
| 4-Person Household | '000 | 263.9 | 279.6 | 281.1 | 290.9 | 280.1 | 282.2 | 286.2 |
| 5-Person Household | '000 | 168.0 | 169.7 | 170.5 | 165.5 | 162.9 | 164.0 | 161.2 |
| 6-Person Household or Larger | '000 | 127.8 | 117.9 | 121.8 | 116.0 | 118.4 | 117.6 | 117.6 |
| Average Household Size | Persons | 3.50 | 3.51 | 3.53 | 3.47 | 3.43 | 3.39 | 3.35 |

Notes: Data for 2010 and 2015 are from the Census of Population 2010 and General Household Survey 2015 respectively.

Data for other years are based on the sample of households surveyed in the mid-year Comprehensive Labour Force Surveys.

3.2 RESIDENT HOUSEHOLDS BY TYPE OF DWELLING

| | | | | | | | Thousand |
|----------------------------------|---------|---------|---------|---------|---------|---------|----------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 1,145.9 | 1,146.2 | 1,152.0 | 1,174.5 | 1,200.0 | 1,225.3 | 1,263.6 |
| Total HDB Dwellings ¹ | 943.7 | 948.4 | 939.5 | 961.8 | 965.2 | 981.1 | 1,011.5 |
| 1- and 2-Room Flats ² | 52.3 | 52.2 | 54.0 | 59.1 | 64.0 | 68.8 | 74.1 |
| 3-Room Flats | 229.7 | 233.3 | 214.5 | 223.2 | 220.1 | 223.4 | 230.3 |
| 4-Room Flats | 365.4 | 367.5 | 375.4 | 382.4 | 386.0 | 392.3 | 407.4 |
| 5-Room and Executive Flats | 293.3 | 291.9 | 293.3 | 294.3 | 292.8 | 295.8 | 298.6 |
| Condominiums & Other Apartments | 132.0 | 126.9 | 139.9 | 143.7 | 161.8 | 170.8 | 182.4 |
| Landed Properties | 64.9 | 66.3 | 69.0 | 65.0 | 69.4 | 69.2 | 66.2 |
| Others | 5.3 | 4.6 | 3.6 | 4.0 | 3.6 | 4.2 | 3.5 |

Notes: Data for 2010 and 2015 are from the Census of Population 2010 and General Household Survey 2015 respectively.

Data for other years are based on the sample of households surveyed in the mid-year Comprehensive Labour Force Surveys.

¹ Includes non-privatised Housing and Urban Development Corporation (HUDC) flats.

² Includes HDB studio apartments.

3.3 AVERAGE HOUSEHOLD SIZE OF RESIDENT HOUSEHOLDS BY TYPE OF DWELLING

| | | | | | | Persons |
|------|-----------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| 3.50 | 3.51 | 3.53 | 3.47 | 3.43 | 3.39 | 3.35 |
| 3.45 | 3.46 | 3.48 | 3.42 | 3.37 | 3.34 | 3.30 |
| 2.11 | 2.24 | 2.36 | 2.38 | 2.32 | 2.24 | 2.16 |
| 2.78 | 2.77 | 2.79 | 2.74 | 2.70 | 2.69 | 2.67 |
| 3.66 | 3.65 | 3.63 | 3.58 | 3.53 | 3.49 | 3.46 |
| 3.96 | 3.99 | 3.98 | 3.94 | 3.88 | 3.89 | 3.84 |
| 3.41 | 3.43 | 3.48 | 3.42 | 3.40 | 3.34 | 3.30 |
| 4.39 | 4.38 | 4.35 | 4.33 | 4.32 | 4.30 | 4.28 |
| 2.65 | 3.21 | 2.99 | 3.38 | 3.02 | 2.92 | 2.65 |
| | 3.50 3.45 2.11 2.78 3.66 3.96 3.41 4.39 | 3.50 3.51 3.45 3.46 2.11 2.24 2.78 2.77 3.66 3.65 3.96 3.99 3.41 3.43 4.39 4.38 | 3.50 3.51 3.53 3.45 3.46 3.48 2.11 2.24 2.36 2.78 2.77 2.79 3.66 3.65 3.63 3.96 3.99 3.98 3.41 3.43 3.48 4.39 4.38 4.35 | 3.50 3.51 3.53 3.47 3.45 3.46 3.48 3.42 2.11 2.24 2.36 2.38 2.78 2.77 2.79 2.74 3.66 3.65 3.63 3.58 3.96 3.99 3.98 3.94 3.41 3.43 3.48 3.42 4.39 4.38 4.35 4.33 | 3.50 3.51 3.53 3.47 3.43 3.45 3.46 3.48 3.42 3.37 2.11 2.24 2.36 2.38 2.32 2.78 2.77 2.79 2.74 2.70 3.66 3.65 3.63 3.58 3.53 3.96 3.99 3.98 3.94 3.88 3.41 3.43 3.48 3.42 3.40 4.39 4.38 4.35 4.33 4.32 | 3.50 3.51 3.53 3.47 3.43 3.39 3.45 3.46 3.48 3.42 3.37 3.34 2.11 2.24 2.36 2.38 2.32 2.24 2.78 2.77 2.79 2.74 2.70 2.69 3.66 3.65 3.63 3.58 3.53 3.49 3.96 3.99 3.98 3.94 3.88 3.89 3.41 3.43 3.48 3.42 3.40 3.34 4.39 4.38 4.35 4.33 4.32 4.30 |

Notes: Data for 2010 and 2015 are from the Census of Population 2010 and General Household Survey 2015 respectively.

Data for other years are based on the sample of households surveyed in the mid-year Comprehensive Labour Force Surveys.

 $^{{\}bf 1} \ \ {\bf Includes} \ \ {\bf non\text{-}privatised} \ \ {\bf Housing} \ \ {\bf and} \ \ {\bf Urban} \ \ {\bf Development} \ \ {\bf Corporation} \ \ ({\bf HUDC}) \ \ {\bf flats}.$

² Includes HDB studio apartments.

3.4 HOME OWNERSHIP RATES AMONG RESIDENT HOUSEHOLDS BY TYPE OF DWELLING

| | | | | | | | Per Cent |
|----------------------------------|------|------|------|------|------|------|----------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 87.2 | 88.6 | 90.1 | 90.5 | 90.3 | 90.8 | 90.9 |
| Total HDB Dwellings ¹ | 88.8 | 90.1 | 91.7 | 91.8 | 91.6 | 92.0 | 92.2 |
| 1- and 2-Room Flats ² | 18.4 | 18.1 | 23.1 | 22.3 | 23.9 | 33.9 | 35.9 |
| 3-Room Flats | 90.0 | 91.2 | 93.3 | 94.1 | 94.4 | 94.8 | 94.2 |
| 4-Room Flats | 93.6 | 94.9 | 96.6 | 97.0 | 96.8 | 96.8 | 97.5 |
| 5-Room and Executive Flats | 94.4 | 96.2 | 97.0 | 97.2 | 97.4 | 97.2 | 97.4 |
| Condominiums & Other Apartments | 76.6 | 79.0 | 80.3 | 82.5 | 83.3 | 84.1 | 84.1 |
| Landed Properties | 88.7 | 88.7 | 89.5 | 91.2 | 90.9 | 92.0 | 92.8 |
| Others | 46.8 | 44.2 | 65.1 | 47.7 | 47.1 | 54.9 | 51.5 |

Notes: Data for 2010 and 2015 are from the Census of Population 2010 and General Household Survey 2015 respectively.

Data for other years are based on the sample of households surveyed in the mid-year Comprehensive Labour Force Surveys.

- 1 Includes non-privatised Housing and Urban Development Corporation (HUDC) flats.
- 2 Includes HDB studio apartments.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=851

3.5 HOUSEHOLD INCOME FROM WORK PER HOUSEHOLD MEMBER 1 AMONG RESIDENT EMPLOYED HOUSEHOLDS 2

| | | | | | | | Dollars |
|--------------------------------------|-------|-------|-------|-------|-------|-------|---------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Median (50 th Percentile) | 1,848 | 1,994 | 2,127 | 2,247 | 2,380 | 2,500 | 2,584 |
| 20 th Percentile | 889 | 971 | 1,020 | 1,083 | 1,167 | 1,242 | 1,280 |

Notes: Data for 2010 are from the Census of Population 2010.

Data for other years are based on the sample of households surveyed in the mid-year Comprehensive Labour Force Surveys. Household income from work includes employer Central Provident Fund (CPF) contributions.

- 1 Household income from work per household member refers to the household income from work divided by the total number of members in the household. For example, if there is one person in a household of four who is working, his income is divided by four to derive the income per household member.
- 2 A resident employed household refers to a household headed by a Singapore citizen or permanent resident and with at least one working person.

3.6 AVERAGE MONTHLY HOUSEHOLD INCOME FROM WORK PER HOUSEHOLD MEMBER ¹
AMONG RESIDENT EMPLOYED HOUSEHOLDS ² BY DECILES ³

| | | | | | | | Donars |
|--------------------------------------|-------|--------|--------|--------|--------|--------|--------|
| Deciles ³ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 2,709 | 2,925 | 3,142 | 3,204 | 3,418 | 3,624 | 3,688 |
| 1 st - 10 th | 381 | 422 | 440 | 463 | 494 | 541 | 543 |
| 11 th - 20 th | 738 | 803 | 856 | 896 | 971 | 1,040 | 1,064 |
| 21 st - 30 th | 1,036 | 1,122 | 1,200 | 1,268 | 1,353 | 1,446 | 1,483 |
| 31 st - 40 th | 1,341 | 1,445 | 1,547 | 1,633 | 1,747 | 1,857 | 1,892 |
| 41 st - 50 th | 1,668 | 1,794 | 1,917 | 2,033 | 2,155 | 2,274 | 2,339 |
| 51 st - 60 th | 2,051 | 2,207 | 2,355 | 2,483 | 2,627 | 2,780 | 2,864 |
| 61 st - 70 th | 2,540 | 2,726 | 2,893 | 3,039 | 3,217 | 3,409 | 3,521 |
| 71 st - 80 th | 3,232 | 3,458 | 3,658 | 3,837 | 4,060 | 4,276 | 4,438 |
| 81 st - 90 th | 4,429 | 4,727 | 5,004 | 5,192 | 5,524 | 5,804 | 5,958 |
| 91 st - 100 th | 9,669 | 10,543 | 11,552 | 11,198 | 12,032 | 12,816 | 12,773 |
| | | | | | | | |

Notes: Data for 2010 are from the Census of Population 2010.

Data for other years are based on the sample of households surveyed in the mid-year Comprehensive Labour Force Surveys. Household income from work includes employer Central Provident Fund (CPF) contributions.

- 1 Household income from work per household member refers to the household income from work divided by the total number of members in the household. For example, if there is one person in a household of four who is working, his income is divided by four to derive the income per household member.
- 2 A resident employed household refers to a household headed by a Singapore citizen or permanent resident and with at least one working person.
- 3 Based on the ranking of all resident employed households by their monthly household income from work per household member. It is notable, for example, that some resident employed households in the lowest 10% owned a car (14.0%), employed a maid (10.9%), lived in private property (6.5%) or were headed by persons aged 60 years and over (41.9%) in 2016. It is also important to recognise that not all households are consistently in the same decile group from one year to the next. For example, a household may move down from a higher decile in a particular year due to temporary unemployment of a household member, before moving up the deciles when the member resumes work in the subsequent year. In comparing the performance of any particular decile group over time, it is therefore relevant to note that it may not pertain to the same group of households.

3.7 RATIO OF HOUSEHOLD INCOME FROM WORK PER HOUSEHOLD MEMBER ¹ AT THE 90TH PERCENTILE (P90) TO 10TH PERCENTILE (P10) AMONG RESIDENT EMPLOYED HOUSEHOLDS ²

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|----------------------------------------------------------------------------------|-------|------|------|------|------|------|------|------|
| P90/P10 Ratio of Household Income from Work Per Household Member ³ | Ratio | 9.35 | 9.19 | 9.14 | 9.00 | 8.92 | 8.65 | 8.67 |
| P90/P10 Ratio of Household Income from Work Per Household Member After | | | | | | | | |
| Accounting for Government Transfers and Taxes ⁴ | Ratio | 6.47 | 6.21 | 6.37 | 5.90 | 5.98 | 5.77 | 5.76 |

Notes: Data for 2010 are from the Census of Population 2010.

Data for other years are based on the sample of households surveyed in the mid-year Comprehensive Labour Force Surveys. Household income from work includes employer Central Provident Fund (CPF) contributions.

- 1 Household income from work per household member refers to the household income from work divided by the total number of members in the household. For example, if there is one person in a household of four who is working, his income is divided by four to derive the income per household member.
- 2 A resident employed household refers to a household headed by a Singapore citizen or permanent resident and with at least one working person.
- 3 Based on ranking of all resident employed households by their household income from work per household member.
- 4 Based on ranking of all resident employed households by their household income from work per household member after accounting for Government transfers and taxes.

 ${\tt Data\ on\ income\ after\ accounting\ for\ Government\ transfers\ and\ taxes\ for\ 2016\ are\ preliminary}.$

3.8 GINI COEFFICIENT ¹ AMONG RESIDENT EMPLOYED HOUSEHOLDS ²

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------------------|-------|-------|-----------|-------------|-------------|---------------|-----------|-------|
| | | | | Househo | d Income fr | om Work | | |
| Based on Per Household Member ³ | Ratio | 0.472 | 0.473 | 0.478 | 0.463 | 0.464 | 0.463 | 0.458 |
| Based on Modified OECD Scale ⁴ | Ratio | 0.448 | 0.452 | 0.457 | 0.442 | 0.444 | 0.440 | 0.435 |
| Based on Square Root Scale ⁵ | Ratio | 0.432 | 0.434 | 0.435 | 0.421 | 0.425 | 0.415 | 0.410 |
| | | | | Househol | d Income fr | om Work | | |
| | | | After Acc | ounting for | Governmen | t Transfers a | ind Taxes | |
| Based on Per Household Member ³ | Ratio | 0.425 | 0.423 | 0.432 | 0.409 | 0.411 | 0.409 | 0.402 |
| Based on Modified OECD Scale ⁴ | Ratio | 0.400 | 0.402 | 0.410 | 0.388 | 0.392 | 0.386 | 0.380 |
| Based on Square Root Scale ⁵ | Ratio | 0.379 | 0.380 | 0.383 | 0.363 | 0.369 | 0.357 | 0.351 |

Notes: Data for 2010 are from the Census of Population 2010.

Data for other years are based on the sample of households surveyed in the mid-year Comprehensive Labour Force Surveys. Household income from work includes employer Central Provident Fund (CPF) contributions. Data on income after accounting for Government transfers and taxes for 2016 are preliminary.

- 1 Internationally, there are differences in computation methods adopted by different countries, although the basic concept of Gini remains the same. One major difference is in the equivalence scale adopted. Equivalence scales take into account economies of scale within the household, and adjust for household size so that households of different sizes and compositions are comparable. There are different scales used by different countries.
- 2 A resident employed household refers to a household headed by a Singapore citizen or permanent resident and with at least one working person.
- 3 Household income from work per household member refers to the household income from work divided by the total number of members in the household. For example, if there is one person in a household of four who is working, his income is divided by four to derive the income per household member. The per household member scale is used by economies such as Hong Kong and Japan.
- 4 The modified Organisation of Economic Co-operation and Development (OECD) scale assigns the first adult in the household a weight of 1 point, and each additional adult a weight of 0.5 points and each child a weight of 0.3 points. Equivalised household income is derived by dividing the total household income by the sum of the points allocated to all the household members.
 - The modified OECD scale is used by Eurostat, the United Kingdom and Australia.
- 5 Based on the ranking of individuals by their household income on a 'per equivalised member basis' (i.e. household income is divided by square root of household size). This follows the approach adopted in the OECD 2008 report "Growing Unequal? Income Distribution and Poverty in OECD Countries".
 In following this approach, individuals such as children and maids would also be ranked. It is also noted that some OECD countries publish their own Gini using a different equivalence scale, and not the square root scale.





Labour and Productivity

4

Labour and Productivity



Labour Force



Labour force data are based on the mid-year Labour Force Surveys conducted by the Ministry of Manpower (MOM) every year except for 1990, 1995, 2000 and 2005 which are based on the Censuses of Population and the mid-decade General Household Surveys conducted by the Singapore Department of Statistics. The data refer to persons aged fifteen years and over. The reference period refers to the week preceding the date of interview.

Labour Force ('000), 2016

3,672.8



Definitions



Employed Persons: Refers to persons aged fifteen years and over who, during the reference period: (i) work for one hour or more either for pay, profit or family gains; or (ii) have a job or business to return to but are temporarily absent because of illness, injury, breakdown of machinery at workplace, labour-management dispute or other reasons. Members of the Singapore Armed Forces including full-time National Servicemen are included as persons employed, unless otherwise specified.

Unemployed Persons: Refers to persons aged fifteen years and over who are not working but are actively looking for a job and available for work during the reference period. They include persons who are not working but are taking steps to start their own business or taking up a new job after the reference period.

Persons In The Labour Force: Refers to persons aged fifteen years and over who are either employed or unemployed during the reference period.

Persons Outside The Labour Force: Refers to persons aged fifteen years and over who are neither employed nor unemployed during the reference period.

Age-Sex Specific Labour Force Participation Rate: Refers to the percentage of the labour force to the population in the specific sex and age group.

Unemployment Rate: Refers to the percentage of unemployed persons to the labour force.

Total Unemployment Rate (Seasonally Adjusted) in June 2016



2.1%

Labour Productivity: Measures output per unit of labour input. Value-added (VA) is generally used as the measure of output, while labour input may be measured by number of employed persons or hours worked per employee.

Gross Monthly Income From Work: Refers to income earned from employment. For employees, it refers to the gross monthly wages or salaries before deduction of employee CPF contributions and personal income tax. It comprises basic wages. overtime pav. commissions, other allowances tips, and one-twelfth of annual bonuses. For self-employed persons, gross monthly income refers to the average monthly profits from their business, trade or profession (i.e. total receipts less business expenses incurred) before deduction of income tax.

Hours Worked



Statistics on weekly hours worked are compiled from surveys conducted by MOM. Since 2006, both private and public sector establishments are covered in the surveys. For the private sector, only establishments with at least 25 employees are included.

Labour and Productivity







Weekly Paid Hours: Refers to the total number of paid hours worked during a week by an employee. It is the sum of standard hours and paid overtime hours worked.

Singapore Workforce Skills Qualifications System



The Singapore Workforce Skills Qualifications (WSQ) system was launched in October 2005. It is a national credentialing system that provides training and certifications for adult workers to obtain nationally recognized qualifications. industry-relevant emphasises flexible competency-based adult learning, open access to skills upgrading and clear career progression pathways for workers to upgrade their skills. The WSQ is anchored on the development of skills and competencies linked to occupational structures, and was developed in close consultation with industries. Under the WSQ system, competency standards, assessment strategies and training curriculum incorporating adult learning principles are established for each key industry.

Employment Assistance



Singapore citizens and permanent residents may seek employment assistance at the Workforce Singapore (WSG)'s Careers Connect or National Trades Union Congress (NTUC)'s Employment and Employability Institute centres. Statistics on new registrants for employment and/or training assistance and job seekers placed into employment are compiled by WSG.

Multifactor Productivity



Multifactor productivity relates output to a set of combined inputs, usually labour and capital. A change in multifactor productivity reflects the change in output that cannot be

accounted for by the change in combined inputs. Multifactor productivity therefore measures the effects of changes such as technological progress and changes in the organisation of production.

Central Provident Fund



The Central Provident Fund (CPF) is a comprehensive social security system that working Singapore enables Citizens and Permanent Residents to set aside funds for retirement. It also addresses healthcare, home ownership, family protection and asset enhancement.

The employer is liable to pay the total CPF contributions, and is entitled to recover the employee's contribution from the employee's wages. With effect from 1 January 2016, the CPF salary ceiling is \$6,000.

The CPF contribution rates for various age groups ¹, are as follows:

| Employee's Age | Employer | Employee | <u>Total</u> |
|------------------|-----------------|-----------------|--------------|
| | (Percent | of Monthly W | age) |
| ≤ 55 years | 17.0 | 20.0 | 37.0 |
| > 55 to 60 years | 13.0 | 13.0 | 26.0 |
| > 60 to 65 years | 9.0 | 7.5 | 16.5 |
| > 65 years | 7.5 | 5.0 | 12.5 |

All CPF members have three accounts with the CPF Board – the Ordinary, Medisave and Special Accounts. Savings in the Ordinary Account can be used to buy a home, pay for CPF insurance (such as Dependants' Protection Scheme and Home Protection Scheme), investment and education. Medisave savings can be used for hospitalization expenses, approved medical insurance and certain outpatient treatments while savings in the Special Account are reserved for old age and investment in retirement-related financial products.

From the age of 55, a Retirement Account is created for all CPF members. This account,

¹ For employees earning \$750 and above in monthly wages

Labour and Productivity



comprising monies transferred from his Special and/or Ordinary Accounts, is used to provide monthly payments for the member during retirement. With three levels of retirement sums — basic, full and enhanced, members now have more options to decide on the amount of savings to set aside, depending on the amount of monthly payouts they wish to receive in their retirement. Members 55 years old and above can also withdraw CPF savings after setting aside the Full Retirement Sum or Basic Retirement Sum with sufficient property charge/pledge in their Retirement Accounts.

Labour Relations **Labour**



Concepts and Definitions



Trade Union: Refers to a group or association of employees or employers whose principal objective is to regulate relations between employees and employers for all or any of the following purposes:

- Promote good industrial relations between employers and employees;
- Improve the working conditions of employees or enhance their economic and social status; and
- Raise productivity for the benefit of employees, employers and the economy of Singapore.

Trade Dispute: A dispute (including a threatened, impending or probable dispute) as to industrial matters.

Collective Agreement: Refers to an agreement between employers and employees as to industrial matters. The duration of a collective agreement is specified and by law shall not be less than two years or more than three years.

An Industrial Arbitration Court (IAC) Award refers to an award made by the IAC, and includes a collective agreement and a memorandum of the terms which have been certified by the President of the IAC in accordance with the provisions of the Industrial Relations Act.

Sources of Data (1)



Statistics on Employers' and Employees' Trade Unions and Trade Disputes are compiled by the Labour Relations and Workplaces Division (LRWD) of the Ministry of Manpower (MOM).

The LRWD monitors the industrial relations situation and provides mediation and conciliation services for the settlement of trade disputes. The Division also investigates complaints on infringements of the Employment Act which governs the terms and conditions of employment.

Statistics on Collective Agreements and Industrial Arbitration Court Awards are obtained from the Industrial Arbitration Court (IAC).

The IAC was set up in 1960 under the Industrial Relations Act. Its functions include the registration and certification of collective agreements, hearing and determination of trade disputes and handing down of awards and interpretation and enforcement of terms of awards and collective agreements.

Other References



Similar data are presented in the "Singapore Yearbook of Manpower Statistics", published by the Manpower Research and Statistics Department of MOM (MRSD).

Detailed statistics on the labour force are presented in the report "Labour Force in Singapore", published by MRSD.

4.1 LABOUR FORCE

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-----------------------|------|---------|---------|---------|---------|---------|---------|---------|
| Labour Force | | | | | | | | |
| Total | '000 | 3,135.9 | 3,237.1 | 3,361.8 | 3,443.7 | 3,530.8 | 3,610.6 | 3,672.8 |
| Residents | '000 | 2,047.3 | 2,080.1 | 2,119.6 | 2,138.8 | 2,185.2 | 2,232.3 | 2,257.6 |
| Employed | | | | | | | | |
| Total | '000 | 3,047.2 | 3,149.7 | 3,274.7 | 3,352.9 | 3,440.2 | 3,516.0 | 3,570.0 |
| Residents | '000 | 1,962.9 | 1,998.9 | 2,040.6 | 2,056.1 | 2,103.5 | 2,147.8 | 2,165.3 |
| Unemployed | | | | | | | | |
| Total | '000 | 88.8 | 87.4 | 87.1 | 90.7 | 90.7 | 94.6 | 102.8 |
| Residents | '000 | 84.4 | 81.2 | 79.0 | 82.6 | 81.8 | 84.5 | 92.3 |
| Unemployment Rate | | | | | | | | |
| (Seasonally Adjusted) | | | | | | | | |
| Total | % | 2.2 | 2.0 | 1.9 | 2.0 | 1.9 | 1.9 | 2.1 |
| Residents | % | 3.1 | 2.9 | 2.8 | 2.9 | 2.8 | 2.8 | 3.0 |
| Resident Labour Force | % | 66.2 | 66.1 | 66.6 | 66.7 | 67.0 | 68.3 | 68.0 |
| Participation Rate | | | | | | | | |
| Male | % | 76.5 | 75.6 | 76.0 | 75.8 | 75.9 | 76.7 | 76.2 |
| Female | % | 56.5 | 57.0 | 57.7 | 58.1 | 58.6 | 60.4 | 60.4 |

Source : Comprehensive Labour Force Survey, Manpower Research & Statistics Department, Ministry of Manpower

Notes : Data are for mid-year.

Total Population comprises residents and non-residents. Residents comprise Singapore citizens and permanent residents.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=10422 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=10421 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=7908

4.2 AGE-SPECIFIC RESIDENT LABOUR FORCE PARTICIPATION RATES

| | | | | | | | Per Cent |
|-------------------|------|------|------|------|------|------|----------|
| Age Group (Years) | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 66.2 | 66.1 | 66.6 | 66.7 | 67.0 | 68.3 | 68.0 |
| 15 - 19 | 15.4 | 12.3 | 12.4 | 11.8 | 12.3 | 15.8 | 15.3 |
| 20 - 24 | 65.8 | 62.8 | 63.6 | 61.7 | 61.8 | 65.3 | 62.3 |
| 25 - 29 | 89.4 | 89.2 | 88.3 | 88.5 | 89.0 | 90.3 | 90.3 |
| 30 - 34 | 89.0 | 88.6 | 89.8 | 90.1 | 89.9 | 90.2 | 90.8 |
| 35 - 39 | 86.2 | 87.3 | 88.0 | 88.0 | 88.8 | 89.1 | 89.7 |
| 40 - 44 | 84.4 | 84.9 | 85.4 | 85.7 | 87.1 | 87.6 | 88.2 |
| 45 - 49 | 82.4 | 83.7 | 84.4 | 84.5 | 84.7 | 85.9 | 86.3 |
| 50 - 54 | 78.6 | 79.7 | 79.5 | 80.0 | 81.8 | 82.4 | 81.4 |
| 55 - 59 | 68.3 | 70.2 | 72.4 | 73.2 | 74.3 | 75.5 | 75.8 |
| 60 - 64 | 51.0 | 54.7 | 58.1 | 59.7 | 61.2 | 62.4 | 62.8 |
| 65 - 69 | 30.9 | 36.2 | 38.6 | 40.2 | 41.2 | 42.2 | 43.2 |
| 70 - 74 | 18.7 | 20.4 | 21.9 | 24.2 | 25.7 | 24.9 | 26.8 |
| 75 & Over | 5.4 | 6.4 | 6.7 | 7.6 | 8.4 | 8.8 | 8.4 |

Source : Comprehensive Labour Force Survey, Manpower Research & Statistics Department, Ministry of Manpower

Notes: Data are for mid-year.

 $\label{lem:comprise} \textbf{Residents comprise Singapore citizens and permanent residents.}$

4.3 AGE-SPECIFIC RESIDENT MALE LABOUR FORCE PARTICIPATION RATES

| And Curry (Variety | 2010 | 2011 | 2012 | 2012 | 2014 | 2015 | Per Cent |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Age Group (Years) | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 76.5 | 75.6 | 76.0 | 75.8 | 75.9 | 76.7 | 76.2 |
| 15 - 19 | 17.5 | 14.6 | 13.8 | 13.2 | 14.9 | 18.3 | 18.0 |
| 20 - 24 | 66.2 | 63.2 | 64.5 | 63.2 | 63.6 | 64.4 | 62.6 |
| 25 - 29 | 93.3 | 91.8 | 89.9 | 89.0 | 89.4 | 90.9 | 90.0 |
| | | | | | | | |
| 30 - 34 | 97.7 | 97.4 | 97.2 | 97.2 | 97.5 | 97.4 | 97.0 |
| 35 - 39 | 98.0 | 97.7 | 98.2 | 97.5 | 97.2 | 97.5 | 97.8 |
| 40 - 44 | 96.8 | 97.1 | 97.1 | 97.1 | 96.8 | 97.1 | 97.2 |
| | | | | | | | |
| 45 - 49 | 96.1 | 96.0 | 95.6 | 96.1 | 96.4 | 96.9 | 96.3 |
| 50 - 54 | 92.6 | 93.5 | 93.8 | 94.0 | 93.8 | 94.2 | 92.9 |
| 55 - 59 | 85.0 | 85.7 | 88.5 | 87.6 | 87.5 | 88.2 | 88.7 |
| | | | | | | | |
| 60 - 64 | 67.5 | 71.1 | 74.6 | 75.0 | 77.0 | 77.2 | 76.9 |
| 65 - 69 | 43.7 | 49.1 | 52.6 | 53.4 | 54.1 | 54.5 | 55.7 |
| 70 - 74 | 27.3 | 31.1 | 32.1 | 35.8 | 37.3 | 34.5 | 35.4 |
| 75 & Over | 9.8 | 11.1 | 11.5 | 12.5 | 13.6 | 13.8 | 13.4 |
| | 15 - 19 20 - 24 25 - 29 30 - 34 35 - 39 40 - 44 45 - 49 50 - 54 55 - 59 60 - 64 65 - 69 70 - 74 | Total 76.5 15 - 19 17.5 20 - 24 66.2 25 - 29 93.3 30 - 34 97.7 35 - 39 98.0 40 - 44 96.8 45 - 49 96.1 50 - 54 92.6 55 - 59 85.0 60 - 64 67.5 65 - 69 43.7 70 - 74 27.3 | Total 76.5 75.6 15 - 19 17.5 14.6 20 - 24 66.2 63.2 25 - 29 93.3 91.8 30 - 34 97.7 97.4 35 - 39 98.0 97.7 40 - 44 96.8 97.1 45 - 49 96.1 96.0 50 - 54 92.6 93.5 55 - 59 85.0 85.7 60 - 64 67.5 71.1 65 - 69 43.7 49.1 70 - 74 27.3 31.1 | Total 76.5 75.6 76.0 15 - 19 17.5 14.6 13.8 20 - 24 66.2 63.2 64.5 25 - 29 93.3 91.8 89.9 30 - 34 97.7 97.4 97.2 35 - 39 98.0 97.7 98.2 40 - 44 96.8 97.1 97.1 45 - 49 96.1 96.0 95.6 50 - 54 92.6 93.5 93.8 55 - 59 85.0 85.7 88.5 60 - 64 67.5 71.1 74.6 65 - 69 43.7 49.1 52.6 70 - 74 27.3 31.1 32.1 | Total 76.5 75.6 76.0 75.8 15 - 19 17.5 14.6 13.8 13.2 20 - 24 66.2 63.2 64.5 63.2 25 - 29 93.3 91.8 89.9 89.0 30 - 34 97.7 97.4 97.2 97.2 35 - 39 98.0 97.7 98.2 97.5 40 - 44 96.8 97.1 97.1 97.1 45 - 49 96.1 96.0 95.6 96.1 50 - 54 92.6 93.5 93.8 94.0 55 - 59 85.0 85.7 88.5 87.6 60 - 64 67.5 71.1 74.6 75.0 65 - 69 43.7 49.1 52.6 53.4 70 - 74 27.3 31.1 32.1 35.8 | Total 76.5 75.6 76.0 75.8 75.9 15 - 19 17.5 14.6 13.8 13.2 14.9 20 - 24 66.2 63.2 64.5 63.2 63.6 25 - 29 93.3 91.8 89.9 89.0 89.4 30 - 34 97.7 97.4 97.2 97.2 97.5 35.39 98.0 97.7 98.2 97.5 97.2 40.2 44 96.8 97.1 97.1 97.1 96.8 45 - 49 96.1 96.0 95.6 96.1 96.4 50 - 54 92.6 93.5 93.8 94.0 93.8 55 - 59 85.0 85.7 88.5 87.6 87.5 60 - 64 67.5 71.1 74.6 75.0 77.0 65 - 69 43.7 49.1 52.6 53.4 54.1 70 - 74 27.3 31.1 32.1 35.8 37.3 | Total 76.5 75.6 76.0 75.8 75.9 76.7 15 - 19 17.5 14.6 13.8 13.2 14.9 18.3 20 - 24 66.2 63.2 64.5 63.2 63.6 64.4 25 - 29 93.3 91.8 89.9 89.0 89.4 90.9 30 - 34 97.7 97.4 97.2 97.2 97.5 97.4 35 - 39 98.0 97.7 98.2 97.5 97.2 97.5 40 - 44 96.8 97.1 97.1 97.1 96.8 97.1 45 - 49 96.1 96.0 95.6 96.1 96.4 96.9 50 - 54 92.6 93.5 93.8 94.0 93.8 94.2 55 - 59 85.0 85.7 88.5 87.6 87.5 88.2 60 - 64 67.5 71.1 74.6 75.0 77.0 77.2 65 - 69 43.7 49.1 52.6 53.4 54.1 54.5 70 - 74 27.3 31.1 32.1 |

Source: Comprehensive Labour Force Survey, Manpower Research & Statistics Department, Ministry of Manpower

Notes: Data are for mid-year.

Residents comprise Singapore citizens and permanent residents.

4.4 AGE-SPECIFIC RESIDENT FEMALE LABOUR FORCE PARTICIPATION RATES

| | | | | | | | Per Cent |
|-------------------|------|------|------|------|------|------|----------|
| Age Group (Years) | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 56.5 | 57.0 | 57.7 | 58.1 | 58.6 | 60.4 | 60.4 |
| 15 - 19 | 13.1 | 9.8 | 10.9 | 10.2 | 9.6 | 13.1 | 12.4 |
| 20 - 24 | 65.3 | 62.5 | 62.6 | 59.9 | 59.8 | 66.3 | 62.0 |
| 25 - 29 | 85.7 | 86.7 | 86.8 | 88.0 | 88.6 | 89.7 | 90.6 |
| 30 - 34 | 81.3 | 81.0 | 83.3 | 83.7 | 83.3 | 83.9 | 85.3 |
| 35 - 39 | 75.2 | 77.6 | 78.9 | 79.4 | 80.9 | 81.7 | 82.3 |
| 40 - 44 | 72.7 | 73.9 | 74.8 | 75.4 | 78.1 | 78.9 | 80.2 |
| 45 - 49 | 68.9 | 71.5 | 73.4 | 73.1 | 73.7 | 75.5 | 77.2 |
| 50 - 54 | 64.9 | 66.1 | 65.6 | 66.5 | 70.4 | 70.6 | 70.3 |
| 55 - 59 | 51.7 | 55.1 | 56.2 | 59.1 | 61.4 | 62.8 | 63.1 |
| 60 - 64 | 35.4 | 38.4 | 41.7 | 44.2 | 45.5 | 47.7 | 48.8 |
| 65 - 69 | 19.1 | 23.9 | 26.3 | 27.9 | 29.5 | 31.1 | 31.4 |
| 70 - 74 | 11.3 | 11.3 | 13.4 | 14.1 | 15.6 | 16.5 | 19.3 |
| 75 & Over | 2.7 | 3.3 | 3.4 | 4.2 | 4.7 | 5.5 | 5.1 |
| | | | | | | | |

Source : Comprehensive Labour Force Survey, Manpower Research & Statistics Department, Ministry of Manpower

Notes: Data are for mid-year.

 $\label{lem:comprise} \textbf{Residents comprise Singapore citizens and permanent residents.}$

4.5 EMPLOYED RESIDENTS AGED 15 YEARS AND OVER BY OCCUPATION

| - | - | | | | | | | |
|-----|---|---|---|---|----|---|---|---|
| - 1 | Ш | n | n | u | ıς | а | n | r |

| | | | | | | | mousand |
|--------------------------------------------|---------|---------|---------|---------|---------|---------|---------|
| Occupation | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 1,962.9 | 1,998.9 | 2,040.6 | 2,056.1 | 2,103.5 | 2,147.8 | 2,165.3 |
| Legislators, Senior Officials & Managers | 335.2 | 355.9 | 346.3 | 349.6 | 342.3 | 345.3 | 324.8 |
| Professionals | 382.5 | 343.7 | 367.3 | 366.9 | 373.5 | 392.9 | 412.9 |
| Associate Professionals and Technicians | 310.4 | 351.1 | 352.8 | 373.6 | 408.9 | 428.8 | 455.2 |
| Clerical Support Workers | 240.5 | 245.2 | 262.2 | 268.0 | 265.3 | 264.5 | 241.1 |
| Service and Sales Workers | 239.4 | 240.5 | 257.7 | 249.4 | 248.3 | 255.9 | 267.8 |
| Craftsmen and Related Trades Workers | 86.5 | 89.5 | 90.6 | 82.2 | 82.2 | 83.9 | 79.2 |
| Plant and Machine Operators and Assemblers | 154.2 | 157.7 | 149.8 | 147.7 | 146.4 | 146.2 | 152.1 |
| Cleaners, Labourers and Related Workers | 145.5 | 145.7 | 145.3 | 150.2 | 166.0 | 160.3 | 160.7 |
| Others ¹ | 68.7 | 69.6 | 68.6 | 68.7 | 70.8 | 70.0 | 71.6 |
| | | | | | | | |

Source : Comprehensive Labour Force Survey, Manpower Research & Statistics Department, Ministry of Manpower

Notes : Data are for mid-year.

Residents comprise Singapore citizens and permanent residents.

Data are classified based on Singapore Standard Occupation Classification 2015.

 $^{{\}bf 1} \ {\bf Includes} \ {\bf Agricultural} \ \& \ {\bf Fishery} \ {\bf Workers} \ {\bf and} \ {\bf Workers} \ {\bf Not} \ {\bf Classifiable} \ {\bf by} \ {\bf Occupation}.$

4.6 EMPLOYED RESIDENTS AGED 15 YEARS AND OVER BY INDUSTRY

| | | | | | | | Thousand |
|--------------------------------------------|---------|---------|---------|---------|---------|---------|----------|
| Industry | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 1,962.9 | 1,998.9 | 2,040.6 | 2,056.1 | 2,103.5 | 2,147.8 | 2,165.3 |
| Manufacturing | 291.4 | 292.4 | 288.2 | 280.0 | 249.3 | 238.7 | 227.5 |
| Construction | 104.0 | 99.7 | 104.5 | 101.9 | 98.2 | 110.4 | 100.9 |
| Services | 1,529.9 | 1,583.3 | 1,621.4 | 1,647.5 | 1,731.2 | 1,775.4 | 1,816.8 |
| Wholesale & Retail Trade | 281.7 | 300.5 | 306.3 | 302.2 | 346.3 | 364.1 | 364.1 |
| Transportation and Storage | 191.3 | 192.0 | 189.5 | 192.6 | 188.9 | 187.6 | 188.4 |
| Accommodation and Food Services Activities | 128.9 | 135.2 | 129.3 | 135.1 | 137.1 | 139.1 | 138.2 |
| Information & Communications | 99.9 | 85.4 | 85.8 | 92.1 | 87.8 | 83.5 | 84.6 |
| Financial and Insurance Activities | 126.0 | 145.5 | 150.6 | 147.8 | 165.6 | 167.3 | 190.7 |
| Business Services ¹ | 253.5 | 271.6 | 289.7 | 291.6 | 311.3 | 333.4 | 334.7 |
| Community, Social & Personal Services | 448.6 | 453.1 | 470.1 | 486.1 | 494.3 | 500.5 | 516.1 |
| Others ² | 37.6 | 23.5 | 26.5 | 26.8 | 24.8 | 23.3 | 20.2 |

Source : Comprehensive Labour Force Survey, Manpower Research & Statistics Department, Ministry of Manpower

Notes: Data are for mid-year.

Residents comprise Singapore citizens and permanent residents.

Data across the various years may not be strictly comparable due to revisions in the industrial classification.

Data from 2010 to 2014 are classified according to the Singapore Standard Industrial Classification (SSIC) 2010.

Data from 2015 are classified according to the SSIC 2015.

- 1 Includes Real Estate Activities, Professional, Scientific & Technical Activities, Administrative & Support Service Activities.
- ${\bf 2} \quad \text{Includes Agriculture, Fishing, Quarrying, Utilities and Sewage \& Waste Management.}$

4.7 GOVERNMENT EMPLOYEES IN THE PUBLIC SERVICE (End of Period)

| | | | | | | | Number |
|--------------------------------|---------|---------|---------|---------|---------|---------|---------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 127,279 | 131,228 | 136,027 | 138,720 | 140,865 | 143,183 | 144,980 |
| Ministries and Organs of State | 75,836 | 77,540 | 80,210 | 81,508 | 82,291 | 83,713 | 84,393 |
| Statutory Boards | 51,443 | 53,688 | 55,817 | 57,212 | 58,574 | 59,470 | 60,587 |

Source: Public Service Division, Prime Minister's Office

Notes: Data exclude Daily-Rated Employees.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=14357

4.8 GOVERNMENT EMPLOYEES IN THE CIVIL SERVICE ¹ BY SEX (End of Period)

| | | | | | | | Numbe |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|
| Gender | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 75,836 | 77,540 | 80,210 | 81,508 | 82,291 | 83,713 | 84,393 |
| Males | 33,034 | 33,461 | 34,584 | 35,162 | 35,659 | 36,653 | 37,087 |
| Females | 42,802 | 44,079 | 45,626 | 46,346 | 46,632 | 47,060 | 47,306 |
| Senior Executive & above | 40,160 | 41,957 | 44,720 | 46,656 | 48,747 | 55,020 | 56,072 |
| Males | 14,964 | 15,534 | 16,432 | 17,072 | 17,790 | 19,492 | 20,102 |
| Females | 25,196 | 26,423 | 28,288 | 29,584 | 30,957 | 35,528 | 35,970 |
| Junior Executive | 35,676 | 35,583 | 35,490 | 34,852 | 33,544 | 28,693 | 28,321 |
| Males | 18,070 | 17,927 | 18,152 | 18,090 | 17,869 | 17,161 | 16,985 |
| Females | 17,606 | 17,656 | 17,338 | 16,762 | 15,675 | 11,532 | 11,336 |

Source: Public Service Division, Prime Minister's Office

Notes: Data exclude Daily-Rated Employees.

- $1\quad \hbox{Refers to officers in the Ministries and Organs of State. Statutory Board officers are not included.}$
- 2 Prior to 2016, Senior Executive & above and Junior Executive were represented by officers in the Divisional Status I and Divisional Statuses II to IV respectively.

4.9 GOVERNMENT EMPLOYEES IN THE STATUTORY BOARDS BY SEX (End of Period)

| | | | | | | | Number |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|
| Gender | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | | | | | |
| Total | 51,443 | 53,688 | 55,817 | 57,212 | 58,574 | 59,470 | 60,587 |
| Males | 25,525 | 26,471 | 27,480 | 28,304 | 28,952 | 29,429 | 30,117 |
| Females | 25,918 | 27,217 | 28,337 | 28,908 | 29,622 | 30,041 | 30,470 |
| Senior Executive & above | 32,474 | 34,682 | 37,043 | 38,634 | 40,699 | 42,098 | 42,483 |
| Males | 17,154 | 18,138 | 19,293 | 20,027 | 21,093 | 21,693 | 21,786 |
| Females | 15,320 | 16,544 | 17,750 | 18,607 | 19,606 | 20,405 | 20,697 |
| Junior Executive | 18,969 | 19,006 | 18,774 | 18,578 | 17,875 | 17,372 | 18,104 |
| Males | 8,371 | 8,333 | 8,187 | 8,277 | 7,859 | 7,736 | 8,331 |
| Females | 10,598 | 10,673 | 10,587 | 10,301 | 10,016 | 9,636 | 9,773 |
| | | | | | | | |

Source: Public Service Division, Prime Minister's Office

Notes: Data exclude Daily-Rated Employees.

¹ Prior to 2016, Senior Executive & above and Junior Executive were represented by officers in the Divisional Status I and Divisional Statuses II to IV respectively.

4.10 CENTRAL PROVIDENT FUND MEMBERS ¹ BY AGE GROUP (End of Period)

| | | | | | | | Thousand |
|-------------------|---------|---------|---------|---------|---------|---------|----------|
| Age Group (Years) | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 3,343.3 | 3,376.3 | 3,418.6 | 3,507.6 | 3,593.3 | 3,685.9 | 3,761.5 |
| Up to 20 | 106.0 | 110.4 | 112.8 | 117.6 | 123.1 | 126.2 | 119.7 |
| > 20 - 25 | 220.5 | 229.4 | 236.6 | 234.4 | 241.0 | 248.0 | 249.2 |
| > 25 - 30 | 267.8 | 257.6 | 252.6 | 260.9 | 266.5 | 273.9 | 285.0 |
| > 30 - 35 | 305.1 | 301.8 | 303.7 | 302.6 | 299.8 | 298.8 | 291.1 |
| > 35 - 40 | 335.6 | 333.9 | 326.8 | 320.3 | 318.5 | 320.6 | 318.5 |
| > 40 - 45 | 359.4 | 349.6 | 346.6 | 346.7 | 347.0 | 342.6 | 341.3 |
| > 45 - 50 | 425.7 | 419.6 | 407.3 | 392.0 | 373.5 | 360.4 | 351.2 |
| > 50 - 55 | 379.3 | 384.9 | 390.5 | 396.9 | 399.8 | 398.1 | 393.5 |
| > 55 - 60 | 302.8 | 316.8 | 328.9 | 339.4 | 348.4 | 357.6 | 364.1 |
| Over 60 | 616.2 | 648.4 | 689.2 | 734.9 | 779.0 | 825.7 | 875.6 |
| Not specified | 24.8 | 24.1 | 23.7 | 62.2 | 96.7 | 133.9 | 172.3 |

Source: Central Provident Fund (CPF) Board

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=5304

4.11 ACTIVE CENTRAL PROVIDENT FUND MEMBERS ¹ BY AGE GROUP (End of Period)

| Age Group (Years) | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2010 |
|-------------------|---------|---------|---------|---------|---------|---------|-------|
| Total | 1,700.4 | 1,735.4 | 1,788.8 | 1,854.3 | 1,951.0 | 1,959.3 | 1,974 |
| Up to 20 | 43.9 | 42.5 | 45.7 | 49.3 | 56.8 | 49.7 | 45 |
| > 20 - 25 | 115.5 | 118.6 | 122.4 | 122.1 | 129.4 | 120.1 | 11 |
| > 25 - 30 | 209.3 | 202.2 | 199.8 | 208.2 | 217.6 | 221.0 | 22 |
| > 30 - 35 | 231.1 | 229.4 | 232.2 | 233.9 | 235.7 | 233.5 | 22 |
| > 35 - 40 | 232.0 | 234.3 | 233.2 | 232.4 | 236.6 | 237.5 | 23 |
| > 40 - 45 | 210.6 | 214.0 | 220.9 | 228.7 | 237.4 | 236.7 | 23 |
| > 45 - 50 | 206.9 | 210.4 | 212.6 | 214.6 | 217.2 | 215.4 | 21 |
| > 50 - 55 | 182.7 | 188.1 | 194.4 | 201.1 | 209.9 | 210.6 | 21 |
| > 55 - 60 | 132.0 | 142.6 | 153.9 | 165.3 | 178.3 | 182.9 | 18 |
| Over 60 | 136.2 | 153.3 | 173.5 | 198.6 | 232.1 | 251.8 | 27 |
| Not specified | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |

Source: Central Provident Fund Board

¹ Refer to persons (including self-employed) who have CPF balances in any of their CPF accounts.

¹ Refer to persons who have at least one contribution paid for them for the current or any of the preceding three months. Data exclude self-employed persons who are not employees concurrently.

4.12 ACTIVE CENTRAL PROVIDENT FUND MEMBERS ¹ BY INDUSTRY

(End of Period)

| | | | | | | | Thousand |
|-------------------------------------------------|---------|---------|---------|---------|---------|---------|----------|
| Industry | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 1,700.4 | 1,735.4 | 1,788.8 | 1,854.3 | 1,951.0 | 1,959.3 | 1,974.3 |
| Manufacturing | 256.7 | 254.5 | 254.6 | 253.1 | 252.7 | 246.8 | 244.5 |
| Construction | 100.4 | 102.1 | 105.4 | 110.2 | 113.3 | 113.2 | 111.8 |
| Services | | | | | | | |
| Wholesale & Retail Trade | 258.1 | 264.9 | 273.9 | 286.0 | 305.0 | 298.1 | 293.0 |
| Transport & Storage | 109.5 | 110.8 | 114.7 | 119.1 | 123.4 | 124.3 | 126.1 |
| Accommodation & Food Service Activities | 98.8 | 101.1 | 108.9 | 116.9 | 125.9 | 129.3 | 133.0 |
| Information & Communications | 63.9 | 65.1 | 66.5 | 69.2 | 74.0 | 75.0 | 78.5 |
| Financial & Insurance Activities | 133.7 | 139.6 | 142.7 | 147.6 | 156.3 | 159.5 | 160.3 |
| Real Estate Activities | 45.3 | 45.1 | 45.8 | 46.8 | 53.9 | 49.7 | 48.8 |
| Professional, Scientific & Technical Activities | 126.8 | 130.2 | 137.0 | 146.0 | 159.6 | 162.4 | 163.7 |
| Administrative & Support Service Activities | 152.6 | 157.6 | 160.5 | 166.1 | 173.5 | 177.8 | 179.7 |
| Other Service Activities | 340.1 | 349.5 | 363.4 | 377.2 | 397.2 | 407.2 | 417.6 |
| Others ² | 14.4 | 15.0 | 15.5 | 16.2 | 16.3 | 16.0 | 17.3 |
| | | | | | | | |

Source: Central Provident Fund Board

Notes: Data prior to 2016 are classified according to the Singapore Standard Industrial Classification (SSIC) 2010.

Data from 2016 are classified according to the SSIC 2015.

¹ Refer to persons who have at least one contribution paid for them for the current or any of the preceding three months. Data exclude self-employed persons who are not employees concurrently.

² Includes Agriculture, Fishing, Quarrying, Utilities, Sewage & Waste Management and Activities Not Adequately Defined.

4.13 EMPLOYMENT SERVICES

Number

| | 2014 | 2015 | 2016 |
|------------------------------|--------|--------|--------|
| New Registrants ¹ | 34,709 | 30,223 | 23,770 |
| Males | 16,201 | 16,070 | 12,857 |
| Females | 18,508 | 14,153 | 10,913 |
| Placements ² | 14,814 | 13,278 | 14,428 |
| Males | 8,067 | 7,437 | 8,022 |
| Females | 6,747 | 5,841 | 6,406 |

Source: Workforce Singapore (WSG)

Notes: Data are based on date of data entry.

Data prior to Oct 2016 were from Singapore Workforce Development Agency (WDA), which was reconstituted into Workforce Singapore (WSG) in Oct 2016.

WSG's career services were delivered through WSG's Careers Connect and National Trades Union Congress (NTUC)'s Employment and Employability Institute (e2i) centres.

- 1 Refers to the number of people who registered for employment and/or training assistance at WSG's Careers Connect and NTUC's e2i centres. Data are based on unique counts of jobseekers within the reference period.
- 2 Refers to the number of people who were placed into employment by WSG's Careers Connect and NTUC's e2i centres.

 This includes those who found their own jobs after receiving services from WSG's Careers Connect and NTUC's e2i centres.

 Data are based on unique counts of jobseekers within the reference period.

4.14 CHANGES IN VALUE ADDED PER WORKER BY INDUSTRY

Per Cent Industry 2013 2010 2011 2014 2016 2012 2015 Total 1 11.6 2.3 -0.1 0.9 -0.2 -0.2 1.0 Total (excluding Construction) ¹ 11.9 2.2 0.2 1.7 -0.1 -0.3 1.0 Goods Producing Industries ² 25.0 5.7 -2.1 -2.7 0.8 -2.7 4.2 7.1 32.2 7.9 -1.2 0.3 2.5 -2.7 Manufacturing Construction 2.2 2.7 -5.5 -0.5 4.0 1.1 1.9 -0.4 Services Producing Industries² 6.7 1.9 0.9 3.3 0.0 -1.0 Wholesale & Retail Trade 12.9 3.1 1.5 4.4 -1.4 2.8 0.9 Transportation & Storage 1.3 1.4 -0.5 -0.3 -0.7 4.6 0.6 Accommodation & Food Services 9.4 -0.8 -2.3 -0.9 4.6 -1.7 -1.8 Information & Communications 1.4 -2.6 4.3 2.4 2.2 -6.0 -0.6 Finance & Insurance 6.4 1.2 13.9 4.8 2.2 -0.8 1.5 **Business Services** 3.0 2.2 -0.2 0.2 -3.9 -0.6 -3.1 Other Services Industries 7.3 0.5 -0.9 -2.3 0.0 -0.9 -0.2

Sources: Singapore Department of Statistics

Manpower Research & Statistics Department, Ministry of Manpower

Notes: The industries are classified according to the Singapore Standard Industrial Classification 2015.

1 Based on Gross Domestic Product at 2010 Market Prices.

2 Based on Gross Value Added at 2010 Basic Prices.

4.15 MULTIFACTOR PRODUCTIVITY: CONTRIBUTIONS TO GROWTH IN REAL GDP 1

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|----------------------------------------------------|------|------|------|------|------|------|------|
| Percentage Change in Real GDP | 14.2 | 6.0 | 3.8 | 4.9 | 3.5 | 1.9 | 2.0 |
| Percentage Contribution to Growth in Real GDP of : | | | | | | | |
| Capital Input | 3.0 | 3.0 | 3.1 | 3.1 | 2.6 | 2.4 | 2.0 |
| Labour Input | 1.4 | 1.6 | 1.7 | 1.8 | 1.7 | 1.0 | 0.5 |
| Multifactor Productivity Growth | 9.8 | 1.4 | -1.0 | 0.0 | -0.8 | -1.5 | -0.5 |

¹ All growth rates are expressed in log terms.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=1408

4.16 GROSS MONTHLY INCOME FROM WORK (INCLUDING EMPLOYER CPF) OF FULL-TIME EMPLOYED RESIDENTS

Dollars

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Median (50 th Percentile) | 3,000 | 3,249 | 3,480 | 3,705 | 3,770 | 3,949 | 4,056 |
| 20 th Percentile | 1,600 | 1,733 | 1,740 | 1,885 | 1,972 | 2,012 | 2,106 |

Source: Comprehensive Labour Force Survey, Manpower Research & Statistics Department, Ministry of Manpower

Notes: Data are for mid-year. As the income data are captured from a sample survey, the income changes for the 20th percentile nearer the end of the income spectrum tend to be more volatile over shorter (e.g. year-on-year) than longer periods (e.g. 5 or 10 years).

Gross monthly income from work refers to income earned from employment. For employees, it refers to the gross monthly wages or salaries before deduction of employee CPF contributions and personal income tax. It comprises basic wages, overtime pay, commissions, tips, other allowances and one-twelfth of annual bonuses.

For self-employed persons, gross monthly income refers to the average monthly profits from their business, trade or profession (i.e. total receipts less business expenses incurred) before deduction of income tax.

Data exclude full-time National Servicemen.

Residents refer to Singapore citizens and permanent residents.

Full-time employment refers to employment where the normal hours of work is 35 hours or more in a week.

4.17 AVERAGE WEEKLY PAID HOURS WORKED PER EMPLOYEE BY INDUSTRY

Hours Industry 2010 2011 2012 2013 2014 2015 2016 Total 46.2 46.2 46.2 46.2 46.0 45.6 45.5 Manufacturing 50.5 50.2 50.2 50.1 49.7 49.3 48.9 53.2 Construction 52.4 52.8 53.0 52.9 52.1 52.0 Wholesale & Retail Trade 43.8 43.7 43.2 43.1 43.0 42.7 43.6 45.7 45.8 45.9 Transportation & Storage 45.7 46.2 46.1 45.7 Accommodation & Food Services 41.2 41.6 42.1 43.0 42.0 41.5 42.0 Information & Communications 41.7 41.5 41.5 41.7 41.5 41.5 41.4 Financial & Insurance Services 41.4 41.2 41.2 41.2 41.1 41.1 41.1 **Real Estate Services** 44.7 44.6 44.5 44.6 44.5 44.8 45.0 **Professional Services** 43.0 43.1 43.6 43.1 43.3 43.6 42.9 48.7 48.5 47.5 47.3 46.6 Administrative & Support Services 48.5 46.4 Community, Social & Personal Services 42.0 42.1 42.1 42.1 42.0 42.1 42.1 Others 1 46.3 45.8 45.7 45.7 45.6 45.6 45.7

Source: Labour Market Survey, Manpower Research & Statistics Department, Ministry of Manpower

Notes: Data pertain to private sector establishments (each with at least 25 employees) and the public sector.

Data are based on Singapore Standard Industrial Classification 2010.

1 Includes Agriculture, Fishing, Quarrying, Utilities and Sewage & Waste Management.

4.18 AVERAGE MONTHLY RECRUITMENT RATE BY INDUSTRY AND OCCUPATIONAL GROUP

| | | | | | | | Per Cent |
|---------------------------------------|------|------|------|------|------|------|----------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 2.8 | 2.7 | 2.8 | 2.7 | 2.6 | 2.4 | 2.2 |
| Industry | | | | | | | |
| Manufacturing | 2.0 | 2.0 | 1.9 | 1.9 | 1.8 | 1.6 | 1.6 |
| Construction | 2.5 | 2.8 | 3.4 | 3.3 | 2.6 | 2.5 | 2.1 |
| Services | 3.2 | 3.0 | 2.9 | 2.8 | 2.8 | 2.6 | 2.4 |
| Wholesale & Retail Trade | 3.6 | 3.2 | 3.4 | 3.5 | 3.1 | 2.7 | 2.5 |
| Transportation & Storage | 2.3 | 2.4 | 2.3 | 2.3 | 2.1 | 2.0 | 1.8 |
| Accommodation & Food Services | 4.7 | 4.9 | 4.6 | 4.6 | 4.7 | 4.5 | 3.9 |
| Information & Communications | 3.2 | 3.0 | 2.8 | 2.7 | 3.0 | 2.6 | 2.2 |
| Financial & Insurance Services | 2.7 | 2.4 | 1.9 | 2.1 | 2.2 | 2.0 | 1.9 |
| Real Estate Services | 3.9 | 4.1 | 4.1 | 3.6 | 3.8 | 3.5 | 3.5 |
| Professional Services | 2.7 | 2.8 | 2.9 | 2.5 | 2.3 | 2.2 | 2.3 |
| Administrative & Support Services | 4.8 | 4.9 | 4.6 | 4.8 | 5.2 | 4.7 | 4.4 |
| Community, Social & Personal Services | 2.3 | 1.9 | 1.8 | 1.6 | 1.6 | 1.6 | 1.4 |
| Others ¹ | 2.0 | 2.1 | 2.4 | 2.2 | 2.1 | 1.6 | 1.3 |
| Occupational Group | | | | | | | |
| Professionals, Managers, Executives & | | | | | | | |
| Technicians | 2.2 | 2.1 | 1.9 | 1.9 | 1.9 | 1.8 | 1.6 |
| Clerical, Sales & Service Workers | 4.0 | 3.8 | 3.7 | 3.8 | 3.8 | 3.5 | 3.1 |
| Production & Transport Operators, | | | | | | | |
| Cleaners & Labourers | 2.7 | 2.8 | 3.1 | 3.1 | 2.9 | 2.6 | 2.5 |

Source: Labour Market Survey, Manpower Research & Statistics Department, Ministry of Manpower

Notes: Data pertain to private sector establishments with at least 25 employees, and the public sector.

Data are classified according to the Singapore Standard Industrial Classification 2010.

¹ Includes Agriculture, Fishing, Quarrying, Utilities and Sewerage & Waste Management.

4.19 AVERAGE MONTHLY RESIGNATION RATE BY INDUSTRY AND OCCUPATIONAL GROUP

| | | | | | | | Per Cent |
|---------------------------------------|------|------|------|------|------|------|----------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 2.0 | 2.0 | 2.1 | 2.0 | 2.0 | 1.9 | 1.8 |
| Industry | | | | | | | |
| Manufacturing | 1.5 | 1.6 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 |
| Construction | 1.8 | 1.7 | 1.8 | 2.0 | 1.9 | 1.8 | 1.7 |
| Services | 2.3 | 2.2 | 2.3 | 2.2 | 2.2 | 2.0 | 1.9 |
| Wholesale & Retail Trade | 2.9 | 2.6 | 2.9 | 2.9 | 2.6 | 2.2 | 2.2 |
| Transportation & Storage | 1.6 | 1.6 | 1.6 | 1.7 | 1.7 | 1.5 | 1.4 |
| Accommodation & Food Services | 4.1 | 4.2 | 4.3 | 4.1 | 4.3 | 4.0 | 3.6 |
| Information & Communications | 2.1 | 1.9 | 2.0 | 2.0 | 1.8 | 1.8 | 1.7 |
| Financial & Insurance Services | 1.6 | 1.5 | 1.2 | 1.4 | 1.4 | 1.3 | 1.2 |
| Real Estate Services | 3.3 | 3.2 | 3.3 | 3.0 | 3.4 | 3.1 | 2.9 |
| Professional Services | 1.9 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.6 |
| Administrative & Support Services | 4.1 | 3.9 | 4.1 | 3.8 | 4.0 | 3.4 | 3.5 |
| Community, Social & Personal Services | 1.2 | 1.2 | 1.2 | 1.1 | 1.1 | 1.1 | 1.0 |
| Others ¹ | 1.6 | 1.7 | 1.7 | 1.5 | 1.5 | 1.4 | 1.2 |
| Occupational Group | | | | | | | |
| Professionals, Managers, Executives & | | | | | | | |
| Technicians | 1.4 | 1.4 | 1.3 | 1.3 | 1.3 | 1.3 | 1.2 |
| Clerical, Sales & Service Workers | 3.1 | 3.0 | 3.1 | 3.1 | 3.1 | 2.8 | 2.7 |
| Production & Transport Operators, | | | | | | | |
| Cleaners & Labourers | 2.1 | 2.1 | 2.2 | 2.2 | 2.3 | 2.1 | 2.1 |

Source : Labour Market Survey, Manpower Research & Statistics Department, Ministry of Manpower

Notes: Data pertain to private sector establishments with at least 25 employees, and the public sector.

Data are classified according to the Singapore Standard Industrial Classification 2010.

 $^{1 \}quad \text{Includes Agriculture, Fishing, Quarrying, Utilities and Sewerage \& Waste Management.} \\$

4.20 SINGAPORE WORKFORCE SKILLS QUALIFICATIONS (WSQ) TRAINEES BY AGE, HIGHEST QUALIFICATION ATTAINED, AND SEX

| | | | | | | Numbe | | |
|---------------------------------------------|---------|---------|---------|---------|---------|--------|--|--|
| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | |
| al | 192,249 | 198,322 | 231,009 | 267,423 | 267,851 | 289,66 | | |
| Age Group | | | | | | | | |
| Below 20 | 10,860 | 11,575 | 13,641 | 14,221 | 18,186 | 13,51 | | |
| 20 - 29 | 37,056 | 40,260 | 45,947 | 52,170 | 55,239 | 56,64 | | |
| 30 - 39 | 44,643 | 46,722 | 52,223 | 56,622 | 56,124 | 57,84 | | |
| 40 - 49 | 44,489 | 43,950 | 50,793 | 56,065 | 53,543 | 58,17 | | |
| 50 - 59 | 38,461 | 37,916 | 45,233 | 54,096 | 50,145 | 56,53 | | |
| 60 - 69 | 13,560 | 14,812 | 18,990 | 27,614 | 27,712 | 36,78 | | |
| 70 & Over | 3,180 | 3,087 | 4,182 | 6,635 | 6,902 | 10,19 | | |
| Highest Qualification Attained ¹ | | | | | | | | |
| Below Primary | 5,695 | 5,531 | 8,863 | 12,074 | 16,191 | 16,44 | | |
| Primary | 28,343 | 28,516 | 26,391 | 33,538 | 25,143 | 25,80 | | |
| Lower Secondary | 27,824 | 22,120 | 26,606 | 30,313 | 28,015 | 31,49 | | |
| Secondary | 54,012 | 55,977 | 60,134 | 64,020 | 60,722 | 64,05 | | |
| Post-Secondary | 12,663 | 17,318 | 20,601 | 21,856 | 25,346 | 27,75 | | |
| Professional and WSQ Diploma | 8,624 | 9,620 | 10,744 | 14,030 | 12,370 | 14,61 | | |
| Polytechnic Diploma | 17,224 | 19,790 | 24,144 | 26,612 | 31,126 | 32,11 | | |
| Degree and Above | 23,926 | 27,144 | 34,032 | 45,011 | 48,409 | 56,29 | | |
| Others / Not Reported | 13,938 | 12,306 | 19,494 | 19,969 | 20,529 | 21,10 | | |
| Sex | | | | | | | | |
| Female | 98,582 | 101,438 | 109,391 | 120,818 | 122,375 | 133,95 | | |
| Male | 90,364 | 95,154 | 119,170 | 144,166 | 143,254 | 154,00 | | |
| Not Reported | 3,303 | 1,730 | 2,448 | 2,439 | 2,222 | 1,73 | | |

Source: SkillsFuture Singapore (SSG)

Notes: Prior to Oct 2016, data were from the Singapore Workforce Development Agency (WDA). With effect from Oct 2016, data are from SkillsFuture Singapore (SSG). SSG is a statutory board under the Ministry of Education (MOE). It is formed to drive and coordinate the implementation of SkillsFuture. In Oct 2016, SSG took over some of the functions performed by WDA and absorbed the Council for Private Education (CPE), which was a statutory board under MOE.

The Singapore Workforce Skills Qualifications (WSQ) is a national credential system that trains, develops, assesses and certifies skills and competencies for the workforce. Training programmes developed under the WSQ system are based on skills and competencies validated by employers, unions and professional bodies. WSQ emphasizes flexible competency-based adult learning, open access to skills upgrading and clear career progression pathways for workers to upgrade their skills.

Data are based on calendar year and pertain to local WSQ trainees who have attained at least one WSQ Statement of Attainment.

¹ Data are classified according to the Singapore Standard Educational Classification 2010.

4.21 SINGAPORE WORKFORCE SKILLS QUALIFICATIONS (WSQ) TRAINEES BY LEVEL OF WSQ STATEMENT OF ATTAINMENT

Number

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------------|---------|---------|---------|---------|---------|---------|
| Number of WSQ trainees | 192,249 | 198,322 | 231,009 | 267,423 | 267,851 | 289,669 |
| Level of WSQ Statement of Attainment | | | | | | |
| Certificate | 147,901 | 155,148 | 164,867 | 188,700 | 190,861 | 203,596 |
| Higher Certificate | 11,678 | 7,294 | 11,146 | 10,728 | 13,515 | 15,743 |
| Advanced Certificate | 48,433 | 31,628 | 45,699 | 55,944 | 51,517 | 60,041 |
| Diploma | 23,363 | 19,771 | 32,873 | 36,117 | 36,428 | 41,918 |
| Specialist Diploma | 5,417 | 5,760 | 7,604 | 8,790 | 8,435 | 9,514 |
| Graduate Certificate | 1,029 | 751 | 784 | 756 | 492 | 580 |
| Graduate Diploma | 390 | 393 | 550 | 738 | 848 | 980 |

Source : SkillsFuture Singapore (SSG)

Notes:

Prior to Oct 2016, data were from the Singapore Workforce Development Agency (WDA). With effect from Oct 2016, data are from SkillsFuture Singapore (SSG). SSG is a statutory board under the Ministry of Education (MOE). It is formed to drive and coordinate the implementation of SkillsFuture. In Oct 2016, SSG took over some of the functions performed by WDA and absorbed the Council for Private Education (CPE), which was a statutory board under MOE.

Data pertain to local WSQ trainees who have attained at least one WSQ Statement of Attainment.

Data for each certification level are based on unique headcounts. That is, a trainee with more than one WSQ Statement of Attainment of the same certification level is counted once. A trainee with more than one WSQ Statement of Attainment at different certification levels is counted once in each certification level.

Data are based on calendar year.

4.22 TRADE UNIONS AND MEMBERSHIP (End of Period)

| | | | | | | | Number |
|----------------|---------|---------|---------|---------|---------|---------|---------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Employee Class | | | | | | | _ |
| Unions | 65 | 65 | 66 | 64 | 65 | 64 | 63 |
| Members | 549,878 | 588,014 | 613,418 | 655,126 | 686,676 | 718,723 | 740,750 |
| Employer Class | | | | | | | |
| Unions | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Members | 2,529 | 2,306 | 2,288 | 3,074 | 3,312 | 3,365 | 3,489 |

Source: Ministry of Manpower

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=3398

4.23 LABOUR RELATIONS

| | | | | | | | Number |
|---------------------------------------|------|------|------|------|------|------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Trade Disputes | 121 | 159 | 164 | 136 | 106 | 119 | 112 |
| Wage Increase and | | | | | | | |
| Conditions of Service | 57 | 76 | 92 | 83 | 66 | 72 | 62 |
| Retrenchment Benefits | 12 | 15 | 11 | 18 | 15 | 18 | 27 |
| Bonus or Gratuity | 13 | 17 | 19 | 10 | 5 | 11 | 6 |
| Other Industrial Matters ¹ | 39 | 51 | 42 | 25 | 20 | 18 | 17 |
| | | | | | | | |
| Cases Referred to IAC ^{2,3} | 15 | 19 | 7 | 4 | 8 | 0 | 2 |
| IAC Awards ³ | 11 | 11 | 4 | 2 | 1 | 0 | 0 |
| Industrial Stoppages ⁴ | 0 | 0 | 1 | 0 | 0 | 0 | 0 |

Source: Ministry of Manpower (MOM)

- 1 Examples include sales, commission and shift allowances.
- $\,2\,$ IAC refers to the Industrial Arbitration Court.
- 3 From 2012, "Cases referred to IAC" and "IAC Awards" pertain only to disputes and exclude those for variation of collective agreement jointly filed by the union and employer.
- 4 Refers to cases reported to and handled by the Labour Relations & Workplaces Division of MOM. Data include both strikes and lockouts.

National Accounts

National Accounts



National Income Estimates



The output, expenditure and income approaches are adopted for compiling the national income aggregates of Singapore. The concepts, definitions and methodology given in the United Nations' publication "System of National Accounts, 2008" are closely followed.



Definitions



Gross National Income (GNI): Refers to the aggregate value of the gross balances of primary incomes (incomes arising from the involvement in production processes or ownership of assets that may be needed for production) receivable by resident units.

Gross Domestic Product (GDP): Refers to the aggregate value of the goods and services produced in the economic territory of Singapore.

Output-based GDP: Refers to the sum of gross value added generated by economic activities in the domestic economy.

Expenditure on GDP: Refers to the sum of private consumption expenditure non-profit households including institutions serving households, government consumption expenditure, gross capital formation and net exports.

Income Components of GDP: Refers to the sum of incomes generated from the domestic

production of goods and services, which include compensation of employees, gross operating surplus and taxes less subsidies on production and on imports.

Valuation of GDP Estimates: GDP estimates are valued at market prices, that is, the prices actually paid by the purchaser.

GDP at Constant Prices: In order to compare the real value of output/expenditure over time, it is necessary to remove the effect of price changes. This is achieved by selecting the price structure of 2010 as the base according to which the goods and services in other years are revalued. The resulting aggregates after adjustment for price changes are known as constant-price estimates.

GDP Deflators: They provide a broad measure of the change in the overall level of prices of the goods and services that make up GDP between the base year 2010 and any other period. The deflators are derived as the ratio of the current price value of a component of GDP to its corresponding constant price value, with the base year index set at 100.

With the availability of more comprehensive and up-to-date information, the estimates have been revised, especially for the last two years.

Other References



The "Singapore System of National Accounts, 1995", published by the Singapore Department of Statistics, contains the detailed methodology used to compile Singapore's national accounts.

Information on the adoption of basic price is available in the information paper "Rebasing of the Singapore System of National Accounts to Reference Year 1995".

Information on the capitalisation of software expenditure can be found in the Information paper "Rebasing of Singapore's National Accounts to Reference Year 2000".

The revised methodology for the measurement and allocation of implicit charges for financial services and other methodological and classification changes are described in the information paper "Rebasing of Singapore's National Accounts to Reference Year 2005".

The implementation of capitalisation of research and development expenditure in the national accounts is elaborated in the information paper "Rebasing of Singapore's National Accounts to Reference Year 2010".

Analyses on Singapore's national income may be found in the "Economic Survey of Singapore", published by the Ministry of Trade and Industry.



5.1 OUTPUT, SAVING AND INVESTMENT

(At Current Market Prices)

| Million Dolla | | | | | | | | | | |
|------------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|--|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | | |
| Gross National Income | | | | | | | | | | |
| Gross National Income | 320,526.6 | 337,393.9 | 348,075.6 | 366,053.2 | 380,423.3 | 389,940.7 | 397,152.7 | | | |
| Gross Domestic Product | 322,361.1 | 346,649.0 | 361,365.9 | 378,531.6 | 390,447.7 | 408,096.6 | 410,271.9 | | | |
| Net Income from Abroad | -1,834.5 | -9,255.1 | -13,290.3 | -12,478.4 | -10,024.4 | -18,155.9 | -13,119.2 | | | |
| Generation of Gross National Saving | | | | | | | | | | |
| Gross National Saving | 166,595.3 | 170,836.4 | 170,774.2 | 179,423.2 | 188,879.2 | 183,153.0 | 182,033.4 | | | |
| Gross Domestic Saving | 175,004.6 | 187,593.3 | 192,586.9 | 200,045.2 | 207,728.8 | 215,028.0 | 210,143.1 | | | |
| Gross Domestic Product Less: Private & Government | 322,361.1 | 346,649.0 | 361,365.9 | 378,531.6 | 390,447.7 | 408,096.6 | 410,271.9 | | | |
| Consumption Expenditure | 147,356.5 | 157,575.9 | 165,930.1 | 176,781.2 | 182,456.6 | 193,658.2 | 196,099.2 | | | |
| Statistical Discrepancy | 0.0 | -1,479.8 | -2,848.9 | -1,705.2 | -262.3 | 589.6 | -4,029.6 | | | |
| Net Income from Abroad | -1,834.5 | -9,255.1 | -13,290.3 | -12,478.4 | -10,024.4 | -18,155.9 | -13,119.2 | | | |
| Net Current Transfers from Abroad | -6,574.8 | -7,501.8 | -8,522.4 | -8,143.6 | -8,825.2 | -13,719.1 | -14,990.5 | | | |
| Finance of Gross Capital Formation | | | | | | | | | | |
| Gross Capital Formation | 91,028.3 | 94,056.7 | 107,975.2 | 115,396.3 | 111,818.6 | 109,246.7 | 103,974.5 | | | |
| Gross National Saving | 166,595.3 | 170,836.4 | 170,774.2 | 179,423.2 | 188,879.2 | 183,153.0 | 182,033.4 | | | |
| Net Borrowing from/Lending (-) to Abroad & Net Capital Transfers from Abroad | -75,567.0 | -76,779.7 | -62,799.0 | -64,026.9 | -77,060.6 | -73,906.3 | -78,058.9 | | | |

5.2 GROSS DOMESTIC PRODUCT BY INDUSTRY

Million Dollars

| | | | | | | MI | illion Dollars |
|-------------------------------------|-----------|-----------|-----------|---------------|-----------|-----------|----------------|
| Industry | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | At Curi | rent Market P | rices | | |
| GDP at Current Market Prices | 322,361.1 | 346,649.0 | 361,365.9 | 378,531.6 | 390,447.7 | 408,096.6 | 410,271. |
| Goods Producing Industries | 84,230.3 | 85,981.0 | 89,813.7 | 88,420.9 | 94,560.3 | 100,516.0 | 100,491.7 |
| Manufacturing | 65,039.8 | 65,901.1 | 67,869.5 | 65,837.0 | 69,573.6 | 74,790.0 | 75,295. |
| Construction | 14,221.2 | 14,811.6 | 16,450.5 | 17,201.0 | 19,341.1 | 19,897.2 | 19,346. |
| Utilities | 4,850.9 | 5,148.4 | 5,373.2 | 5,253.5 | 5,499.0 | 5,686.6 | 5,709. |
| Other Goods Industries ¹ | 118.4 | 119.9 | 120.5 | 129.4 | 146.6 | 142.2 | 140. |
| Services Producing Industries | 208,683.4 | 226,980.0 | 235,504.7 | 251,757.3 | 257,418.8 | 266,346.1 | 266,525. |
| Wholesale & Retail Trade | 58,449.2 | 66,597.8 | 64,807.0 | 66,070.1 | 59,985.8 | 56,975.8 | 54,618. |
| Transportation & Storage | 25,422.8 | 22,222.7 | 23,660.9 | 24,666.9 | 27,075.3 | 29,690.0 | 29,198. |
| Accommodation & Food Services | 5,921.2 | 6,986.0 | 7,504.3 | 7,818.6 | 8,249.2 | 8,392.9 | 8,602. |
| Information & Communications | 11,072.5 | 12,356.9 | 13,429.9 | 14,543.4 | 15,538.2 | 15,610.6 | 16,265. |
| Finance & Insurance | 33,154.2 | 35,295.4 | 37,289.7 | 42,292.2 | 45,773.9 | 49,902.6 | 50,242. |
| Business Services | 42,119.3 | 47,661.1 | 51,309.6 | 56,139.2 | 58,199.8 | 61,082.0 | 60,584. |
| Other Services Industries | 32,544.2 | 35,860.1 | 37,503.3 | 40,226.9 | 42,596.6 | 44,692.2 | 47,013. |
| Ownership of Dwellings | 11,514.3 | 13,797.2 | 14,992.0 | 16,308.8 | 16,861.9 | 17,177.2 | 16,819. |
| Gross Value Added at Basic Prices | 304,428.0 | 326,758.2 | 340,310.4 | 356,487.0 | 368,841.0 | 384,039.3 | 383,836. |
| Add : Taxes on Products | 17,933.1 | 19,890.8 | 21,055.5 | 22,044.6 | 21,606.7 | 24,057.3 | 26,435. |
| | | | At 20 | 10 Market Pri | ces | | |
| GDP at 2010 Market Prices | 322,361.1 | 342,426.2 | 355,683.1 | 373,471.5 | 386,812.9 | 394,288.6 | 402,159. |
| Goods Producing Industries | 84,230.3 | 90,130.2 | 92,163.3 | 93,964.1 | 97,147.3 | 94,161.0 | 96,783. |
| Manufacturing | 65,039.8 | 70,118.3 | 70,342.3 | 71,517.4 | 73,436.8 | 69,671.2 | 72,177. |
| Construction | 14,221.2 | 14,948.1 | 16,655.0 | 17,162.6 | 18,292.2 | 19,009.6 | 19,038. |
| Utilities | 4,850.9 | 4,943.0 | 5,040.7 | 5,153.2 | 5,269.8 | 5,337.0 | 5,426 |
| Other Goods Industries ¹ | 118.4 | 120.8 | 125.3 | 130.9 | 148.5 | 143.2 | 141. |
| Services Producing Industries | 208,683.4 | 223,163.4 | 233,546.3 | 250,381.9 | 260,129.9 | 268,437.1 | 271,127. |
| Wholesale & Retail Trade | 58,449.2 | 62,433.0 | 65,163.2 | 69,613.6 | 70,945.1 | 73,571.9 | 74,049. |
| Transportation & Storage | 25,422.8 | 26,683.4 | 28,018.6 | 29,155.8 | 30,031.6 | 30,526.8 | 31,217. |
| Accommodation & Food Services | 5,921.2 | 6,556.1 | 6,755.1 | 6,967.8 | 7,124.7 | 7,174.5 | 7,295. |
| Information & Communications | 11,072.5 | 11,970.8 | 12,904.5 | 13,933.3 | 14,965.8 | 14,875.8 | 15,215 |
| Finance & Insurance | 33,154.2 | 36,052.4 | 38,179.8 | 44,760.6 | 48,837.4 | 51,622.0 | 51,962 |
| Business Services | 42,119.3 | 45,440.1 | 47,621.7 | 50,303.9 | 51,203.4 | 53,195.7 | 52,741. |
| Other Services Industries | 32,544.2 | 34,027.6 | 34,903.4 | 35,646.9 | 37,021.9 | 37,470.4 | 38,645 |
| Ownership of Dwellings | 11,514.3 | 11,618.5 | 11,928.5 | 12,229.9 | 12,680.0 | 13,300.7 | 13,976. |
| Gross Value Added at Basic Prices | 304,428.0 | 324,912.1 | 337,638.1 | 356,575.9 | 369,957.2 | 375,898.8 | 381,887 |
| Add : Taxes on Products | 17,933.1 | 17,514.1 | 18,045.0 | 16,895.6 | 16,855.7 | 18,389.8 | 20,272. |
| | | | | | | | |

Notes: The industries are classified according to the Singapore Standard Industrial Classification 2015.

As the constant price series are chain-linked at the base year, they are not additive prior to the base year.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=12360 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=12359

¹ Comprise Agriculture, Fishing and Quarrying.

5.3 EXPENDITURE ON GROSS DOMESTIC PRODUCT

Million Dollars

| | | | | | | N | 1illion Dollars |
|---------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | At Cu | rrent Market | Prices | | |
| Total | 322,361.1 | 346,649.0 | 361,365.9 | 378,531.6 | 390,447.7 | 408,096.6 | 410,271.9 |
| Private Consumption Expenditure | 114,518.5 | 124,170.9 | 132,769.0 | 138,775.4 | 143,450.6 | 150,263.6 | 149,824.7 |
| Government Consumption Expenditure | 32,838.0 | 33,405.0 | 33,161.1 | 38,005.8 | 39,006.0 | 43,394.6 | 46,274.5 |
| Gross Fixed Capital Formation | 84,224.8 | 88,410.2 | 96,642.8 | 104,910.2 | 104,382.6 | 106,396.1 | 102,014.5 |
| Changes in Inventories | 6,803.5 | 5,646.5 | 11,332.4 | 10,486.1 | 7,436.0 | 2,850.6 | 1,960.0 |
| Net Exports of Goods & Services Exports of Goods & Services Less : Imports of Goods & Services | 83,976.3 643,908.1 559,931.8 | 93,536.6 704,697.4 611,160.8 | 84,611.7 712,567.6 627,955.9 | 84,648.9 734,970.8 650,321.9 | 95,910.2 755,251.6 659,341.4 | 105,781.3 726,136.0 620,354.7 | 106,168.6 706,277.3 600,108.7 |
| Statistical Discrepancy | 0.0 | 1,479.8 | 2,848.9 | 1,705.2 | 262.3 | -589.6 | 4,029.6 |
| | | | At 2 | 010 Market P | rices | | |
| Total | 322,361.1 | 342,426.2 | 355,683.1 | 373,471.5 | 386,812.9 | 394,288.6 | 402,159.8 |
| Private Consumption Expenditure | 114,518.5 | 119,308.0 | 123,770.2 | 127,911.0 | 130,949.9 | 136,961.5 | 137,744.1 |
| Government Consumption Expenditure | 32,838.0 | 32,090.0 | 31,611.4 | 35,250.9 | 35,296.2 | 38,113.9 | 40,518.4 |
| Gross Fixed Capital Formation | 84,224.8 | 88,572.5 | 95,841.7 | 101,322.9 | 100,214.1 | 101,302.3 | 98,722.3 |
| Changes in Inventories | 6,803.5 | 5,364.6 | 10,896.2 | 10,353.1 | 7,474.5 | 3,178.9 | 2,304.0 |
| Net Exports of Goods & Services Exports of Goods & Services Less : Imports of Goods | 83,976.3 643,908.1 | 97,757.3 685,438.2 | 92,997.3 695,358.6 | 97,784.1 735,806.4 | 107,966.3 765,114.1 | 109,068.7 785,237.0 | 119,704.1 797,867.5 |
| & Services | 559,931.8 | 587,680.9 | 602,361.3 | 638,022.3 | 657,147.8 | 676,168.3 | 678,163.4 |
| Statistical Discrepancy | 0.0 | -666.2 | 566.3 | 849.5 | 4,911.9 | 5,663.3 | 3,166.9 |

Notes: As the constant price series are chain-linked at the base year, they are not additive prior to the base year.

 $Download\ time\ series\ at\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=1429\\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=1427$

5.4 PRIVATE CONSUMPTION EXPENDITURE

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | llion Dollars 2016 | | |
|-------------------------------------|-----------------------|-----------|-----------|---------------|------------------------|-----------------------|-----------------------|--|--|
| | 2010 | 2011 | | | | 2013 | 2016 | | |
| | | | At Cur | rent Market P | rices | | | | |
| Total | 114,518.5 | 124,170.9 | 132,769.0 | 138,775.4 | 143,450.6 | 150,263.6 | 149,824. | | |
| Food & Non-Alcoholic Beverages | 8,404.4 | 8,965.3 | 9,584.2 | 10,029.4 | 10,178.7 | 10,410.5 | 10,437.0 | | |
| Alcoholic Beverages & Tobacco | 2,462.1 | 2,591.6 | 2,729.5 | 2,784.6 | 2,983.1 | 3,081.3 | 3,108. | | |
| Clothing & Footwear | 3,212.7 | 3,633.9 | 3,921.5 | 4,153.0 | 4,197.3 | 4,236.5 | 4,240.0 | | |
| Housing & Utilities | 19,219.5 | 21,834.7 | 24,303.9 | 25,761.0 | 26,755.4 | 26,896.9 | 26,400. | | |
| Furnishings, Household Equipment & | | | | | | | | | |
| Routine Household Maintenance | 6,778.2 | 7,197.0 | 7,581.2 | 7,537.2 | 7,551.2 | 7,663.1 | 7,789. | | |
| Health | 7,796.1 | 8,185.4 | 8,893.5 | 9,579.5 | 10,061.9 | 10,660.1 | 11,653. | | |
| Transport | 15,587.2 | 16,126.5 | 16,880.1 | 16,006.1 | 16,753.0 | 19,816.2 | 21,739.9 | | |
| Communication | 3,062.8 | 3,312.5 | 3,533.2 | 3,437.3 | 3,482.1 | 3,510.8 | 3,418. | | |
| Recreation & Culture | 15,466.4 | 18,072.9 | 17,705.7 | 17,817.8 | 17,926.4 | 17,039.2 | 16,289. | | |
| Education | 4,201.4 | 4,532.9 | 5,018.4 | 5,478.8 | 5,934.0 | 6,107.0 | 6,490.4 | | |
| Food Serving Services | 7,767.2 | 8,536.9 | 9,281.7 | 9,889.1 | 10,372.9 | 10,555.6 | 10,558.0 | | |
| Accommodation Services | 2,662.8 | 3,421.1 | 3,628.2 | 3,670.1 | 3,884.0 | 3,929.9 | 4,041. | | |
| Miscellaneous Goods & Services | 17,337.7 | 19,188.1 | 20,600.7 | 22,719.0 | 23,501.3 | 25,406.8 | 25,206. | | |
| Add: Residents' Expenditure Abroad | 20,020.8 | 21,261.5 | 22,736.4 | 24,096.3 | 24,263.1 | 23,882.7 | 24,027. | | |
| Less : Non-residents' Expenditure | | | · | · | · | | · | | |
| Locally | 19,460.8 | 22,689.4 | 23,629.2 | 24,183.8 | 24,393.8 | 22,933.0 | 25,574. | | |
| | At 2010 Market Prices | | | | | | | | |
| Total | 114,518.5 | 119,308.0 | 123,770.2 | 127,911.0 | 130,949.9 | 136,961.5 | 137,744.1 | | |
| Food & Non-Alcoholic Beverages | 8,404.4 | 8,669.8 | 9,083.7 | 9,311.4 | 9,231.1 | 9,338.2 | 9,200.: | | |
| Alcoholic Beverages & Tobacco | 2,462.1 | 2,566.2 | 2,681.0 | 2,725.3 | 2,770.2 | 2,832.8 | 2,860. | | |
| Clothing & Footwear | 3,212.7 | 3,636.7 | 3,861.7 | 4,076.8 | 4,141.6 | 4,192.8 | 4,174.3 | | |
| Housing & Utilities | 19,219.5 | 19,356.9 | 19,762.6 | 20,175.8 | 20,757.5 | 21,660.6 | 22,701.8 | | |
| Furnishings, Household Equipment & | | • | | | • | • | · | | |
| Routine Household Maintenance | 6,778.2 | 6,919.9 | 7,054.6 | 6,973.0 | 6,872.3 | 6,960.8 | 6,973. | | |
| Health | 7,796.1 | 7,971.5 | 8,246.5 | 8,557.9 | 8,782.6 | 9,293.2 | 9,999. | | |
| Transport | 15,587.2 | 14,766.7 | 14,700.1 | 13,799.2 | 14,475.4 | 17,323.2 | 19,541. | | |
| Communication | 3,062.8 | 3,445.1 | 3,708.9 | 3,701.1 | 3,779.7 | 3,819.3 | 3,730. | | |
| Recreation & Culture | 15,466.4 | 17,611.9 | 16,958.1 | 16,822.7 | 16,732.2 | 15,942.8 | 15,200. | | |
| Education | 4,201.4 | 4,383.4 | 4,677.9 | 4,902.2 | 5,181.0 | 5,113.4 | 5,234. | | |
| Food Serving Services | 7,767.2 | 8,300.7 | 8,816.7 | 9,208.6 | 9,361.5 | 9,319.1 | 9,179. | | |
| Accommodation Services | 2,662.8 | 3,098.4 | 3,099.5 | 3,172.7 | 3,256.0 | 3,314.2 | 3,417. | | |
| Miscellaneous Goods & Services | 17,337.7 | 18,980.5 | 20,146.9 | 22,600.0 | 23,349.3 | 24,018.9 | 23,267. | | |
| Add: Residents' Expenditure Abroad | 20,020.8 | 21,277.9 | 20,146.9 | 24,010.3 | 23,349.3 | 24,018.9 | 25,232.4 | | |
| Less: Non-residents' Expenditure | 20,020.0 | 21,211.3 | 22,702.0 | 24,010.3 | ∠ - 7,14J.1 | ∠ + ,+0∠.3 | ۷۵,۷۵۷.۴ | | |
| LESS . NOTIFIES IDENTIS EXPENDITURE | 10.465.5 | 04 677 6 | | | 24 005 5 | | | | |

Notes: As the constant price series are chain-linked at the base year, they are not additive prior to the base year.

21,677.6

21,790.8

22,126.0

21,885.6

20,650.3

22,969.4

19,460.8

Locally

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=1432 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=1431

GROSS FIXED CAPITAL FORMATION
(At Current Market Prices)

| | | | | | | N | Aillion Dollars |
|--------------------------------|----------|----------|----------|-----------|-----------|-----------|-----------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | | Total | | | |
| Total | 84,224.8 | 88,410.2 | 96,642.8 | 104,910.2 | 104,382.6 | 106,396.1 | 102,014.5 |
| Construction & Works | 43,522.2 | 45,906.0 | 50,637.5 | 55,927.6 | 56,639.6 | 56,785.5 | 53,329.3 |
| Residential Buildings | 20,796.8 | 21,677.1 | 24,672.5 | 28,656.0 | 28,324.2 | 27,281.6 | 22,852.3 |
| Non-residential Buildings | 15,646.2 | 16,906.2 | 18,449.0 | 19,790.6 | 19,655.8 | 19,492.8 | 19,919.7 |
| Other Construction & Works | 7,079.2 | 7,322.7 | 7,516.0 | 7,481.0 | 8,659.6 | 10,011.1 | 10,557.3 |
| Transport Equipment | 7,253.6 | 7,663.2 | 9,003.7 | 7,052.8 | 6,916.0 | 8,705.2 | 7,906.8 |
| Machinery & Equipment | 21,188.5 | 21,593.6 | 22,516.8 | 21,618.6 | 21,048.2 | 21,304.4 | 20,801.5 |
| Intellectual Property Products | 12,260.5 | 13,247.4 | 14,484.8 | 20,311.2 | 19,778.8 | 19,601.0 | 19,976.9 |
| | | | | Public | | | |
| Total | 14,013.0 | 15,062.7 | 16,476.3 | 16,597.6 | 19,289.0 | 20,881.4 | 22,145.2 |
| Construction & Works | 11,743.1 | 12,730.8 | 13,628.9 | 14,082.1 | 16,275.9 | 17,472.1 | 18,689.0 |
| Residential Buildings | 3,487.2 | 3,467.5 | 4,118.3 | 4,857.5 | 5,477.2 | 5,703.9 | 4,917.7 |
| Non-residential Buildings | 2,500.9 | 3,417.7 | 3,534.7 | 3,494.4 | 4,300.0 | 4,271.5 | 5,439.1 |
| Other Construction & Works | 5,755.0 | 5,845.6 | 5,975.9 | 5,730.2 | 6,498.7 | 7,496.7 | 8,332.2 |
| Transport Equipment | 48.3 | 44.5 | 101.1 | 65.0 | 263.8 | 233.5 | 235.3 |
| Machinery & Equipment | 651.5 | 770.5 | 942.7 | 681.6 | 694.2 | 1,016.6 | 976.5 |
| Intellectual Property Products | 1,570.1 | 1,516.9 | 1,803.6 | 1,768.9 | 2,055.1 | 2,159.2 | 2,244.4 |
| | | | | Private | | | |
| Total | 70,211.8 | 73,347.5 | 80,166.5 | 88,312.6 | 85,093.6 | 85,514.7 | 79,869.3 |
| Construction & Works | 31,779.1 | 33,175.2 | 37,008.6 | 41,845.5 | 40,363.7 | 39,313.4 | 34,640.3 |
| Residential Buildings | 17,309.6 | 18,209.6 | 20,554.2 | 23,798.5 | 22,847.0 | 21,577.7 | 17,934.6 |
| Non-residential Buildings | 13,145.3 | 13,488.5 | 14,914.3 | 16,296.2 | 15,355.8 | 15,221.3 | 14,480.6 |
| Other Construction & Works | 1,324.2 | 1,477.1 | 1,540.1 | 1,750.8 | 2,160.9 | 2,514.4 | 2,225.1 |
| Transport Equipment | 7,205.3 | 7,618.7 | 8,902.6 | 6,987.8 | 6,652.2 | 8,471.7 | 7,671.5 |
| Machinery & Equipment | 20,537.0 | 20,823.1 | 21,574.1 | 20,937.0 | 20,354.0 | 20,287.8 | 19,825.0 |
| Intellectual Property Products | 10,690.4 | 11,730.5 | 12,681.2 | 18,542.3 | 17,723.7 | 17,441.8 | 17,732.5 |

(continued on the next page)

Notes: As the constant price series are chain-linked at the base year, they are not additive prior to the base year.

5.5 GROSS FIXED CAPITAL FORMATION (continued)

(At 2010 Market Prices)

Million Dollars

| | | | | | | M | lillion Dollars |
|--------------------------------|----------|----------|----------|-----------|-----------|-----------|-----------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | | Total | | | |
| Total | 84,224.8 | 88,572.5 | 95,841.7 | 101,322.9 | 100,214.1 | 101,302.3 | 98,722.3 |
| Construction & Works | 43,522.2 | 45,320.6 | 49,119.0 | 52,129.2 | 52,123.0 | 52,442.3 | 50,598.5 |
| Residential Buildings | 20,796.8 | 21,217.4 | 23,645.7 | 26,072.3 | 25,961.2 | 25,292.1 | 21,505.8 |
| Non-residential Buildings | 15,646.2 | 16,750.1 | 17,938.1 | 18,762.2 | 17,978.1 | 17,743.6 | 18,849.7 |
| Other Construction & Works | 7,079.2 | 7,353.1 | 7,535.2 | 7,294.7 | 8,183.7 | 9,406.6 | 10,243.0 |
| Transport Equipment | 7,253.6 | 7,808.9 | 8,995.0 | 6,909.7 | 6,635.8 | 8,074.0 | 7,417.9 |
| Machinery & Equipment | 21,188.5 | 22,585.9 | 23,818.1 | 23,603.4 | 23,347.0 | 23,169.3 | 22,802.2 |
| Intellectual Property Products | 12,260.5 | 12,857.1 | 13,909.6 | 18,680.6 | 18,108.3 | 17,616.7 | 17,903.7 |
| | | | | Public | | | |
| Total | 14,013.0 | 15,351.5 | 17,041.3 | 17,032.7 | 19,014.9 | 20,417.7 | 22,255.4 |
| Construction & Works | 11,743.1 | 13,044.1 | 14,233.5 | 14,606.8 | 16,130.9 | 17,182.3 | 18,988.4 |
| Residential Buildings | 3,487.2 | 3,674.8 | 4,590.4 | 5,359.6 | 5,784.3 | 5,992.6 | 5,431.3 |
| Non-residential Buildings | 2,500.9 | 3,457.1 | 3,583.8 | 3,503.4 | 4,120.3 | 4,060.1 | 5,362.0 |
| Other Construction & Works | 5,755.0 | 5,912.2 | 6,059.3 | 5,743.8 | 6,226.3 | 7,129.6 | 8,195.1 |
| Transport Equipment | 48.3 | 43.5 | 104.3 | 67.1 | 281.2 | 243.6 | 245.9 |
| Machinery & Equipment | 651.5 | 795.4 | 971.8 | 726.0 | 721.7 | 1,052.2 | 1,012.2 |
| Intellectual Property Products | 1,570.1 | 1,468.5 | 1,731.7 | 1,632.8 | 1,881.1 | 1,939.6 | 2,008.9 |
| | | | | Private | | | |
| Total | 70,211.8 | 73,221.0 | 78,800.4 | 84,290.2 | 81,199.2 | 80,884.6 | 76,466.9 |
| Construction & Works | 31,779.1 | 32,276.5 | 34,885.5 | 37,522.4 | 35,992.1 | 35,260.0 | 31,610.1 |
| Residential Buildings | 17,309.6 | 17,542.6 | 19,055.3 | 20,712.7 | 20,176.9 | 19,299.5 | 16,074.5 |
| Non-residential Buildings | 13,145.3 | 13,293.0 | 14,354.3 | 15,258.8 | 13,857.8 | 13,683.5 | 13,487.7 |
| Other Construction & Works | 1,324.2 | 1,440.9 | 1,475.9 | 1,550.9 | 1,957.4 | 2,277.0 | 2,047.9 |
| Transport Equipment | 7,205.3 | 7,765.4 | 8,890.7 | 6,842.6 | 6,354.6 | 7,830.4 | 7,172.0 |
| Machinery & Equipment | 20,537.0 | 21,790.5 | 22,846.3 | 22,877.4 | 22,625.3 | 22,117.1 | 21,790.0 |
| Intellectual Property Products | 10,690.4 | 11,388.6 | 12,177.9 | 17,047.8 | 16,227.2 | 15,677.1 | 15,894.8 |

Notes: As the constant price series are chain-linked at the base year, they are not additive prior to the base year.

5.6 GROSS DOMESTIC PRODUCT DEFLATORS BY INDUSTRY (2010 = 100)

| Industry | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| GDP at Market Prices | 100.0 | 101.2 | 101.6 | 101.4 | 100.9 | 103.5 | 102.0 |
| Goods Producing Industries | 100.0 | 95.4 | 97.5 | 94.1 | 97.3 | 106.7 | 103.8 |
| Manufacturing | 100.0 | 94.0 | 96.5 | 92.1 | 94.7 | 107.3 | 104.3 |
| Construction | 100.0 | 99.1 | 98.8 | 100.2 | 105.7 | 104.7 | 101.6 |
| Utilities | 100.0 | 104.2 | 106.6 | 101.9 | 104.3 | 106.6 | 105.2 |
| Other Goods Industries ¹ | 100.0 | 99.3 | 96.2 | 98.9 | 98.7 | 99.3 | 99.6 |
| Services Producing Industries | 100.0 | 101.7 | 100.8 | 100.5 | 99.0 | 99.2 | 98.3 |
| Wholesale & Retail Trade | 100.0 | 106.7 | 99.5 | 94.9 | 84.6 | 77.4 | 73.8 |
| Transportation & Storage | 100.0 | 83.3 | 84.4 | 84.6 | 90.2 | 97.3 | 93.5 |
| Accommodation & Food Services | 100.0 | 106.6 | 111.1 | 112.2 | 115.8 | 117.0 | 117.9 |
| Information & Communications | 100.0 | 103.2 | 104.1 | 104.4 | 103.8 | 104.9 | 106.9 |
| Finance & Insurance | 100.0 | 97.9 | 97.7 | 94.5 | 93.7 | 96.7 | 96.7 |
| Business Services | 100.0 | 104.9 | 107.7 | 111.6 | 113.7 | 114.8 | 114.9 |
| Other Services Industries | 100.0 | 105.4 | 107.4 | 112.8 | 115.1 | 119.3 | 121.7 |
| Ownership of Dwellings | 100.0 | 118.8 | 125.7 | 133.4 | 133.0 | 129.1 | 120.3 |
| Gross Value Added at Basic Prices | 100.0 | 100.6 | 100.8 | 100.0 | 99.7 | 102.2 | 100.5 |
| Add : Taxes on Products | 100.0 | 113.6 | 116.7 | 130.5 | 128.2 | 130.8 | 130.4 |

Notes: Data on industry are classified according to the Singapore Standard Industrial Classification 2015.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=12366

5.7 DEFLATORS OF EXPENDITURE ON GROSS DOMESTIC PRODUCT (2010 = 100)

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Total | 100.0 | 101.2 | 101.6 | 101.4 | 100.9 | 103.5 | 102.0 |
| Private Consumption Expenditure | 100.0 | 104.1 | 107.3 | 108.5 | 109.5 | 109.7 | 108.8 |
| Government Consumption | 100.0 | 104.1 | 104.9 | 107.8 | 110.5 | 113.9 | 114.2 |
| Gross Fixed Capital Formation | 100.0 | 99.8 | 100.8 | 103.5 | 104.2 | 105.0 | 103.3 |
| Exports of Goods & Services | 100.0 | 102.8 | 102.5 | 99.9 | 98.7 | 92.5 | 88.5 |
| Imports of Goods & Services | 100.0 | 104.0 | 104.2 | 101.9 | 100.3 | 91.7 | 88.5 |

¹ Comprise Agriculture, Fishing and Quarrying.

5.8 INCOME COMPONENTS OF GROSS DOMESTIC PRODUCT (At Current Prices)

| | | | | M | illion Dollars | | |
|----------------------------------------------|-----------|-----------|-----------|-----------|----------------|-----------|-----------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| GDP at Current Market Prices | 322,361.1 | 346,649.0 | 361,365.9 | 378,531.6 | 390,447.7 | 408,096.6 | 410,271.9 |
| Compensation of Employees | 126,072.6 | 135,948.7 | 144,969.3 | 155,421.5 | 167,015.6 | 176,819.6 | 182,977.0 |
| Gross Operating Surplus | 173,898.6 | 185,150.1 | 189,083.2 | 193,002.4 | 194,078.6 | 200,158.8 | 193,475.8 |
| Taxes Less Subsidies on Production & Imports | 22,389.9 | 26,530.9 | 28,103.1 | 29,581.4 | 29,449.5 | 31,217.5 | 34,599.6 |
| Other Taxes Less Subsidies on Production | 4,456.8 | 6,640.1 | 7,047.6 | 7,536.8 | 7,842.8 | 7,160.2 | 8,164.3 |
| Taxes on Products | 17,933.1 | 19,890.8 | 21,055.5 | 22,044.6 | 21,606.7 | 24,057.3 | 26,435.3 |
| Statistical Discrepancy | 0.0 | -980.7 | -789.7 | 526.3 | -96.0 | -99.3 | -780.5 |

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=4254

5.9 GROSS OPERATING SURPLUS BY INDUSTRY (At Current Prices)

| | | | | | | Mi | llion Dollars |
|-------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 173,898.6 | 185,150.1 | 189,083.2 | 193,002.4 | 194,078.6 | 200,158.8 | 193,475.8 |
| Manufacturing | 44,190.2 | 44,272.9 | 45,311.6 | 41,468.1 | 44,295.1 | 49,611.2 | 50,471.7 |
| Construction | 5,700.4 | 5,423.5 | 5,380.6 | 5,124.1 | 4,970.5 | 4,580.2 | 3,837.0 |
| Utilities | 3,608.5 | 3,970.2 | 4,053.0 | 3,812.2 | 3,903.7 | 3,996.6 | 3,925. |
| Other Goods Industries ¹ | 49.1 | 49.7 | 51.6 | 59.1 | 59.4 | 61.6 | 59.2 |
| Wholesale & Retail Trade | 38,281.8 | 45,006.0 | 42,612.7 | 41,932.3 | 35,160.3 | 30,871.4 | 27,437.0 |
| Transportation & Storage | 16,312.3 | 12,463.8 | 13,128.5 | 13,547.9 | 15,152.6 | 17,135.0 | 15,943. |
| Accommodation & Food Services | 2,533.8 | 3,183.2 | 3,300.0 | 3,303.0 | 3,488.7 | 3,489.9 | 3,525. |
| Information & Communications | 4,662.7 | 5,431.9 | 5,805.3 | 6,432.0 | 6,668.2 | 6,305.5 | 6,118. |
| Finance & Insurance | 16,527.7 | 17,095.3 | 17,790.8 | 21,886.1 | 22,972.6 | 25,483.1 | 25,529. |
| Business Services | 23,194.6 | 26,320.8 | 28,678.7 | 31,295.6 | 32,450.8 | 33,578.2 | 31,853.0 |
| Other Services Industries | 7,971.9 | 8,839.3 | 8,740.2 | 8,703.3 | 9,073.0 | 8,856.3 | 8,922.0 |
| Ownership of Dwellings | 10,865.6 | 13,093.5 | 14,230.2 | 15,438.7 | 15,883.7 | 16,189.8 | 15,853. |

Notes: The industries are classified according to the Singapore Standard Industrial Classification 2015.

¹ Comprise Agriculture, Fishing and Quarrying.

5.10 COMPENSATION OF EMPLOYEES BY INDUSTRY

(At Current Prices)

Million Dollars 2010 2011 2012 2013 2014 2015 2016 Total 126,072.6 135,948.7 144,969.3 155,421.5 167,015.6 176,819.6 182,977.0 Manufacturing 21,510.9 20,585.5 22,124.6 23,220.4 24,407.4 24,650.8 24,345.8 Construction 7,827.0 8,484.7 9,537.7 10,559.6 11,682.9 12,387.0 12,884.3 Utilities 999.9 1,036.4 1,127.8 1,259.1 1,378.2 1,448.2 1,543.9 Other Goods Industries ¹ 60.2 61.0 62.5 61.1 63.8 66.3 67.3 Wholesale & Retail Trade 19,536.2 20,996.3 22,061.5 23,016.2 24,306.7 25,458.8 26,124.4 Transportation & Storage 8,697.7 9,230.7 9,961.9 10,574.2 11,407.0 12,131.0 12,695.1 Accommodation & Food Services 3,231.0 3,629.2 3,952.5 4,230.5 4,513.6 4,759.0 4,940.0 7,579.5 8,891.3 Information & Communications 6,215.2 6,835.3 8,021.1 9,475.3 9,981.6 22,845.5 Finance & Insurance 16,487.4 18,184.3 19,476.9 20,789.7 24,820.9 25,404.1 **Business Services** 18,366.8 19,685.9 21,333.4 23,275.2 24,881.0 26,639.7 28,030.8 Other Services Industries 24,065.7 26,294.0 27,751.0 30,414.4 32,638.2 34,982.6 36,959.7

Notes: The industries are classified according to the Singapore Standard Industrial Classification 2015.

¹ Comprise Agriculture, Fishing and Quarrying.

5.11 OTHER TAXES LESS SUBSIDIES ON PRODUCTION BY INDUSTRY

(At Current Prices)

| | | | | | | M | illion Dollars |
|-------------------------------------|---------|---------|---------|---------|---------|---------|----------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 4,456.8 | 6,640.1 | 7,047.6 | 7,536.8 | 7,842.8 | 7,160.2 | 8,164.3 |
| Manufacturing | 582.2 | 979.9 | 917.9 | 1,020.1 | 1,139.1 | 1,054.2 | 1,120.3 |
| Construction | 490.5 | 657.2 | 1,037.7 | 1,493.2 | 1,857.2 | 2,027.7 | 2,180.4 |
| Utilities | 170.7 | 217.3 | 169.0 | 205.3 | 196.7 | 197.7 | 209.0 |
| Other Goods Industries ¹ | 9.1 | 11.2 | 11.8 | 12.8 | 13.6 | 13.5 | 14.6 |
| Wholesale & Retail Trade | 267.9 | 474.6 | 436.6 | 350.9 | 303.9 | 132.6 | 284.0 |
| Transportation & Storage | 493.7 | 668.7 | 612.9 | 577.0 | 534.2 | 437.9 | 531.1 |
| Accommodation & Food Services | 156.8 | 266.0 | 314.3 | 313.7 | 248.8 | 222.9 | 314.5 |
| Information & Communications | 121.3 | 176.7 | 189.0 | 161.6 | 173.6 | 140.4 | 175.6 |
| Finance & Insurance | 38.0 | 134.5 | 139.0 | 97.8 | 93.8 | -16.8 | 29.5 |
| Business Services | 844.7 | 1,513.6 | 1,549.3 | 1,601.1 | 1,652.7 | 1,508.9 | 1,758.3 |
| Other Services Industries | 633.2 | 836.7 | 908.3 | 833.2 | 651.0 | 453.8 | 580.5 |
| Ownership of Dwellings | 648.7 | 703.7 | 761.8 | 870.1 | 978.2 | 987.4 | 966.5 |

Notes: The industries are classified according to the Singapore Standard Industrial Classification 2015.

¹ Comprise Agriculture, Fishing and Quarrying.



International Accounts

International Accounts



Balance of Payments



The balance of payments summarises all economic transactions between residents of an economy and non-residents (i.e. the rest of the world). It comprises international trade in goods and services, primary and secondary income flows, as well as capital and financial flows. It is very useful for assessing the external performance of an economy and for formulating policies associated with it.

transactions recorded The in the balance of payments fall into the following three broad categories:

- a) Current Account: Consists of transactions relating to Singapore's income current national expenditure. These include exports and imports of goods and services, primary income receipts and payments, as well as net current transfers (secondary income).
- b) Capital and Financial Account: Covers affecting transactions the foreign financial assets and liabilities Singapore. Hence it records transactions that affect the national income in future periods.
- Reserve Assets: Show the changes in Singapore's foreign reserves holdings. They consist of Singapore's official holdings of monetary gold foreign exchange assets, as well as Singapore's special drawing rights and reserve position in the International Monetary Fund.

Singapore's balance of payments estimates are compiled in accordance with the principles and recommendations set out in the International Monetary Fund's Balance of Payments and International Investment Position Manual. The structure and classification of Singapore's Balance of Payments accounts follow the sixth edition of the manual.

Studies to improve the balance of payments estimates are continual and the estimates are revised as and when appropriate.

| Balance of Payments, 2016 | | | | | | | | | |
|------------------------------------------|-------------------|--|--|--|--|--|--|--|--|
| | (Million Dollars) | | | | | | | | |
| Overall Balance | -2,455.3 | | | | | | | | |
| Current Account Balance | 78,058.9 | | | | | | | | |
| Capital and Financial Account Balance | 81,896.5 | | | | | | | | |
| Reserve Assets ¹ | -2,455.3 | | | | | | | | |

Sources of Data (1)



The balance of payments estimates are mainly from trade and shipping compiled statistics, regular surveys of companies and administrative records of government departments and statutory authorities.

Definitions



Goods Balance: Refers to the difference between total exports and total imports of goods on a 'f.o.b' (Free On Board) basis.

Services Balance: Refers to the difference between total exports and total imports of services.

Primary Income Balance: Refers to the difference between primary income receivable by Singapore residents from abroad and primary income payable to non-residents from Singapore.

Secondary Income Balance: Refers to the difference between current transfers received by Singapore residents from abroad and current transfers received by non-residents from Singapore.

International Accounts •



Current Account Balance: Refers to the balance of transactions in goods, services, primary income and secondary income. It shows the net change in financial assets arising from Singapore's real transactions.

Capital and Financial Account Balance: Refers to the balance of transactions in the capital and financial account. It reflects the net changes in Singapore's foreign financial assets and liabilities.

Overall Balance: Refers to the overall balance of the current, capital and financial accounts. It is the balance of all of Singapore's transactions with non-residents and is financed by official reserves.

International Investment Position



The international investment position (IIP) is a statistical statement that shows, at a point in time, the value and composition of financial assets and liabilities of residents of an economy with non-residents. The net IIP, which is the difference between the economy, and refers to the difference between an economy's external financial assets with its liabilities, plus the value of non-financial assets, equals to the net worth of the economy.

The IIP is related to the financial account of the balance of payments. While the financial account shows net acquisition and disposal of financial assets and liabilities during a period, the IIP records the stock of financial assets and liabilities at a specific point in time. Due to the above relationship, both the IIP and financial account of the balance of payments use the functional categories as the highest level of classification. These functional categories are direct investment, portfolio investment, financial derivatives, other investment, and reserve assets.

Singapore's IIP estimates are compiled based on the principles recommended in the

International Monetary Fund's Balance of Payments and International Investment Position Manual, Sixth edition.

External Debt



Gross external debt, at any given time, is defined as the outstanding amount of current (and not contingent) debt liabilities owed to non-residents by residents of an economy. The external debt position can also be understood as a subset of the IIP, where it is equivalent to total external liabilities of the latter less equity and investment fund shares and financial derivatives.

The compilation of Singapore's external debt statistics is consistent with the recommendations set out in the International Monetary Fund's External Debt Statistics Guide (2013).

Other References



Major changes and improvements to the current account and capital and financial account of the balance of payments, international investment position and external debt, which includes changes in conceptual treatment, classifications, enhanced coverage, as well as data dissemination and methodological improvements, described in the occasional paper "Implementation of IMF Balance of Payments and International Investment Position Manual, Sixth Edition in Singapore's balance of payments" "Singapore's and the information paper International Accounts: Methodological Updates and Recent Developments".

Analyses on Singapore's balance of payments may be found in the "Economic Survey of Singapore", published by the Ministry of Trade and Industry.

6.1 BALANCE OF PAYMENTS

Million Dollars

| | Millio | | | | | | llion Dollars |
|-----------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| A Current Account Balance | 75,567.0 | 76,779.7 | 62,799.0 | 64,026.9 | 77,060.6 | 73,906.3 | 78,058.9 |
| Goods Balance | 84,495.1 | 92,279.7 | 89,015.3 | 93,877.7 | 103,533.5 | 113,901.5 | 114,373.0 |
| Exports of Goods | 506,423.4 | 554,688.1 | 553,403.7 | 560,180.1 | 560,880.7 | 521,839.0 | 499,539.8 |
| Imports of Goods | 421,928.3 | 462,408.4 | 464,388.4 | 466,302.4 | 457,347.2 | 407,937.5 | 385,166.8 |
| Services Balance | -518.8 | 1,256.9 | -4,403.6 | -9,228.8 | -7,623.3 | -8,120.2 | -8,204.4 |
| Exports of Services | 137,484.7 | 150,009.3 | 159,163.9 | 174,790.7 | 194,370.9 | 204,297.0 | 206,737.5 |
| Maintenance & Repair Services | 8,648.4 | 9,343.9 | 9,053.1 | 10,769.1 | 9,856.2 | 9,265.2 | 9,706.3 |
| Transport | 52,775.1 | 53,601.5 | 55,851.4 | 57,649.7 | 66,155.9 | 65,474.4 | 66,801.9 |
| Freight | 41,430.6 | 41,528.4 | 43,156.1 | 45,959.9 | 53,083.7 | 52,240.4 | 53,538.7 |
| Others | 11,344.5 | 12,073.1 | 12,695.3 | 11,689.8 | 13,072.2 | 13,234.0 | 13,263.2 |
| Travel | 19,331.2 | 22,551.8 | 23,488.4 | 24,036.6 | 24,243.4 | 22,771.4 | 25,401.2 |
| Insurance | 4,821.8 | 4,860.2 | 4,537.4 | 5,125.8 | 6,310.1 | 8,376.7 | 8,824.5 |
| Government Goods & Services | 350.8 | 346.2 | 360.8 | 382.9 | 378.0 | 388.9 | 389.1 |
| Construction | 1,406.5 | 1,941.0 | 2,006.6 | 2,219.9 | 1,559.9 | 1,307.4 | 1,309.5 |
| Financial | 16,653.2 | 19,555.5 | 20,695.0 | 23,614.0 | 26,777.3 | 28,954.7 | 26,072.4 |
| Telecommunications, | 10,000.2 | 13,555.5 | 20,033.0 | 20,01 | 20,777.0 | 20,55 | 20,072. |
| Computer & Information Charges for the Use of | 4,831.2 | 4,891.6 | 5,272.1 | 6,116.7 | 6,598.7 | 8,831.8 | 8,918.4 |
| Intellectual Property | 1,330.3 | 2,089.9 | 2,320.4 | 3,974.4 | 4,794.3 | 7,121.6 | 7,377.7 |
| Personal, Cultural & Recreational | 689.2 | 651.5 | 667.8 | 698.8 | 712.9 | 619.0 | 638.2 |
| Other Business Services | 26,647.0 | 30,176.2 | 34,910.9 | 40,202.8 | 46,984.2 | 51,185.9 | 51,298.3 |
| Accounting | 355.9 | 402.3 | 407.3 | 400.3 | 332.2 | 307.3 | 304.7 |
| Advertising And Market Research | 1,073.8 | 1,642.1 | 2,681.4 | 4,629.6 | 7,763.3 | 10.137.5 | 10,051.5 |
| Architectural | 270.0 | 302.0 | 354.1 | 312.5 | 389.6 | 381.1 | 377.8 |
| | 13,538.1 | 14,831.4 | 16,671.5 | 19,783.5 | 19,997.0 | 20,945.9 | 20,768.1 |
| Business Management | - | - | | = | | • | |
| Engineering And Technical | 2,424.3 528.3 | 3,397.2 558.1 | 4,195.5 600.1 | 5,059.4 643.4 | 6,081.0 676.8 | 5,019.2 766.8 | 5,199.5 760.2 |
| Legal | 612.8 | 635.6 | 719.4 | | 869.2 | | |
| Research And Development | | | | 1,109.1 | | 1,003.1 | 1,039.3 |
| Trade-Related Others | 3,970.0 | 4,808.3 | 5,489.9 | 3,928.1 | 4,899.9 | 5,413.9 | 5,449.2 |
| | 3,873.8 | 3,599.2 | 3,791.7 | 4,336.9 | 5,975.2 | 7,211.1 | 7,348.0 |
| Imports of Services | 138,003.5 | 148,752.4 | 163,567.5 | 184,019.5 | 201,994.2 | 212,417.2 | 214,941.9 |
| Maintenance & Repair Services | 874.1 | 872.3 | 837.0 | 845.2 | 880.7 | 937.5 | 918.5 |
| Transport | 40,595.1 | 41,990.2 | 44,817.9 | 47,891.1 | 59,225.2 | 66,813.0 | 67,239.7 |
| Freight | 23,787.4 | 26,450.5 | 26,570.4 | 28,766.2 | 37,897.0 | 44,148.0 | 45,048.1 |
| Others | 16,807.7 | 15,539.7 | 18,247.5 | 19,124.9 | 21,328.2 | 22,665.0 | 22,191.6 |
| Travel | 25,497.3 | 27,048.4 | 28,926.3 | 30,664.9 | 30,865.2 | 30,360.1 | 30,535.3 |
| Insurance | 5,510.2 | 5,699.9 | 5,992.8 | 6,016.8 | 5,291.9 | 7,491.5 | 8,192.0 |
| Government Goods & Services | 261.3 | 260.8 | 256.8 | 287.0 | 295.1 | 275.9 | 309.8 |
| Construction | 702.0 | 944.0 | 944.0 | 972.4 | 692.7 | 667.5 | 668.5 |
| Financial | 3,493.8 | 3,915.1 | 4,070.9 | 4,675.7 | 5,549.9 | 6,057.4 | 6,258.1 |
| Telecommunications, | | | | | | | |
| Computer & Information | 4,823.6 | 6,028.2 | 6,824.8 | 8,879.0 | 10,941.0 | 11,514.1 | 11,570.5 |
| Charges for the Use of | | | | | | | |
| Intellectual Property | 22,647.6 | 24,678.8 | 27,549.9 | 28,237.2 | 26,033.9 | 25,706.4 | 26,630.9 |
| Personal, Cultural & Recreational | 643.6 | 616.6 | 595.2 | 568.6 | 639.4 | 624.1 | 643.6 |
| Other Business Services | 32,954.9 | 36,698.1 | 42,751.9 | 54,981.6 | 61,579.2 | 61,969.7 | 61,975.0 |
| Accounting | 205.4 | 222.2 | 271.1 | 260.3 | 291.0 | 331.3 | 328.6 |
| Advertising And Market Research | 2,139.5 | 2,214.8 | 2,448.0 | 2,745.9 | 2,985.0 | 3,323.1 | 3,294.9 |
| Architectural | 64.0 | 62.5 | 84.6 | 78.8 | 56.9 | 47.8 | 47.4 |
| Business Management | 10,347.4 | 12,930.4 | 13,934.6 | 15,264.5 | 16,988.4 | 18,282.3 | 18,136.4 |
| Engineering And Technical | 1,749.7 | 1,967.7 | 2,340.8 | 2,755.9 | 3,316.6 | 3,269.8 | 3,387.4 |
| Legal | 284.5 | 234.7 | 664.0 | 262.8 | 299.4 | 315.9 | 313.2 |
| Research And Development | 3,921.2 | 4,528.2 | 5,250.3 | 11,254.8 | 9,904.0 | 9,338.6 | 8,819.7 |
| Trade-Related | 6,851.5 | 7,964.1 | 9,424.8 | 11,063.9 | 11,973.8 | 12,162.0 | 12,309.2 |
| Others | 7,391.7 | 6,573.5 | 8,333.7 | 11,294.7 | 15,764.1 | 14,898.9 | 15,338.2 |

(continued on the next page)

6.1 BALANCE OF PAYMENTS (continued)

| | | Million I | | | | | | |
|---------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | |
| A Current Account Balance (continued) | 75,567.0 | 76,779.7 | 62,799.0 | 64,026.9 | 77,060.6 | 73,906.3 | 78,058.9 | |
| Primary Income Balance | -1,834.5 | -9,255.1 | -13,290.3 | -12,478.4 | -10,024.4 | -18,155.9 | -13,119.2 | |
| Primary Income Receipts | 85,383.3 | 80,804.9 | 79,132.0 | 82,157.0 | 85,352.9 | 86,510.7 | 90,486.8 | |
| Primary Income Payments | 87,217.8 | 90,060.0 | 92,422.3 | 94,635.4 | 95,377.3 | 104,666.6 | 103,606.0 | |
| Secondary Income Balance | -6,574.8 | -7,501.8 | -8,522.4 | -8,143.6 | -8,825.2 | -13,719.1 | -14,990.5 | |
| General Government (Net) | 925.6 | 1,006.1 | 1,179.4 | 1,034.7 | 961.4 | 1,154.6 | 1,212.7 | |
| Other Sectors (Net) | -7,500.4 | -8,507.9 | -9,701.8 | -9,178.3 | -9,786.6 | -14,873.7 | -16,203.2 | |
| B Capital and Financial | | | | | | | | |
| Account Balance ¹ | 24,004.3 | 53,313.8 | 30,703.2 | 42,423.6 | 66,477.3 | 70,808.0 | 81,896.5 | |
| Financial Account (Net) | 24,004.3 | 53,313.8 | 30,703.2 | 42,423.6 | 66,477.3 | 70,808.0 | 81,896.5 | |
| Direct Investment | -26,818.4 | -22,369.1 | -45,980.5 | -26,387.1 | -27,583.7 | -53,858.1 | -52,096.0 | |
| Assets | 48,278.0 | 39,458.1 | 24,297.1 | 54,552.7 | 66,161.1 | 43,176.7 | 33,002.9 | |
| Liabilities | 75,096.4 | 61,827.2 | 70,277.6 | 80,939.8 | 93,744.8 | 97,034.8 | 85,098.9 | |
| Portfolio Investment | 40,134.8 | 12,584.4 | 98,467.6 | 79,573.1 | 61,118.5 | 74,808.4 | 28,623.9 | |
| Assets | 51,049.6 | 5,237.5 | 104,138.5 | 77,737.7 | 68,599.8 | 67,282.1 | 33,814.2 | |
| Deposit-Taking Corporations, | | | | | | | | |
| except the Central Bank | 9,272.9 | -13,746.7 | 38,125.7 | 21,614.5 | 21,227.4 | 2,389.6 | -14,353.3 | |
| Official | 13,910.9 | 12,735.8 | 13,929.9 | 15,413.5 | 20,108.5 | 25,023.9 | 26,237.3 | |
| Others | 27,865.8 | 6,248.4 | 52,082.9 | 40,709.7 | 27,263.9 | 39,868.6 | 21,930.2 | |
| Liabilities | 10,914.8 | -7,346.9 | 5,670.9 | -1,835.4 | 7,481.3 | -7,526.3 | 5,190.3 | |
| Deposit-Taking Corporations, | | | | | | | | |
| except the Central Bank | -883.4 | -2,872.1 | -4,814.6 | 6,704.6 | 11,447.5 | -5,462.6 | 14,051.6 | |
| Others | 11,798.2 | -4,474.8 | 10,485.5 | -8,540.0 | -3,966.2 | -2,063.7 | -8,861.3 | |
| Financial Derivatives | -4,903.6 | 21,480.7 | -21,753.3 | -16,341.1 | -1,136.5 | -17,251.6 | 6,399.4 | |
| Assets | 6,238.5 | 44,140.6 | -50,331.4 | -13,146.8 | 1,708.1 | -16,089.9 | 7,578.5 | |
| Liabilities | 11,142.1 | 22,659.9 | -28,578.1 | 3,194.3 | 2,844.6 | 1,161.7 | 1,179.1 | |
| Other Investment | 15,591.5 | 41,617.8 | -30.6 | 5,578.7 | 34,079.0 | 67,109.3 | 98,969.2 | |
| Assets | 95,297.8 | 97,653.7 | 24,355.5 | 127,875.0 | 100,965.4 | 58,425.2 | 117,035.6 | |
| Deposit-Taking Corporations, | | | | | | | | |
| except the Central Bank | 12,191.9 | 73,478.3 | -16,433.3 | 80,780.8 | 50,392.5 | 22,100.2 | 34,196.3 | |
| Official | 19,522.1 | 33,872.6 | 19,290.5 | 37,030.3 | 22,029.4 | 14,679.3 | 59,684.0 | |
| Others | 63,583.8 | -9,697.2 | 21,498.3 | 10,063.9 | 28,543.5 | 21,645.7 | 23,155.3 | |
| Liabilities | 79,706.3 | 56,035.9 | 24,386.1 | 122,296.3 | 66,886.4 | -8,684.1 | 18,066.4 | |
| Deposit-Taking Corporations, | | | | | | | | |
| except the Central Bank | 34,742.9 | 59,486.2 | 7,198.3 | 108,742.1 | 52,241.7 | -1,340.2 | 14,416.8 | |
| Others | 44,963.4 | -3,450.3 | 17,187.8 | 13,554.2 | 14,644.7 | -7,343.9 | 3,649.6 | |

(continued on the next page)

Notes: Decrease in assets and liabilities, and net inflows in net balances, are indicated by a minus (-) sign.

¹ The capital account is consolidated under the financial account.

1,692.5

-2,773.2

6.1 **BALANCE OF PAYMENTS** (continued)

Foreign Exchanges Assets

| | | | | | | Mill | ion Dollars |
|-----------------------------|----------|----------|----------|----------|----------|----------|-------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| C Net Errors and Omissions | 5,917.8 | -1,978.2 | 510.1 | 1,127.6 | -1,965.5 | -1,597.6 | 1,382.3 |
| D Overall Balance (A-B+C) | 57,480.5 | 21,487.7 | 32,605.9 | 22,730.9 | 8,617.8 | 1,500.7 | -2,455.3 |
| E Reserves Assets | 57,480.5 | 21,487.7 | 32,605.9 | 22,730.9 | 8,617.8 | 1,500.7 | -2,455.3 |
| Special Drawing Rights | -235.4 | -237.1 | -91.8 | 56.6 | -19.8 | 39.8 | -271.2 |
| Reserve Position in the IMF | 45.5 | 484.6 | 35.1 | 181.0 | -212.6 | -231.6 | 589.1 |

21,240.2

32,662.6

22,493.3

8,850.2

 $Download\ time\ series\ at\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=1391$

57,670.4

6.2 SINGAPORE INTERNATIONAL INVESTMENT POSITION (End of Period)

| | | | | | | N | 1illion Dollars |
|------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Net International Investment Position | 659,570.5 | 693,976.5 | 719,298.3 | 759,083.5 | 752,886.8 | 790,359.7 | 918,828.0 |
| External Assets | 3,000,995.2 | 3,185,241.9 | 3,355,225.6 | 3,696,280.1 | 4,000,277.6 | 4,200,091.1 | 4,450,952.1 |
| Direct Investment | 600,141.2 | 651,282.4 | 694,428.3 | 775,640.1 | 862,270.7 | 921,539.8 | 986,961.3 |
| Equity And Investment Fund Shares | 412,898.1 | 438,084.1 | 485,931.7 | 536,279.4 | 623,142.3 | 659,716.2 | 715,799.7 |
| Debt Instruments | 187,243.1 | 213,198.3 | 208,496.6 | 239,360.7 | 239,128.4 | 261,823.6 | 271,161.6 |
| Portfolio Investment | 758,254.8 | 794,263.8 | 983,742.5 | 1,158,478.3 | 1,271,932.6 | 1,364,061.9 | 1,481,969.2 |
| Equity And Investment Fund Shares | 381,178.3 | 399,312.5 | 523,838.3 | 596,598.1 | 644,251.1 | 691,995.6 | 748,751.3 |
| Debt Securities | 377,076.5 | 394,951.3 | 459,904.2 | 561,880.2 | 627,681.5 | 672,066.3 | 733,217.9 |
| Financial Derivatives | 138,316.7 | 184,796.1 | 113,431.8 | 110,404.2 | 145,449.8 | 134,293.7 | 147,134.4 |
| Other Investment | 1,215,328.4 | 1,246,496.4 | 1,246,878.8 | 1,307,028.3 | 1,380,186.4 | 1,429,204.9 | 1,478,633.3 |
| Trade Credits And Advances | 169,376.0 | 171,943.3 | 173,974.4 | 176,827.2 | 181,144.2 | 161,818.3 | 167,399.2 |
| Loans | 263,134.4 | 270,971.8 | 291,168.3 | 342,060.5 | 397,393.3 | 415,867.9 | 402,462.9 |
| Currency And Deposits | 628,333.0 | 652,684.4 | 652,102.3 | 679,059.8 | 668,366.2 | 701,681.3 | 758,193.7 |
| Insurance Technical Reserves | 12,465.0 | 8,687.3 | 8,750.3 | 8,322.6 | 9,247.4 | 9,910.2 | 13,119.7 |
| Other Accounts Receivable | 142,020.0 | 142,209.6 | 120,883.5 | 100,758.2 | 124,035.3 | 139,927.2 | 137,457.8 |
| Reserve Assets ¹ | 288,954.1 | 308,403.2 | 316,744.2 | 344,729.2 | 340,438.1 | 350,990.8 | 356,253.9 |
| External Liabilities | 2,341,424.7 | 2,491,265.4 | 2,635,927.3 | 2,937,196.6 | 3,247,390.8 | 3,409,731.4 | 3,532,124.1 |
| Direct Investment | 814,677.9 | 888,319.9 | 1,005,089.0 | 1,134,905.5 | 1,347,015.2 | 1,529,860.0 | 1,585,606.9 |
| Equity And Investment Fund Shares | 676,275.4 | 719,458.8 | 830,767.3 | 941,908.0 | 1,117,100.2 | 1,270,793.8 | 1,321,039.3 |
| Debt Instruments | 138,402.5 | 168,861.1 | 174,321.7 | 192,997.5 | 229,915.0 | 259,066.2 | 264,567.6 |
| Portfolio Investment | 204,855.7 | 166,233.1 | 201,977.6 | 247,275.3 | 273,024.0 | 244,481.4 | 258,795.3 |
| Equity And Investment Fund Shares | 182,951.5 | 146,038.3 | 174,696.1 | 207,156.4 | 227,203.9 | 202,944.4 | 213,356.7 |
| Debt Securities | 21,904.2 | 20,194.8 | 27,281.5 | 40,118.9 | 45,820.1 | 41,537.0 | 45,438.6 |
| Financial Derivatives | 118,640.8 | 130,081.1 | 101,765.7 | 100,445.8 | 123,600.0 | 124,287.9 | 141,311.8 |
| Other Investment | 1,203,250.3 | 1,306,631.3 | 1,327,095.0 | 1,454,570.0 | 1,503,751.6 | 1,511,102.1 | 1,546,410.1 |
| Trade Credits And Advances | 143,400.7 | 145,918.9 | 150,352.1 | 151,597.2 | 144,263.1 | 136,328.7 | 144,586.8 |
| Loans | 58,114.2 | 81,532.0 | 93,513.9 | 109,782.7 | 115,444.7 | 128,012.8 | 144,244.8 |
| Currency And Deposits | 915,697.0 | 978,831.8 | 991,308.1 | 1,099,725.5 | 1,138,588.3 | 1,121,189.3 | 1,128,051.3 |
| Insurance Technical Reserves | 9,241.8 | 16,136.7 | 13,510.9 | 12,499.1 | 13,320.8 | 13,830.8 | 14,089.0 |
| Special Drawing Rights Allocation | 1,478.0 | 1,486.1 | 1,399.4 | 1,446.8 | 1,428.8 | 1,462.2 | 1,447.0 |
| Other Accounts Payable | 75,318.6 | 82,725.8 | 77,010.6 | 79,518.7 | 90,705.9 | 110,278.3 | 113,991.2 |

¹ Assets held by the Monetary Authority of Singapore.

6.3 EXTERNAL DEBT
(End of Period)

| | Million Dollar | | | | | | |
|-----------------------------------------------------------------------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Gross External Debt | 1,368,546.5 | 1,495,687.5 | 1,528,698.3 | 1,687,686.1 | 1,779,486.7 | 1,811,705.3 | 1,856,416.2 |
| Direct Investment: Intercompany Loans Debt Liabilities Of DIE ¹ | 138,732.3 | 168,861.1 | 174,321.7 | 192,997.4 | 229,915.0 | 259,066.2 | 264,567.5 |
| To Direct Investors Debt Liabilities Of Direct Investors | 81,738.6 | 101,377.2 | 104,237.6 | 104,811.9 | 119,110.6 | 142,106.2 | 152,941.7 |
| To DIE ¹ Debt Liabilities Between | 9,548.6 | 16,113.5 | 18,001.4 | 30,127.0 | 32,741.9 | 38,479.9 | 39,128.0 |
| Fellow Enterprises | 47,445.1 | 51,370.4 | 52,082.7 | 58,058.5 | 78,062.5 | 78,480.1 | 72,497.8 |
| Other Liabilities | 1,229,814.2 | 1,326,826.4 | 1,354,376.6 | 1,494,688.7 | 1,549,571.7 | 1,552,639.1 | 1,591,848.7 |
| General Government | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Central Bank | 1,478.0 | 1,486.1 | 1,399.4 | 1,446.8 | 1,428.8 | 1,462.2 | 1,447.0 |
| Short-term | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Loans | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Debt Securities | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Currency And Deposits ² | | | | | | | |
| Others | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Long-term | 1,478.0 | 1,486.1 | 1,399.4 | 1,446.8 | 1,428.8 | 1,462.2 | 1,447.0 |
| Special Drawing Rights | | | | | | | |
| (Allocations) | 1,478.0 | 1,486.1 | 1,399.4 | 1,446.8 | 1,428.8 | 1,462.2 | 1,447.0 |
| Loans | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Debt Securities | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Others | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Deposit-taking Corporations | 992,097.1 | 1,061,772.8 | 1,070,379.4 | 1,188,696.9 | 1,242,603.4 | 1,238,621.8 | 1,253,121.0 |
| Short-term | 921,625.2 | 984,450.8 | 998,801.0 | 1,113,891.9 | 1,155,988.0 | 1,133,479.9 | 1,145,786.3 |
| Loans | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Debt Securities | 2,026.4 | 1,881.0 | 3,591.3 | 10,238.5 | 13,474.6 | 7,522.5 | 12,022.3 |
| Currency And Deposits | 915,231.4 | 978,247.6 | 990,715.3 | 1,099,077.2 | 1,137,726.2 | 1,120,386.2 | 1,127,116.0 |
| Others | 4,367.4 | 4,322.2 | 4,494.4 | 4,576.2 | 4,787.2 | 5,571.2 | 6,648.0 |
| Long-term | 70,471.9 | 77,322.0 | 71,578.4 | 74,805.0 | 86,615.4 | 105,141.9 | 107,334.7 |
| Loans | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Debt Securities | 725.2 | 748.4 | 1,020.0 | 2,178.3 | 2,232.7 | 2,314.8 | 1,483.2 |
| Others | 69,746.7 | 76,573.6 | 70,558.4 | 72,626.7 | 84,382.7 | 102,827.1 | 105,851.5 |

(continued on the next page)

Notes: With the implementation of the recommendations of the 6th Edition of the Balance of Payments and International Investment Manual (BPM6), Singapore's gross external debt is now reported on a BPM6 format. The accompanying revision in the treatment of Asian Currency Units (ACUs) as resident units (which previously were treated as non-resident units) means that the coverage of Singapore's external assets and liabilities has been expanded to include those of the ACUs, resulting in increases in both Singapore's external assets and liabilities. While the expansion of coverage has resulted in higher gross external debt (or liabilities), it has resulted also in higher external assets. Singapore remains a net creditor, as the resulting increase in external assets is more than the increase in liabilities. More information may be found in the Occasional Paper on "Implementation of IMF Balance of Payments and International Investment Position Manual, Sixth Edition in Singapore's Balance of Payments".

¹ Refers to direct investment enterprise.

² Data are not released due to relatively insignificant value and/or in order to safeguard confidentiality of information provided by individual establishments.

6.3 EXTERNAL DEBT (continued) (End of Period)

| | | | | | Mi | llion Dollars |
|-----------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | | | | |
| | | | | | | |
| 236,239.1 | 263,567.5 | 282,597.8 | 304,545.0 | 305,539.5 | 312,555.1 | 337,280.7 |
| 189,821.1 | 191,068.4 | 205,298.2 | 219,659.1 | 216,068.5 | 225,916.0 | 244,852.0 |
| 148,118.7 | 145,918.9 | 150,352.1 | 151,597.2 | 144,263.1 | 136,328.7 | 144,586.8 |
| 36,876.9 | 43,040.3 | 52,692.9 | 65,068.7 | 68,997.8 | 87,042.6 | 97,995.3 |
| 3,296.5 | 902.2 | 846.7 | 1,052.6 | 751.0 | 653.6 | 655.5 |
| 1,529.0 | 1,207.0 | 1,406.5 | 1,940.6 | 2,056.6 | 1,891.1 | 1,614.4 |
| 46,418.0 | 72,499.1 | 77,299.6 | 84,885.9 | 89,471.0 | 86,639.1 | 92,428.7 |
| 21,077.3 | 38,491.8 | 40,821.0 | 44,714.0 | 46,446.9 | 40,970.2 | 46,249.5 |
| 15,856.1 | 16,663.3 | 21,823.6 | 26,649.4 | 29,361.8 | 31,046.0 | 31,277.7 |
| 9,484.6 | 17,344.0 | 14,655.0 | 13,522.5 | 13,662.3 | 14,622.9 | 14,901.5 |
| | 236,239.1 189,821.1 148,118.7 36,876.9 3,296.5 1,529.0 46,418.0 21,077.3 15,856.1 | 236,239.1 263,567.5 189,821.1 191,068.4 148,118.7 145,918.9 36,876.9 43,040.3 3,296.5 902.2 1,529.0 1,207.0 46,418.0 72,499.1 21,077.3 38,491.8 15,856.1 16,663.3 | 236,239.1 263,567.5 282,597.8 189,821.1 191,068.4 205,298.2 148,118.7 145,918.9 150,352.1 36,876.9 43,040.3 52,692.9 3,296.5 902.2 846.7 1,529.0 1,207.0 1,406.5 46,418.0 72,499.1 77,299.6 21,077.3 38,491.8 40,821.0 15,856.1 16,663.3 21,823.6 | 236,239.1 263,567.5 282,597.8 304,545.0 189,821.1 191,068.4 205,298.2 219,659.1 148,118.7 145,918.9 150,352.1 151,597.2 36,876.9 43,040.3 52,692.9 65,068.7 3,296.5 902.2 846.7 1,052.6 1,529.0 1,207.0 1,406.5 1,940.6 46,418.0 72,499.1 77,299.6 84,885.9 21,077.3 38,491.8 40,821.0 44,714.0 15,856.1 16,663.3 21,823.6 26,649.4 | 236,239.1 263,567.5 282,597.8 304,545.0 305,539.5 189,821.1 191,068.4 205,298.2 219,659.1 216,068.5 148,118.7 145,918.9 150,352.1 151,597.2 144,263.1 36,876.9 43,040.3 52,692.9 65,068.7 68,997.8 3,296.5 902.2 846.7 1,052.6 751.0 1,529.0 1,207.0 1,406.5 1,940.6 2,056.6 46,418.0 72,499.1 77,299.6 84,885.9 89,471.0 21,077.3 38,491.8 40,821.0 44,714.0 46,446.9 15,856.1 16,663.3 21,823.6 26,649.4 29,361.8 | 2010 2011 2012 2013 2014 2015 236,239.1 263,567.5 282,597.8 304,545.0 305,539.5 312,555.1 189,821.1 191,068.4 205,298.2 219,659.1 216,068.5 225,916.0 148,118.7 145,918.9 150,352.1 151,597.2 144,263.1 136,328.7 36,876.9 43,040.3 52,692.9 65,068.7 68,997.8 87,042.6 3,296.5 902.2 846.7 1,052.6 751.0 653.6 1,529.0 1,207.0 1,406.5 1,940.6 2,056.6 1,891.1 46,418.0 72,499.1 77,299.6 84,885.9 89,471.0 86,639.1 21,077.3 38,491.8 40,821.0 44,714.0 46,446.9 40,970.2 15,856.1 16,663.3 21,823.6 26,649.4 29,361.8 31,046.0 |

Notes: With the implementation of the recommendations of the 6th Edition of the Balance of Payments and International Investment Manual (BPM6), Singapore's gross external debt is now reported on a BPM6 format. The accompanying revision in the treatment of Asian Currency Units (ACUs) as resident units (which previously were treated as non-resident units) means that the coverage of Singapore's external assets and liabilities has been expanded to include those of the ACUs, resulting in increases in both Singapore's external assets and liabilities. While the expansion of coverage has resulted in higher gross external debt (or liabilities), it has resulted also in higher external assets. Singapore remains a net creditor, as the resulting increase in external assets is more than the increase in liabilities. More information may be found in the Occasional Paper on "Implementation of IMF Balance of Payments and International Investment Position Manual, Sixth Edition in Singapore's Balance of Payments".

Investment

Investment



Direct Investment



Data on foreign direct investment in Singapore are compiled from the Survey of Foreign Equity Investment and the Survey of Foreign Debt and Financial Derivative Transactions.

Data on Singapore's direct investment abroad are obtained from the Survey of Singapore's Investment Abroad. The coverage of the survey was extended to financial institutions (i.e. banks, finance and insurance companies) since 1994.



Foreign Direct Investment (FDI): Refers to a category of investment that reflects the objective of establishing a lasting interest by an enterprise (direct investor) resident in one economy in an enterprise (direct investment enterprise) resident in an economy other than that of the direct investor. The lasting interest implies the existence of a long-term relationship between the direct investor and the direct investment enterprise and a significant degree of influence on the management of the enterprise. The direct or indirect ownership of 10 per cent or more of the voting power of an enterprise resident in one economy by an investor resident in another economy is evidence of such a relationship.

FDI comprises foreign direct equity Investment (FDEI) and the net inter-company debt between direct investors and direct investment enterprises.

Foreign Direct Equity Investment (FDEI): Refers to equity capital in direct investment enterprises attributable to foreign direct investors.

Equity capital covers all components of shareholders' funds (proportionate to the percentage of shares held), including equity, contributed surplus, reinvested earnings, revaluations, as well as any reserve accounts.

Net fixed assets are used as a proxy of equity capital for branches of non-resident banks. As for the branches of other non-resident entities, the net amount owed by branches to their non-resident head office is used.

Reinvested Earnings: Refer to earnings on equity accruing to direct investors less distributed earnings, proportionate to the percentage ownership of the equity owned by the direct investor(s).

Net Inter-Company Debt: Refers to the net outstanding debt owed by foreign direct investment enterprises to the foreign direct investors. The debt could be in the form of loans or debt securities.

Investment Commitments



Other References



Detailed data on investment are available in the reports "Foreign Direct Investment in Singapore" and "Singapore's Direct Investment Abroad".

7.1 STOCK OF FOREIGN DIRECT INVESTMENT IN SINGAPORE BY INDUSTRY (End of Period)

Million Dollars Industry 2009 2010 2011 2012 2013 2014 2015 574,703.6 665,113.4 702,565.2 810,079.0 907,123.5 1,113,273.4 1,255,542.1 Total 170,292.1 Manufacturing 124,834.8 133,888.3 139,869.0 127,437.3 159,661.2 156,592.0 2,754.4 1,754.5 2,521.7 2,578.1 3,447.3 Construction 3,884.1 3,522.7 Wholesale & Retail Trade 99,198.9 110,996.2 121,660.4 137,283.2 153,876.1 198,597.0 231,728.1 Accommodation & Food 3,486.7 4,131.9 4,596.2 4,817.3 3,966.2 5,239.3 5,349.9 Service Activities Transport & Storage 36,661.3 34,952.2 30,338.5 34,528.7 32,911.7 38,010.3 39,922.2 Information & Communications 5,901.0 7,778.9 7,019.8 11,222.6 12,984.7 19,226.2 20,671.9 Financial & Insurance Services 239,127.2 308,598.4 316,820.2 407,264.6 441,674.5 561,052.0 625,852.9 Real Estate Activities 17,307.9 20,980.8 25,560.7 29,956.5 37,917.6 34,986.2 32,228.6 Professional, Scientific & Technical, **Administrative & Support Services** 37,667.6 34,473.6 44,484.9 45,588.4 55,877.0 77,282.1 106,762.6 Others 7,763.9 7,558.6 9,693.8 9,402.3 10,496.1 15,472.7 16,453.5

Notes: The industries are classified according to Singapore Standard Industrial Classification 2015.

 $Download\ time\ series\ at\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=8503$

7.2 STOCK OF SINGAPORE'S DIRECT INVESTMENT ABROAD BY INDUSTRY (End of Period)

| | | | | | | N | Aillion Dollars |
|---------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| Industry | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| | | | | | | | |
| Total | 370,139.1 | 426,567.5 | 449,005.5 | 494,096.3 | 536,141.6 | 638,206.7 | 665,365.7 |
| Manufacturing | 78,224.7 | 89,007.6 | 90,316.4 | 96,496.1 | 103,784.6 | 114,529.4 | 121,566.4 |
| Construction | 1,381.6 | 1,298.6 | 1,298.2 | 1,474.4 | 1,643.8 | 1,881.9 | 1,922.4 |
| Wholesale & Retail Trade | 23,359.4 | 26,409.9 | 31,839.0 | 41,200.9 | 48,187.2 | 55,659.0 | 61,812.0 |
| Accommodation & Food | | | | | | | |
| Service Activities | 3,731.2 | 3,776.2 | 4,380.4 | 4,703.2 | 4,530.7 | 4,369.4 | 4,432.5 |
| Transport & Storage | 9,779.2 | 10,611.8 | 11,114.2 | 12,982.4 | 14,988.4 | 19,237.3 | 21,103.0 |
| Information & Communications | 16,564.8 | 18,165.8 | 20,920.6 | 22,263.7 | 22,420.3 | 27,407.8 | 29,142.3 |
| Financial & Insurance Services | 185,451.1 | 206,720.3 | 211,170.5 | 229,767.2 | 250,037.3 | 318,668.3 | 327,143.7 |
| Real Estate Activities | 27,088.5 | 35,338.0 | 39,219.9 | 40,055.7 | 40,927.9 | 45,452.0 | 47,162.8 |
| Professional, Scientific & Technical, | | | | | | | |
| Administrative & Support Services | 5,523.4 | 7,649.0 | 8,313.4 | 9,634.8 | 13,648.5 | 16,023.1 | 20,746.3 |
| Others | 19,035.2 | 27,590.1 | 30,432.9 | 35,517.9 | 35,972.8 | 34,978.4 | 30,334.3 |

Notes: The industries are classified according to Singapore Standard Industrial Classification 2015.

7.3 STOCK OF FOREIGN DIRECT INVESTMENT IN SINGAPORE BY REGION/COUNTRY (End of Period)

| (End of Period) | | | | | | | Million Dollars |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|-------------|-----------------|
| Region/Country | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| | | | | | | | |
| Total | 574,703.6 | 665,113.4 | 702,565.2 | 810,079.0 | 907,123.5 | 1,113,273.4 | 1,255,542.1 |
| Asia | 145,894.9 | 168,772.1 | 170,941.3 | 198,102.0 | 220,859.8 | 283,950.9 | 296,569.3 |
| Brunei Darussalam | 317.9 | 292.5 | 338.2 | 369.7 | 389.5 | 341.2 | 325.0 |
| Cambodia | 0.9 | 6.9 | 22.8 | 22.6 | 23.1 | 21.0 | 19.9 |
| China | 9,725.7 | 17,163.2 | 15,096.8 | 16,306.2 | 17,846.2 | 16,401.0 | 20,785.8 |
| Hong Kong | 18,145.8 | 19,555.2 | 21,801.0 | 30,393.2 | 33,490.1 | 50,120.7 | 48,297.2 |
| India | 21,954.8 | 24,542.0 | 23,104.1 | 23,861.8 | 25,223.5 | 25,759.4 | 24,051.0 |
| Indonesia | 3,894.0 | 4,275.8 | 2,054.7 | 3,819.1 | 2,798.6 | 2,172.5 | 3,764.9 |
| Israel | 4,992.5 | 4,710.9 | 4,747.4 | 4,534.1 | 4,667.7 | 4,503.3 | 2,045.6 |
| Japan | 50,515.4 | 56,005.2 | 55,338.2 | 60,068.8 | 72,246.2 | 109,393.6 | 114,185.7 |
| Korea, Republic of | 2,906.3 | 3,061.7 | 4,143.3 | 3,306.0 | 4,680.9 | 7,576.1 | 10,871.9 |
| Lao People's Democratic Republic | 5.7 | 2.5 | 3.8 | 3.7 | 37.6 | 36.0 | 36.9 |
| Malaysia | 15,864.9 | 19,433.9 | 23,739.1 | 31,370.3 | 30,941.4 | 32,517.9 | 32,857.0 |
| Myanmar | 18.9 | 45.0 | 19.4 | 9.0 | 34.2 | 91.1 | 169.1 |
| Philippines | 1,080.3 | 2,618.6 | 2,419.9 | 3,362.4 | 4,652.3 | 3,799.8 | 4,957.2 |
| Taiwan | 6,169.4 | 5,795.4 | 7,127.8 | 7,252.1 | 8,433.7 | 12,383.2 | 14,556.8 |
| Thailand | 2,076.0 | 5,312.4 | 4,153.1 | 3,806.2 | 4,175.9 | 4,533.6 | 4,653.2 |
| Viet Nam | 28.2 | 59.6 | 60.6 | 24.2 | 107.8 | 181.3 | 301.0 |
| Europe | 221,807.3 | 233,371.0 | 260,406.4 | 280,778.4 | 302,232.7 | 326,678.0 | 379,087.5 |
| Denmark | 3,905.0 | 8,241.7 | 8,973.9 | 10,027.5 | 10,496.0 | 10,722.0 | 14,263.9 |
| France | 8,103.7 | 8,064.9 | 10,609.2 | 12,595.3 | 12,874.5 | 14,893.0 | 14,738.4 |
| Germany | 11,136.4 | 13,985.3 | 14,242.2 | 14,701.6 | 15,810.6 | 17,755.1 | 18,745.1 |
| Ireland | 3,092.1 | 5,055.2 | 7,131.5 | 7,897.9 | 7,321.8 | 10,259.3 | 25,227.5 |
| Luxembourg | 18,142.3 | 19,968.3 | 23,797.5 | 21,256.5 | 24,413.9 | 42,591.4 | 48,836.0 |
| Netherlands | 61,511.7 | 61,979.7 | 71,651.1 | 90,555.8 | 84,902.2 | 70,075.2 | 93,189.1 |
| Norway | 23,134.0 | 22,636.1 | 22,056.9 | 20,731.7 | 21,118.2 | 21,475.9 | 22,176.8 |
| Switzerland | 26,851.5 | 27,138.1 | 28,545.8 | 32,349.4 | 39,635.6 | 44,340.6 | 48,037.4 |
| United Kingdom | 49,499.4 | 49,349.4 | 55,899.8 | 49,092.4 | 59,016.3 | 62,181.3 | 60,154.6 |
| North America | 61,850.8 | 70,623.3 | 79,091.4 | 110,316.1 | 136,907.5 | 200,980.5 | 253,868.6 |
| United States | 58,968.8 | 67,206.2 | 74,644.7 | 105,145.3 | 129,927.8 | 192,408.6 | 243,307.4 |
| Canada | 2,882.1 | 3,417.1 | 4,446.7 | 5,170.8 | 6,979.7 | 8,571.8 | 10,561.2 |
| Oceania | 9,523.2 | 12,676.0 | 14,582.6 | 15,719.5 | 17,504.7 | 23,641.9 | 24,629.4 |
| Australia | 6,004.3 | 8,296.1 | 10,052.7 | 10,220.2 | 10,424.6 | 15,216.8 | 15,500.9 |
| New Zealand | 2,109.6 | 2,509.8 | 3,081.5 | 3,472.6 | 4,288.2 | 3,570.6 | 3,526.4 |

(continued on the next page)

7.3 STOCK OF FOREIGN DIRECT INVESTMENT IN SINGAPORE BY REGION/COUNTRY (continued) (End of Period)

| | | | | | | <u> </u> | Million Dollars |
|-------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| Region/Country | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| | | | | | | | |
| South and Central America | | | | | | | |
| and the Caribbean | 122,052.1 | 164,546.6 | 163,638.7 | 187,893.2 | 210,143.2 | 255,448.5 | 273,582.8 |
| | | | | | | | |
| Africa | 12,754.2 | 15,114.1 | 13,761.4 | 16,844.4 | 19,200.3 | 22,060.9 | 24,785.5 |
| | | | | | | | |
| | | | | | | | |
| ASEAN 1 | 23,286.8 | 32,047.3 | 32,811.5 | 42,787.2 | 43,160.4 | 43,694.4 | 47,084.1 |
| European Union (EU 28) ² | 166,582.8 | 177,311.9 | 201,166.9 | 217,725.3 | 226,919.1 | 244,642.7 | 292,878.1 |
| | | | | | | | |

¹ ASEAN includes Brunei Darussalam, Cambodia, Indonesia, Lao People's Democratic Republic, Malaysia, Myanmar, Philippines, Thailand and Viet Nam.

² The European Union (EU 28) comprises Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Rep, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovak Rep, Slovenia, Spain, Sweden and the United Kingdom.

7.4 STOCK OF SINGAPORE'S DIRECT INVESTMENT ABROAD BY REGION/COUNTRY (End of Period)

| (Ella di Perioa) | | | | | | 1 | Million Dollars |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| Region/Country | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| Total | 370,139.1 | 426,567.5 | 449,005.5 | 494,096.3 | 536,141.6 | 638,206.7 | 665,365.7 |
| Asia | 201,165.8 | 226,436.0 | 258,860.5 | 276,765.7 | 292,614.4 | 333,776.6 | 357,166.7 |
| Brunei Darussalam | 202.0 | 177.7 | 149.5 | 207.6 | 227.6 | 243.4 | 278.0 |
| Cambodia | 271.9 | 271.5 | 216.5 | 225.7 | 240.7 | 247.6 | 305.1 |
| China | 62,241.2 | 72,430.8 | 85,231.9 | 92,047.0 | 102,624.8 | 114,454.7 | 121,067.5 |
| Hong Kong | 23,425.2 | 25,008.0 | 39,429.5 | 40,241.3 | 41,830.8 | 51,084.8 | 52,733.1 |
| India | 9,545.2 | 10,630.8 | 11,242.1 | 12,909.4 | 16,000.2 | 22,678.8 | 29,617.4 |
| Indonesia | 27,695.6 | 31,343.1 | 35,084.2 | 39,910.8 | 40,633.0 | 45,735.9 | 45,438.6 |
| Japan | 9,620.1 | 14,103.9 | 14,079.0 | 9,963.8 | 8,408.8 | 8,414.8 | 9,875.6 |
| Korea, Republic of | 2,786.0 | 3,221.4 | 2,773.8 | 2,886.9 | 3,420.9 | 4,035.9 | 6,062.3 |
| Lao People's Democratic Republic | 226.3 | 222.7 | 225.2 | 226.3 | 163.9 | 262.1 | 289.7 |
| Malaysia | 26,792.3 | 31,470.4 | 33,116.9 | 36,486.3 | 36,700.0 | 40,526.3 | 40,687.2 |
| Myanmar | 196.0 | 183.4 | 174.3 | 291.8 | 332.2 | 1,941.5 | 3,359.3 |
| Philippines | 4,978.4 | 5,235.8 | 5,393.1 | 5,330.4 | 5,226.6 | 5,421.8 | 5,826.4 |
| Taiwan | 6,054.5 | 5,968.1 | 6,182.2 | 7,557.9 | 7,785.7 | 7,318.0 | 7,928.9 |
| Thailand | 20,433.2 | 19,981.4 | 19,810.6 | 19,669.0 | 18,989.4 | 19,967.9 | 20,958.1 |
| Viet Nam | 3,131.3 | 2,731.4 | 3,062.4 | 3,708.7 | 4,225.1 | 4,954.2 | 5,402.8 |
| Europe | 51,087.4 | 63,107.3 | 62,043.3 | 79,921.4 | 93,380.0 | 106,425.6 | 105,481.6 |
| Germany | 998.1 | 1,715.6 | 1,652.8 | 1,576.9 | 1,369.2 | 1,407.7 | 1,531.3 |
| Luxembourg | 242.9 | 877.7 | 1,607.3 | 12,172.6 | 15,988.7 | 28,282.8 | 31,816.1 |
| Netherlands | 4,972.4 | 7,501.9 | 7,735.1 | 7,827.0 | 10,345.7 | 14,671.6 | 16,566.7 |
| Norway | 1,961.4 | 2,125.5 | 2,057.1 | 2,811.9 | 3,155.5 | 3,831.2 | 4,313.6 |
| Switzerland | 4,738.3 | 4,433.3 | 3,435.5 | 3,661.4 | 4,431.1 | 5,257.7 | 5,467.3 |
| United Kingdom | 32,492.4 | 39,502.4 | 37,254.8 | 43,713.6 | 49,153.1 | 42,429.8 | 35,865.4 |
| North America | 14,264.7 | 14,680.9 | 8,125.5 | 9,691.8 | 10,256.1 | 15,622.7 | 17,531.6 |
| United States | 13,134.5 | 14,154.8 | 7,334.0 | 8,296.7 | 9,695.5 | 13,536.8 | 15,569.1 |
| Canada | 1,130.2 | 526.1 | 791.4 | 1,395.1 | 560.7 | 2,085.9 | 1,962.5 |
| Oceania | 26,370.9 | 36,916.5 | 40,038.8 | 44,187.1 | 46,591.7 | 43,023.5 | 40,022.3 |
| Australia | 23,106.6 | 33,322.6 | 36,106.5 | 40,471.2 | 42,244.6 | 38,295.0 | 35,157.3 |
| New Zealand | 1,119.4 | 1,265.5 | 1,565.6 | 1,710.4 | 2,137.1 | 2,275.5 | 2,332.7 |

(continued on the next page)

94,952.8

92,879.7

7.4 STOCK OF SINGAPORE'S DIRECT INVESTMENT ABROAD BY REGION/COUNTRY (continued) (End of Period)

Million Dollars 2009 2012 2013 2014 2015 Region/Country 2010 2011 South and Central America and the Caribbean 58,800.6 59,531.8 59,221.7 63,054.0 72,772.9 117,399.3 122,543.1 Africa 18,449.8 25,895.0 20,715.8 20,476.3 20,526.4 21,959.1 22,620.4 $\mathsf{ASEAN}^{\ 1}$ 83,927.1 91,617.4 97,232.7 106,056.5 106,738.5 119,300.9 122,545.3

54,634.3

71,159.8

83,579.8

54,949.6

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43,718.6

European Union (EU 28)²

¹ ASEAN includes Brunei Darussalam, Cambodia, Indonesia, Lao People's Democratic Republic, Malaysia, Myanmar, Philippines, Thailand and Viet Nam.

² The European Union (EU 28) comprises Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Rep, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovak Rep, Slovenia, Spain, Sweden and the United Kingdom.

7.5 INVESTMENT COMMITMENTS IN MANUFACTURING ¹ AND SERVICES BY INDUSTRY

(Fixed Asset Investments) Million Dollars

| | | | ivestments) Million Dolla | | | | |
|-----------------------------------------|----------|----------|---------------------------|----------|----------|----------|---------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 12,854.2 | 13,734.3 | 16,007.8 | 12,135.2 | 11,840.2 | 11,494.9 | 9,389.0 |
| Manufacturing | 10,033.6 | 11,274.3 | 14,299.4 | 7,956.8 | 6,762.4 | 8,299.7 | 5,876.3 |
| Food, Beverage & Tobacco | | | | 97.0 | 482.2 | | 173.8 |
| Petroleum & Chemical Products | 1,595.9 | 2,523.9 | 5,726.6 | 2,508.5 | 2,635.8 | 3,560.7 | 1,259.1 |
| Pharmaceutical & Biological Products | | | 196.7 | 593.9 | 721.6 | 471.7 | 177.8 |
| Rubber & Plastic Products | | | | | | | |
| Fabricated Metal Products | 224.0 | | | 91.6 | | | |
| Machinery & Equipment | 646.4 | 647.2 | 432.3 | 518.2 | 345.7 | 7.7 | 351.0 |
| Computers, Electronic | | | | | | | |
| & Optical Products | 5,725.2 | 7,424.9 | 6,313.5 | 3,293.9 | 1,746.2 | 3,266.1 | 2,322.3 |
| Transport Equipment | 1,127.5 | 307.6 | 310.4 | 591.8 | 703.5 | 484.9 | 1,090.2 |
| Other Manufacturing Industries | 714.6 | 370.7 | 1,319.9 | 261.9 | 127.4 | 508.6 | 502.1 |
| Services Industries | 2,820.6 | 2,460.0 | 1,708.4 | 4,178.4 | 5,077.8 | 3,195.2 | 3,512.7 |

Source: Economic Development Board

Notes: The industries are classified according to the Singapore Standard Industrial Classification 2015.

¹ Includes servicing, engineering and R&D.

7.6 INVESTMENT COMMITMENTS IN MANUFACTURING ¹ AND SERVICES BY COUNTRY OF ORIGIN

(Fixed Asset Investments) Million Dollars

| | | | | | (I INCU ASSEL II | ivestilients) ivi | illion Dollars |
|-----------------------|----------|----------|----------|----------|------------------|-------------------|----------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 12,854.2 | 13,734.3 | 16,007.8 | 12,135.2 | 11,840.2 | 11,494.9 | 9,389.0 |
| Local | 2,069.7 | 1,875.4 | 1,837.5 | 3,144.6 | 1,942.2 | 1,058.6 | 2,171.5 |
| Foreign | 10,784.5 | 11,858.9 | 14,170.3 | 8,990.6 | 9,898.0 | 10,436.3 | 7,217.5 |
| United States | 3,311.4 | 5,047.4 | 5,654.5 | 3,725.4 | 1,838.4 | 6,969.3 | 3,460.2 |
| Europe | 4,820.2 | 2,131.9 | 3,134.3 | 3,281.2 | 3,117.8 | 1,510.1 | 1,248.9 |
| Japan | 1,175.7 | 995.0 | 967.8 | 670.4 | 317.2 | 422.9 | 680.6 |
| Asia Pacific & Others | 1,477.2 | 3,684.6 | 4,413.7 | 1,313.6 | 4,624.6 | 1,534.0 | 1,827.8 |
| | | | | | | | |

Source : Economic Development Board

¹ Includes servicing, engineering and R&D.



Research and Development

Research and Development



Data on research and development (R&D) in Singapore are collected through the National Survey of R&D, conducted annually by the Agency for Science, Technology and Research (A*STAR). The scope of the survey covers R&D activities in the private, higher education, government and public research institutes sectors.

To facilitate international comparability, data from the survey are collected and presented based on guidelines provided in the Organisation for Economic Co-operation and Development (OECD) Proposed Standard Practice for Surveys on Research and Experimental Development, "Frascati Manual" (Sixth Edition).



R&D Manpower



Researchers: Refer to professionals who are engaged in the conception or creation of new knowledge, products, processes, methods and systems, or management of the projects concerned. Managers and administrators engaged in the planning and management of the scientific and technical aspects of a researcher's work also fall into this category. Researchers are further sub-classified into:

- a) Research scientists and engineers (RSEs)
- b) Full-time postgraduate research students (FPGRS)
- c) Non-degree researchers

Technicians: Refer to persons whose main tasks require more technical knowledge and experience in one or more fields of science and technology. They participate in R&D by performing scientific and technical tasks that involve the application of concepts and operational methods, normally under the supervision of researchers.

Other supporting staff: Includes skilled and unskilled craftsmen, secretarial and clerical staff participating in R&D projects or directly associated with such projects.



R&D Expenditure



R&D expenditure includes capital expenditure (acquisition of fixed tangible assets involved in R&D activities, excluding depreciation provisions), R&D manpower costs, and other R&D-related operating expenditures. Data for R&D expenditure in each year are expressed in nominal terms and are not adjusted for inflation.

R&D Expenditure, 2015

\$9.535.4 m





Data on patents resulting from R&D activities carried out in Singapore that are published in the National Survey of R&D are as reported by survey respondents. Only one patent is awarded to an invention, irrespective of the number of countries to which the patent is being applied or awarded.

R&D Output, 2015



8,575
Patents

Owned



2,090
Patents
Applied



988
Patents
Awarded

8.1 ORGANISATIONS PERFORMING R&D BY SECTOR

| | | | | | | | Number |
|----------------------------|------|------|------|------|------|------|--------|
| Sector | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| Total | 912 | 859 | 864 | 758 | 873 | 950 | 880 |
| Private | 854 | 799 | 804 | 699 | 812 | 882 | 808 |
| Higher Education | 11 | 11 | 11 | 12 | 13 | 12 | 13 |
| Government | 27 | 29 | 29 | 28 | 29 | 31 | 34 |
| Public Research Institutes | 20 | 20 | 20 | 19 | 19 | 25 | 25 |

 $Source: Agency \ for \ Science, \ Technology \ and \ Research$

 $Download\ time\ series\ at\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=1743$

8.2 R&D MANPOWER BY OCCUPATION AND SEX

| | | | | | | | Numbe |
|--------------------|--------|--------|--------|--------|--------|--------|--------|
| Occupation | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| Total | 41,388 | 43,164 | 44,855 | 45,001 | 47,275 | 47,902 | 50,531 |
| Male | 27,862 | 28,796 | 29,942 | 29,977 | 31,608 | 31,875 | 33,496 |
| Female | 13,526 | 14,368 | 14,913 | 15,024 | 15,667 | 16,027 | 17,035 |
| Researchers | | | | | | | |
| RSE ¹ | 26,608 | 28,296 | 29,482 | 30,109 | 31,943 | 32,835 | 34,988 |
| Male | 19,546 | 20,531 | 21,345 | 21,647 | 22,865 | 23,319 | 24,716 |
| Female | 7,062 | 7,765 | 8,137 | 8,462 | 9,078 | 9,516 | 10,272 |
| FPGRS ² | 5,295 | 5,760 | 5,990 | 5,924 | 6,012 | 5,800 | 5,862 |
| Male | 3,362 | 3,618 | 3,752 | 3,710 | 3,852 | 3,703 | 3,803 |
| Female | 1,933 | 2,142 | 2,238 | 2,214 | 2,160 | 2,097 | 2,059 |
| Non-Degree | 2,484 | 2,505 | 2,541 | 2,399 | 2,430 | 2,095 | 2,328 |
| Male | 1,681 | 1,700 | 1,813 | 1,709 | 1,712 | 1,456 | 1,589 |
| Female | 803 | 805 | 728 | 690 | 718 | 639 | 739 |
| Technicians | 3,563 | 3,101 | 3,089 | 3,022 | 3,115 | 3,083 | 2,969 |
| Male | 2,136 | 1,867 | 1,872 | 1,807 | 1,900 | 1,921 | 1,810 |
| Female | 1,427 | 1,234 | 1,217 | 1,215 | 1,215 | 1,162 | 1,159 |
| Supporting Staff | 3,438 | 3,502 | 3,753 | 3,547 | 3,775 | 4,089 | 4,384 |
| Male | 1,137 | 1,080 | 1,160 | 1,104 | 1,279 | 1,476 | 1,578 |
| Female | 2,301 | 2,422 | 2,593 | 2,443 | 2,496 | 2,613 | 2,806 |

Source: Agency for Science, Technology and Research

- 1 Refers to Research scientists and engineers. Data exclude postgraduate students.
- ${\bf 2}\quad {\bf Refers\ to\ Full-time\ postgraduate\ research\ students}.$

8.3 R&D EXPENDITURE BY AREA OF RESEARCH, 2015

Million Dollars Public Higher Area of Research **Private** Government **Education** Research **Total** Sector Sector Sector Institutes Total 9,535.4 5,824.6 1,573.6 1,027.9 1,109.3 Agricultural & Food Sciences 266.8 231.0 15.6 20.2 0.0 Engineering & Technology 5,835.5 4,313.8 532.5 586.2 444.6 Biomedical & Related Sciences 606.7 482.4 471.8 1,865.5 262.9 Natural Sciences (excl Biological Sciences) 557.5 285.1 80.3 1,001.2 78.4 29.2 120.4 Energy 149.6 0.0 0.0 Others 416.8 86.4 137.6 80.2 112.6

Source: Agency for Science, Technology and Research

 $Download\ time\ series\ at\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=1740$

8.4 R&D EXPENDITURE BY TYPE OF COSTS, 2015

| Type of Costs | Total | Private Sector | Higher Education Sector | Government Sector | Million Dollars Public Research Institutes |
|------------------------------------|---------|-------------------|-------------------------------|----------------------|--------------------------------------------|
| Total | 9,535.4 | 5,824.6 | 1,573.6 | 1,027.9 | 1,109.3 |
| Capital Costs | 1,282.3 | 836.3 | 182.7 | 74.8 | 188.6 |
| Land, Buildings & Other Structures | 155.2 | 116.9 | 4.2 | 27.7 | 6.4 |
| Vehicles, Plants, Machinery & | 1,127.1 | 719.4 | 178.5 | 47.1 | 182.1 |
| Equipment | | | | | |
| Manpower Costs | 4,186.4 | 2,294.2 | 923.8 | 461.7 | 506.7 |
| Researchers | 3,679.6 | 2,034.8 | 845.2 | 363.5 | 436.0 |
| RSE ¹ | 3,360.6 | 1,896.9 | 680.8 | 358.0 | 424.8 |
| FPGRS ² | 161.1 | 0.0 | 161.1 | 0.0 | 0.0 |
| Non-Degree | 157.9 | 137.9 | 3.4 | 5.5 | 11.2 |
| Technicians | 185.4 | 99.8 | 13.5 | 33.5 | 38.5 |
| Others | 321.4 | 159.5 | 65.0 | 64.7 | 32.2 |
| Other Operating Costs | 4,066.7 | 2,694.1 | 467.1 | 491.3 | 414.1 |

Source: Agency for Science, Technology and Research

- ${\bf 1} \ \ {\bf Refers} \ {\bf to} \ {\bf Research} \ {\bf scientists} \ {\bf and} \ {\bf engineers}.$
- 2 Refers to Full-time postgraduate research students.

8.5 R&D EXPENDITURE BY SECTOR

Million Dollars 2009 2010 2012 2013 2014 2015 Sector 6,042.8 6,489.0 7,448.5 7,244.7 7,565.8 8,526.5 9,535.4 Total 3,724.5 3,947.6 4,628.2 4,415.2 4,496.1 5,215.7 5,824.6 Private **Higher Education** 854.3 968.1 1,086.4 1,192.7 1,311.3 1,349.3 1,573.6 683.1 758.3 725.0 1,027.9 Government 672.3 857.6 972.1 **Public Research Institutes** 780.9 901.0 975.6 911.9 900.9 989.4 1,109.3

Source: Agency for Science, Technology and Research

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=1745

8.6 R&D EXPENDITURE BY MAJOR INDUSTRY IN THE PRIVATE SECTOR

Million Dollars 2009 2010 2011 2012 2013 2014 2015 Total 3,724.5 3,947.6 4,628.2 4,415.2 4,496.1 5,215.7 5,824.6 Manufacturing 2,316.3 2,406.7 2,198.5 2,658.7 2,588.7 2,797.8 3,143.0 1,406.1 2,396.0 2,669.7 Services 1,525.7 2,415.0 1,745.7 1,892.8 14.7 Others 15.2 10.9 14.6 21.8 11.9 2.1

Source: Agency for Science, Technology and Research

8.7 R&D OUTPUT

| | | | | | | | Number |
|----------------------------|-------|-------|-------|-------|-------|-------|--------|
| | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| 1 | | | | | | | |
| Patents Owned ¹ | 6,067 | 5,450 | 4,763 | 5,129 | 5,275 | 6,579 | 8,575 |
| Public Sector | 1,519 | 998 | 1,208 | 1,251 | 1,295 | 1,356 | 1,463 |
| Private Sector | 4,548 | 4,452 | 3,555 | 3,878 | 3,980 | 5,223 | 7,112 |
| Patents Applied | 1,569 | 1,762 | 1,913 | 1,722 | 2,144 | 1,965 | 2,090 |
| Public Sector | 445 | 499 | 608 | 698 | 821 | 834 | 857 |
| Private Sector | 1,124 | 1,263 | 1,305 | 1,024 | 1,323 | 1,131 | 1,233 |
| Patents Awarded | 747 | 653 | 855 | 820 | 934 | 911 | 988 |
| Public Sector | 176 | 131 | 176 | 155 | 217 | 204 | 254 |
| Private Sector | 571 | 522 | 679 | 665 | 717 | 707 | 734 |

Source : Agency for Science, Technology and Research

1 As at end of period.

The Corporate Sector

The Corporate Sector



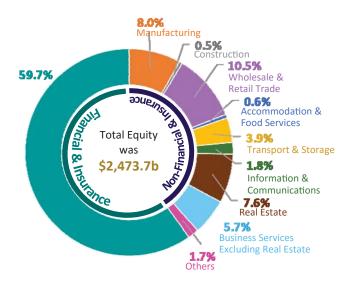
Data on the corporate sector cover companies incorporated registered in Singapore, including branches of foreign companies. **Partnerships** and Sole-proprietorships are not included because of the difficulty in obtaining financial statements for such business enterprises. Data are extracted from financial accounts which companies file with Accounting and Corporate Regulatory Authority (ACRA) or other government agencies.

Definitions



Total Equity: Refers to the shareholders' interest in the enterprise after deducting all its liabilities from its assets. Total equity comprises mainly share capital, retained earnings and other reserves. For Singapore branches of foreign-incorporated enterprises, head office accounts (i.e. the net amount owed by Singapore branches to the foreign head offices) are used as proxies for their equity.

Total Equity by Industry, (End of Period), 2015



Equity Ratio: Refers to the ratio of total equity to total assets. The ratio measures the dependence of companies on external funding, i.e. funding which is not from its shareholders or its overseas headquarters (for the local branch of a foreign enterprise). The lower the ratio, the higher is the company's dependence on external funding.

Current Ratio: Refers to the ratio of current assets to current liabilities. This ratio measures the liquidity of companies, i.e. their ability to meet current debt payments when due. A ratio of 1 indicates that the company has exactly balanced its current liabilities with current assets. The lower the ratio is below 1, the higher is the risk of the company running into a liquidity problem. A ratio above 1 indicates excess liquidity in the company.

Rate of Return on Total Assets (ROA): Refers to the ratio of pre-tax profit before deducting interest payments in the year to the average of total assets at the beginning and at the end of the year. This ratio measures the efficiency of companies in using their available resources.

Rate of Return on Total Equity (ROE): Refers to the ratio of pre-tax net profit in the year to the average of total equity at the beginning and at the end of the year. This ratio measures companies' profitability, i.e. the rate of return that companies have earned on the capital provided by shareholders, after accounting for payments to all other capital providers.

Other References



The report "<u>Singapore's Corporate Sector</u>", published by the Singapore Department of Statistics, contains analysis of the data and detailed tables showing the aggregated balance sheets and profit and loss accounts.

9.1 TOTAL EQUITY BY INDUSTRY (End of Period)

Billion Dollars Industry 2009 2012 2014 2015 2010 2011 2013 1,541.0 Total 1,299.6 1,366.4 1,340.4 1,845.1 2,224.7 2,473.7 Financial & Insurance 777.8 744.6 729.7 884.3 1,114.0 1,360.7 1,477.8 Non-Financial & Insurance 555.0 588.6 610.7 656.7 731.1 864.0 995.9 Manufacturing 148.2 198.8 142.8 158.4 146.5 168.1 165.6 Construction 9.9 8.6 8.9 9.3 10.7 12.2 11.5 Wholesale & Retail Trade 114.0 129.9 134.6 158.4 167.2 224.6 260.0 Accommodation & Food Services 8.2 8.2 10.1 10.6 12.5 14.1 8.2 Transport & Storage 74.9 75.6 69.6 75.5 87.3 88.3 95.4 Information & Communications 23.8 24.8 27.2 32.9 39.7 45.2 19.5 107.6 135.4 177.8 189.0 Real Estate 116.4 124.2 146.0 **Business Services Excluding Real Estate** 48.2 50.8 57.7 63.9 73.6 103.3 140.6 Others 25.5 26.0 29.6 30.3 34.6 40.0 41.4

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9.2 TOTAL ASSETS BY INDUSTRY
(End of Period)

| | | | _ | | _ | В | illion Dollars |
|-----------------------------------------|---------|---------|---------|---------|---------|---------|----------------|
| Industry | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| Total | 4,269.2 | 4,644.2 | 4,888.2 | 5,305.6 | 5,993.6 | 6,723.4 | 7,213.6 |
| Financial & Insurance | 2,925.3 | 3,173.2 | 3,331.3 | 3,635.6 | 4,135.6 | 4,656.6 | 4,969.1 |
| Non-Financial & Insurance | 1,343.9 | 1,471.0 | 1,556.9 | 1,670.0 | 1,858.0 | 2,066.8 | 2,244.5 |
| Manufacturing | 277.4 | 292.4 | 299.7 | 286.3 | 305.9 | 306.6 | 339.8 |
| Construction | 33.7 | 32.6 | 33.0 | 34.1 | 36.1 | 34.6 | 36.4 |
| Wholesale & Retail Trade | 366.0 | 434.4 | 472.2 | 548.1 | 632.5 | 668.7 | 706.2 |
| Accommodation & Food Services | 15.5 | 17.3 | 18.7 | 20.2 | 21.5 | 25.4 | 28.8 |
| Transport & Storage | 163.4 | 169.4 | 172.6 | 182.8 | 201.9 | 242.1 | 263.3 |
| Information & Communications | 56.2 | 65.3 | 62.1 | 68.8 | 74.4 | 86.2 | 97.6 |
| Real Estate | 254.3 | 264.9 | 275.0 | 293.0 | 314.1 | 385.3 | 408.1 |
| Business Services Excluding Real Estate | 109.0 | 118.0 | 136.7 | 137.1 | 168.2 | 213.7 | 256.3 |
| Others | 68.4 | 76.7 | 86.9 | 99.6 | 103.3 | 104.2 | 108.1 |

9.3 RETURNS ON EQUITY BY INDUSTRY (End of Period)

| | | | | | | | Per Cent |
|------------------------------------------------|------|------|------|------|------|------|----------|
| Industry | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| Total | 12.1 | 14.3 | 13.3 | 14.5 | 11.8 | 11.6 | 9.3 |
| Financial & Insurance | 8.1 | 9.5 | 9.3 | 11.0 | 9.0 | 9.1 | 6.3 |
| Non-Financial & Insurance | 17.8 | 20.5 | 18.4 | 18.9 | 15.9 | 15.4 | 13.9 |
| Manufacturing | 24.8 | 23.1 | 20.6 | 25.0 | 19.8 | 24.6 | 20.1 |
| Construction | 36.9 | 36.5 | 35.3 | 25.3 | 16.0 | 12.2 | 10.4 |
| Wholesale & Retail Trade | 21.7 | 24.4 | 23.2 | 22.7 | 20.5 | 17.4 | 16.4 |
| Accommodation & Food Services | 13.4 | 12.5 | 16.9 | 11.6 | 11.0 | 16.3 | 14.0 |
| Transport & Storage | 8.4 | 5.0 | 4.4 | 5.0 | 5.8 | 6.8 | 11.3 |
| Information & Communications | 15.9 | 42.7 | 32.9 | 47.6 | 17.4 | 18.1 | 12.7 |
| Real Estate | 7.2 | 20.0 | 17.6 | 15.2 | 15.1 | 12.3 | 9.5 |
| Business Services Excluding Real Estate | 16.3 | 17.2 | 12.2 | 9.7 | 9.8 | 7.3 | 8.7 |
| Others | 33.2 | 18.1 | 18.5 | 15.4 | 14.9 | 15.4 | 14.9 |

 $Download\ time\ series\ at\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=13754$

9.4 RETURNS ON ASSETS BY INDUSTRY (End of Period)

| | | | | | | | Per Ce |
|-----------------------------------------|------|------|------|------|------|------|--------|
| Industry | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| otal | 4.4 | 4.8 | 4.3 | 4.6 | 4.0 | 4.2 | 3.7 |
| Financial & Insurance | 2.8 | 3.0 | 2.7 | 3.1 | 2.8 | 3.0 | 2.3 |
| Non-Financial & Insurance | 7.9 | 8.8 | 7.8 | 7.9 | 6.8 | 6.8 | 6.6 |
| Manufacturing | 12.9 | 12.1 | 11.0 | 13.3 | 10.8 | 13.7 | 11.6 |
| Construction | 10.4 | 10.6 | 9.8 | 7.2 | 4.9 | 4.3 | 3.9 |
| Wholesale & Retail Trade | 7.3 | 7.8 | 7.2 | 7.0 | 6.2 | 5.9 | 6.4 |
| Accommodation & Food Services | 7.2 | 6.8 | 8.3 | 6.0 | 5.9 | 8.6 | 7.4 |
| Transport & Storage | 4.6 | 2.9 | 2.4 | 2.6 | 3.2 | 3.4 | 4.8 |
| Information & Communications | 7.4 | 17.5 | 12.1 | 17.7 | 7.9 | 8.7 | 6.5 |
| Real Estate | 3.7 | 9.3 | 8.5 | 7.6 | 7.7 | 6.3 | 5.0 |
| Business Services Excluding Real Estate | 7.8 | 8.0 | 5.6 | 4.7 | 4.9 | 3.9 | 5.0 |
| Others | 14.1 | 7.4 | 7.0 | 6.0 | 5.5 | 6.4 | 6.8 |

9.5 EQUITY RATIOS OF COMPANIES BY INDUSTRY (End of Period)

| Industry | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|-----------------------------------------|------|------|------|------|------|------|------|
| Total | 0.30 | 0.29 | 0.27 | 0.29 | 0.31 | 0.33 | 0.34 |
| Financial & Insurance | 0.25 | 0.25 | 0.22 | 0.24 | 0.27 | 0.29 | 0.30 |
| Non-Financial & Insurance | 0.41 | 0.40 | 0.39 | 0.39 | 0.39 | 0.42 | 0.44 |
| Manufacturing | 0.51 | 0.51 | 0.53 | 0.51 | 0.55 | 0.54 | 0.59 |
| Construction | 0.29 | 0.26 | 0.27 | 0.27 | 0.30 | 0.35 | 0.32 |
| Wholesale & Retail Trade | 0.31 | 0.30 | 0.29 | 0.29 | 0.26 | 0.34 | 0.37 |
| Accommodation & Food Services | 0.53 | 0.47 | 0.44 | 0.50 | 0.49 | 0.49 | 0.49 |
| Transport & Storage | 0.46 | 0.45 | 0.40 | 0.41 | 0.43 | 0.36 | 0.36 |
| Information & Communications | 0.42 | 0.38 | 0.31 | 0.40 | 0.44 | 0.46 | 0.46 |
| Real Estate | 0.42 | 0.44 | 0.45 | 0.46 | 0.46 | 0.46 | 0.46 |
| Business Services Excluding Real Estate | 0.44 | 0.43 | 0.42 | 0.47 | 0.44 | 0.48 | 0.55 |
| Others | 0.37 | 0.34 | 0.34 | 0.30 | 0.33 | 0.38 | 0.38 |

 $Download\ time\ series\ at\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=2056$

9.6 CURRENT RATIOS OF COMPANIES BY INDUSTRY
(End of Period)

| Industry | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|-----------------------------------------|------|------|------|------|------|------|------|
| Total | 1.06 | 1.09 | 1.04 | 1.06 | 1.06 | 1.14 | 1.11 |
| Financial & Insurance | 0.98 | 1.01 | 0.97 | 0.98 | 0.99 | 1.09 | 1.06 |
| Non-Financial & Insurance | 1.29 | 1.31 | 1.27 | 1.29 | 1.28 | 1.29 | 1.30 |
| Manufacturing | 1.70 | 1.75 | 1.68 | 1.66 | 1.85 | 1.69 | 1.88 |
| Construction | 1.22 | 1.15 | 1.15 | 1.18 | 1.21 | 1.33 | 1.26 |
| Wholesale & Retail Trade | 1.27 | 1.26 | 1.23 | 1.25 | 1.22 | 1.27 | 1.27 |
| Accommodation & Food Services | 1.15 | 0.94 | 0.65 | 0.86 | 0.95 | 1.00 | 1.06 |
| Transport & Storage | 1.05 | 1.08 | 0.99 | 1.05 | 1.07 | 0.88 | 0.81 |
| Information & Communications | 1.12 | 1.03 | 1.02 | 0.96 | 1.06 | 1.07 | 1.14 |
| Real Estate | 1.07 | 1.21 | 1.36 | 1.69 | 1.51 | 1.63 | 1.40 |
| Business Services Excluding Real Estate | 1.21 | 1.26 | 1.20 | 1.17 | 1.14 | 1.20 | 1.30 |
| Others | 1.29 | 1.33 | 1.16 | 0.88 | 0.98 | 1.10 | 1.17 |



Formation and Cessation of Business Entities

Formation and Cessation of Business Entities



Coverage and Sources of Data (i)



Data on business entities are primarily sourced from the registration records of the Accounting and Corporate Regulatory Authority (ACRA).

Business entities refer to companies, sole proprietorships & partnerships, limited liability partnerships, limited partnerships and public accounting firms.

Definitions



Formation: Refers to business entities incorporated or registered with ACRA.

Cessation: Refers to business entities which have ceased operation. Cessation statuses include ceased, struck off, amalgamated, cancelled and dissolved.



10.1 FORMATION OF ALL BUSINESS ENTITIES BY TYPE

Number Total 53,721 55,776 56,748 60,203 77,379 64,906 64,936 Companies 27,642 29,987 34,976 34,243 31,741 38,484 35,228 Sole-proprietorships & Partnerships 23,837 23,409 22,727 22,835 35,675 28,480 27,120 **Limited Liability Partnerships** 2,156 2,321 2,312 3,104 2,100 2,431 2,211 **Limited Partnerships** 64 38 52 58 98 66 142 **Public Accounting Firms** 21 22 17 22 18 17 15

Source: Accounting and Corporate Regulatory Authority (ACRA)

 $Download\ time\ series\ at\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=13416$

10.2 CESSATION OF ALL BUSINESS ENTITIES BY TYPE

| | | | | | | | Number |
|--------------------------------|--------|--------|--------|--------|--------|--------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 39,977 | 43,214 | 42,429 | 41,778 | 42,578 | 52,150 | 61,138 |
| Companies | 15,002 | 19,257 | 18,951 | 18,135 | 19,303 | 21,472 | 23,221 |
| Sole-proprietorships | | | | | | | |
| & Partnerships | 24,183 | 22,946 | 22,414 | 22,578 | 22,066 | 29,366 | 36,214 |
| Limited Liability Partnerships | 779 | 957 | 1,014 | 1,011 | 1,150 | 1,240 | 1,612 |
| Limited Partnerships | 7 | 30 | 33 | 34 | 41 | 53 | 66 |
| Public Accounting Firms | 6 | 24 | 17 | 20 | 18 | 19 | 25 |

Source: Accounting and Corporate Regulatory Authority (ACRA)

Notes: The statistics on business entities cessation have been adjusted to provide a more accurate reflection of the underlying cessation trends. In 2016, ACRA conducted periodic reviews and removed from its public register, sole proprietorships & partnerships that failed to renew their registrations, and companies that were dormant.

These periodic removal of business entities took place at ad hoc intervals and impacted published statistics on business entities cessation. The number of business entities cessation have therefore been adjusted to reflect the removal of such business entities at the date when they would have normally been removed. Going forward, such review and removal exercises will be conducted on a regular basis to provide a more accurate reflection of cessation trends.

10.3 FORMATION OF ALL BUSINESS ENTITIES BY INDUSTRY

| | | | | | | | Number |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 53,721 | 55,776 | 56,748 | 60,203 | 77,379 | 64,906 | 64,936 |
| Manufacturing | 2,433 | 2,383 | 2,214 | 2,389 | 2,666 | 2,247 | 2,079 |
| Construction | 3,456 | 3,387 | 3,305 | 3,438 | 3,603 | 3,268 | 3,031 |
| Wholesale Trade | 9,960 | 10,234 | 10,191 | 10,472 | 12,868 | 9,696 | 9,388 |
| Retail Trade | 5,267 | 5,658 | 6,047 | 6,573 | 12,037 | 6,530 | 5,828 |
| Transportation & Storage | 2,109 | 2,268 | 2,280 | 2,486 | 3,381 | 8,673 | 11,472 |
| Accommodation | 103 | 115 | 130 | 120 | 91 | 91 | 83 |
| Food & Beverage Service Activities | 2,959 | 2,878 | 2,905 | 2,879 | 3,367 | 3,034 | 2,968 |
| Information & Communications | 3,500 | 3,837 | 4,097 | 4,968 | 7,095 | 5,342 | 5,209 |
| Financial & Insurance Activities | 4,808 | 5,224 | 5,331 | 5,309 | 4,923 | 4,749 | 4,526 |
| Real Estate Activities | 1,037 | 1,050 | 1,019 | 934 | 665 | 633 | 599 |
| Professional, Scientific & | | | | | | | |
| Technical Activities | 8,267 | 8,669 | 9,007 | 9,902 | 12,442 | 9,862 | 9,347 |
| Administrative & Support | | | | | | | |
| Service Activities | 3,029 | 3,229 | 3,154 | 3,274 | 4,399 | 3,243 | 3,146 |
| Education, Health & Social Services | 3,015 | 3,102 | 3,318 | 3,716 | 4,564 | 3,678 | 3,325 |
| Arts, Entertainment, Recreation | | | | | | | |
| & Other Service Activities | 3,453 | 3,325 | 3,377 | 3,406 | 4,870 | 3,500 | 3,480 |
| Others | 325 | 417 | 373 | 337 | 408 | 360 | 455 |

Source: Accounting and Corporate Regulatory Authority (ACRA)

Notes: The industries are classified according to the Singapore Standard Industrial Classification 2015.

Business entities include companies, sole-proprietorships, partnerships, limited liability partnerships, limited partnerships and public accounting firms.

10.4 CESSATION OF ALL BUSINESS ENTITIES BY INDUSTRY

| | | | | | | | Number |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| otal | 39,977 | 43,214 | 42,429 | 41,778 | 42,578 | 52,150 | 61,138 |
| Manufacturing | 2,111 | 2,097 | 1,990 | 1,871 | 1,805 | 2,098 | 2,351 |
| Construction | 2,381 | 2,584 | 2,465 | 2,462 | 2,425 | 2,589 | 2,693 |
| Wholesale Trade | 8,650 | 9,480 | 8,943 | 8,559 | 8,460 | 9,863 | 10,821 |
| Retail Trade | 4,457 | 4,624 | 4,803 | 4,918 | 5,198 | 7,920 | 8,680 |
| Transportation & Storage | 1,758 | 1,850 | 1,771 | 1,848 | 1,785 | 2,345 | 5,569 |
| Accommodation | 73 | 89 | 60 | 83 | 78 | 48 | 84 |
| Food & Beverage Service Activities | 2,235 | 2,638 | 2,473 | 2,359 | 2,296 | 2,515 | 2,792 |
| Information & Communications | 2,372 | 2,662 | 2,722 | 2,621 | 2,993 | 3,859 | 4,663 |
| Financial & Insurance Activities | 2,215 | 2,510 | 2,681 | 2,692 | 2,837 | 3,037 | 3,323 |
| Real Estate Activities | 890 | 1,024 | 806 | 711 | 789 | 765 | 768 |
| Professional, Scientific & | | | | | | | |
| Technical Activities | 5,346 | 5,765 | 5,839 | 5,778 | 6,063 | 7,670 | 8,878 |
| Administrative & Support | | | | | | | |
| Service Activities | 2,403 | 2,624 | 2,526 | 2,514 | 2,466 | 2,991 | 3,208 |
| Education, Health & Social Services | 1,699 | 1,866 | 1,951 | 2,098 | 2,176 | 2,615 | 3,124 |
| Arts, Entertainment, Recreation | | | | | | | |
| & Other Service Activities | 3,169 | 3,175 | 3,180 | 3,028 | 2,964 | 3,554 | 3,868 |
| Others | 218 | 226 | 219 | 236 | 243 | 281 | 316 |

Source: Accounting and Corporate Regulatory Authority (ACRA)

Notes: The industries are classified according to the Singapore Standard Industrial Classification 2015.

Business entities include companies, sole-proprietorships, partnerships, limited liability partnerships, limited partnerships and public accounting firms.

The statistics on business entities cessation have been adjusted to provide a more accurate reflection of the underlying cessation trends. In 2016, ACRA conducted periodic reviews and removed from its public register, sole proprietorships & partnerships that failed to renew their registrations, and companies that were dormant.

These periodic removal of business entities took place at ad hoc intervals and impacted published statistics on business entities cessation. The number of business entities cessation have therefore been adjusted to reflect the removal of such business entities at the date when they would have normally been removed. Going forward, such review and removal exercises will be conducted on a regular basis to provide a more accurate reflection of cessation trends.

10.5 FORMATION OF COMPANIES BY INDUSTRY

| | | | | | | | Numbe |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| otal | 27,642 | 29,987 | 31,741 | 34,976 | 38,484 | 34,243 | 35,228 |
| Manufacturing | 1,288 | 1,323 | 1,297 | 1,432 | 1,449 | 1,373 | 1,277 |
| Construction | 1,732 | 1,792 | 1,879 | 2,069 | 2,205 | 2,074 | 1,977 |
| Wholesale Trade | 5,949 | 6,414 | 6,632 | 7,000 | 7,640 | 6,614 | 6,778 |
| Retail Trade | 1,207 | 1,375 | 1,651 | 1,918 | 2,662 | 2,057 | 2,185 |
| Transportation & Storage | 1,118 | 1,147 | 1,187 | 1,400 | 1,433 | 1,316 | 1,276 |
| Accommodation | 54 | 65 | 81 | 81 | 57 | 61 | 57 |
| Food & Beverage Service Activities | 1,299 | 1,362 | 1,491 | 1,523 | 1,660 | 1,605 | 1,760 |
| Information & Communications | 1,943 | 2,250 | 2,529 | 3,153 | 4,086 | 3,608 | 3,901 |
| Financial & Insurance Activities | 4,234 | 4,671 | 4,883 | 4,869 | 4,484 | 4,418 | 4,265 |
| Real Estate Activities | 780 | 828 | 808 | 741 | 497 | 470 | 503 |
| Professional, Scientific & | | | | | | | |
| Technical Activities | 4,266 | 4,673 | 5,067 | 6,025 | 6,686 | 5,759 | 6,070 |
| Administrative & Support | | | | | | | |
| Service Activities | 1,350 | 1,539 | 1,559 | 1,758 | 1,906 | 1,665 | 1,773 |
| Education, Health & Social Services | 1,328 | 1,374 | 1,514 | 1,719 | 2,062 | 1,812 | 1,764 |
| Arts, Entertainment, Recreation | | | | | | | |
| & Other Service Activities | 866 | 864 | 901 | 1,053 | 1,396 | 1,181 | 1,327 |
| Others | 228 | 310 | 262 | 235 | 261 | 230 | 315 |

Source: Accounting and Corporate Regulatory Authority (ACRA)

Notes: The industries are classified according to the Singapore Standard Industrial Classification 2015.

10.6 CESSATION OF COMPANIES BY INDUSTRY

| | | | | | | | Numbe |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| otal | 15,002 | 19,257 | 18,951 | 18,135 | 19,303 | 21,472 | 23,221 |
| Manufacturing | 842 | 1,019 | 919 | 838 | 841 | 908 | 953 |
| Construction | 746 | 1,094 | 940 | 942 | 954 | 964 | 1,028 |
| Wholesale Trade | 4,189 | 5,403 | 5,016 | 4,665 | 4,808 | 5,253 | 5,592 |
| Retail Trade | 702 | 901 | 931 | 924 | 1,010 | 1,217 | 1,465 |
| Transportation & Storage | 705 | 836 | 821 | 776 | 768 | 810 | 897 |
| Accommodation | 31 | 50 | 32 | 48 | 39 | 22 | 40 |
| Food & Beverage Service Activities | 622 | 936 | 909 | 893 | 942 | 1,017 | 1,019 |
| Information & Communications | 1,000 | 1,358 | 1,454 | 1,279 | 1,473 | 1,860 | 2,188 |
| Financial & Insurance Activities | 1,881 | 2,118 | 2,263 | 2,324 | 2,500 | 2,663 | 2,904 |
| Real Estate Activities | 533 | 540 | 491 | 470 | 543 | 516 | 526 |
| Professional, Scientific & | | | | | | | |
| Technical Activities | 1,872 | 2,564 | 2,606 | 2,544 | 2,742 | 3,345 | 3,672 |
| Administrative & Support | | | | | | | |
| Service Activities | 755 | 1,007 | 1,028 | 930 | 1,011 | 1,116 | 1,121 |
| Education, Health & Social Services | 415 | 539 | 622 | 663 | 723 | 828 | 891 |
| Arts, Entertainment, Recreation | | | | | | | |
| & Other Service Activities | 619 | 757 | 800 | 697 | 803 | 774 | 742 |
| Others | 90 | 135 | 119 | 142 | 146 | 179 | 183 |

Source: Accounting and Corporate Regulatory Authority (ACRA)

Notes: The industries are classified according to the Singapore Standard Industrial Classification 2015.

The statistics on business entities cessation have been adjusted to provide a more accurate reflection of the underlying cessation trends. In 2016, ACRA conducted periodic reviews and removed from its public register, sole proprietorships & partnerships that failed to renew their registrations, and companies that were dormant.

These periodic removal of business entities took place at ad hoc intervals and impacted published statistics on business entities cessation. The number of business entities cessation have therefore been adjusted to reflect the removal of such business entities at the date when they would have normally been removed. Going forward, such review and removal exercises will be conducted on a regular basis to provide a more accurate reflection of cessation trends.

10.7 FORMATION OF SOLE-PROPRIETORSHIPS & PARTNERSHIPS BY INDUSTRY

| | | | | | | | Number |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 23,837 | 23,409 | 22,727 | 22,835 | 35,675 | 28,480 | 27,120 |
| Manufacturing | 1,090 | 997 | 856 | 896 | 1,133 | 814 | 731 |
| Construction | 1,665 | 1,520 | 1,358 | 1,306 | 1,344 | 1,136 | 987 |
| Wholesale Trade | 3,697 | 3,512 | 3,258 | 3,150 | 4,866 | 2,846 | 2,291 |
| Retail Trade | 3,784 | 3,926 | 4,029 | 4,296 | 8,774 | 4,158 | 3,258 |
| Transportation & Storage | 960 | 1,077 | 1,045 | 1,032 | 1,853 | 7,279 | 10,102 |
| Accommodation | 43 | 43 | 44 | 32 | 31 | 24 | 20 |
| Food & Beverage Service Activities | 1,530 | 1,369 | 1,285 | 1,221 | 1,551 | 1,307 | 1,026 |
| Information & Communications | 1,325 | 1,325 | 1,338 | 1,560 | 2,696 | 1,519 | 1,065 |
| Financial & Insurance Activities | 459 | 441 | 353 | 304 | 332 | 258 | 169 |
| Real Estate Activities | 216 | 192 | 156 | 146 | 131 | 110 | 73 |
| Professional, Scientific & | | | | | | | |
| Technical Activities | 3,527 | 3,555 | 3,528 | 3,455 | 5,181 | 3,674 | 2,805 |
| Administrative & Support | | | | | | | |
| Service Activities | 1,519 | 1,540 | 1,442 | 1,362 | 2,215 | 1,425 | 1,196 |
| Education, Health & Social Services | 1,494 | 1,517 | 1,610 | 1,768 | 2,174 | 1,649 | 1,308 |
| Arts, Entertainment, Recreation | | | | | | | |
| & Other Service Activities | 2,443 | 2,302 | 2,323 | 2,212 | 3,256 | 2,159 | 1,967 |
| Others | 85 | 93 | 102 | 95 | 138 | 122 | 122 |

Source: Accounting and Corporate Regulatory Authority (ACRA)

Notes: The industries are classified according to the Singapore Standard Industrial Classification 2015.

10.8 CESSATION OF SOLE-PROPRIETORSHIPS & PARTNERSHIPS BY INDUSTRY

| | | | | | | | Numbe |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| otal | 24,183 | 22,946 | 22,414 | 22,578 | 22,066 | 29,366 | 36,214 |
| Manufacturing | 1,242 | 1,052 | 1,042 | 1,009 | 940 | 1,152 | 1,351 |
| Construction | 1,618 | 1,462 | 1,499 | 1,475 | 1,451 | 1,595 | 1,614 |
| Wholesale Trade | 4,324 | 3,910 | 3,752 | 3,736 | 3,491 | 4,436 | 5,006 |
| Retail Trade | 3,663 | 3,591 | 3,706 | 3,839 | 4,014 | 6,486 | 6,933 |
| Transportation & Storage | 1,034 | 989 | 930 | 1,053 | 998 | 1,502 | 4,625 |
| Accommodation | 37 | 31 | 28 | 30 | 35 | 25 | 39 |
| Food & Beverage Service Activities | 1,559 | 1,631 | 1,476 | 1,389 | 1,271 | 1,416 | 1,698 |
| Information & Communications | 1,293 | 1,219 | 1,166 | 1,220 | 1,375 | 1,867 | 2,282 |
| Financial & Insurance Activities | 299 | 363 | 378 | 338 | 281 | 319 | 358 |
| Real Estate Activities | 348 | 471 | 307 | 228 | 227 | 231 | 222 |
| Professional, Scientific & | | | | | | | |
| Technical Activities | 3,330 | 3,014 | 3,062 | 3,054 | 3,114 | 4,083 | 4,893 |
| Administrative & Support | | | | | | | |
| Service Activities | 1,595 | 1,547 | 1,413 | 1,517 | 1,363 | 1,780 | 1,941 |
| Education, Health & Social Services | 1,218 | 1,239 | 1,253 | 1,344 | 1,338 | 1,692 | 2,106 |
| Arts, Entertainment, Recreation | | | | | | | |
| & Other Service Activities | 2,500 | 2,342 | 2,311 | 2,255 | 2,076 | 2,684 | 3,017 |
| Others | 123 | 85 | 91 | 91 | 92 | 98 | 129 |

Source: Accounting and Corporate Regulatory Authority (ACRA)

Notes: The industries are classified according to the Singapore Standard Industrial Classification 2015.

The statistics on business entities cessation have been adjusted to provide a more accurate reflection of the underlying cessation trends. In 2016, ACRA conducted periodic reviews and removed from its public register, sole proprietorships & partnerships that failed to renew their registrations, and companies that were dormant.

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Agriculture, Animal Production and Fisheries

Agriculture, Animal Production and Fisheries



General



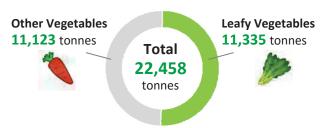
The agricultural sector of Singapore is engaged mainly in the production of eggs, fish and vegetables for local consumption, as well as orchids and ornamental fish for export. About one per cent of Singapore's land area is used for agricultural purposes.

Horticulture M



The main crops cultivated in Singapore are vegetables and orchids. The vegetable and food crop production in local farms are mainly leafy vegetables and bean sprouts. With more than 90% of the leafy vegetables derived from soil cultivation, intensive and modern farming methods are adopted to maximise vegetable production and to ensure production of high quality leafy vegetables.

Local Vegetable Production, 2016



A number of farms and nurseries grow orchids, ornamental and foliage plants (which include potted plants, foliages, ornamental plants, aquatic plants and tissue-cultured plantlets) for export and domestic sale. Singapore is a major exporter of quality cut orchids.

> Local Orchid Production, 2016

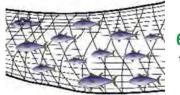


Fisheries



Local fish production comprises mainly aguaculture produces from fish farms with small quantities from local capture fisheries. Singapore also imports, exports and tranships fish caught by foreign vessels.

Local Fish Production, 2016



6.086 tonnes

The Jurong Fishery Port (JFP) is a major seafood landing and distribution point in Singapore. JFP handled about 44,900 tonnes of seafood in 2016, the bulk of which comprised fresh seafood landed by foreign vessels as well as those imported by air and road. The Senoko Fishery Port (SFP) began its operations in September 1997. A home base for local fishing vessels, the port handled locally-produced and imported seafood totaling about 6,300 tonnes of seafood in 2016. There are 140 seafood establishments licensed processing manufacture fishery products in Singapore. Four processing establishments and one cold store are approved to export seafood products to the EU countries.

There are 117 floating fish farms covering 102.5 hectares of coastal waters, culturing various fish species like milk fish, mullet, snappers, trevally, groupers, tilapia, pompano, threadfin and seabass for the live fish market and supermarkets.

11.1 LOCAL PRODUCTION

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|----------------|--------|--------|--------|--------|--------|--------|--------|
| Seafood ¹ | Tonnes | 5,232 | 5,599 | 5,547 | 6,775 | 6,379 | 7,695 | 6,822 |
| Fish | Tonnes | 4,919 | 5,094 | 5,127 | 5,864 | 5,639 | 6,536 | 6,086 |
| Other Seafood (crustaceans | _ | | | | | | | |
| and molluscus) | Tonnes | 312 | 505 | 420 | 911 | 740 | 1,159 | 736 |
| Local Landings of Seafood | Tonnes | 1,733 | 1,618 | 1,970 | 1,644 | 1,434 | 1,264 | 1,235 |
| Vegetables | Tonnes | 19,491 | 20,355 | 21,405 | 21,785 | 22,720 | 23,039 | 22,458 |
| Leafy Vegetables | Tonnes | 9,347 | 9,436 | 10,227 | 10,308 | 10,848 | 11,420 | 11,335 |
| Other Vegetables | Tonnes | 10,144 | 10,919 | 11,178 | 11,476 | 11,872 | 11,619 | 11,123 |
| Hen Eggs | Million Pieces | 340 | 384 | 402 | 438 | 433 | 421 | 452 |
| Aquarium Fish | Million Pieces | 112 | 110 | 106 | 114 | 109 | 77 | 77 |
| Orchids | Million Stalks | 10 | 11 | 10 | 9 | 10 | 8 | 6 |
| Ornamental Plants ² | Million Plants | 40 | 41 | 38 | 41 | 48 | na | na |

Source: Agri-Food & Veterinary Authority

 $Download\ time\ series\ at\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=1749$

11.2 LIVESTOCK SLAUGHTERED

Thousand

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|----------|--------|--------|--------|--------|--------|--------|--------|
| Poultry | 50,976 | 52,156 | 51,995 | 53,048 | 52,216 | 53,610 | 54,309 |
| Chickens | 44,659 | 46,196 | 46,099 | 47,036 | 46,132 | 48,008 | 48,820 |
| Ducks | 6,317 | 5,960 | 5,896 | 6,012 | 6,084 | 5,601 | 5,489 |
| Pigs | 289 | 312 | 324 | 330 | 336 | 333 | 333 |
| | | | | | | | |

Source : Agri-Food & Veterinary Authority

¹ Includes local landings, coastal and land-based farm production.

² Includes potted plants, foliages, ornamental plants, aquatic plants and tissue-cultured plantlets.

11.3 SEAFOOD SUPPLY AND WHOLESALE

| т | n | n | n | P |
|---|---|---|---|---|

| | | | | | | | Tonne |
|--------------------------------|---------|---------|---------|---------|---------|---------|---------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Seafood Supply | | | | | | | |
| Local Production ¹ | 5,232 | 5,599 | 5,547 | 6,775 | 6,379 | 7,695 | 6,822 |
| Imports ² | 134,546 | 132,937 | 128,147 | 126,567 | 123,107 | 124,369 | 120,184 |
| Exports ² | 40,215 | 32,311 | 29,649 | 26,334 | 17,237 | 23,064 | 19,729 |
| Seafood Wholesale ³ | 58,888 | 62,635 | 61,405 | 59,094 | 54,000 | 49,431 | 47,092 |
| | | | | | | | |

Source: Seafood Supply (Local Production) and Seafood Wholesale - Agri-Food & Veterinary Authority Seafood Supply (Imports and Exports) - International Enterprise Singapore

Notes: Seafood refers to fish, crustaceans and molluscs.

Data on imports and exports of seafood are based on Standard International Trade Classification Revision 4.1.

- 1 Includes seafood from local landings, coastal and land-based farm production.
- 2 Excludes dried, salted and fish in brine.
- 3 Includes fresh, frozen seafood and 'Low-value fish'.



Manufacturing

12 Manufacturing



Census of Manufacturing Activities



census of manufacturing establishments is conducted annually by the Research and Statistics Unit of the Economic Development Board (EDB). The results provide comprehensive data for the study of the structure and trends of the manufacturing sector.

The activities covered in the census include manufacturing and industrial servicing. They are classified according to the Singapore Standard Industrial Classification 2015.

The census is conducted by mail inquiry and via the internet, using two standard questionnaires. The reference period is the calendar year, except for those establishments whose financial years do not coincide with the calendar year.

Definitions



Establishment: Refers to a manufacturing unit engaged in one manufacturing activity and generally operating at one location.

Workers: Refers to all persons engaged in the industrial activity of the establishment, that is, all employees, the self-employed and their relatives. Data generally refer to employment as at 30 June, except where establishments commence operation after June.

Remuneration: Refers to the amount expended for the whole year. For employees, total remuneration comprises salaries (including bonuses), contributions to the Central Provident Fund and pensions paid by employers, and other benefits provided. For working proprietors, it refers to the amount withdrawn for their personal use. For unpaid family workers, it refers to allowances.

Manufacturing Output: Refers to the total value of all commodities produced (including by-products) and industrial services rendered during the year.

Total Output: Refers to the total value and services derived from a ancillary production process and activities such as management or marketing. As such, it includes manufacturing output and other operating income.



Total Output for the Manufacturing Sector in 2016 was

S\$270.5 billion

Materials Used: Covers raw or basic materials, chemicals and packing materials consumed in the production. They refer to the actual consumption during the year.

Value Added: Refers to total output less materials, utilities, fuel, transportation charges, work given out and other operating costs.



Value Added for the Manufacturing Sector in 2016 amounted to

S\$69.3 billion

Net Operating Surplus: Refers to value-added less remuneration, depreciation of fixed assets and indirect taxes.

Sales and Direct Exports: Refers to local sales or exports to other countries of goods manufactured. Resale of goods not manufactured by the establishments is excluded.

Gross Value of Fixed Assets: Refers to the accumulated cost of acquiring the fixed assets.

Net Value of Fixed Assets: Refers to the gross value net of accumulated depreciation.

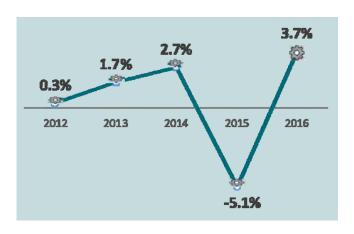
Index of Industrial Production



The index of industrial production covers all manufacturing activities classified under Section C of the Singapore Standard Industrial Classification 2015. The indices published are at the 2-digit industry division and total manufacturing levels.

The base year for the index of industrial production is 2015. The value-added weighting pattern is based on data from the 2014 Census of Manufacturing Activities. The weighting pattern reflects the relative importance of the industry divisions and changing structure within the manufacturing sector. The Laspeyres' formula is used for the compilation of the index.

Annual Growth in Index of Industrial Production



Indices of Business and Labour Costs



The Unit Business Cost Index (UBCI) is compiled by the Singapore Department of Statistics. It measures the relative business cost of producing one unit of real manufacturing output with respect to the base year. The main

components of business cost are labour cost, services cost, as well as non-labour production taxes. The UBCI is compiled based on the benchmark on business cost from the Census of Manufacturing Activities (CMA) and extrapolated using data from the Monthly Survey of Manufacturing Activities (MMA).

Unit Labour Cost (ULC) is defined as the average cost of labour per unit of real output. Total labour cost consists of Compensation of Employees received by the employees, labour income of the self-employed, other labour-related costs (for example, Foreign Worker Levy and net training costs) incurred by the employers and wage subsidies (for example, Wage Credit Scheme and Jobs Credit Scheme) that are provided to the employers. Wage subsidies reduce labour costs to employers, and are netted off from total labour cost.

Other References



More detailed statistics on the manufacturing sector are available from the "<u>Census of Manufacturing Activities</u>", published annually by the Research and Statistics Unit of EDB.

The concept and methodology underlying the compilation of the ULC index can be found in the information paper on "Quarterly Unit Labour Cost Index by Industry".

The information paper on "Methodological Review on the Unit Business Cost Index for the Manufacturing Industry (Base Year 2010 = 100)" provides details on the concept, methodology and data sources underlying the compilation of the UBCI.

12.1 PRINCIPAL MANUFACTURING STATISTICS

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-----------------------|------|---------|---------|---------|---------|---------|---------|---------|
| Establishments | No. | 9,090 | 9,008 | 9,577 | 9,303 | 9,106 | 8,778 | na |
| Workers | No. | 414,176 | 418,324 | 424,622 | 424,505 | 416,406 | 403,286 | 381,945 |
| Materials | \$m | 151,927 | 169,379 | 168,685 | 163,561 | 167,343 | 145,057 | 128,614 |
| Remuneration | \$m | 17,987 | 18,965 | 19,694 | 20,722 | 21,806 | 21,678 | 21,040 |
| Other Operating Cost | \$m | 62,251 | 65,163 | 70,676 | 76,021 | 75,551 | 70,632 | na |
| Manufacturing Output | \$m | 261,364 | 281,703 | 288,279 | 285,431 | 291,424 | 271,120 | 256,370 |
| Total Output | \$m | 274,403 | 295,529 | 301,551 | 299,624 | 306,642 | 284,691 | 270,455 |
| Value Added | \$m | 60,225 | 60,986 | 62,189 | 60,042 | 63,748 | 69,001 | 69,329 |
| Net Operating Surplus | \$m | 34,979 | 34,758 | 34,475 | 31,486 | 33,800 | 38,213 | na |
| Direct Exports | \$m | 179,108 | 190,093 | 192,261 | 189,935 | 189,639 | 183,295 | na |
| Net Fixed Assets | \$m | 51,760 | 57,773 | 58,930 | 64,107 | 67,987 | 66,538 | na |
| Gross Fixed Assets | \$m | 128,971 | 132,025 | 140,440 | 150,830 | 164,168 | 172,563 | na |

Source: Economic Development Board

Notes: Data include all manufacturing establishments. Year 2016 data are preliminary estimates.

12.2 SELECTED AVERAGES AND RATIOS IN THE MANUFACTURING SECTOR

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|----------------------|--------|-------|-------|-------|-------|-------|-------|-------|
| Remuneration | | | | | | | | |
| Per Worker | \$'000 | 43.4 | 45.3 | 46.4 | 48.8 | 52.4 | 53.8 | 55.1 |
| Manufacturing Output | | | | | | | | |
| Per Worker | \$'000 | 631.0 | 673.4 | 678.9 | 672.4 | 699.9 | 672.3 | 671.2 |
| Value Added | | | | | | | | |
| Per Worker | \$'000 | 145.4 | 145.8 | 146.5 | 141.4 | 153.1 | 171.1 | 181.5 |
| Net Fixed Assets | | | | | | | | |
| Per Worker | \$'000 | 125.0 | 138.1 | 138.8 | 151.0 | 163.3 | 165.0 | na |
| Remuneration to | | | | | | | | |
| Total Output | % | 6.6 | 6.4 | 6.5 | 6.9 | 7.1 | 7.6 | 7.8 |
| Remuneration to | | | | | | | | |
| Value Added | % | 29.9 | 31.1 | 31.7 | 34.5 | 34.2 | 31.4 | 30.3 |
| Value Added to | | | | | | | | |
| Total Output | % | 21.9 | 20.6 | 20.6 | 20.0 | 20.8 | 24.2 | 25.6 |
| Direct Exports to | | | | | | | | |
| Manufacturing Output | % | 68.5 | 67.5 | 66.7 | 66.5 | 65.1 | 67.6 | na |
| Direct Exports to | | | | | | | | |
| Total Sales | % | 68.3 | 67.1 | 67.0 | 66.4 | 65.0 | 67.4 | na |

Source: Economic Development Board

Notes : Data include all manufacturing establishments. Year 2016 data are preliminary estimates.

12.3 MANUFACTURING ESTABLISHMENTS BY INDUSTRY

| | | | | | | | | Number |
|----------|--------------------------------|-------|-------|-------|-------|-------|-------|--------|
| Code | Industry | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| 10/11/12 | Food, Beverages & Tobacco | 851 | 838 | 819 | 864 | 848 | 865 | 847 |
| 13 | Textiles | 105 | 94 | 93 | 99 | 99 | 90 | 89 |
| 14 | Wearing Apparel | 502 | 461 | 446 | 446 | 412 | 384 | 362 |
| 15 | Leather Products | 31 | 25 | 25 | 27 | 23 | 20 | 18 |
| 16 | Wood & Wood Products | 121 | 116 | 111 | 145 | 147 | 143 | 135 |
| 17 | Paper & Paper Products | 112 | 109 | 100 | 105 | 101 | 99 | 91 |
| 18 | Printing & Reproduction of | | | | | | | |
| | Recorded Media | 860 | 836 | 815 | 952 | 927 | 911 | 882 |
| 19 | Refined Petroleum Products | 14 | 14 | 14 | 14 | 14 | 16 | 17 |
| 20 | Chemicals & Chemical | | | | | | | |
| | Products | 279 | 272 | 278 | 298 | 284 | 273 | 264 |
| 21 | Pharmaceuticals & Biological | | | | | | | |
| | Products | 44 | 43 | 44 | 50 | 49 | 50 | 51 |
| 22 | Rubber & Plastic Products | 358 | 344 | 341 | 327 | 305 | 298 | 283 |
| 23 | Non-metallic Mineral Products | 145 | 143 | 146 | 145 | 141 | 134 | 131 |
| 24 | Basic Metals | 30 | 30 | 30 | 34 | 33 | 36 | 36 |
| 25 | Fabricated Metal Products | 1,267 | 1,271 | 1,273 | 1,357 | 1,323 | 1,291 | 1,252 |
| 26 | Computer, Electronic & | | | | | | | |
| | Optical Products | 307 | 296 | 290 | 326 | 327 | 317 | 313 |
| 27 | Electrical Equipment | 250 | 247 | 248 | 258 | 261 | 247 | 230 |
| 28 | Machinery & Equipment | 1,806 | 1,736 | 1,699 | 1,768 | 1,724 | 1,684 | 1,623 |
| 29 | Motor Vehicles, Trailers & | | | | | | | |
| | Semi-Trailers | 74 | 77 | 73 | 75 | 70 | 65 | 65 |
| 30 | Other Transport Equipment | 1,022 | 1,022 | 1,006 | 1,112 | 1,073 | 1,058 | 1,002 |
| 31 | Furniture | 615 | 620 | 653 | 655 | 638 | 624 | 608 |
| 32 | Other Manufacturing Industries | 503 | 496 | 504 | 520 | 504 | 501 | 479 |
| | Total Manufacturing | 9,296 | 9,090 | 9,008 | 9,577 | 9,303 | 9,106 | 8,778 |

Source : Economic Development Board

Notes: Data include all manufacturing establisments

The industries are classified according to the Singapore Standard Industrial Classification 2015.

12.4 MANUFACTURING OUTPUT IN MANUFACTURING BY INDUSTRY

Million Dollars

| | | | | | | | Million Dolla | |
|----------|--------------------------------|-----------|-----------|-----------|-----------|-----------|---------------|-----------|
| Code | Industry | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| 10/11/12 | Food, Beverages & Tobacco | 7,907.8 | 9,087.9 | 9,327.9 | 9,268.7 | 9,607.4 | 9,964.1 | 9,701.6 |
| 13 | Textiles | 52.5 | 62.9 | 56.9 | 59.0 | 47.8 | 49.4 | 47.1 |
| 14 | Wearing Apparel | 584.7 | 592.9 | 539.1 | 443.1 | 313.5 | 220.7 | 199.9 |
| 15 | Leather Products | 98.7 | 136.0 | 152.7 | 164.4 | 157.0 | 164.9 | 136.4 |
| 16 | Wood & Wood Products | 217.5 | 217.6 | 295.5 | 305.0 | 317.2 | 295.1 | 269.8 |
| | | | | | | | 255.1 | 203.0 |
| 17 | Paper & Paper Products | 1,095.8 | 1,052.7 | 1,013.4 | 1,060.3 | 1,074.5 | 1,053.4 | 1,036.1 |
| 18 | Printing & Reproduction of | | | | | | | |
| | Recorded Media | 2,583.3 | 2,569.7 | 2,395.2 | 2,276.4 | 2,295.8 | 2,154.3 | 1,847.0 |
| 19 | Refined Petroleum Products | 41,951.6 | 55,625.4 | 56,882.4 | 50,505.6 | 45,549.2 | 32,233.9 | 25,217.7 |
| 20 | Chemicals & Chemical | | | | | | | |
| | Products | 36,388.8 | 40,569.4 | 39,633.5 | 47,422.5 | 53,176.2 | 42,821.6 | 38,105.4 |
| 21 | Pharmaceuticals & Biological | | | | | | | |
| | Products | 17,369.6 | 20,729.1 | 23,288.1 | 16,066.1 | 15,821.1 | 15,984.2 | 17,461.6 |
| 22 | Rubber & Plastic Products | 2,154.7 | 1,991.8 | 1,901.1 | 1,847.2 | 1,825.9 | 1,699.7 | 1,592.3 |
| 23 | Non-metallic Mineral Products | 1,770.2 | 2,032.1 | 2,355.3 | 2,485.4 | 2,045.7 | 1,970.2 | 1,662.5 |
| 24 | Basic Metals | 1,141.3 | 1,310.0 | 1,230.8 | 1,025.6 | 1,372.3 | 1,138.4 | 981.1 |
| 25 | Fabricated Metal Products | 9,087.8 | 9,150.8 | 9,511.6 | 9,325.8 | 9,357.5 | 8,624.3 | 7,973.5 |
| 26 | Computer, Electronic & | | | | | | | |
| | Optical Products | 95,886.2 | 89,542.0 | 86,922.5 | 88,991.3 | 84,381.2 | 94,455.9 | 95,673.3 |
| 27 | Electrical Equipment | 2,295.0 | 2,313.0 | 2,438.3 | 2,436.0 | 2,600.9 | 2,573.3 | 2,631.3 |
| 28 | Machinery & Equipment | 20,518.3 | 23,562.4 | 26,446.3 | 26,847.7 | 30,920.6 | 27,243.7 | 22,331.6 |
| 29 | Motor Vehicles, Trailers & | | | | | | | |
| | Semi-Trailers | 705.5 | 753.9 | 786.8 | 996.1 | 1,053.6 | 1,158.7 | 1,206.0 |
| 30 | Other Transport Equipment | 14,287.2 | 14,515.6 | 16,206.7 | 16,548.1 | 16,484.2 | 15,534.0 | 15,743.7 |
| 31 | Furniture | 847.4 | 838.8 | 885.5 | 960.7 | 897.5 | 876.8 | 831.1 |
| 32 | Other Manufacturing Industries | 4,420.2 | 5,049.3 | 6,009.7 | 6,396.4 | 12,124.3 | 10,903.6 | 11,720.7 |
| | Total Manufacturing | 261,364.3 | 281,703.3 | 288,279.2 | 285,431.3 | 291,423.6 | 271,120.1 | 256,369.6 |

Source: Economic Development Board

Notes: Data include all manufacturing establishments.

The industries are classified according to the Singapore Standard Industrial Classification 2015.

Year 2016 data are preliminary estimates.

12.5 TOTAL OUTPUT IN MANUFACTURING BY INDUSTRY

Million Dollars

| | | | | | | | IVII | lion Dollars |
|----------|--------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|
| Code | Industry | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| 10/11/12 | Food, Beverages & Tobacco | 8,472.3 | 9,626.8 | 9,817.9 | 9,811.0 | 10,352.0 | 10,598.5 | 10,322.9 |
| 13 | Textiles | 54.1 | 65.9 | 59.4 | 61.6 | 50.4 | 53.5 | 51.3 |
| 14 | Wearing Apparel | 613.6 | 629.7 | 573.9 | 478.1 | 353.7 | 259.1 | 236.7 |
| 15 | Leather Products | 99.7 | 137.6 | 157.9 | 171.1 | 159.2 | 167.1 | 138.5 |
| 16 | Wood & Wood Products | 245.3 | 248.3 | 339.1 | 349.4 | 367.4 | 348.9 | 319.4 |
| 17 | Paper & Paper Products | 1,129.0 | 1,085.2 | 1,041.5 | 1,103.8 | 1,143.1 | 1,123.8 | 1,105.2 |
| 18 | Printing & Reproduction of | | | | | | | |
| | Recorded Media | 2,676.4 | 2,677.4 | 2,467.4 | 2,352.4 | 2,376.6 | 2,251.2 | 1,931.3 |
| 19 | Refined Petroleum Products | 42,325.9 | 55,968.7 | 57,229.4 | 51,027.0 | 46,359.5 | 32,482.8 | 25,478.0 |
| 20 | Chemicals & Chemical | | | | | | | |
| | Products | 38,230.6 | 42,723.8 | 41,121.1 | 50,019.7 | 55,340.4 | 44,916.5 | 40,104.2 |
| 21 | Pharmaceuticals & Biological | | | | | | | |
| | Products | 18,061.1 | 21,618.9 | 25,121.1 | 16,920.2 | 16,891.3 | 16,721.2 | 18,281.2 |
| 22 | Rubber & Plastic Products | 2,360.4 | 2,189.0 | 2,061.8 | 2,020.2 | 2,011.2 | 1,857.1 | 1,744.1 |
| 23 | Non-metallic Mineral Products | 1,880.5 | 2,138.7 | 2,500.9 | 2,630.6 | 2,168.2 | 2,121.4 | 1,764.8 |
| 24 | Basic Metals | 1,158.8 | 1,329.8 | 1,255.2 | 1,044.9 | 1,387.4 | 1,161.5 | 1,003.0 |
| 25 | Fabricated Metal Products | 9,332.4 | 9,468.1 | 9,822.9 | 9,639.6 | 9,653.7 | 8,920.4 | 8,219.6 |
| 26 | Computer, Electronic & | | | | | | | |
| | Optical Products | 101,827.6 | 95,066.6 | 91,861.8 | 93,938.2 | 89,463.6 | 98,625.4 | 99,253.2 |
| 27 | Electrical Equipment | 2,524.4 | 2,515.5 | 2,661.5 | 2,666.4 | 2,768.5 | 2,712.9 | 2,660.9 |
| 28 | Machinery & Equipment | 21,710.8 | 25,553.5 | 28,403.5 | 28,987.1 | 33,905.2 | 30,561.1 | 27,057.7 |
| 29 | Motor Vehicles, Trailers & | | | | | | | |
| | Semi-Trailers | 723.1 | 780.8 | 808.6 | 1,021.7 | 1,089.2 | 1,178.6 | 1,225.5 |
| 30 | Other Transport Equipment | 15,333.7 | 15,495.7 | 17,135.8 | 17,557.3 | 17,554.6 | 16,637.2 | 16,778.7 |
| 31 | Furniture | 1,116.1 | 1,092.2 | 1,010.6 | 1,300.5 | 968.9 | 917.4 | 868.9 |
| 32 | Other Manufacturing Industries | 4,527.5 | 5,117.0 | 6,099.4 | 6,522.9 | 12,277.8 | 11,075.6 | 11,910.0 |
| | Total Manufacturing | 274,403.3 | 295,529.0 | 301,550.7 | 299,623.8 | 306,641.8 | 284,691.2 | 270,455.3 |

Source: Economic Development Board

Notes: Data include all manufacturing establishments.

 $The industries are classified according to the Singapore Standard Industrial \ Classification \ 2015.$

Year 2016 data are preliminary estimates.

12.6 VALUE ADDED OF MANUFACTURING ESTABLISHMENTS BY INDUSTRY

Million Dollars

| | | | | | | | IV | Illion Dollars |
|----------|--------------------------------|----------|----------|----------|----------|----------|----------|----------------|
| Code | Industry | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| 10/11/12 | Food, Beverages & Tobacco | 2,326.3 | 2,657.4 | 2,946.0 | 2,877.5 | 3,413.6 | 3,763.0 | 3,744.0 |
| 13 | Textiles | 18.0 | 19.4 | 21.6 | 21.4 | 17.7 | 21.1 | 21.1 |
| 14 | Wearing Apparel | 114.2 | 126.7 | 124.7 | 109.8 | 93.3 | 91.8 | 88.6 |
| 15 | Leather Products | 32.0 | 46.6 | 57.0 | 70.3 | 64.1 | 62.5 | 61.4 |
| 16 | Wood & Wood Products | 81.0 | 84.5 | 120.9 | 123.5 | 132.8 | 130.2 | 128.1 |
| 17 | Paper & Paper Products | 268.3 | 239.4 | 219.2 | 242.0 | 251.7 | 238.6 | 228.0 |
| 18 | Printing & Reproduction of | | | | | | | |
| | Recorded Media | 1,339.6 | 1,346.2 | 1,236.2 | 1,196.2 | 1,207.0 | 1,133.2 | 1,048.7 |
| 19 | Refined Petroleum Products | 1,271.5 | 285.1 | 725.9 | 57.1 | 32.6 | 2,412.0 | 1,628.9 |
| 20 | Chemicals & Chemical | | | | | | | |
| | Products | 4,732.0 | 5,011.9 | 3,298.7 | 5,200.6 | 5,620.5 | 7,992.9 | 11,845.5 |
| 21 | Pharmaceuticals & Biological | | | | | | | |
| | Products | 8,460.4 | 11,694.4 | 14,235.5 | 9,031.9 | 9,506.2 | 10,417.2 | 11,774.7 |
| 22 | Rubber & Plastic Products | 803.3 | 721.3 | 688.7 | 701.4 | 720.4 | 708.3 | 676.2 |
| 23 | Non-metallic Mineral Products | 475.1 | 550.6 | 584.3 | 539.2 | 434.1 | 391.2 | 341.7 |
| 24 | Basic Metals | 164.6 | 179.4 | 214.9 | 157.7 | 126.9 | 163.3 | 149.5 |
| 25 | Fabricated Metal Products | 2,621.5 | 2,773.1 | 2,763.3 | 2,799.3 | 2,776.0 | 2,665.0 | 2,559.1 |
| 26 | Computer, Electronic & | | | | | | | |
| | Optical Products | 22,507.8 | 19,247.6 | 18,909.8 | 19,394.5 | 20,001.3 | 21,218.2 | 18,063.8 |
| 27 | Electrical Equipment | 633.3 | 612.1 | 756.1 | 826.5 | 806.5 | 813.8 | 830.9 |
| 28 | Machinery & Equipment | 6,098.3 | 7,057.5 | 6,688.9 | 7,296.5 | 8,623.1 | 7,226.8 | 6,036.2 |
| 29 | Motor Vehicles, Trailers & | | | | | | | |
| | Semi-Trailers | 187.0 | 231.7 | 206.9 | 347.3 | 356.0 | 351.6 | 361.4 |
| 30 | Other Transport Equipment | 5,914.9 | 5,823.0 | 5,929.1 | 6,268.8 | 6,386.3 | 5,892.3 | 5,924.8 |
| 31 | Furniture | 368.3 | 377.7 | 347.4 | 476.1 | 343.5 | 311.9 | 318.8 |
| 32 | Other Manufacturing Industries | 1,808.1 | 1,900.6 | 2,113.9 | 2,304.6 | 2,834.1 | 2,996.7 | 3,497.6 |
| | Total Manufacturing | 60,225.4 | 60,986.1 | 62,189.1 | 60,041.8 | 63,747.6 | 69,001.5 | 69,328.8 |
| | | | | | | | | |

Source: Economic Development Board

Notes: Data include all manufacturing establishments.

The industries are classified according to the Singapore Standard Industrial Classification 2015.

Year 2016 data are preliminary estimates.

12.7 WORKERS IN MANUFACTURING BY INDUSTRY

| | | | | | | | | Numbei |
|----------|--------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|
| Code | Industry | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| 10/11/12 | Food, Beverages & Tobacco | 26,781 | 27,868 | 28,950 | 29,350 | 30,105 | 30,550 | 30,529 |
| 13 | Textiles | 492 | 616 | 719 | 717 | 722 | 688 | 686 |
| 14 | Wearing Apparel | 2,959 | 3,616 | 3,188 | 2,950 | 2,203 | 2,106 | 2,090 |
| 15 | Leather Products | 555 | 573 | 663 | 673 | 625 | 605 | 567 |
| 16 | Wood & Wood Products | 1,987 | 2,003 | 2,523 | 2,718 | 2,769 | 2,516 | 2,488 |
| 17 | Paper & Paper Products | 4,001 | 3,860 | 3,670 | 3,587 | 3,638 | 3,556 | 3,503 |
| 18 | Printing & Reproduction of | | | | | | | |
| | Recorded Media | 17,232 | 16,618 | 15,821 | 15,440 | 15,740 | 15,388 | 14,175 |
| 19 20 | Refined Petroleum Products Chemicals & Chemical | 3,645 | 3,681 | 3,754 | 4,073 | 4,302 | 4,404 | 4,380 |
| 20 | Products | 16,320 | 17,511 | 17,510 | 18,607 | 18,536 | 18,217 | 17,709 |
| 21 | Pharmaceuticals & Biological | | | | | | | |
| | Products | 4,425 | 4,757 | 5,142 | 5,339 | 6,096 | 6,624 | 6,911 |
| 22 | Rubber & Plastic Products | 13,973 | 12,986 | 12,350 | 11,751 | 11,249 | 10,494 | 10,121 |
| 23 | Non-metallic Mineral Products | 6,159 | 6,653 | 6,870 | 6,835 | 5,247 | 4,768 | 4,633 |
| 24 | Basic Metals | 2,475 | 2,525 | 2,631 | 2,642 | 2,618 | 2,644 | 2,254 |
| 25 26 | Fabricated Metal Products Computer, Electronic & | 41,376 | 41,519 | 43,847 | 42,998 | 41,871 | 40,073 | 38,910 |
| 20 | Optical Products | 92,295 | 92,710 | 91,398 | 87,062 | 82,494 | 81,637 | 79,340 |
| 27 | Electrical Equipment | 7,709 | 7,634 | 7,771 | 8,008 | 7,935 | 7,982 | 8,130 |
| 28 | Machinery & Equipment | 63,823 | 65,634 | 69,160 | 73,457 | 73,059 | 69,736 | 64,850 |
| 29 | Motor Vehicles, Trailers & | | | | | | | |
| | Semi-Trailers | 2,714 | 2,791 | 2,799 | 2,786 | 2,876 | 2,848 | 2,920 |
| 30 | Other Transport Equipment | 83,822 | 81,562 | 82,281 | 80,055 | 78,803 | 73,330 | 62,199 |
| 31 | Furniture | 8,574 | 9,213 | 9,579 | 10,524 | 8,926 | 8,015 | 7,867 |
| 32 | Other Manufacturing Industries | 12,859 | 13,994 | 13,996 | 14,933 | 16,592 | 17,105 | 17,683 |
| | Total Manufacturing | 414,176 | 418,324 | 424,622 | 424,505 | 416,406 | 403,286 | 381,945 |

Source: Economic Development Board

Notes: Data include all manufacturing establishments.

 $The industries are classified according to the Singapore Standard Industrial \ Classification \ 2015.$

Year 2016 data are preliminary estimates.

12.8 REMUNERATION IN MANUFACTURING BY INDUSTRY

Million Dollars

| | | | | | | IV | | | | |
|----------|--------------------------------|----------|----------|----------|----------|----------|----------|----------|--|--|
| Code | Industry | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | |
| 10/11/12 | Food, Beverages & Tobacco | 890.7 | 956.1 | 993.1 | 1,066.2 | 1,146.0 | 1,208.1 | 1,201.2 | | |
| 13 | Textiles | 12.3 | 13.3 | 16.6 | 15.9 | 19.9 | 16.5 | 16.3 | | |
| 14 | Wearing Apparel | 67.5 | 80.0 | 72.0 | 69.4 | 58.1 | 64.4 | 63.5 | | |
| 15 | Leather Products | 16.7 | 21.4 | 25.4 | 29.7 | 27.8 | 28.1 | 28.0 | | |
| 16 | Wood & Wood Products | 49.6 | 52.2 | 75.9 | 79.7 | 81.5 | 80.6 | 78.7 | | |
| 17 | Paper & Paper Products | 156.8 | 156.2 | 155.6 | 159.0 | 167.1 | 167.0 | 175.1 | | |
| 18 | Printing & Reproduction of | | | | | | | | | |
| | Recorded Media | 782.2 | 765.4 | 713.8 | 677.6 | 747.4 | 735.2 | 693.6 | | |
| 19 | Refined Petroleum Products | 511.9 | 576.3 | 579.6 | 580.8 | 800.3 | 866.4 | 844.9 | | |
| 20 | Chemicals & Chemical | | | | | | | | | |
| | Products | 1,352.8 | 1,451.0 | 1,454.2 | 1,682.0 | 1,763.1 | 1,800.4 | 1,772.6 | | |
| 21 | Pharmaceuticals & Biological | | | | | | | | | |
| | Products | 410.0 | 453.2 | 492.0 | 528.7 | 621.4 | 692.8 | 707.8 | | |
| 22 | Rubber & Plastic Products | 491.3 | 462.0 | 438.8 | 446.1 | 441.6 | 426.7 | 431.7 | | |
| 23 | Non-metallic Mineral Products | 200.0 | 226.6 | 236.5 | 245.4 | 195.4 | 184.8 | 166.8 | | |
| 24 | Basic Metals | 102.3 | 106.1 | 111.4 | 109.9 | 120.3 | 113.1 | 98.5 | | |
| 25 | Fabricated Metal Products | 1,458.9 | 1,498.1 | 1,564.4 | 1,625.9 | 1,640.7 | 1,581.9 | 1,534.1 | | |
| 26 | Computer, Electronic & | | | | | | | | | |
| | Optical Products | 4,581.2 | 4,822.4 | 4,925.6 | 5,065.6 | 5,140.7 | 5,240.9 | 5,185.4 | | |
| 27 | Electrical Equipment | 355.1 | 355.8 | 379.0 | 400.9 | 414.3 | 408.7 | 417.2 | | |
| 28 | Machinery & Equipment | 2,840.8 | 3,105.9 | 3,341.5 | 3,628.0 | 3,986.5 | 3,842.0 | 3,486.4 | | |
| 29 | Motor Vehicles, Trailers & | | | | | | | | | |
| | Semi-Trailers | 132.1 | 138.4 | 138.4 | 138.5 | 143.0 | 140.3 | 147.3 | | |
| 30 | Other Transport Equipment | 2,863.1 | 2,952.8 | 3,159.9 | 3,236.7 | 3,266.4 | 3,058.1 | 2,898.8 | | |
| 31 | Furniture | 229.9 | 238.8 | 247.2 | 306.2 | 252.2 | 220.6 | 211.5 | | |
| 32 | Other Manufacturing Industries | 481.8 | 533.4 | 573.2 | 629.3 | 772.5 | 801.2 | 881.0 | | |
| | Total Manufacturing | 17,987.1 | 18,965.5 | 19,694.2 | 20,721.7 | 21,805.9 | 21,678.0 | 21,040.1 | | |

Source: Economic Development Board

Notes: Data include all manufacturing establishments.

 $The industries are classified according to the Singapore Standard Industrial \ Classification \ 2015.$

Year 2016 data are preliminary estimates.

12.9 INDEX OF INDUSTRIAL PRODUCTION (2015 =100)

| Code | Industry | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|----------|-------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| 10/11/12 | Food, Beverages & Tobacco | 91.3 | 94.7 | 97.9 | 97.9 | 99.4 | 100.0 | 103.7 |
| 13 | Textiles | 167.4 | 137.1 | 140.1 | 119.5 | 102.7 | 100.0 | 92.4 |
| 14 | Wearing Apparel | 529.2 | 429.3 | 395.4 | 334.1 | 212.6 | 100.0 | 83.4 |
| 15 | Leather Products | 90.9 | 111.1 | 109.5 | 122.0 | 106.5 | 100.0 | 88.8 |
| 16 | Wood & of Products of Wood & Cork | 99.7 | 95.9 | 93.3 | 103.0 | 107.2 | 100.0 | 95.0 |
| 17 | Paper & Paper Products | 107.3 | 101.1 | 98.5 | 104.4 | 104.5 | 100.0 | 97.3 |
| 18 | Printing & Reproduction of Recorded Media | 136.7 | 132.1 | 122.8 | 113.8 | 106.0 | 100.0 | 85.1 |
| 19 | Refined Petroleum Products | 103.0 | 107.7 | 107.1 | 100.7 | 92.2 | 100.0 | 104.2 |
| 20 | Chemicals & Chemical Products | 82.8 | 84.9 | 85.3 | 88.4 | 96.7 | 100.0 | 98.9 |
| 21 | Pharmaceuticals & Biological Products | 71.2 | 94.6 | 103.8 | 101.4 | 109.4 | 100.0 | 113.8 |
| 22 | Rubber & Plastic Products | 132.1 | 117.7 | 113.5 | 109.5 | 109.2 | 100.0 | 91.4 |
| 23 | Non-metallic Mineral Products | 102.1 | 110.4 | 108.8 | 107.4 | 90.8 | 100.0 | 89.8 |
| 24 | Basic Metals | 103.2 | 101.0 | 91.5 | 77.2 | 99.3 | 100.0 | 106.2 |
| 25 | Fabricated Metal Products | 105.8 | 102.1 | 107.3 | 107.5 | 107.8 | 100.0 | 93.8 |
| 26 | Computer, Electronic & Optical Products | 126.3 | 111.2 | 100.7 | 105.0 | 105.6 | 100.0 | 114.1 |
| 27 | Electrical Equipment | 100.1 | 80.6 | 80.1 | 87.4 | 97.9 | 100.0 | 101.5 |
| 28 | Machinery & Equipment | 74.8 | 95.3 | 107.3 | 109.1 | 118.2 | 100.0 | 80.8 |
| 29 | Motor Vehicles, Trailers & Semi-Trailers | 60.6 | 70.5 | 69.2 | 85.0 | 91.1 | 100.0 | 105.3 |
| 30 | Other Transport Equipment | 97.1 | 103.4 | 109.9 | 111.1 | 106.7 | 100.0 | 101.0 |
| 31 | Furniture | 140.3 | 123.5 | 131.0 | 127.9 | 113.5 | 100.0 | 94.9 |
| 32 | Other Manufacturing Industries | 62.7 | 68.2 | 73.0 | 79.5 | 84.8 | 100.0 | 110.4 |
| | Total Manufacturing | 93.4 | 100.6 | 101.0 | 102.7 | 105.4 | 100.0 | 103.7 |

Source: Economic Development Board

Notes: The industries are classified according to the Singapore Standard Industrial Classification 2015.

12.10 INDICES OF UNIT LABOUR COST BY INDUSTRY (2010 = 100)

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Init Labour Cost Index of | | | | | | | |
| Overall Economy | 100.0 | 101.6 | 104.6 | 105.9 | 109.5 | 113.4 | 116.1 |
| | | | | | | | |
| Goods Producing Industries | 100.0 | 99.7 | 104.3 | 110.4 | 114.7 | 121.1 | 119.2 |
| Manufacturing | 100.0 | 97.9 | 100.7 | 104.1 | 106.4 | 112.3 | 107.3 |
| Construction | 100.0 | 104.5 | 108.4 | 119.7 | 125.8 | 128.6 | 133.8 |
| Utilities | 100.0 | 102.2 | 109.0 | 119.1 | 127.4 | 130.8 | 138.6 |
| Other Goods Industries ¹ | 100.0 | 101.7 | 101.7 | 97.0 | 89.5 | 95.8 | 99.7 |
| Services Producing Industries | 100.0 | 101.8 | 104.2 | 103.5 | 107.0 | 109.9 | 114.1 |
| Wholesale & Retail Trade | 100.0 | 101.2 | 101.7 | 99.0 | 102.7 | 102.7 | 105.6 |
| Transportation & Storage | 100.0 | 102.9 | 106.2 | 107.7 | 111.8 | 115.3 | 118.6 |
| Accommodation & Food Services | 100.0 | 102.0 | 107.9 | 111.7 | 116.5 | 121.8 | 126.8 |
| Information & Communications | 100.0 | 102.1 | 105.0 | 102.3 | 105.6 | 112.7 | 116.7 |
| Finance & Insurance | 100.0 | 101.3 | 101.9 | 92.5 | 93.0 | 95.2 | 96.9 |
| Business Services | 100.0 | 99.6 | 103.8 | 106.2 | 111.0 | 113.5 | 121.6 |
| Other Services Industries | 100.0 | 104.5 | 107.5 | 114.2 | 117.5 | 123.8 | 127.2 |

Notes: The industries are classified according to Singapore Standard Industrial Classification 2015.

 $Download\ time\ series\ at\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=9525$

12.11 UNIT BUSINESS COST INDEX OF MANUFACTURING (2010 = 100)

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | |
| Unit Business Cost Index of Manufacturing | 100.0 | 102.6 | 107.9 | 114.6 | 112.2 | 112.6 | 103.0 |
| Unit Labour Cost | 100.0 | 97.9 | 100.7 | 104.1 | 106.4 | 112.3 | 107.3 |
| Unit Services Cost | 100.0 | 104.0 | 110.4 | 118.2 | 114.1 | 112.4 | 101.2 |
| Unit Non-Labour Production Taxes | 100.0 | 160.7 | 117.8 | 127.2 | 140.3 | 156.3 | 148.7 |
| | | | | | | | |

¹ Comprises agriculture, fishing and quarrying.

13

Construction and Real Estate

Building, Real Estate, Construction and Housing



Building, Real Estate and Construction



refers Building construction to the erection of new additions buildings and alterations to existing buildings, excludes the erection of temporary structures, illegal building works or minor works which do not require planning approval. Data on new buildings given planning and building plan approval, notices of commencement and Temporary Occupation **Permits** (TOPs)/ Certificates of Statutory Completion (CSC) are compiled from the administrative records of the Urban Redevelopment Authority (URA) and the Building and Construction Authority (BCA). Statistics on contracts awarded and progress payments certified are collected through surveys conducted by BCA.

Definitions



Provisional Permission: Refers to the conditional approval granted by the Minister for National Development or the Competent Authority to develop any land subject to conditions in accordance with the development rules in force.

Written Permission: Refers to the approval granted the Minister for Development or the Competent Authority to develop any land subject to conditions in accordance with the development rules in force.

Building Plan Approval: Refers to the approval granted by the Commissioner of Building Control in respect of building plans and specifications submitted in accordance with the prescribed building regulations in force.

Building Commencement: Construction of a building project is deemed to have commenced when a permit to commence building works in respect of that building is issued by the Commissioner of Building Control.

Building Commencement, 2016





Excludes hostels, HDB flats, tenement houses, parsonages and Executive Condominiums.

Building Completion: A building project is deemed completed when the Temporary Occupation Permit (TOP) or Certificate of Statutory Completion (CSC) in respect of that building is issued by the Commissioner of Building Control. Completed properties are referred to as the existing stock.

Gross Floor Area: Refers to the covered floor space (whether within or outside a building and whether or not enclosed) measured between party walls, including thickness of external walls and any open area used for commercial or industrial purposes.

Nett Floor Area: Refers to all covered floor space available on an exclusive basis to occupiers in a building excluding common areas viz: staircases, lifts, common passageways and corridors.

Contracts Awarded: Refers to the full contract awarded to the main contractor by the developer or owner even though part or all of the works may be further sub-contracted to other contractors.

Progress Payments Certified: Refers to the value of all construction works done and certified progress payment. Where construction works are carried out by the developer or owner himself and the architect

Building, Real Estate, Construction and Housing



does not certify progress payments, the expenses incurred on the construction work are taken to be the progress payments certified.

Other References



Details on construction and real estate statistics relating to industrial properties are published by the JTC Corporation (JTC) and can be found on the JTC Corporate <u>website</u> and the <u>Real Estate Information System</u> (REALIS).

Public Housing



The Housing and Development Board (HDB) was established on 1 February 1960 as the public housing authority of Singapore. HDB's mission is to provide affordable homes of quality and value, create vibrant and sustainable towns, and promote the building of active and cohesive communities. HDB also develops and maintains other facilities, namely, commercial and industrial properties, and car parks. To help build sustainable communities, HDB plans towns with a comprehensive range of facilities to meet residents' needs. These include recreational and community facilities such as neighbourhood parks and children's playgrounds in its housing estates.

In 2016, 26,025 flats were completed, bringing the total number of flats built since HDB's inception to 1,129,236.



Introduced in 1964, the Home Ownership for the People Scheme enables citizens to acquire homes through the purchase of HDB flats. In 2016, 21,851 flats were sold under this scheme.



In 2016, about 79 per cent of the resident population lived in Home Ownership flats.



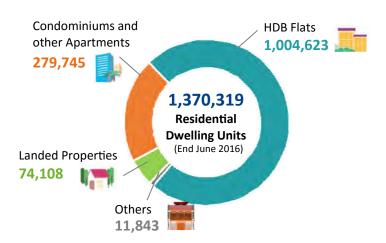
Between 1989 and 2016, HDB sold 244 land parcels (308 hectares) for private residential development and 45 land parcels (48.6 hectares) for commercial development. A total of 67 Executive Condominium sites (136 hectares) were sold during this period.

Residential Dwellings



The Singapore Standard Classification of Type of Dwelling defines a dwelling as a building or part of a building used or intended to be used by one or more persons as living quarters. Each dwelling type has its own separate entrance(s) with direct access to a public road or pathway. A dwelling may be a residential building by itself or a unit in a residential building, or part of a non-residential building such as a shop or factory with space used as living quarters.

Residential Dwellings by type, 2016



13.1 AVAILABLE AND VACANT PRIVATE RESIDENTIAL PROPERTIES (End of Period)

Number of Units

| Type of Property | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|------------------|---------|---------|---------|---------|---------|---------|---------|
| All Types | | | | | | | |
| Available | 258,243 | 268,768 | 277,620 | 289,370 | 308,814 | 327,448 | 348,080 |
| Vacant | 12,883 | 15,980 | 14,869 | 18,003 | 24,062 | 26,517 | 29,197 |
| Landed | | | | | | | |
| Available | 69,743 | 70,145 | 70,388 | 71,049 | 71,540 | 71,992 | 72,595 |
| Vacant | 2,294 | 2,394 | 2,285 | 2,439 | 2,406 | 2,553 | 3,008 |
| Non-landed | | | | | | | |
| Available | 188,500 | 198,623 | 207,232 | 218,321 | 237,274 | 255,456 | 275,485 |
| Vacant | 10,589 | 13,586 | 12,584 | 15,564 | 21,656 | 23,964 | 26,189 |
| | | | | | | | |

Source: Urban Redevelopment Authority

Notes: Data cover all completed private residential units, i.e. private residential units issued with a Temporary Occupation Permit

or a Certificate of Statutory Completion.

Data exclude hostels, Housing and Development Board flats, tenement houses, parsonages and Executive Condominiums.

Number of Units

13.2 SUPPLY OF PRIVATE RESIDENTIAL PROPERTIES IN THE PIPELINE BY DEVELOPMENT STATUS

(End of Period)

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-------------------------------|--------|--------|--------|--------|--------|--------|--------|
| | | • | • | • | • | • | • |
| Landed Properties | | | | | | | |
| Total | 3,963 | 3,807 | 3,860 | 3,477 | 2,909 | 2,292 | 1,352 |
| Under Construction | 1,752 | 1,949 | 2,316 | 1,922 | 1,832 | 1,480 | 1,075 |
| Planned | | | | | | | |
| Written Permission | 1,680 | 1,310 | 1,105 | 1,044 | 992 | 728 | 178 |
| Provisional Permission | 322 | 479 | 278 | 332 | 77 | 57 | 38 |
| Others ¹ | 209 | 69 | 161 | 179 | 8 | 27 | 61 |
| Non-Landed Properties | | | | | | | |
| Total | 75,514 | 85,724 | 92,370 | 86,541 | 72,279 | 57,867 | 47,016 |
| Under Construction | 39,575 | 47,602 | 58,226 | 65,843 | 57,464 | 47,000 | 33,439 |
| Planned | | | | | | | |

15,097

10,652

12,373

13,755

10,795

9,594

9,070

5,491

6,137

6,047

2,548

6,220

2,930

3,443

4,494

3,546

2,637

7,394

Source: Urban Redevelopment Authority

Written Permission

Others ¹

Provisional Permission

Notes: Data exclude hostels, HDB flats, tenement houses, parsonages and Executive Condominiums.

14,998

7,372

13,569

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=5472

13.3 APPROVAL, CONSTRUCTION COMMENCEMENT AND COMPLETION OF PRIVATE RESIDENTIAL PROPERTIES

Number of Units

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|------------------------|--------|--------|--------|--------|--------|--------|--------|
| Provisional Permission | 14,939 | 25,201 | 23,642 | 13,897 | 5,668 | 6,262 | 6,532 |
| Written Permission | 14,502 | 20,551 | 18,441 | 18,034 | 8,454 | 5,438 | 7,452 |
| Building Plan Approval | 16,892 | 21,100 | 19,702 | 19,593 | 9,275 | 7,073 | 7,132 |
| Building Commencement | 17,864 | 20,736 | 21,395 | 20,357 | 11,571 | 8,082 | 6,918 |
| Building Completion | 10,399 | 12,469 | 10,329 | 13,150 | 19,941 | 18,971 | 20,803 |

Source: Urban Redevelopment Authority

 $Notes: \ \ \, Data\ exclude\ hostels,\ HDB\ flats,\ tenement\ houses,\ parsonages\ and\ Executive\ Condominiums.$

¹ Refers to planned land sales by the government and developments submitted for approval.

AVAILABLE AND VACANT EXECUTIVE CONDOMINIUMS AND SUPPLY OF EXECUTIVE CONDOMINIUMS IN THE PIPELINE BY DEVELOPMENT STATUS (End of Period)

Number of Units

| 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------|----------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | | | | |
| 10,430 | 10,430 | 10,430 | 11,683 | 15,040 | 18,336 | 23,821 |
| 52 | 83 | 42 | 1,107 | 1,734 | 1,540 | 3,364 |
| | | | | | | |
| 6,005 | 10,073 | 15,966 | 18,985 | 17,948 | 15,794 | 10,270 |
| 1,659 | 4,262 | 8,036 | 11,775 | 13,065 | 14,127 | 9,635 |
| | | | | | | |
| 540 | 1,796 | 1,747 | 0 | 0 | 0 | C |
| 336 | 0 | 418 | 2,265 | 1,155 | 0 | C |
| 3,470 | 4,015 | 5,765 | 4,945 | 3,728 | 1,667 | 635 |
| | 10,430 52 6,005 1,659 540 336 | 10,430 10,430 52 83 6,005 10,073 1,659 4,262 540 1,796 336 0 | 10,430 10,430 10,430 52 83 42 6,005 10,073 15,966 1,659 4,262 8,036 540 1,796 1,747 336 0 418 | 10,430 10,430 10,430 11,683 52 83 42 1,107 6,005 10,073 15,966 18,985 1,659 4,262 8,036 11,775 540 1,796 1,747 0 336 0 418 2,265 | 10,430 10,430 10,430 11,683 15,040 52 83 42 1,107 1,734 6,005 10,073 15,966 18,985 17,948 1,659 4,262 8,036 11,775 13,065 540 1,796 1,747 0 0 336 0 418 2,265 1,155 | 10,430 10,430 10,430 11,683 15,040 18,336 52 83 42 1,107 1,734 1,540 6,005 10,073 15,966 18,985 17,948 15,794 1,659 4,262 8,036 11,775 13,065 14,127 540 1,796 1,747 0 0 0 0 336 0 418 2,265 1,155 0 |

Source: Urban Redevelopment Authority

¹ Refers to planned land sales by the government and development submitted for approval.

AVAILABLE AND VACANT COMMERCIAL AND INDUSTRIAL PROPERTIES (End of Period)

Thousand sq m nett

| | | | | | | Thousa | | | | | |
|---------------------------|--------|--------|--------|-------------|--------|--------|--------|--|--|--|--|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | | | |
| | | | Pri | vate Sector | | | | | | | |
| Office Space | | | | | | | | | | | |
| Available | 5,816 | 6,008 | 6,014 | 6,190 | 6,283 | 6,276 | 6,464 | | | | |
| Vacant | 771 | 753 | 619 | 666 | 704 | 634 | 783 | | | | |
| Retail Space | | | | | | | | | | | |
| Available | na | 4,014 | 4,061 | 4,182 | 4,348 | 4,409 | 4,502 | | | | |
| Vacant | na | 229 | 239 | 209 | 283 | 358 | 382 | | | | |
| Factory Space | | | | | | | | | | | |
| Available | 25,308 | 26,209 | 27,004 | 28,080 | 29,258 | 30,357 | 31,632 | | | | |
| Vacant | 2,097 | 1,984 | 2,069 | 2,425 | 2,905 | 3,093 | 3,524 | | | | |
| Warehouse Space | | | | | | | | | | | |
| Available | 6,912 | 7,069 | 7,328 | 7,643 | 8,317 | 8,789 | 9,418 | | | | |
| Vacant | 594 | 406 | 520 | 706 | 682 | 756 | 973 | | | | |
| | | | Pu | blic Sector | | | | | | | |
| Office Space | | | | | | | | | | | |
| Available | 1,240 | 1,223 | 1,256 | 1,251 | 1,270 | 1,283 | 1,266 | | | | |
| Vacant | 85 | 64 | 63 | 67 | 69 | 83 | 78 | | | | |
| Retail Space ¹ | | | | | | | | | | | |
| Available | na | 1,523 | 1,518 | 1,516 | 1,566 | 1,562 | 1,544 | | | | |
| Vacant | na | 45 | 39 | 45 | 61 | 73 | 72 | | | | |
| Factory Space | | | | | | | | | | | |
| Available | 5,349 | 5,050 | 5,052 | 5,068 | 5,173 | 5,216 | 5,180 | | | | |
| Vacant | 112 | 140 | 154 | 197 | 322 | 331 | 374 | | | | |
| Warehouse Space | | | | | | | | | | | |
| Available | 46 | 47 | 47 | 93 | 95 | 97 | 52 | | | | |
| Vacant | 1 | 0 | 0 | 2 | 4 | 9 | 3 | | | | |

Sources: Urban Redevelopment Authority

JTC Corporation (With effect from 2013, for data pertaining to Factory and Warehouse Space)

¹ With effect from 2014, the coverage of shop space statistics has been expanded to include non-shop retail uses (i.e. food & beverage (F&B), entertainment and health & fitness) and referenced as "retail space".

13.6 SUPPLY OF COMMERCIAL AND INDUSTRIAL PROPERTIES IN THE PIPELINE BY DEVELOPMENT STATUS

(Private and Public Sectors) (End of Period)

Thousand sq m gross

| | | | | | | iilousaii | u sq iii gi os: |
|-------------------------------|-------|-------|-------|-------|-------|-----------|-----------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Office Space | | | | | | | |
| Total | 1,280 | 1,114 | 1,276 | 1,123 | 1,056 | 1,049 | 887 |
| Under Construction | 653 | 581 | 970 | 800 | 814 | 715 | 617 |
| Planned | | | | | | | |
| Written Permission | 121 | 282 | 149 | 171 | 54 | 125 | 90 |
| Provisional Permission | 288 | 39 | 41 | 32 | 40 | 153 | 79 |
| Others ¹ | 218 | 212 | 116 | 120 | 148 | 56 | 101 |
| Retail Space ² | | | | | | | |
| Total | na | 817 | 980 | 1,002 | 852 | 834 | 616 |
| Under Construction | na | 523 | 707 | 660 | 510 | 610 | 482 |
| Planned | | | | | | | |
| Written Permission | na | 158 | 113 | 95 | 191 | 56 | 81 |
| Provisional Permission | na | 46 | 75 | 198 | 84 | 142 | 32 |
| Others ¹ | na | 90 | 85 | 49 | 67 | 26 | 21 |
| Factory Space | | | | | | | |
| Total | 3,439 | 4,274 | 5,147 | 5,153 | 4,630 | 4,248 | 3,250 |
| Under Construction | 2,052 | 2,688 | 3,400 | 3,264 | 3,074 | 3,052 | 2,381 |
| Planned | | | | | | | |
| Written Permission | 388 | 441 | 424 | 531 | 462 | 333 | 343 |
| Provisional Permission | 233 | 397 | 460 | 684 | 453 | 649 | 306 |
| Others ¹ | 766 | 748 | 863 | 674 | 641 | 214 | 220 |
| Warehouse Space | | | | | | | |
| Total | 685 | 1,050 | 1,320 | 1,589 | 1,377 | 1,589 | 1,144 |
| Under Construction | 540 | 616 | 1,147 | 1,169 | 1,162 | 1,339 | 1,094 |
| Planned | 0 | 20 | 2.0 | 2.4 | 2.0 | | 4.5 |
| Written Permission | 91 | 30 | 30 | 34 | 20 | 57 | 16 |
| Provisional Permission | 54 | 404 | 12 | 371 | 195 | 189 | 32 |
| Others ¹ | 0 | 0 | 131 | 15 | 0 | 4 | 2 |
| | | | | | | | |

Sources: Urban Redevelopment Authority

JTC Corporation (With effect from 2013, for data pertaining to Factory and Warehouse Space)

¹ Refers to planned public developments and land sales by the government and developments submitted for approval.

² With effect from 2014, the coverage of shop space statistics has been expanded to include non-shop retail uses (i.e. food & beverage (F&B)), entertainment and health & fitness) and referenced as "retail space".

13.7 APPROVAL, CONSTRUCTION COMMENCEMENT AND COMPLETION OF COMMERCIAL AND INDUSTRIAL DEVELOPMENTS

(Private and Public Sectors)

Thousand sq m gross

| | | | | | | Inousand | sq m gross |
|-------------------------------------|------|-------|-------|-------|-------|----------|------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Office Space | | | | | | | |
| Provisional Permission | 275 | 209 | 447 | 124 | 111 | 192 | 79 |
| Written Permission | 97 | 367 | 130 | 475 | 123 | 91 | 150 |
| Building Plan Approval | 23 | 177 | 372 | 473 | 88 | 176 | 119 |
| Building Commencement | 68 | 254 | 578 | 80 | 186 | 11 | 154 |
| Building Completion | 271 | 305 | 218 | 228 | 225 | 93 | 240 |
| Retail Space | | | | | | | |
| Provisional Permission | na | 334 | 192 | 296 | 121 | 180 | 52 |
| Written Permission | na | 152 | 269 | 201 | 260 | 123 | 131 |
| Building Plan Approval | na | 154 | 198 | 280 | 171 | 142 | 144 |
| Building Commencement | na | 285 | 237 | 155 | 126 | 225 | 132 |
| Building Completion | na | 105 | 92 | 186 | 238 | 130 | 185 |
| Factory Space | | | | | | | |
| Provisional Permission | 646 | 1,425 | 1,320 | 1,512 | 1,194 | 972 | 516 |
| Written Permission | 851 | 1,558 | 1,214 | 1,643 | 1,621 | 1,238 | 967 |
| Building Plan Approval ¹ | 590 | 1,319 | 1,291 | 1,585 | 1,458 | 1,115 | 581 |
| Building Commencement | 790 | 1,477 | 1,640 | 1,373 | 1,541 | 1,081 | 895 |
| Building Completion | 844 | 797 | 1,080 | 1,401 | 1,588 | 1,372 | 1,430 |
| Warehouse Space | | | | | | | |
| Provisional Permission | 350 | 576 | 431 | 616 | 567 | 631 | 178 |
| Written Permission | 417 | 359 | 585 | 685 | 738 | 555 | 768 |
| Building Plan Approval ¹ | 151 | 353 | 642 | 679 | 527 | 814 | 819 |
| Building Commencement | 381 | 447 | 812 | 347 | 774 | 686 | 299 |
| Building Completion | 105 | 296 | 317 | 439 | 828 | 545 | 627 |

Sources : Urban Redevelopment Authority

JTC Corporation (With effect from 2013, for data pertaining to Factory and Warehouse Space)

¹ Excludes public sector.

13.8 CONTRACTS AWARDED BY SECTOR AND DEVELOPMENT TYPE

| | | | | | | M | illion Dollars |
|-------------------------|--------|--------|--------|--------------|--------|--------|----------------|
| Development Type | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | Α | All Sectors | | | |
| Total | 27,565 | 35,488 | 30,761 | 35,804 | 38,757 | 27,034 | 26,071 |
| Building Work | 24,541 | 28,747 | 25,951 | 28,863 | 28,854 | 21,560 | 17,095 |
| Residential | 11,487 | 15,298 | 11,846 | 15,963 | 11,291 | 7,770 | 6,318 |
| Commercial | 3,237 | 4,210 | 2,990 | 3,728 | 3,823 | 2,184 | 2,902 |
| Industrial | 4,790 | 6,221 | 6,418 | 5,490 | 6,628 | 5,779 | 3,591 |
| Instituitional & Others | 5,028 | 3,018 | 4,697 | 3,682 | 7,113 | 5,828 | 4,285 |
| Civil Engineering Work | 3,023 | 6,741 | 4,810 | 6,941 | 9,903 | 5,474 | 8,976 |
| | | | Pri | vate Sector | | | |
| Total | 19,018 | 20,208 | 21,237 | 20,915 | 19,537 | 13,781 | 10,729 |
| Building Work | 18,184 | 19,600 | 18,549 | 19,488 | 18,101 | 12,119 | 9,260 |
| Residential | 8,680 | 9,066 | 8,512 | 9,585 | 6,471 | 3,959 | 3,081 |
| Commercial | 3,059 | 4,159 | 2,888 | 3,663 | 3,703 | 1,886 | 2,822 |
| Industrial | 3,717 | 5,738 | 6,111 | 5,178 | 6,037 | 4,534 | 2,752 |
| Instituitional & Others | 2,728 | 638 | 1,039 | 1,062 | 1,890 | 1,741 | 604 |
| Civil Engineering Work | 834 | 608 | 2,688 | 1,427 | 1,436 | 1,662 | 1,470 |
| | | | Pu | ıblic Sector | | | |
| Total | 8,547 | 15,280 | 9,525 | 14,888 | 19,220 | 13,253 | 15,342 |
| Building Work | 6,357 | 9,146 | 7,402 | 9,374 | 10,753 | 9,441 | 7,836 |
| Residential | 2,807 | 6,232 | 3,334 | 6,378 | 4,819 | 3,811 | 3,236 |
| Commercial | 178 | 51 | 102 | 64 | 120 | 298 | 81 |
| Industrial | 1,073 | 483 | 308 | 312 | 591 | 1,245 | 838 |
| Instituitional & Others | 2,300 | 2,380 | 3,659 | 2,620 | 5,224 | 4,088 | 3,680 |
| Civil Engineering Work | 2,189 | 6,133 | 2,123 | 5,514 | 8,466 | 3,812 | 7,506 |

Source: Building and Construction Authority

Notes: Excludes reclamation works.

13.9 PROGRESS PAYMENTS CERTIFIED BY SECTOR AND DEVELOPMENT TYPE

| Development Type | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-------------------------|--------|--------|--------|-------------|--------|--------|--------|
| | | | ı | All Sectors | | | _ |
| Total | 27,428 | 28,861 | 31,639 | 33,682 | 35,892 | 36,402 | 35,178 |
| Building Work | 21,413 | 22,784 | 25,447 | 27,799 | 28,812 | 28,381 | 26,513 |
| Residential | 9,518 | 9,772 | 10,943 | 12,791 | 13,811 | 13,608 | 10,890 |
| Commercial | 4,524 | 3,608 | 3,294 | 3,221 | 3,047 | 3,278 | 3,373 |
| Industrial | 4,571 | 5,669 | 7,414 | 7,807 | 7,060 | 6,784 | 6,637 |
| Instituitional & Others | 2,800 | 3,735 | 3,797 | 3,980 | 4,894 | 4,712 | 5,613 |
| Civil Engineering Work | 6,015 | 6,078 | 6,192 | 5,883 | 7,080 | 8,021 | 8,665 |
| | | | Priv | ate Sector | | | |
| Total | 16,452 | 17,209 | 19,323 | 21,127 | 21,160 | 20,788 | 18,704 |
| Building Work | 15,692 | 16,489 | 18,430 | 20,097 | 19,689 | 19,083 | 17,162 |
| Residential | 6,264 | 6,610 | 7,178 | 8,309 | 8,671 | 8,285 | 6,578 |
| Commercial | 4,451 | 3,478 | 3,212 | 3,145 | 2,964 | 3,160 | 3,188 |
| Industrial | 4,097 | 4,930 | 6,750 | 7,293 | 6,612 | 6,216 | 5,699 |
| Instituitional & Others | 880 | 1,471 | 1,290 | 1,350 | 1,443 | 1,423 | 1,698 |
| Civil Engineering Work | 760 | 720 | 893 | 1,030 | 1,471 | 1,705 | 1,542 |
| | | | Pu | blic Sector | | | |
| Total | 10,976 | 11,653 | 12,316 | 12,555 | 14,732 | 15,615 | 16,474 |
| Building Work | 5,721 | 6,295 | 7,018 | 7,701 | 9,123 | 9,298 | 9,350 |
| Residential | 3,254 | 3,162 | 3,765 | 4,482 | 5,140 | 5,323 | 4,313 |
| Commercial | 73 | 130 | 82 | 76 | 84 | 119 | 184 |
| Industrial | 474 | 740 | 664 | 514 | 449 | 567 | 939 |
| Instituitional & Others | 1,919 | 2,264 | 2,507 | 2,630 | 3,451 | 3,290 | 3,915 |
| Civil Engineering Work | 5,255 | 5,358 | 5,299 | 4,854 | 5,609 | 6,316 | 7,123 |

Source: Building and Construction Authority

13.10 PROPERTIES UNDER THE MANAGEMENT OF HOUSING AND DEVELOPMENT BOARD

(End of Period)

| 2010 | 2011 | 2012 | 2013 | | | |
|---------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | 2013 | 2014 | 2015 | 2016 |
| 898,532 | 914,102 | 922,493 | 933,278 | 959,960 | 984,908 | 1,010,613 |
| 21,973 | 24,207 | 25,186 | 25,384 | 25,450 | 26,247 | 27,817 |
| 30,739 | 32,319 | 33,744 | 35,562 | 37,105 | 38,882 | 41,594 |
| 222,191 | 222,024 | 222,257 | 223,461 | 227,527 | 231,212 | 235,217 |
| 344,596 | 353,690 | 357,566 | 363,043 | 375,533 | 387,642 | 398,927 |
| 210,289 | 213,096 | 214,710 | 216,209 | 222,345 | 227,774 | 233,608 |
| 65,079 | 65,076 | 65,077 | 65,074 | 65,079 | 65,082 | 65,086 |
| 1,865 | 2,155 | 2,418 | 3,368 | 6,921 | 8,069 | 8,364 |
| 1,800 | 1,535 | 1,535 | 1,177 | 0 | 0 | 0 |
| 28,459 | 28,469 | 28,372 | 28,413 | 28,477 | 28,630 | 30,042 |
| | 21,973 30,739 222,191 344,596 210,289 65,079 1,865 1,800 | 21,973 24,207 30,739 32,319 222,191 222,024 344,596 353,690 210,289 213,096 65,079 65,076 1,865 2,155 1,800 1,535 | 21,973 24,207 25,186 30,739 32,319 33,744 222,191 222,024 222,257 344,596 353,690 357,566 210,289 213,096 214,710 65,079 65,076 65,077 1,865 2,155 2,418 1,800 1,535 1,535 | 21,973 24,207 25,186 25,384 30,739 32,319 33,744 35,562 222,191 222,024 222,257 223,461 344,596 353,690 357,566 363,043 210,289 213,096 214,710 216,209 65,079 65,076 65,077 65,074 1,865 2,155 2,418 3,368 1,800 1,535 1,535 1,177 | 21,973 24,207 25,186 25,384 25,450 30,739 32,319 33,744 35,562 37,105 222,191 222,024 222,257 223,461 227,527 344,596 353,690 357,566 363,043 375,533 210,289 213,096 214,710 216,209 222,345 65,079 65,076 65,077 65,074 65,079 1,865 2,155 2,418 3,368 6,921 1,800 1,535 1,535 1,177 0 | 21,973 24,207 25,186 25,384 25,450 26,247 30,739 32,319 33,744 35,562 37,105 38,882 222,191 222,024 222,257 223,461 227,527 231,212 344,596 353,690 357,566 363,043 375,533 387,642 210,289 213,096 214,710 216,209 222,345 227,774 65,079 65,076 65,077 65,074 65,079 65,082 1,865 2,155 2,418 3,368 6,921 8,069 1,800 1,535 1,535 1,177 0 0 |

Source: Housing & Development Board

From November 2015, Studio Apartments are sold under the 2-Room Flexi Scheme.

¹ The Studio Apartment Scheme and 2-room Flat Scheme were merged and replaced with the 2-room Flexi Scheme from November 2015.

² Includes 3Generation flats with effect from Novemvber 2016.

³ Includes Multi-generation flats.

⁴ With effect from 2014, there are no HUDC flats under HDB's management.

13.11 RESIDENTIAL UNITS CONSTRUCTED AND SOLD BY HOUSING AND DEVELOPMENT BOARD

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|----------------------------------------------------------------------------|------|--------|--------|--------|--------|--------|--------|--------|
| Flats Constructed | No. | 10,161 | 17,813 | 19,005 | 12,744 | 27,120 | 26,108 | 26,025 |
| Percentage of Population ^{1, 2} Living in Public Flats | % | 82 | 82 | 83 | 82 | 82 | 82 | 82 |
| Flats Sold Under 'Home Ownership Scheme' ³ | No. | 6,697 | 15,008 | 13,098 | 12,594 | 25,183 | 23,445 | 21,851 |
| Percentage of Home-Ownership Flats ⁴ | % | 95 | 94 | 94 | 93 | 95 | 95 | 95 |
| Percentage of Population Living in Home-Ownership Flats ^{1, 2} | % | 79 | 79 | 80 | 80 | 79 | 79 | 79 |

Source : Housing & Development Board

- 1 Refers to resident population which comprises Singapore citizens and permanent residents.
- 2 Data as at 31 March of each calendar year.
- 3 Flats are considered 'sold' only when keys are issued to the applicants.

 Data include Studio Apartments and keys issued by private developers for Design, Build and Sell Scheme flats.
- 4 Refers to percentage of sold flats over total units under management.

13.12 RESIDENTIAL UNITS UNDER THE MANAGEMENT OF HOUSING AND DEVELOPMENT BOARD, 31 DECEMBER 2016

| Town ¹ | Total | 1-room | 2-room ² | 3-room | 4-room | 5-room ³ | Executive ⁴ | Number Studio Apartments |
|-------------------|-----------|--------|---------------------|---------|---------|---------------------|------------------------|--------------------------------|
| Total | 1,010,613 | 27,817 | 41,594 | 235,217 | 398,927 | 233,608 | 65,086 | 8,364 |
| Ang Mo Kio | 49,450 | 1,318 | 3,512 | 24,235 | 13,862 | 5,757 | 491 | 275 |
| Bedok | 61,100 | 2,530 | 2,205 | 22,637 | 20,397 | 10,390 | 2,715 | 226 |
| Bishan | 19,664 | 396 | 9 | 2,357 | 9,359 | 5,716 | 1,660 | 167 |
| Bukit Batok | 32,984 | 385 | 244 | 10,352 | 14,067 | 5,028 | 2,733 | 175 |
| Bukit Merah | 52,401 | 4,731 | 5,819 | 16,091 | 15,697 | 9,478 | 44 | 541 |
| Bukit Panjang | 35,325 | 223 | 545 | 3,678 | 16,699 | 10,425 | 3,381 | 374 |
| Bukit Timah | 2,555 | 0 | 45 | 441 | 920 | 682 | 380 | 87 |
| Central Area | 12,571 | 2,075 | 1,316 | 4,739 | 3,529 | 903 | 9 | 0 |
| Choa Chu Kang | 48,900 | 565 | 1,189 | 2,463 | 23,465 | 15,952 | 4,762 | 504 |
| Clementi | 26,224 | 474 | 716 | 12,233 | 9,049 | 3,132 | 620 | 0 |
| Geylang | 30,814 | 1,231 | 3,549 | 11,788 | 9,607 | 3,591 | 830 | 218 |
| Hougang | 53,862 | 532 | 1,056 | 10,610 | 25,842 | 10,844 | 4,310 | 668 |
| Jurong East | 23,897 | 352 | 424 | 7,006 | 8,188 | 5,925 | 1,871 | 131 |
| Jurong West | 72,719 | 540 | 1,738 | 12,740 | 28,746 | 21,815 | 6,507 | 633 |
| Kallang/Whampoa | 38,566 | 4,401 | 2,664 | 13,890 | 11,456 | 5,477 | 504 | 174 |
| Marine Parade | 7,862 | 0 | 1,350 | 3,037 | 1,798 | 1,677 | 0 | 0 |
| Pasir Ris | 29,654 | 176 | 329 | 491 | 11,641 | 9,379 | 7,460 | 178 |
| Punggol | 42,984 | 871 | 1,432 | 3,783 | 20,204 | 15,132 | 1,126 | 436 |
| Queenstown | 31,504 | 575 | 3,252 | 14,210 | 8,794 | 3,972 | 354 | 347 |
| Sembawang | 21,901 | 601 | 992 | 349 | 9,019 | 8,070 | 2,870 | 0 |
| Sengkang | 65,375 | 685 | 1,541 | 3,612 | 30,381 | 23,909 | 4,462 | 785 |
| Serangoon | 21,487 | 272 | 324 | 4,541 | 10,231 | 3,754 | 2,365 | 0 |
| Tampines | 67,911 | 1,075 | 964 | 13,238 | 28,840 | 17,313 | 5,846 | 635 |
| Toa Payoh | 36,871 | 1,168 | 3,664 | 15,122 | 9,756 | 6,017 | 854 | 290 |
| Woodlands | 63,978 | 1,603 | 1,321 | 6,434 | 27,939 | 19,661 | 6,191 | 829 |
| Yishun | 60,054 | 1,038 | 1,394 | 15,140 | 29,441 | 9,609 | 2,741 | 691 |

Source: Housing & Development Board

From November 2015, Studio Apartments are sold under the 2-Room Flexi Scheme.

¹ Equivalent to Town Registration Boundary.

² The Studio Apartment Scheme and 2-room Flat Scheme were merged and replaced with the 2-room Flexi Scheme from November 2015.

³ Includes 3Generation flats with effect from November 2016.

⁴ Includes Multi-generation flats.

13.13 TOTAL ALLOCATED, SUPPLY AND OCCUPANCY OF JTC CORPORATION FLATTED/STANDARD FACTORY SPACE AND PREPARED INDUSTRIAL LAND

| Factory Space/Industrial Land | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-------------------------------|-----------|---------|---------|---------|---------|---------|---------|---------|
| Flatted Factory Space | | | | | | | | |
| Gross Allocation | '000 sq m | 70.4 | 26.3 | 15.7 | 14.1 | 17.9 | 37.2 | 32.0 |
| Returns | '000 sq m | 57.8 | 41.4 | 19.1 | 14.6 | 19.2 | 28.8 | 19.7 |
| Total Allocated | '000 sq m | 627.7 | 296.7 | 293.3 | 292.7 | 291.5 | 298.8 | 312.3 |
| Supply | '000 sq m | 660.2 | 322.7 | 322.7 | 322.6 | 362.0 | 394.1 | 443.6 |
| Occupancy Rate | % | 95.1 | 91.9 | 90.9 | 90.8 | 80.5 | 75.8 | 70.4 |
| Standard Factory Space | | | | | | | | |
| Gross Allocation | '000 sq m | 17.3 | 23.9 | 38.0 | 34.4 | 13.6 | 22.5 | 21.5 |
| Returns | '000 sq m | 22.1 | 33.9 | 40.1 | 47.4 | 29.7 | 42.3 | 41.4 |
| Total Allocated | '000 sq m | 2,391.2 | 2,380.9 | 2,377.5 | 2,362.0 | 2,344.3 | 2,324.5 | 2,304.6 |
| Supply | '000 sq m | 2,434.4 | 2,457.0 | 2,470.7 | 2,468.2 | 2,466.7 | 2,479.4 | 2,494.7 |
| Occupancy Rate | % | 98.2 | 96.9 | 96.2 | 95.7 | 95.0 | 93.8 | 92.4 |
| Prepared Industrial Land | | | | | | | | |
| Gross Allocation ¹ | Hectares | 146.1 | 398.0 | 255.2 | 232.2 | 166.8 | 150.8 | 145.3 |
| Returns ¹ | Hectares | 105.6 | 208.3 | 103.5 | 201.4 | 103.9 | 162.9 | 160.9 |
| Total Allocated ² | Hectares | 5,883.3 | 6,217.7 | 6,374.0 | 6,433.1 | 6,513.0 | 6,507.5 | 6,497.8 |
| Supply ² | Hectares | 6,709.0 | 6,952.2 | 7,069.8 | 7,245.4 | 7,337.2 | 7,361.0 | 7,379.4 |

Source: JTC Corporation

Notes: Figures may not add up due to rounding.

Data for "Total Allocated" and "Supply" and "Occupancy Rate" are as at end of period.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=3569 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2970 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2342

¹ Excludes Prepared Industrial Land that is tendered out as part of the Industrial Government Land Sales (IGLS) programme.

² Includes Prepared Industrial Land that is tendered out as part of the IGLS programme and land occupied by JTC's Ready Built Facilities. Data on Prepared Industrial Land from IGLS are based on date of allocation instead of date of tender award. The date of allocation is normally a few months after the date of tender award.

13.14 RESIDENTIAL DWELLINGS

| | | | | | | | Number |
|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Type of Property | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Residential Dwelling Units | 1,164,906 | 1,187,110 | 1,216,217 | 1,231,914 | 1,271,109 | 1,322,898 | 1,370,319 |
| Type of Dwellings ¹ | | | | | | | |
| Total HDB Flats ² | 895,482 | 909,610 | 927,643 | 933,389 | 953,975 | 980,613 | 1,004,623 |
| HDB 1-2 Room Flats ³ | 53,587 | 56,224 | 61,234 | 63,622 | 68,332 | 71,937 | 75,175 |
| HDB 3 Room Flats | 222,363 | 224,920 | 226,300 | 226,199 | 228,329 | 232,089 | 236,065 |
| HDB 4 Room Flats | 341,841 | 349,674 | 358,113 | 361,212 | 371,573 | 384,507 | 395,568 |
| HDB 5 Room And Executive Flats | 274,999 | 276,428 | 279,632 | 280,350 | 284,601 | 291,149 | 296,884 |
| Condominiums And Other Apartments | 185,967 | 193,944 | 204,340 | 214,148 | 232,296 | 256,971 | 279,745 |
| Landed Properties | 71,354 | 71,551 | 72,032 | 72,396 | 73,024 | 73,445 | 74,108 |
| Others ⁴ | 12,103 | 12,005 | 12,202 | 11,981 | 11,814 | 11,869 | 11,843 |

Notes: Data as at end June of each year.

¹ Data are based on the Singapore Standard Classification of Type of Dwelling.

Excludes collective dwellings such as skilled nursing facilities, serviced apartments, school hostels and workers' dormitories etc.

² Includes non-privatised Housing and Urban Development Corporation flats.

³ Includes HDB studio apartments.

⁴ Includes other housing units such as shophouses and attap/zinc-roofed houses etc.

14

Services

14

Services



Annual Survey of Services



The Annual Survey of Services covers establishments engaged in wholesale trade, retail trade, transport & storage services, accommodation & food services, information & communications services, business services and recreation, community & personal services, as classified under Sections G, H, I, J, L, M, N, P, Q, R and S of the Singapore Standard Industrial Classification (SSIC) 2015. Establishments engaged in financial & insurance services and public administration activities are excluded. Taxi drivers, hawkers and stall-holders, independent artistes and other individual self-employed persons not registered with the Accounting and Corporate Regulatory Authority (ACRA) are also excluded.

Stratified random sampling is adopted for the survey. All establishments in the sampling frame are first stratified by activity and within each activity, establishments are then stratified by operating receipts. Establishments with large operating receipts are selected with certainty and the rest are selected using simple random sampling without replacement.

Total Establishments, 2015



Definitions



Enterprise: Refers to an incorporated/ registered entity (such as company, sole-proprietorship, partnership, association, society, etc).

Establishment: Refers to a unit within an enterprise engaging in one activity and operating in a single location. Thus, for a multi-activity enterprise, units within the enterprise engaging in separate activities (even if they are at the same location) are considered separate establishments. Similarly, each unit of a multi-branch enterprise operating at different branch locations is conceptually a separate establishment.

Operating Receipts: Refers to income earned from business operations, i.e. income from services rendered, sales of goods, commission fees, and rental of premises, machinery and equipment.

Operating Expenditure: Refers to all expenditure incurred by the establishment in its business, with adjustment for changes in inventory. It includes remuneration, purchases, taxes on production, work given out, rental and maintenance of machinery and equipment, legal, accounting and other professional services, rental and maintenance of premises, depreciation, transport and travelling, utilities, advertisement, entertainment, stationery and printing, postage and telecommunications, fuel and lubricants, cargo handling expenses, port charges, charter fees and other general expenses that are incurred as part of the establishment's operation.

Operating Surplus: Refers to the amount of operating receipts less operating expenditure plus depreciation of fixed assets. For non-profit organisations (i.e. entities which cannot distribute any surplus made to their shareholders) which mainly rely on funds (such as grants and

Services •

donations) other than receipts from sales of goods and services rendered to cover their operating expenditure, operating surplus refers only to depreciation of fixed assets.

Value Added (at Basic Price): Comprises the value of operating surplus, remuneration and taxes (less subsidies) on production.

Retail Sales and Food & Beverage Services Indices



The Retail Sales and Food & Beverage Services Indices measure the short-term performance of the retail and food & beverage services industries based on the sales records of retail and food & beverage establishments. Data for the compilation of the indices are primarily obtained from more than 650 enterprises covered in the monthly retail sales and food & beverage services surveys. The base year for the indices is 2014.

The indices are presented at both current prices and constant prices. Changes in the indices at current prices measure the changes in sales values resulting from changes in both price and quantity. By removing the price effect, the changes in indices at constant prices measure the changes in the volume of economic activity.

Wholesale Trade Index



The Wholesale Trade Index (WTI) measures the short-term performance of wholesale trade activities. Data for the compilation of the WTI are sourced from over 700 wholesale trade enterprises covered in the quarterly survey of wholesale trade as well as from administrative records. The base year for the WTI is 2012.

Two series of the WTI are compiled – Domestic WTI and Foreign WTI. The Domestic WTI records wholesale sales in Singapore. The Foreign WTI measures to wholesale sales outside Singapore, which comprises domestic exports, re-exports, transhipment cargo and offshore merchandise.

The indices are presented at both current prices and constant prices. Changes in the indices at current prices measure the changes in sales values which can result from changes in both price and quantity. By removing the price effect, the changes in indices at constant prices measure the changes in the volume of sales.

Business Receipts Index



The Business Receipts Index (BRI) for services industries (excluding wholesale & retail trade and accommodation & food services) measures the changes in the amount of business or operating receipts on a quarterly basis.

The BRI is compiled based on survey data and administrative records of more than 11,000 enterprises in the transport & storage services, information & communications services, financial & insurance services, business services and recreation, community & personal services industries. The BRI is compiled at current prices, with 2014 as the base year.

Other References



The <u>publications</u> and <u>papers</u> section of the SingStat Website provides more information on the concepts and methodology adopted for the Annual Survey of Services. Detailed statistics for several services industries of importance to the Singapore economy are also available.

14.1 PRINCIPAL STATISTICS OF SERVICES

| | Establish- | Operating | Operating | Operating | Value |
|------|------------|-------------|-------------------------|-----------|--------------------|
| Year | ments | Receipts | Expenditure Million | Surplus | Added ¹ |
| | Number | | | Dollars | |
| | | | Total | | |
| 2009 | 132,981 | 1,459,660.6 | 1,409,808.0 | 70,561.8 | 134,343.1 |
| 2010 | 135,997 | 1,806,964.6 | 1,740,981.0 | 88,251.0 | 158,613.7 |
| 2011 | 143,666 | 2,288,056.5 | 2,215,832.3 | 95,425.2 | 172,018.8 |
| 2012 | 150,688 | 2,490,371.1 | 2,419,394.3 | 96,112.8 | 178,878.2 |
| 2013 | 153,569 | 2,772,984.4 | 2,701,136.3 | 98,501.4 | 186,973.4 |
| 2014 | 158,639 | 2,873,377.5 | 2,806,890.4 | 94,602.1 | 189,088.7 |
| 2015 | 165,590 | 2,495,854.8 | 2,433,579.5 | 93,303.7 | 193,270.2 |
| | | | Wholesale Trade | | |
| 2009 | 33,463 | 1,202,406.7 | 1,174,625.2 | 29,297.5 | 45,017.2 |
| 2010 | 33,440 | 1,513,069.5 | 1,478,059.7 | 36,503.4 | 53,237.9 |
| 2011 | 34,058 | 1,970,137.5 | 1,929,760.3 | 41,938.2 | 59,991.7 |
| 2012 | 34,745 | 2,143,988.7 | 2,106,181.6 | 39,684.9 | 58,628.6 |
| 2013 | 34,018 | 2,400,838.0 | 2,363,858.8 | 38,834.1 | 58,426.5 |
| 2014 | 34,087 | 2,483,409.0 | 2,452,982.7 | 32,455.4 | 52,851.9 |
| 2015 | 34,890 | 2,087,265.6 | 2,061,660.2 | 27,702.8 | 49,474.0 |
| | | | Retail Trade | | |
| 2009 | 19,069 | 36,558.2 | 34,612.8 | 2,280.0 | 5,084.1 |
| 2010 | 19,611 | 37,388.9 | 35,418.0 | 2,317.6 | 5,296.2 |
| 2011 | 20,579 | 40,327.9 | 38,099.8 | 2,608.1 | 5,935.1 |
| 2012 | 21,228 | 42,623.6 | 40,501.4 | 2,561.3 | 6,112.4 |
| 2013 | 21,530 | 43,288.9 | 41,344.2 | 2,436.2 | 6,220.3 |
| 2014 | 22,234 | 44,036.8 | 42,321.5 | 2,257.9 | 6,430.6 |
| 2015 | 23,451 | 45,654.4 | 43,925.0 | 2,288.3 | 6,667.3 |
| | | Tra | ansport & Storage Servi | ces | |
| 2009 | 9,123 | 75,613.6 | 69,871.1 | 11,993.9 | 20,603.6 |
| 2010 | 9,625 | 89,199.6 | 79,808.6 | 15,115.9 | 24,305.2 |
| 2011 | 10,525 | 91,857.4 | 86,171.5 | 11,290.8 | 21,074.4 |
| 2012 | 11,115 | 97,399.5 | 91,664.3 | 11,716.8 | 22,273.8 |
| 2013 | 11,370 | 103,977.6 | 98,350.7 | 12,066.7 | 23,241.6 |
| 2014 | 11,454 | 108,762.3 | 101,708.0 | 13,471.3 | 25,464.2 |
| | 12,191 | 112,251.2 | 103,795.5 | 15,668.6 | 28,217.9 |

(continued on the next page)

 $Notes: Data\ are\ classified\ according\ to\ the\ Singapore\ Standard\ Industrial\ Classification\ 2015.$

Non-profit organisations are included in the respective services industries.

Data exclude mutual benefit organisations, citizens' consultative committees and residents' committees.

(e.g. freelancers, hawkers).

Additional Registration Fee (ARF), Certificates of Entitlement (COE) and betting, sweepstakes & private lottery duties are excluded from operating receipts and operating expenditure of industries engaged in wholesale & retail trade of motor vehicles and gaming activities.

1 Value added is at basic prices.

14.1 PRINCIPAL STATISTICS OF SERVICES (continued)

| | Establish- | Operating | Operating | Operating | Value |
|------|------------|------------|-------------------------|--------------|--------------------|
| Year | ments | Receipts | Expenditure | Surplus | Added ¹ |
| | Number | | Million | | |
| | | Accommod | ation and Food & Bevera | age Services | |
| 2009 | 6,287 | 8,931.7 | 7,910.1 | 1,475.6 | 3,901.3 |
| 2010 | 6,529 | 10,744.1 | 9,323.6 | 1,933.5 | 4,855.0 |
| 2011 | 6,853 | 12,694.2 | 10,754.0 | 2,511.6 | 5,858.1 |
| 2012 | 7,091 | 13,781.8 | 11,776.8 | 2,613.7 | 6,304.7 |
| 2013 | 7,136 | 14,614.9 | 12,761.9 | 2,527.7 | 6,518.9 |
| 2014 | 7,343 | 15,322.3 | 13,441.0 | 2,600.4 | 6,813.2 |
| 2015 | 7,743 | 15,397.2 | 13,633.5 | 2,523.5 | 6,866.3 |
| | | Informa | tion & Communications | Services | |
| 2009 | 6,342 | 33,451.0 | 29,829.6 | 4,955.3 | 10,575.9 |
| 2010 | 6,629 | 36,453.6 | 32,885.4 | 4,942.9 | 11,301.6 |
| 2011 | 7,407 | 39,581.6 | 35,472.5 | 5,570.2 | 12,554.4 |
| 2012 | 8,172 | 44,205.4 | 39,912.3 | 5,962.3 | 13,711.9 |
| 2013 | 8,631 | 47,748.5 | 42,871.7 | 6,706.9 | 14,893.4 |
| 2014 | 9,263 | 53,335.5 | 48,395.4 | 6,906.4 | 15,965.6 |
| 2015 | 10,682 | 58,939.2 | 54,486.5 | 6,655.5 | 16,153.7 |
| | | | Business Services | | |
| 2009 | 33,630 | 81,665.4 | 69,148.2 | 17,092.3 | 34,873.1 |
| 2010 | 34,623 | 94,232.7 | 77,929.3 | 21,688.7 | 41,012.9 |
| 2011 | 37,205 | 104,207.1 | 85,222.5 | 24,942.4 | 46,039.9 |
| 2012 | 39,680 | 117,193.7 | 96,327.7 | 27,042.7 | 49,780.0 |
| 2013 | 41,213 | 129,288.8 | 106,302.1 | 29,495.6 | 54,380.9 |
| 2014 | 43,114 | 132,884.3 | 109,913.4 | 30,216.1 | 56,562.8 |
| 2015 | 44,319 | 139,013.5 | 115,150.1 | 32,125.7 | 60,266.7 |
| | | Recreation | n, Community & Persona | al Services | |
| 2009 | 25,068 | 21,034.0 | 23,810.8 | 3,467.3 | 14,288.0 |
| 2010 | 25,539 | 25,876.1 | 27,556.3 | 5,748.8 | 18,605.0 |
| 2011 | 27,039 | 29,250.9 | 30,351.7 | 6,564.0 | 20,565.2 |
| 2012 | 28,656 | 31,178.6 | 33,030.3 | 6,531.1 | 22,066.7 |
| 2013 | 29,672 | 33,227.9 | 35,646.9 | 6,434.1 | 23,291.8 |
| 2014 | 31,146 | 35,627.3 | 38,128.4 | 6,694.6 | 25,000.5 |
| 2015 | 32,314 | 37,333.7 | 40,928.7 | 6,339.3 | 25,624.2 |

Notes: Data are classified according to the Singapore Standard Industrial Classification 2015.

Non-profit organisations are included in the respective services industries.

Data exclude mutual benefit organisations, citizens' consultative committees and residents' committees.

Data exclude financial & insurance services, public administration activities and own-account workers (e.g. freelancers, hawkers).

Additional Registration Fee (ARF), Certificates of Entitlement (COE) and betting, sweepstakes & private lottery duties are excluded from operating receipts and operating expenditure of industries engaged in wholesale & retail trade of motor vehicles and gaming activities.

1 Value added is at basic prices.

14.2 RETAIL SALES INDEX (2014 = 100)

| | Weights ¹ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-----------------------------------|----------------------|-------|-------|-------|---------------|-------|-------|-------|
| | _ | | | At | Current Price | es | | |
| Total | 10,000 | 98.2 | 102.6 | 104.9 | 99.6 | 100.0 | 104.4 | 106.7 |
| Total (excl Motor Vehicles) | 8,923 | 90.1 | 97.1 | 99.6 | 100.5 | 100.0 | 98.8 | 96.2 |
| Department Stores ² | 1,738 | 86.6 | 92.7 | 94.1 | 97.6 | 100.0 | 103.0 | 101.5 |
| Supermarkets | 511 | 88.0 | 88.8 | 95.4 | 99.5 | 100.0 | 101.3 | 100.3 |
| Mini-marts and Convenience Stores | 478 | 89.3 | 95.0 | 98.2 | 100.2 | 100.0 | 97.5 | 98.5 |
| Food Retailers ³ | 239 | 82.2 | 88.2 | 92.2 | 96.9 | 100.0 | 93.7 | 85.8 |
| Motor Vehicles | 1,077 | 135.7 | 128.0 | 129.5 | 95.5 | 100.0 | 150.8 | 193.3 |
| Petrol Service Stations | 621 | 81.9 | 94.3 | 98.6 | 99.6 | 100.0 | 81.3 | 74.9 |
| Medical Goods & Toiletries | 566 | 76.3 | 83.7 | 92.6 | 96.2 | 100.0 | 103.8 | 108.6 |
| Wearing Apparel & Footwear | 1,016 | 95.6 | 101.4 | 103.4 | 103.9 | 100.0 | 97.3 | 93.6 |
| Furniture & Household Equipment | 894 | 104.6 | 107.3 | 109.0 | 104.2 | 100.0 | 97.8 | 97.2 |
| Recreational Goods | 168 | 100.8 | 104.3 | 105.5 | 106.1 | 100.0 | 93.8 | 92.4 |
| Watches & Jewellery | 995 | 84.9 | 100.9 | 101.3 | 102.1 | 100.0 | 101.4 | 95.5 |
| Computer & Telecommunications | | | | | | | | |
| Equipment | 614 | 91.9 | 103.3 | 107.1 | 99.2 | 100.0 | 93.9 | 78.8 |
| Optical Goods & Books | 377 | 101.1 | 99.0 | 96.6 | 100.5 | 100.0 | 94.1 | 90.1 |
| Others | 706 | 97.5 | 103.6 | 104.8 | 105.6 | 100.0 | 108.1 | 114.0 |
| | _ | | | At C | Constant Pric | es | | |
| Total | 10,000 | 100.9 | 102.9 | 104.2 | 99.7 | 100.0 | 104.6 | 106.1 |
| Total (excl Motor Vehicles) | 8,923 | 92.9 | 97.9 | 99.6 | 100.7 | 100.0 | 99.0 | 95.6 |
| Department Stores ² | 1,738 | 90.4 | 95.7 | 95.8 | 98.4 | 100.0 | 102.7 | 100.2 |
| Supermarkets | 511 | 96.8 | 94.8 | 99.9 | 102.2 | 100.0 | 100.4 | 97.6 |
| Mini-marts and Convenience Stores | 478 | 97.4 | 101.1 | 102.4 | 102.9 | 100.0 | 96.5 | 96.6 |
| Food Retailers ³ | 239 | 92.1 | 95.6 | 97.6 | 100.3 | 100.0 | 92.4 | 83.0 |
| Motor Vehicles | 1,077 | 136.6 | 125.1 | 125.0 | 95.2 | 100.0 | 151.5 | 193.2 |
| Petrol Service Stations | 621 | 97.3 | 100.3 | 101.6 | 100.3 | 100.0 | 85.5 | 81.9 |
| Medical Goods & Toiletries | 566 | 79.5 | 85.6 | 93.7 | 96.4 | 100.0 | 104.2 | 109.4 |
| Wearing Apparel & Footwear | 1,016 | 96.0 | 101.8 | 102.4 | 102.6 | 100.0 | 97.6 | 93.2 |
| Furniture & Household Equipment | 894 | 101.4 | 105.0 | 108.9 | 104.4 | 100.0 | 97.6 | 97.3 |
| Recreational Goods | 168 | 98.1 | 103.2 | 105.2 | 106.9 | 100.0 | 93.5 | 91.5 |
| Watches & Jewellery | 995 | 84.1 | 90.8 | 88.5 | 98.1 | 100.0 | 101.3 | 91.7 |
| Computer & Telecommunications | | | | | | | | |
| Equipment | 614 | 85.2 | 100.2 | 107.4 | 99.5 | 100.0 | 94.0 | 78.8 |
| Optical Goods & Books | 377 | 105.0 | 101.5 | 97.9 | 100.8 | 100.0 | 94.2 | 88.5 |
| Others | 706 | 100.7 | 105.0 | 104.3 | 104.5 | 100.0 | 108.5 | 114.1 |

¹ The weights for the Retail Sales Index are computed based on the retail sales contributions of the respective retail trade industries, using data obtained from the Annual Survey of Retail Trade for reference year 2013.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=3768 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=3769

² Includes department stores cum supermarkets (e.g. hypermarkets).

³ Refers to retail stores which sell food & beverages that are generally not meant for immediate consumption within their premises.

14.3 FOOD & BEVERAGE SERVICES INDEX (2014 = 100)

| | Weights ¹ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | |
|---------------------|----------------------|-------------------|-------|--------|--------------|-------|-------|-------|--|--|
| | _ | At Current Prices | | | | | | | | |
| Total | 1,000 | 87.1 | 92.9 | 97.1 | 99.1 | 100.0 | 97.2 | 97.2 | | |
| Restaurants | 408 | 89.2 | 93.3 | 96.9 | 100.2 | 100.0 | 95.1 | 90.0 | | |
| Fast Food Outlets | 115 | 85.2 | 93.6 | 96.2 | 98.4 | 100.0 | 101.0 | 103.9 | | |
| Food Caterers | 115 | 85.0 | 92.4 | 100.2 | 103.3 | 100.0 | 98.7 | 99.1 | | |
| Other Eating Places | 362 | 86.4 | 92.4 | 96.6 | 96.8 | 100.0 | 97.8 | 102.6 | | |
| | _ | | | At Con | stant Prices | | | | | |
| Total | 1,000 | 95.5 | 99.3 | 101.4 | 101.5 | 100.0 | 95.0 | 93.2 | | |
| Restaurants | 408 | 99.6 | 101.3 | 101.7 | 102.6 | 100.0 | 92.2 | 85.3 | | |
| Fast Food Outlets | 115 | 90.7 | 97.7 | 100.5 | 101.8 | 100.0 | 99.4 | 100.0 | | |
| Food Caterers | 115 | 88.7 | 95.2 | 102.4 | 104.6 | 100.0 | 98.5 | 98.2 | | |
| Other Eating Places | 362 | 95.3 | 99.1 | 101.1 | 99.4 | 100.0 | 95.5 | 98.4 | | |

Notes: Food & beverages sales refers to the sales of prepared food and drinks for in-premises consumption or on a take-away basis.

Data exclude hawker stalls.

Download times series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=3770 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=3771

¹ The weights for the Food & Beverage Services Index are computed based on the food & beverage sales contributions of the respective food and beverage services industries, using data obtained from the Annual Survey of Food & Beverage Services for reference year 2013.

14.4 DOMESTIC WHOLESALE TRADE INDEX

(2012 = 100)

| | Weights ¹ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | |
|-------------------------------------|----------------------|--------------------|-------|-------|---------------|-------|-------|-------|--|
| | _ | | | At (| Current Price | es | | | |
| Total | 10,000 | 91.5 | 102.0 | 100.0 | 102.2 | 97.1 | 76.1 | 66.0 | |
| Total (excl Petroleum) | 4,864 | 97.5 | 101.2 | 100.0 | 102.2 | 99.4 | 88.3 | 79.2 | |
| Food, Beverages & Tobacco | 380 | 84.8 | 93.0 | 100.0 | 104.4 | 108.8 | 112.0 | 114.5 | |
| Household Equipment & Furniture | 218 | 96.0 | 90.9 | 100.0 | 88.9 | 88.6 | 89.2 | 103.9 | |
| Petroleum & Petroleum Products | 5,136 | 84.3 | 102.8 | 100.0 | 102.3 | 94.9 | 64.5 | 53.5 | |
| Chemicals & Chemical Products | 351 | 99.6 | 103.9 | 100.0 | 104.2 | 107.3 | 100.0 | 83.5 | |
| Electronic Components | 442 | 120.9 | 104.6 | 100.0 | 110.3 | 114.3 | 122.9 | 101.7 | |
| Industrial & Construction Machinery | 345 | 94.2 | 103.0 | 100.0 | 102.9 | 107.2 | 105.2 | 97.6 | |
| Telecommunications & Computers | 549 | 95.1 | 97.7 | 100.0 | 107.7 | 109.0 | 115.2 | 96.4 | |
| Metals, Timber & Construction | | | | | | | | | |
| Materials | 336 | 96.7 | 99.6 | 100.0 | 94.8 | 89.2 | 80.7 | 68.6 | |
| General Wholesale Trade | 396 | 91.6 | 102.9 | 100.0 | 107.0 | 102.8 | 63.8 | 51.9 | |
| Ship Chandlers & Bunkering | 1,039 | 85.4 | 99.8 | 100.0 | 91.3 | 79.4 | 42.1 | 33.5 | |
| Transport Equipment | 170 | 94.9 | 99.1 | 100.0 | 96.7 | 99.5 | 103.1 | 101.4 | |
| Other Wholesale Trade | 638 | 111.4 | 110.0 | 100.0 | 113.8 | 106.2 | 102.0 | 98.1 | |
| | _ | At Constant Prices | | | | | | | |
| Total | 10,000 | 104.0 | 102.2 | 100.0 | 106.3 | 107.1 | 116.5 | 113.6 | |
| Total (excl Petroleum) | 4,864 | 100.0 | 100.3 | 100.0 | 105.9 | 106.5 | 105.5 | 99.7 | |
| Food, Beverages & Tobacco | 380 | 85.6 | 92.0 | 100.0 | 103.5 | 106.1 | 109.8 | 113.5 | |
| Household Equipment & Furniture | 218 | 87.8 | 88.5 | 100.0 | 93.1 | 99.7 | 101.0 | 121.5 | |
| Petroleum & Petroleum Products | 5,136 | 110.4 | 105.2 | 100.0 | 106.6 | 107.6 | 126.8 | 126.8 | |
| Chemicals & Chemical Products | 351 | 118.9 | 105.2 | 100.0 | 107.6 | 116.7 | 152.5 | 143.1 | |
| Electronic Components | 442 | 114.0 | 104.6 | 100.0 | 113.9 | 121.6 | 127.0 | 110.7 | |
| Industrial & Construction Machinery | 345 | 87.2 | 101.1 | 100.0 | 104.1 | 108.5 | 106.6 | 101.9 | |
| Telecommunications & Computers | 549 | 81.9 | 94.0 | 100.0 | 116.5 | 129.0 | 139.9 | 121.1 | |
| Metals, Timber & Construction | | | | | | | | | |
| Materials | 336 | 95.3 | 96.4 | 100.0 | 97.7 | 92.7 | 86.1 | 78.1 | |
| General Wholesale Trade | 396 | 99.7 | 103.3 | 100.0 | 109.9 | 108.7 | 79.9 | 69.9 | |
| Ship Chandlers & Bunkering | 1,039 | 111.7 | 102.0 | 100.0 | 96.2 | 89.8 | 78.9 | 76.3 | |
| Transport Equipment | 170 | 94.2 | 99.8 | 100.0 | 96.3 | 92.9 | 92.3 | 90.3 | |
| Other Wholesale Trade | 638 | 112.9 | 109.3 | 100.0 | 117.2 | 109.1 | 106.7 | 103.2 | |

¹ The weights for the Domestic Wholesale Trade Index are computed based on the domestic wholesale sales contributions of the respective wholesale trade industries, using data obtained from the Annual Survey of Wholesale Trade for reference year 2011.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=1956 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=1953

14.5 FOREIGN WHOLESALE TRADE INDEX

(2012 = 100)

| | Weights ¹ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | |
|------------------------------------------|----------------------|--------------------|-------|-------|-------|-------|-------|------|--|
| | _ | At Current Prices | | | | | | | |
| Total | 10,000 | 80.1 | 93.2 | 100.0 | 104.9 | 101.9 | 86.5 | 78.9 | |
| Total (excl Petroleum) | 5,524 | 87.0 | 97.5 | 100.0 | 108.0 | 107.3 | 102.1 | 96. | |
| Food, Beverages & Tobacco | 405 | 93.5 | 101.4 | 100.0 | 99.0 | 97.2 | 96.0 | 91.0 | |
| Household Equipment & Furniture | 110 | 106.4 | 108.3 | 100.0 | 89.9 | 86.3 | 85.7 | 98. | |
| Petroleum & Petroleum Products | 4,476 | 73.0 | 88.8 | 100.0 | 101.0 | 95.2 | 67.3 | 57. | |
| Chemicals & Chemical Products | 492 | 82.4 | 98.3 | 100.0 | 106.1 | 94.3 | 79.0 | 72. | |
| Electronic Components | 529 | 94.4 | 94.8 | 100.0 | 112.0 | 109.4 | 112.1 | 92. | |
| Industrial & Construction Machinery | 227 | 86.8 | 97.4 | 100.0 | 76.5 | 70.6 | 64.2 | 63. | |
| Telecommunications & Computers | 790 | 77.5 | 86.4 | 100.0 | 99.6 | 102.5 | 104.9 | 114. | |
| Metals, Timber & Construction Materials | 711 | 81.0 | 97.0 | 100.0 | 141.6 | 142.8 | 129.5 | 113. | |
| General Wholesale Trade | 711 | 81.1 | 100.8 | 100.0 | 104.5 | 111.1 | 105.2 | 99. | |
| Ship Chandlers & Bunkering | 234 | 82.3 | 97.7 | 100.0 | 104.3 | 101.0 | 63.7 | 54. | |
| Transport Equipment | 234 | 85.6 | 79.8 | 100.0 | 96.9 | 95.1 | 95.9 | 92. | |
| Other Wholesale Trade | 1,088 | 91.3 | 108.4 | 100.0 | 108.9 | 107.5 | 107.0 | 100. | |
| | _ | At Constant Prices | | | | | | | |
| otal | 10,000 | 87.9 | 91.7 | 100.0 | 108.6 | 110.3 | 120.2 | 121. | |
| Total (excl Petroleum) | 5,524 | 82.7 | 92.4 | 100.0 | 111.7 | 113.1 | 112.7 | 111. | |
| Food, Beverages & Tobacco | 405 | 98.1 | 101.4 | 100.0 | 102.7 | 100.5 | 95.8 | 91. | |
| Household Equipment & Furniture | 110 | 95.3 | 103.3 | 100.0 | 91.7 | 90.5 | 90.1 | 105. | |
| Petroleum & Petroleum Products | 4,476 | 95.6 | 90.6 | 100.0 | 104.8 | 106.9 | 129.5 | 135. | |
| Chemicals & Chemical Products | 492 | 97.3 | 99.2 | 100.0 | 110.0 | 101.5 | 109.9 | 114. | |
| Electronic Components | 529 | 87.2 | 91.4 | 100.0 | 114.1 | 115.2 | 113.6 | 98. | |
| Industrial & Construction Machinery | 227 | 83.9 | 98.3 | 100.0 | 77.8 | 70.9 | 65.5 | 67. | |
| Telecommunications & Computers | 790 | 62.7 | 83.8 | 100.0 | 106.1 | 111.8 | 109.6 | 123. | |
| Metals, Timber & Construction | | | | | | | | | |
| Materials | 711 | 78.2 | 89.6 | 100.0 | 143.1 | 142.8 | 141.9 | 131. | |
| General Wholesale Trade | 708 | 82.2 | 99.7 | 100.0 | 107.5 | 116.9 | 119.0 | 118. | |
| Ship Chandlers & Bunkering | 234 | 107.3 | 99.4 | 100.0 | 107.3 | 114.0 | 111.8 | 116. | |
| Transport Equipment | 230 | 82.1 | 80.1 | 100.0 | 95.6 | 89.0 | 88.1 | 84. | |
| Other Wholesale Trade | 1,088 | 86.1 | 92.2 | 100.0 | 114.5 | 117.1 | 116.3 | 110. | |

¹ The weights for the Foreign Wholesale Trade Index are computed based on the foreign wholesale sales contributions of the respective wholesale trade industries, using data obtained from the Annual Survey of Wholesale Trade for reference year 2011.

Download times series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=1958 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=1957

14.6 BUSINESS RECEIPTS INDEX FOR SERVICES INDUSTRIES (2014 = 100)

| | Weights ¹ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|---------------------------------------------|----------------------|------|------|-------|-------|-------|-------|-------|
| Total Services ² | 10,000 | 80.4 | 86.3 | 90.2 | 96.4 | 100.0 | 102.1 | 102.5 |
| Transport & Storage ³ | 1,440 | 87.6 | 91.8 | 95.7 | 97.7 | 100.0 | 100.9 | 98.1 |
| Information & Communications | 958 | 87.9 | 91.4 | 93.6 | 95.9 | 100.0 | 103.1 | 105.6 |
| Financial & Insurance | 2,694 | 72.2 | 79.9 | 82.9 | 93.6 | 100.0 | 107.6 | 108.0 |
| Business Services ⁴ | 3,422 | 80.3 | 86.3 | 90.3 | 97.8 | 100.0 | 99.0 | 99.0 |
| Education | 473 | 75.2 | 78.4 | 85.9 | 94.4 | 100.0 | 102.4 | 107.2 |
| Health & Social Services | 494 | 72.0 | 79.7 | 87.5 | 91.8 | 100.0 | 107.2 | 115.4 |
| Recreation & Personal Services ⁵ | 519 | 87.4 | 98.0 | 102.3 | 103.5 | 100.0 | 91.0 | 86.6 |

- 1 The weights for the Business Receipts Index series are computed based on the value added contributions of the respective industries, using data obtained from the Annual Survey of Services for reference year 2013.
- 2 Excludes wholesale & retail trade and accommodation & food services.
- 3 Comprises land transport, water transport, air transport, warehousing & support activities for transportation and post & courier activities.
- 4 Comprises real estate activities, professional, scientific & technical and office administrative & support service activities, e.g. legal & accounting activities, activities of head offices, management consultancy activities, architectural, engineering and technical activities, rental & leasing activities, employment activities, travel agencies and security activities.
- 5 Comprises arts, entertainment & recreation, membership organisations' activities (e.g. business and professional membership organisations, religious organisations and interest groups), repair of computers, personal, household goods & vehicles and other personal services activities.

15

International Trade

15 International Trade



Merchandise Trade





Since April 1987, Singapore's merchandise trade statistics are compiled bv International Enterprise Singapore (IE Singapore) from the following information submitted to Singapore Customs:

- i) Import and export permits submitted by traders or declaring agents;
- ii) Data on postal packages furnished by Singapore Post Limited; and
- iii) Statement on bunker fuel, aircraft supplied fuel and stores non-Singapore-registered ships and aircraft furnished by shipping and aircraft agents.

Prior to April 1987, merchandise trade statistics were compiled by the Singapore Department of Statistics from the same sources.

Coverage

The "general" system for recording merchandise trade statistics is adopted in Singapore. Under this system, all goods imported into or exported from Singapore are included in the merchandise trade statistics with the following major exceptions:

- i) Transhipment cargo on through bills of lading or through air waybills;
- Fish and other marine produce landed ii) by Singapore and Peninsular Malaysiaregistered vessels direct from sea;
- Goods imported and exported by, or iii) on behalf of, diplomatic services and armed forces;
- iv) Exposed cinematographic films imported or exported on a rental basis;

- v) Television news films, news ٥r press materials;
- Ships and aircraft arriving for or departing vi) after repairs;
- vii) Goods temporarily taken into or out of the country to be returned after a specific purpose, for example, for an exhibition;
- effects viii) Personal and household accompanying passengers or crews;
- Samples and specimens for test or ix) analysis; and unaccompanied personal effects and gifts not exceeding the value of \$400:
- Gold held as reserve assets that are x) exchanged between monetary authorities or authorised banks; and
- Issued currency notes and coins. xi)

Ships and aircraft are included if they are imported or exported as merchandise, whether or not they arrive or depart under their own power.

Definitions

Merchandise imports: Refers to all goods brought into Singapore, except those specified as excluded under the **Coverage** section, irrespective whether they are for consumption, for processing, for use in manufacturing, or for subsequent re-shipment to other countries.

Merchandise exports: Refers to all goods taken out of Singapore, except those specified as excluded under the **Coverage** section. It comprises domestic exports and re-exports.

Domestic Exports: Refers to exports of Singapore origin. It comprises (i) primary commodities grown or produced in Singapore and (ii) goods which have been transformed, that is, manufactured, assembled or processed in

International Trade



Singapore including those with imported materials or parts.

Re-exports: Refers to all goods which are exported from Singapore in the same form as they have been imported (including goods that have undergone minor processing, such as re-packing, splitting into lots, sorting or grading, marking and the like).

Merchandise Trade at Current Prices, 2016



Merchandise Trade at 2012 Prices: This is obtained by adjusting the recorded value of trade using import and export price indices with base year 2012. The series on trade at 2012 prices indicate the volume of trade after adjusting for the effect of price changes.

Valuation



Merchandise imports are valued at 'CIF' (Cost, Insurance and Freight), that is, the value of goods at the frontier of the exporting country plus the cost of insurance and freight and any other charges when sold for export to Singapore.

Merchandise exports are valued at 'FOB' (Free On Board), that is, the value of goods when sold abroad up to the point where the goods are deposited on board the outgoing vessel, aircraft or vehicle.

Classification <



With effect from 17 February 2012, the "Singapore Trade Classification, Customs and Excise Duties 2012" is adopted for the documentation of Singapore's merchandise trade. This classification adopts the ASEAN Harmonized Tariff Nomenclature 2012 (AHTN 2012) which

is based on the 6-digit Harmonized Commodity Description and Coding System (HS), developed by the World Customs Organization (WCO). However, for publication of merchandise trade statistics, the Standard International Trade Classification (SITC), Revision 4.1 is used from 1999 onwards and SITC, Revision 3 for years prior to 1999. Merchandise imports are classified by country of origin and exports by country of destination.

Trade in Services



The main source of Singapore's trade in services statistics is the International Trade in Services Survey.

Definitions



Exports of Services: Refers to the value of cross-border services provided by residents to non-residents.

Imports of Services: Refers to the value of cross-border services provided by non-residents to residents.

Trade in Services, 2016



Other References



Detailed monthly merchandise trade statistics are available in the "Singapore's External Trade" report published monthly by IE Singapore.

Detailed annual data on trade in services are available in the "Singapore's International Trade in Services" publication.

Aggregated services trade estimates are also released on a quarterly basis in the "Economic Survey of Singapore" published by the Ministry of Trade and Industry, as well as in IE Singapore's quarterly and annual reviews of trade performance.

15.1 MERCHANDISE TRADE BY TYPE

Million Dollars

| | Million Dollar | | | | | | | | | |
|-------------------------|-------------------|----------------|-------------|-------------|-------------|-------------|-------------|--|--|--|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | | |
| | At Current Prices | | | | | | | | | |
| Total Merchandise Trade | 907,036.0 | 991,558.8 | 1,001,544.0 | 1,011,077.9 | 1,004,650.0 | 915,218.8 | 870,216.2 | | | |
| Merchandise Exports | 480,709.5 | 523,270.6 | 519,354.1 | 525,507.2 | 526,067.4 | 491,816.1 | 466,911.6 | | | |
| Oil | 103,511.0 | 136,773.5 | 130,900.0 | 124,960.9 | 122,862.5 | 81,828.7 | 69,238.1 | | | |
| Non-oil | 377,198.5 | 386,497.1 | 388,454.1 | 400,546.2 | 403,204.9 | 409,987.4 | 397,673.5 | | | |
| Domestic Exports | 249,035.6 | 281,729.3 | 285,168.9 | 271,216.8 | 269,778.1 | 237,732.9 | 223,933.3 | | | |
| Oil | 75,011.1 | 103,953.8 | 106,814.4 | 106,476.0 | 106,986.4 | 72,503.6 | 63,374.5 | | | |
| Non-oil | 174,024.5 | 177,775.4 | 178,354.5 | 164,740.8 | 162,791.8 | 165,229.2 | 160,558.8 | | | |
| Re-exports | 231,673.9 | 241,541.3 | 234,185.3 | 254,290.4 | 256,289.3 | 254,083.3 | 242,978.4 | | | |
| Merchandise Imports | 426,326.6 | 468,288.2 | 482,189.8 | 485,570.7 | 478,582.6 | 423,402.6 | 403,304.6 | | | |
| Oil | 115,591.6 | 149,945.6 | 154,803.0 | 146,278.6 | 143,740.2 | 88,772.5 | 70,528.3 | | | |
| Non-oil | 310,735.0 | 318,342.6 | 327,386.9 | 339,292.1 | 334,842.4 | 334,630.2 | 332,776.3 | | | |
| | | At 2012 Prices | | | | | | | | |
| Total Merchandise Trade | 955,367.3 | 989,735.6 | 1,001,544.0 | 1,040,445.8 | 1,060,310.6 | 1,085,668.5 | 1,088,450.7 | | | |
| Merchandise Exports | 499,170.1 | 521,184.5 | 519,354.1 | 540,767.1 | 553,449.2 | 567,062.8 | 569,706.3 | | | |
| Oil | 135,889.0 | 140,180.6 | 130,900.0 | 131,938.4 | 138,523.4 | 147,063.9 | 152,642.2 | | | |
| Non-oil | 363,281.1 | 381,003.9 | 388,454.1 | 408,828.7 | 414,925.8 | 419,998.9 | 417,064.1 | | | |
| Domestic Exports | 264,328.6 | 281,144.9 | 285,168.9 | 280,371.2 | 287,719.4 | 296,487.0 | 306,737.0 | | | |
| Oil | 98,366.8 | 106,415.3 | 106,814.4 | 112,620.3 | 120,731.2 | 128,956.8 | 138,438.9 | | | |
| Non-oil | 165,961.8 | 174,729.6 | 178,354.5 | 167,750.9 | 166,988.1 | 167,530.2 | 168,298.0 | | | |
| Re-exports | 234,841.5 | 240,039.6 | 234,185.3 | 260,395.9 | 265,729.9 | 270,575.8 | 262,969.4 | | | |
| Merchandise Imports | 456,197.2 | 468,551.1 | 482,189.8 | 499,678.7 | 506,861.4 | 518,605.7 | 518,744.3 | | | |
| Oil | 152,074.7 | 153,988.0 | 154,803.0 | 152,752.4 | 161,982.0 | 171,405.4 | 165,362.9 | | | |
| Non-oil | 304,122.5 | 314,563.1 | 327,386.9 | 346,926.2 | 344,879.3 | 347,200.3 | 353,381.4 | | | |

Source: International Enterprise Singapore

 $Download\ time\ series\ at\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=4708$ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=4712

15.2 TOTAL MERCHANDISE TRADE BY REGION/COUNTRY

Million Dollars

| | | | | | | | Million Dollars |
|-----------------------------|-----------|-----------|-------------|-------------|-------------|-----------|-----------------|
| Region / Country | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 907,036.0 | 991,558.8 | 1,001,544.0 | 1,011,077.9 | 1,004,650.0 | 915,218.8 | 870,216.2 |
| America | 109,679.7 | 117,255.2 | 115,371.6 | 119,467.7 | 114,015.5 | 102,863.0 | 95,623.6 |
| Brazil | 3,748.2 | 4,164.7 | 4,281.0 | 5,552.6 | 4,843.5 | 3,523.7 | 2,742.5 |
| Canada | 3,418.4 | 3,173.2 | 3,048.4 | 3,635.7 | 2,969.4 | 2,867.6 | 2,922.2 |
| United States | 78,390.8 | 75,869.6 | 75,339.5 | 76,987.9 | 75,762.3 | 75,733.0 | 72,414.2 |
| Asia | 638,096.3 | 696,891.9 | 705,894.8 | 712,566.5 | 708,864.5 | 653,178.6 | 623,042.1 |
| Bahrain | 424.2 | 337.0 | 596.0 | 696.8 | 601.7 | 426.6 | 338.7 |
| Bangladesh | 2,396.0 | 2,989.1 | 2,745.8 | 3,391.1 | 4,445.5 | 3,515.9 | 3,919.8 |
| Brunei Darussalam | 1,465.4 | 2,226.0 | 1,708.8 | 1,513.9 | 1,411.1 | 1,257.6 | 1,173.7 |
| Cambodia | 3,509.3 | 4,897.8 | 3,434.8 | 8,469.0 | 4,978.8 | 5,169.9 | 5,280.7 |
| China | 95,335.1 | 101,748.1 | 104,905.7 | 116,664.7 | 125,546.7 | 128,569.6 | 117,198.4 |
| Hong Kong | 60,826.1 | 60,752.8 | 61,804.1 | 62,126.3 | 62,426.4 | 61,571.3 | 64,192.6 |
| India | 30,814.7 | 35,774.3 | 30,980.1 | 25,745.8 | 25,039.1 | 23,027.2 | 22,011.7 |
| Indonesia | 68,865.5 | 81,555.8 | 81,866.1 | 78,924.6 | 72,857.4 | 61,561.0 | 56,057.2 |
| Japan | 55,868.0 | 57,062.7 | 52,559.7 | 47,914.8 | 47,000.1 | 47,383.1 | 49,527.5 |
| Korea, Republic of | 44,274.5 | 47,122.8 | 53,120.6 | 50,964.6 | 48,771.2 | 45,067.1 | 43,564.1 |
| Kuwait | 3,852.3 | 4,700.6 | 6,214.3 | 4,724.0 | 4,575.7 | 3,909.3 | 3,602.7 |
| Laos | 35.1 | 44.2 | 44.3 | 40.2 | 62.5 | 127.2 | 71.8 |
| Malaysia | 107,266.8 | 113,347.6 | 115,031.5 | 116,091.4 | 112,931.3 | 98,577.7 | 93,749.4 |
| Myanmar | 1,690.7 | 1,633.1 | 1,772.4 | 3,039.4 | 3,238.0 | 3,546.3 | 3,320.6 |
| Pakistan | 1,715.5 | 2,460.4 | 1,201.1 | 1,426.5 | 1,725.4 | 1,804.1 | 1,190.3 |
| Philippines | 22,298.1 | 16,299.5 | 15,467.3 | 14,745.0 | 15,025.4 | 15,053.3 | 15,472.5 |
| Saudi Arabia | 16,406.6 | 23,263.1 | 23,016.8 | 17,639.8 | 20,113.7 | 12,316.9 | 12,312.9 |
| Sri Lanka | 1,765.1 | 1,917.3 | 2,099.7 | 2,654.7 | 2,372.0 | 2,081.1 | 2,133.6 |
| Taiwan | 42,697.2 | 45,700.4 | 49,677.4 | 55,500.1 | 58,528.5 | 53,909.6 | 52,533.8 |
| Thailand | 31,289.1 | 32,072.4 | 32,679.7 | 30,873.4 | 30,774.7 | 30,381.6 | 28,973.4 |
| United Arab Emirates | 14,198.6 | 21,816.7 | 26,805.3 | 30,182.5 | 27,851.3 | 19,355.6 | 15,532.5 |
| Viet Nam | 12,254.1 | 14,832.8 | 15,411.6 | 16,754.7 | 19,532.1 | 21,599.5 | 19,828.1 |
| Europe | 116,878.1 | 127,587.3 | 126,905.2 | 127,524.1 | 125,310.7 | 116,237.6 | 117,229.2 |
| France | 17,649.5 | 18,352.5 | 19,158.3 | 15,421.9 | 14,494.7 | 14,187.9 | 15,972.0 |
| Germany | 20,499.8 | 21,486.7 | 20,645.3 | 20,916.6 | 20,310.9 | 19,931.5 | 19,974.4 |
| Italy | 4,762.3 | 5,699.5 | 5,478.6 | 5,843.5 | 6,148.2 | 5,654.5 | 5,984.3 |
| Netherlands | 15,667.6 | 18,249.1 | 18,677.9 | 15,188.1 | 15,191.5 | 14,150.3 | 14,755.6 |
| Sweden | 2,067.8 | 2,009.5 | 1,848.4 | 1,671.8 | 1,578.9 | 1,788.9 | 1,577.4 |
| United Kingdom | 15,937.5 | 15,926.4 | 16,495.0 | 14,308.5 | 12,416.9 | 12,142.2 | 11,500.8 |
| Switzerland | 8,452.5 | 11,981.7 | 11,684.4 | 18,790.8 | 14,824.9 | 14,512.9 | 15,687.9 |
| Oceania | 30,364.5 | 35,984.9 | 39,243.1 | 36,489.3 | 40,584.8 | 31,284.1 | 25,480.3 |
| Australia | 22,405.0 | 25,323.3 | 28,161.5 | 26,158.3 | 29,487.3 | 22,915.6 | 18,181.9 |
| New Zealand | 3,106.4 | 3,926.3 | 3,480.9 | 3,408.0 | 3,949.7 | 3,363.4 | 2,834.1 |
| Africa | 12,017.4 | 13,839.5 | 14,129.3 | 15,030.3 | 15,874.6 | 11,655.5 | 8,841.0 |
| European Union ¹ | 99,474.6 | 106,093.2 | 105,417.0 | 96,670.3 | 95,916.7 | 90,831.8 | 93,181.8 |

Source: International Enterprise Singapore

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¹ The European Union (EU) comprises Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Rep, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovak Rep, Slovenia, Spain, Sweden and the United Kingdom.

15.3 MERCHANDISE IMPORTS BY REGION/COUNTRY

| | | | | | | Million Dollars | | | |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------------|-----------|--|--|
| Region / Country | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | |
| Total | 426,326.6 | 468,288.2 | 482,189.8 | 485,570.7 | 478,582.6 | 423,402.6 | 403,304.6 | | |
| America | 59,735.8 | 63,804.9 | 63,758.6 | 66,237.4 | 64,816.4 | 56,281.2 | 51,683.4 | | |
| Brazil | 1,759.7 | 2,410.6 | 2,555.2 | 2,131.1 | 2,822.4 | 1,950.9 | 1,539.5 | | |
| Canada | 1,436.9 | 1,408.1 | 1,555.9 | 1,619.7 | 1,732.6 | 1,839.4 | 1,895.3 | | |
| United States | 47,519.4 | 48,424.8 | 48,157.2 | 48,399.2 | 48,278.4 | 45,886.6 | 42,580.6 | | |
| Asia | 292,357.1 | 321,159.1 | 331,756.9 | 324,310.2 | 317,895.6 | 282,351.6 | 273,037.3 | | |
| Bahrain | 300.0 | 238.7 | 468.2 | 571.3 | 416.0 | 272.1 | 197.4 | | |
| Bangladesh | 78.1 | 134.7 | 131.8 | 154.6 | 167.7 | 209.3 | 300.2 | | |
| Brunei Darussalam | 178.1 | 244.7 | 164.0 | 69.2 | 293.4 | 189.4 | 114.2 | | |
| Cambodia | 217.4 | 259.3 | 723.2 | 228.8 | 344.2 | 219.9 | 1,840.8 | | |
| China | 45,852.9 | 48,083.7 | 49,604.0 | 55,017.4 | 56,284.5 | 57,915.3 | 55,945.8 | | |
| Hong Kong | 4,659.7 | 4,121.5 | 3,932.1 | 4,484.7 | 4,419.4 | 5,057.7 | 4,446.4 | | |
| India | 12,566.1 | 17,771.2 | 16,214.5 | 11,416.2 | 10,480.6 | 7,921.8 | 8,151.2 | | |
| Indonesia | 23,185.7 | 24,576.2 | 25,639.6 | 24,320.1 | 24,131.3 | 20,873.1 | 19,334.8 | | |
| Japan | 33,535.9 | 33,967.5 | 29,963.9 | 25,917.1 | 25,792.8 | 26,377.8 | 29,416.4 | | |
| Korea, Republic of | 24,726.8 | 27,664.1 | 32,407.4 | 30,167.3 | 27,633.3 | 25,165.9 | 23,510.4 | | |
| Kuwait | 3,607.0 | 4,515.2 | 5,991.3 | 4,325.1 | 4,326.4 | 3,667.5 | 3,326.7 | | |
| Laos | 3.8 | 0.6 | 6.8 | 7.2 | 19.6 | 18.3 | 7.4 | | |
| Malaysia | 49,610.8 | 49,242.3 | 50,592.2 | 51,150.7 | 49,472.0 | 45,439.7 | 44,536.6 | | |
| Myanmar | 112.9 | 108.0 | 98.8 | 224.3 | 203.1 | 172.6 | 174.5 | | |
| Pakistan | 123.6 | 95.4 | 81.0 | 150.2 | 245.1 | 319.5 | 106.3 | | |
| Philippines | 12,522.8 | 7,793.2 | 7,546.8 | 6,366.1 | 6,324.6 | 6,237.6 | 6,484.2 | | |
| Saudi Arabia | 15,297.1 | 22,163.5 | 21,508.6 | 16,095.0 | 18,504.3 | 10,957.7 | 11,228.4 | | |
| Sri Lanka | 134.4 | 216.1 | 105.5 | 177.2 | 138.7 | 146.3 | 132.0 | | |
| Taiwan | 25,255.7 | 27,344.4 | 31,619.2 | 36,357.8 | 38,089.8 | 34,065.9 | 32,184.5 | | |
| Thailand | 14,000.5 | 14,317.7 | 12,669.5 | 11,642.9 | 11,107.2 | 11,033.9 | 9,962.1 | | |
| United Arab Emirates | 8,984.5 | 15,835.2 | 20,890.4 | 23,095.7 | 20,163.0 | 11,898.0 | 9,899.5 | | |
| Viet Nam | 2,193.0 | 2,084.6 | 2,806.7 | 3,825.8 | 4,052.2 | 4,943.1 | 4,148.1 | | |
| Europe | 66,603.5 | 75,301.8 | 76,407.8 | 83,707.1 | 80,390.1 | 73,653.4 | 68,789.2 | | |
| France | 10,118.8 | 10,662.5 | 11,343.5 | 10,123.8 | 10,254.8 | 10,035.6 | 11,809.7 | | |
| Germany | 12,129.8 | 13,078.0 | 13,203.6 | 13,607.0 | 13,486.6 | 12,307.2 | 12,054.5 | | |
| Italy | 3,830.1 | 4,475.8 | 4,473.9 | 4,913.9 | 5,242.2 | 4,863.3 | 5,101.1 | | |
| Netherlands | 7,279.8 | 8,761.7 | 9,799.8 | 7,156.2 | 5,959.1 | 5,635.7 | 5,219.2 | | |
| Sweden | 1,674.3 | 1,632.7 | 1,614.2 | 1,521.1 | 1,417.7 | 1,599.9 | 1,352.3 | | |
| United Kingdom | 7,603.9 | 7,598.7 | 8,779.2 | 9,990.0 | 7,850.8 | 7,895.0 | 7,426.7 | | |
| Switzerland | 6,868.3 | 10,635.3 | 8,880.7 | 16,909.6 | 12,538.8 | 12,107.2 | 10,764.7 | | |
| Oceania | 6,142.9 | 6,494.0 | 7,934.8 | 7,877.1 | 11,123.0 | 8,367.4 | 6,435.6 | | |
| Australia | 5,255.9 | 5,112.6 | 6,899.7 | 6,725.9 | 9,918.7 | 7,063.2 | 5,240.9 | | |
| New Zealand | 783.9 | 1,253.2 | 872.5 | 1,062.5 | 1,125.2 | 989.9 | 824.8 | | |
| Africa | 1,487.4 | 1,528.3 | 2,331.8 | 3,438.9 | 4,357.6 | 2,749.0 | 3,359.0 | | |
| European Union ¹ | 52,276.8 | 57,932.0 | 59,658.7 | 57,760.9 | 55,441.8 | 52,162.7 | 53,059.5 | | |

Source: International Enterprise Singapore

¹ The European Union (EU) comprises Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Rep, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovak Rep, Slovenia, Spain, Sweden and the United Kingdom.

15.4 MERCHANDISE EXPORTS BY REGION/COUNTRY

| <u> </u> | | | | | | | Million Dollars |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| Region / Country | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 480,709.5 | 523,270.6 | 519,354.1 | 525,507.2 | 526,067.4 | 491,816.1 | 466,911.6 |
| America | 49,943.9 | 53,450.3 | 51,613.0 | 53,230.3 | 49,199.1 | 46,581.8 | 43,940.2 |
| Brazil | 1,988.5 | 1,754.1 | 1,725.8 | 3,421.6 | 2,021.1 | 1,572.8 | 1,203.0 |
| Canada | 1,981.5 | 1,765.1 | 1,492.5 | 2,016.1 | 1,236.8 | 1,028.1 | 1,026.9 |
| United States | 30,871.4 | 27,444.8 | 27,182.3 | 28,588.7 | 27,484.0 | 29,846.3 | 29,833.7 |
| Asia | 345,739.3 | 375,732.8 | 374,137.9 | 388,256.3 | 390,968.9 | 370,827.0 | 350,004.7 |
| Bahrain | 124.2 | 98.3 | 127.8 | 125.6 | 185.8 | 154.5 | 141.2 |
| Bangladesh | 2,317.9 | 2,854.3 | 2,614.0 | 3,236.5 | 4,277.8 | 3,306.6 | 3,619.6 |
| Brunei Darussalam | 1,287.4 | 1,981.2 | 1,544.8 | 1,444.7 | 1,117.6 | 1,068.2 | 1,059.5 |
| Cambodia | 3,291.9 | 4,638.4 | 2,711.6 | 8,240.2 | 4,634.6 | 4,950.1 | 3,439.9 |
| China | 49,482.2 | 53,664.4 | 55,301.7 | 61,647.2 | 69,262.2 | 70,654.3 | 61,252.5 |
| Hong Kong | 56,166.4 | 56,631.3 | 57,872.0 | 57,641.6 | 58,007.0 | 56,513.6 | 59,746.2 |
| India | 18,248.6 | 18,003.0 | 14,765.6 | 14,329.5 | 14,558.4 | 15,105.4 | 13,860.5 |
| Indonesia | 45,679.8 | 56,979.7 | 56,226.5 | 54,604.4 | 48,726.0 | 40,687.8 | 36,722.4 |
| Japan | 22,332.1 | 23,095.2 | 22,595.8 | 21,997.7 | 21,207.2 | 21,005.3 | 20,111.1 |
| Korea, Republic of | 19,547.7 | 19,458.7 | 20,713.2 | 20,797.3 | 21,137.9 | 19,901.3 | 20,053.8 |
| Kuwait | 245.3 | 185.3 | 223.0 | 399.0 | 249.3 | 241.7 | 275.9 |
| Laos | 31.3 | 43.6 | 37.6 | 33.0 | 42.9 | 108.9 | 64.4 |
| Malaysia | 57,656.0 | 64,105.3 | 64,439.3 | 64,940.6 | 63,459.3 | 53,138.0 | 49,212.8 |
| Myanmar | 1,577.7 | 1,525.2 | 1,673.6 | 2,815.1 | 3,034.8 | 3,373.7 | 3,146.1 |
| Pakistan | 1,591.9 | 2,365.0 | 1,120.1 | 1,276.3 | 1,480.2 | 1,484.6 | 1,084.0 |
| Philippines | 9,775.3 | 8,506.2 | 7,920.4 | 8,378.9 | 8,700.9 | 8,815.7 | 8,988.2 |
| Saudi Arabia | 1,109.6 | 1,099.6 | 1,508.2 | 1,544.8 | 1,609.4 | 1,359.2 | 1,084.5 |
| Sri Lanka | 1,630.6 | 1,701.3 | 1,994.1 | 2,477.5 | 2,233.3 | 1,934.9 | 2,001.7 |
| Taiwan | 17,441.5 | 18,356.0 | 18,058.2 | 19,142.3 | 20,438.7 | 19,843.7 | 20,349.3 |
| Thailand | 17,288.6 | 17,754.7 | 20,010.1 | 19,230.5 | 19,667.5 | 19,347.6 | 19,011.4 |
| United Arab Emirates | 5,214.1 | 5,981.5 | 5,914.9 | 7,086.7 | 7,688.3 | 7,457.6 | 5,633.0 |
| Viet Nam | 10,061.1 | 12,748.2 | 12,604.8 | 12,928.9 | 15,479.8 | 16,656.4 | 15,680.0 |
| Europe | 50,274.6 | 52,285.5 | 50,497.3 | 43,816.9 | 44,920.7 | 42,584.2 | 48,440.0 |
| France | 7,530.6 | 7,690.0 | 7,814.8 | 5,298.1 | 4,239.9 | 4,152.3 | 4,162.3 |
| Germany | 8,370.0 | 8,408.7 | 7,441.8 | 7,309.7 | 6,824.4 | 7,624.3 | 7,919.9 |
| Italy | 932.1 | 1,223.7 | 1,004.7 | 929.6 | 906.0 | 791.2 | 883.2 |
| Netherlands | 8,387.8 | 9,487.4 | 8,878.1 | 8,031.9 | 9,232.3 | 8,514.6 | 9,536.4 |
| Sweden | 393.5 | 376.8 | 234.2 | 150.8 | 161.2 | 189.0 | 225.1 |
| United Kingdom | 8,333.6 | 8,327.8 | 7,715.8 | 4,318.5 | 4,566.1 | 4,247.2 | 4,074.0 |
| Switzerland | 1,584.2 | 1,346.4 | 2,803.7 | 1,881.2 | 2,286.1 | 2,405.6 | 4,923.2 |
| Oceania | 24,221.7 | 29,490.9 | 31,308.4 | 28,612.3 | 29,461.8 | 22,916.7 | 19,044.7 |
| Australia | 17,149.1 | 20,210.8 | 21,261.8 | 19,432.3 | 19,568.7 | 15,852.3 | 12,941.0 |
| New Zealand | 2,322.5 | 2,673.1 | 2,608.4 | 2,345.5 | 2,824.5 | 2,373.5 | 2,009.4 |
| Africa | 10,530.0 | 12,311.1 | 11,797.5 | 11,591.4 | 11,517.0 | 8,906.4 | 5,482.0 |
| European Union ¹ | 47,197.8 | 48,161.2 | 45,758.3 | 38,909.4 | 40,474.9 | 38,669.1 | 40,122.3 |

Source: International Enterprise Singapore

¹ The European Union (EU) comprises Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Rep, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovak Rep, Slovenia, Spain, Sweden and the United Kingdom.

15.5 DOMESTIC EXPORTS BY REGION/COUNTRY

| | | | | | | | Million Dollars |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| Region / Country | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 249,035.6 | 281,729.3 | 285,168.9 | 271,216.8 | 269,778.1 | 237,732.9 | 223,933.3 |
| America | 36,358.2 | 40,392.0 | 38,748.9 | 36,257.8 | 33,989.0 | 30,309.4 | 27,215.6 |
| Brazil | 1,243.2 | 851.8 | 904.4 | 885.4 | 838.2 | 563.6 | 387.1 |
| Canada | 1,430.6 | 1,056.5 | 942.1 | 921.6 | 767.4 | 574.7 | 500.0 |
| United States | 19,697.5 | 17,339.6 | 17,156.3 | 16,471.2 | 15,375.3 | 16,573.5 | 16,132.8 |
| Asia | 155,337.7 | 175,014.6 | 179,367.8 | 177,387.7 | 179,302.6 | 161,415.4 | 152,904.4 |
| Bahrain | 53.1 | 36.1 | 41.3 | 59.2 | 73.2 | 82.9 | 86.4 |
| Bangladesh | 920.9 | 1,113.1 | 1,096.6 | 1,611.0 | 2,062.1 | 1,495.5 | 1,589.6 |
| Brunei Darussalam | 481.2 | 1,192.4 | 709.3 | 550.7 | 390.2 | 481.9 | 489.7 |
| Cambodia | 542.7 | 580.5 | 621.6 | 1,085.4 | 1,037.5 | 986.5 | 773.0 |
| China | 24,032.9 | 28,461.5 | 29,400.7 | 30,573.6 | 32,680.0 | 31,229.8 | 28,732.8 |
| Hong Kong | 25,718.3 | 26,186.3 | 26,534.5 | 25,336.0 | 19,575.2 | 17,608.9 | 19,272.5 |
| India | 7,712.8 | 8,461.2 | 6,268.1 | 6,389.3 | 6,720.5 | 7,024.3 | 6,187.9 |
| Indonesia | 16,315.6 | 20,226.2 | 22,243.0 | 22,782.4 | 23,804.7 | 18,246.8 | 16,251.3 |
| Japan | 11,806.4 | 12,279.9 | 12,047.3 | 10,554.8 | 10,021.1 | 10,033.1 | 9,173.8 |
| Korea, Republic of | 8,644.3 | 8,971.4 | 10,776.5 | 8,783.7 | 9,036.4 | 7,846.9 | 7,469.5 |
| Kuwait | 105.9 | 73.3 | 123.7 | 112.8 | 119.9 | 132.7 | 151.1 |
| Laos | 4.7 | 7.7 | 2.7 | 5.7 | 8.4 | 14.7 | 8.9 |
| Malaysia | 25,417.2 | 32,004.4 | 32,365.0 | 31,917.7 | 33,572.2 | 26,408.3 | 24,164.9 |
| Myanmar | 806.6 | 674.7 | 758.7 | 1,549.1 | 1,555.8 | 1,813.0 | 1,781.4 |
| Pakistan | 709.4 | 1,152.1 | 455.0 | 534.5 | 786.5 | 734.7 | 428.9 |
| Philippines | 5,488.8 | 4,283.4 | 3,919.7 | 3,880.0 | 4,094.7 | 4,103.0 | 4,074.6 |
| Saudi Arabia | 650.8 | 593.3 | 1,034.6 | 697.1 | 1,040.9 | 918.9 | 744.4 |
| Sri Lanka | 576.7 | 826.6 | 977.3 | 964.8 | 1,297.1 | 1,065.7 | 1,020.5 |
| Taiwan | 10,061.3 | 10,263.4 | 10,993.6 | 11,222.1 | 11,879.1 | 10,257.3 | 11,177.2 |
| Thailand | 7,755.8 | 8,071.2 | 8,717.7 | 8,192.5 | 8,677.8 | 8,488.9 | 8,261.6 |
| United Arab Emirates | 1,912.8 | 2,418.3 | 2,521.5 | 3,161.0 | 2,726.0 | 3,364.7 | 2,592.6 |
| Viet Nam | 3,889.4 | 5,360.1 | 5,558.9 | 5,460.1 | 6,437.7 | 7,327.7 | 6,856.4 |
| Europe | 34,326.3 | 37,205.5 | 36,607.6 | 28,901.5 | 28,281.1 | 25,594.0 | 28,815.5 |
| France | 4,998.0 | 5,384.3 | 5,786.1 | 2,938.5 | 2,442.4 | 2,191.5 | 1,937.0 |
| Germany | 4,868.0 | 4,955.6 | 4,302.8 | 3,864.7 | 2,847.9 | 2,639.0 | 2,514.1 |
| Italy | 625.2 | 713.1 | 720.5 | 623.5 | 555.6 | 493.5 | 449.1 |
| Netherlands | 4,988.7 | 5,882.9 | 5,912.9 | 4,776.8 | 5,058.5 | 5,033.0 | 5,460.0 |
| Sweden | 285.1 | 230.3 | 123.2 | 106.3 | 115.4 | 123.5 | 147.6 |
| United Kingdom | 6,358.2 | 6,616.4 | 5,758.6 | 2,362.1 | 2,532.2 | 2,189.1 | 1,836.8 |
| Switzerland | 858.5 | 885.6 | 1,913.6 | 1,037.7 | 1,297.3 | 1,186.5 | 3,249.0 |
| Oceania | 16,048.6 | 20,267.8 | 21,585.6 | 20,278.2 | 19,629.8 | 13,881.9 | 10,926.6 |
| Australia | 10,412.0 | 12,915.5 | 13,982.6 | 12,975.6 | 12,021.4 | 8,467.4 | 6,224.7 |
| New Zealand | 1,722.0 | 1,934.0 | 1,750.8 | 1,554.9 | 1,990.0 | 1,478.6 | 1,219.7 |
| Africa | 6,964.8 | 8,849.5 | 8,858.9 | 8,391.7 | 8,575.6 | 6,532.1 | 4,071.3 |
| European Union ¹ | 32,512.7 | 34,038.1 | 33,275.9 | 25,397.5 | 25,464.6 | 23,355.1 | 23,023.0 |

Source: International Enterprise Singapore

¹ The European Union (EU) comprises Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Rep, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovak Rep, Slovenia, Spain, Sweden and the United Kingdom.

15.6 NON-OIL DOMESTIC EXPORTS BY REGION/COUNTRY

| | | | | | | Willion Dollars | | | |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------------|-----------|--|--|
| Region / Country | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | |
| Total | 174,024.5 | 177,775.4 | 178,354.5 | 164,740.8 | 162,791.8 | 165,229.2 | 160,558.8 | | |
| America | 25,616.3 | 26,677.0 | 24,369.8 | 21,496.5 | 21,301.6 | 22,210.7 | 20,646.0 | | |
| Brazil | 1,190.1 | 813.4 | 866.9 | 810.6 | 836.0 | 562.3 | 381.9 | | |
| Canada | 1,290.6 | 951.8 | 664.4 | 712.0 | 564.0 | 449.1 | 419.4 | | |
| United States | 19,037.2 | 16,635.0 | 16,377.7 | 14,685.3 | 14,374.8 | 15,313.2 | 14,906.8 | | |
| Asia | 113,702.4 | 114,509.8 | 118,155.6 | 115,048.8 | 114,489.2 | 115,603.6 | 110,737.1 | | |
| Bahrain | 45.3 | 32.6 | 35.0 | 40.7 | 57.2 | 76.7 | 84.8 | | |
| Bangladesh | 473.5 | 465.1 | 381.2 | 519.2 | 664.6 | 683.9 | 598.1 | | |
| Brunei Darussalam | 398.8 | 974.5 | 469.0 | 499.1 | 365.3 | 356.3 | 252.7 | | |
| Cambodia | 84.9 | 125.7 | 141.5 | 536.2 | 461.3 | 693.5 | 439.6 | | |
| China | 19,254.1 | 20,626.5 | 21,209.7 | 23,553.7 | 25,743.4 | 25,981.5 | 24,228.0 | | |
| Hong Kong | 16,582.0 | 14,470.3 | 16,102.9 | 14,948.8 | 11,712.6 | 12,064.8 | 14,453.3 | | |
| India | 5,358.0 | 5,740.9 | 5,211.7 | 5,579.9 | 5,760.6 | 5,887.3 | 5,323.4 | | |
| Indonesia | 11,162.8 | 11,100.0 | 11,726.6 | 10,642.1 | 10,202.3 | 9,305.0 | 8,270.8 | | |
| Japan | 10,586.2 | 10,767.2 | 11,012.9 | 9,900.6 | 9,204.0 | 9,151.3 | 8,391.3 | | |
| Korea, Republic of | 7,964.4 | 7,746.1 | 8,672.7 | 6,477.5 | 6,189.9 | 6,402.4 | 6,255.2 | | |
| Kuwait | 86.3 | 67.1 | 113.3 | 86.8 | 86.6 | 128.5 | 147.5 | | |
| Laos | 4.7 | 7.7 | 2.7 | 5.7 | 8.4 | 14.1 | 8.4 | | |
| Malaysia | 14,903.4 | 14,880.6 | 14,034.6 | 12,807.9 | 13,657.0 | 13,179.4 | 12,517.7 | | |
| Myanmar | 293.8 | 367.7 | 380.8 | 853.0 | 571.7 | 584.9 | 418.7 | | |
| Pakistan | 423.7 | 388.1 | 349.3 | 366.3 | 353.7 | 374.1 | 345.5 | | |
| Philippines | 3,382.4 | 3,082.6 | 2,794.6 | 2,747.7 | 3,098.7 | 3,056.1 | 3,135.0 | | |
| Saudi Arabia | 448.4 | 564.2 | 894.5 | 599.7 | 865.2 | 840.7 | 627.1 | | |
| Sri Lanka | 301.5 | 315.2 | 286.0 | 274.1 | 281.3 | 341.1 | 310.5 | | |
| Taiwan | 9,626.3 | 9,564.0 | 10,394.0 | 10,495.0 | 10,990.6 | 9,901.3 | 10,379.3 | | |
| Thailand | 7,059.7 | 7,127.3 | 7,640.8 | 7,127.7 | 7,085.6 | 7,569.0 | 7,008.7 | | |
| United Arab Emirates | 1,753.2 | 1,968.4 | 2,150.8 | 2,580.1 | 2,324.2 | 3,029.4 | 2,228.3 | | |
| Viet Nam | 2,177.7 | 2,677.9 | 2,748.8 | 3,034.8 | 3,382.7 | 4,436.7 | 3,842.4 | | |
| Europe | 28,013.5 | 29,094.5 | 28,111.9 | 21,648.0 | 20,174.0 | 20,831.3 | 24,126.7 | | |
| France | 4,782.4 | 5,186.9 | 5,598.8 | 2,775.2 | 2,323.1 | 2,118.0 | 1,883.1 | | |
| Germany | 3,972.7 | 4,004.7 | 3,623.1 | 3,199.8 | 2,236.3 | 2,356.5 | 2,298.8 | | |
| Italy | 302.6 | 332.9 | 288.8 | 322.1 | 298.5 | 366.8 | 346.6 | | |
| Netherlands | 4,679.6 | 5,035.8 | 4,283.2 | 4,304.5 | 4,704.9 | 4,472.0 | 4,314.6 | | |
| Sweden | 264.3 | 199.6 | 98.2 | 70.9 | 91.0 | 112.6 | 143.9 | | |
| United Kingdom | 5,085.1 | 5,070.2 | 4,881.4 | 1,496.6 | 1,741.1 | 1,858.2 | 1,560.7 | | |
| Switzerland | 834.1 | 855.9 | 1,882.0 | 1,012.7 | 1,264.6 | 1,167.1 | 3,228.2 | | |
| Oceania | 5,272.5 | 5,754.9 | 5,650.0 | 5,113.2 | 5,446.2 | 5,417.5 | 4,051.6 | | |
| Australia | 4,461.6 | 4,883.4 | 4,727.2 | 4,155.9 | 4,267.7 | 4,422.2 | 3,227.9 | | |
| New Zealand | 655.6 | 652.3 | 620.0 | 654.7 | 909.8 | 741.4 | 591.5 | | |
| Africa | 1,419.8 | 1,739.3 | 2,067.1 | 1,434.2 | 1,380.7 | 1,166.1 | 997.4 | | |
| European Union ¹ | 26,871.1 | 26,917.9 | 25,890.5 | 19,300.5 | 18,526.3 | 19,300.3 | 18,884.1 | | |

Source: International Enterprise Singapore

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¹ The European Union (EU) comprises Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Rep, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovak Rep, Slovenia, Spain, Sweden and the United Kingdom.

15.7 MERCHANDISE IMPORTS BY COMMODITY SECTION

| | | | | | | Million Dollars | | |
|--------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------------|-----------|--|
| Commodity Section | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | |
| Total | 426,326.6 | 468,288.2 | 482,189.8 | 485,570.7 | 478,582.6 | 423,402.6 | 403,304.6 | |
| Food | 9,290.3 | 10,295.7 | 10,035.6 | 10,590.7 | 11,353.5 | 11,254.1 | 10,780.8 | |
| Coffee, tea, cocoa, spices & manufactures | 1,173.3 | 1,410.3 | 1,282.5 | 1,248.2 | 1,525.2 | 1,568.5 | 1,394.9 | |
| Fish, seafood (excl marine mammals) & | | | | | | | | |
| preparations | 1,295.7 | 1,435.8 | 1,316.8 | 1,318.5 | 1,387.0 | 1,482.4 | 1,533.8 | |
| Vegetables & fruits | 1,523.1 | 1,665.6 | 1,723.5 | 1,874.4 | 2,012.9 | 2,148.5 | 2,239.7 | |
| Beverages & Tobacco | 3,067.8 | 3,678.7 | 4,015.4 | 4,490.4 | 4,399.2 | 4,368.1 | 4,427.3 | |
| Beverages | 2,333.4 | 2,849.0 | 3,070.6 | 3,475.8 | 3,361.0 | 3,233.9 | 3,219.1 | |
| Tobacco & manufactures | 734.5 | 829.7 | 944.9 | 1,014.6 | 1,038.3 | 1,134.3 | 1,208.2 | |
| Crude Materials | 3,003.9 | 3,726.0 | 3,881.3 | 4,203.9 | 3,615.3 | 3,369.0 | 3,204.5 | |
| Metalliferous ores & metal scrap | 439.9 | 804.8 | 906.1 | 758.9 | 635.9 | 472.8 | 390.2 | |
| Crude rubber | 688.1 | 902.4 | 716.8 | 517.8 | 377.7 | 653.0 | 627.4 | |
| Crude fertilizers & minerals | | | | | | | | |
| (excl coal petroleum & precious stones) | 1,031.0 | 1,070.2 | 1,113.9 | 1,625.3 | 1,295.3 | 970.8 | 880.3 | |
| Crude animal & vegetable materials nes | 327.1 | 394.6 | 398.0 | 474.3 | 457.0 | 444.7 | 441.2 | |
| Mineral Fuels & Lubricants | 115,591.6 | 149,945.6 | 154,803.0 | 146,278.6 | 143,740.2 | 88,772.5 | 70,528.3 | |
| Petroleum & products & related materials | 110,815.7 | 143,796.5 | 147,140.8 | 138,063.8 | 135,273.8 | 83,754.9 | 66,717.0 | |
| Animal & Vegetable Oils | 842.8 | 1,481.2 | 1,742.7 | 1,425.3 | 1,346.1 | 1,080.4 | 1,302.8 | |
| Fixed vegetable fats & oils, crude, | | | | | | | | |
| refined or fractionated | 759.8 | 1,242.9 | 1,416.8 | 877.4 | 823.9 | 625.5 | 586.8 | |
| Animal or vegetable fats & oils ¹ nes | 68.8 | 41.3 | 47.9 | 43.4 | 67.0 | 78.9 | 169.8 | |
| Chemicals & Chemical Products | 28,629.7 | 31,882.1 | 32,402.5 | 31,887.6 | 32,812.2 | 31,463.9 | 32,136.5 | |
| Organic chemicals | 7,603.8 | 8,523.5 | 8,791.9 | 9,361.5 | 9,593.1 | 8,331.9 | 8,066.3 | |
| Plastics in primary forms | 5,275.8 | 6,459.6 | 6,865.7 | 5,709.0 | 6,134.5 | 5,556.0 | 5,539.6 | |
| Medicinal & pharmaceutical products Essential oils & resinoids & perfume materials; toilet polishing | 3,253.8 | 3,525.6 | 3,263.4 | 3,263.7 | 3,352.7 | 3,669.2 | 3,784.5 | |
| & cleansing preparations | 3,155.1 | 3,478.8 | 3,502.7 | 3,858.2 | 4,016.3 | 4,258.0 | 4,812.5 | |
| Manufactured Goods | 26,457.6 | 30,995.6 | 29,642.1 | 29,251.1 | 31,795.0 | 28,211.5 | 26,482.2 | |
| Non-ferrous metals | 4,990.5 | 6,535.4 | 5,307.9 | 4,822.9 | 6,357.7 | 5,394.5 | 5,298.7 | |
| Iron & steel | 6,786.8 | 8,639.9 | 8,163.0 | 7,943.6 | 7,399.7 | 5,966.7 | 4,438.9 | |
| Manufactures of metals nes | 6,338.7 | 6,320.8 | 6,553.9 | 6,725.5 | 6,874.9 | 6,334.0 | 6,157.3 | |
| Non-metallic mineral manufactures nes | 3,223.5 | 3,604.9 | 3,799.8 | 4,226.4 | 5,656.0 | 5,118.6 | 5,383.0 | |
| Textile yarn, fabrics, made-up | | | | | | | | |
| articles nes & related products | 1,423.7 | 1,446.5 | 1,390.6 | 1,386.2 | 1,373.8 | 1,339.6 | 1,304.6 | |
| Paper, paperboard & articles of | | | | | | | | |
| paper pulp or paperboard pulp | 1,773.8 | 2,303.7 | 2,278.9 | 2,169.4 | 2,131.1 | 2,067.1 | 2,069.4 | |
| Rubber manufactures nes | 1,297.4 | 1,487.1 | 1,474.5 | 1,261.5 | 1,226.4 | 1,120.7 | 1,024.8 | |

(continued on the next page)

Source: International Enterprise Singapore

Notes: Data are based on Standard International Trade Classification (SITC) Rev 4.1.

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¹ Includes processed waxes of animal or vegetable origin, inedible mixtures or preparations of animal or vegetable fats or oil nes.

15.7 MERCHANDISE IMPORTS BY COMMODITY SECTION (continued)

Million Dollars

| | | | | | | IV | illion Dollars |
|------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|
| Commodity Section | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Machinery & Equipment | 196,105.6 | 188,268.1 | 196,288.1 | 195,446.1 | 191,976.9 | 194,597.3 | 193,317.0 |
| Electronics | 123,201.8 | 113,381.7 | 115,648.1 | 119,543.3 | 117,484.2 | 118,366.9 | 117,229.2 |
| Integrated circuits | 67,380.0 | 59,403.3 | 63,207.6 | 69,934.5 | 69,081.2 | 68,144.8 | 69,595.4 |
| Parts of personal computers | 13,678.0 | 11,794.7 | 10,862.1 | 9,790.7 | 9,644.8 | 9,838.6 | 9,128.8 |
| Disk drives | 2,604.8 | 2,324.8 | 2,545.0 | 2,401.8 | 2,474.2 | 2,719.6 | 2,121.6 |
| Telecommunications equipment ² | 11,443.0 | 12,711.3 | 12,722.0 | 11,886.4 | 10,874.0 | 11,432.8 | 11,337.4 |
| Consumer electronics ³ | 5,798.0 | 5,213.9 | 4,618.7 | 4,220.1 | 4,093.2 | 3,502.6 | 3,281.2 |
| Personal computers | 4,408.9 | 4,834.4 | 5,123.7 | 4,761.7 | 4,302.7 | 4,782.3 | 4,443.3 |
| Parts of integrated circuits | 4,199.3 | 4,331.2 | 4,364.5 | 4,369.0 | 4,797.8 | 4,759.4 | 4,098.2 |
| Diodes and transistors | 6,787.6 | 6,311.9 | 5,504.3 | 5,857.5 | 6,251.2 | 7,003.3 | 7,098.7 |
| Non-electronics | 72,903.7 | 74,886.4 | 80,640.0 | 75,902.8 | 74,492.6 | 76,230.4 | 76,087.8 |
| Electrical circuit apparatus | 5,193.8 | 5,093.0 | 5,187.2 | 5,438.3 | 5,485.5 | 5,422.8 | 5,228.9 |
| Electrical machinery nes | 4,878.1 | 4,899.3 | 4,738.8 | 4,429.8 | 4,582.7 | 4,980.5 | 4,913.1 |
| Miscellaneous Manufactures | 29,683.6 | 30,861.2 | 33,934.6 | 35,966.4 | 35,237.3 | 35,686.0 | 37,169.2 |
| Professional scientific & controlling | | | | | | | |
| instruments & apparatus nes | 8,609.6 | 8,565.2 | 9,647.7 | 10,536.4 | 10,538.6 | 10,918.6 | 12,259.4 |
| Photographic apparatus equipment & supplies & optical goods nes; | | | | | | | |
| watches & clocks | 4,450.9 | 4,956.6 | 4,615.3 | 4,572.4 | 4,765.4 | 4,898.1 | 4,392.4 |
| Articles of apparel & clothing acessories | 2,669.8 | 2,934.8 | 2,985.7 | 3,649.1 | 3,272.1 | 3,350.0 | 3,334.2 |
| Miscellaneous manufactured | | | | | | | |
| articles nes | 10,727.7 | 10,847.8 | 12,833.1 | 13,169.2 | 12,488.6 | 12,174.4 | 12,642.6 |
| Miscellaneous | 13,653.6 | 17,154.1 | 15,444.5 | 26,030.5 | 22,307.0 | 24,600.0 | 23,955.8 |

 $Source: International\ Enterprise\ Singapore$

Notes: Data are based on Standard International Trade Classification (SITC) Rev 4.1.

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² Includes pagers, cellular/hand phones, TV cameras, video cameras and recorders, radar and navigational equipment, radio remote controls, satellite discs and parts for these products.

³ Includes television receivers, radio broadcast receivers, video and sound recorders, microphones, loudspeakers, headphones, earphones, television cameras, still image video cameras and other video camera recorders, and parts for these products.

15.8 MERCHANDISE EXPORTS BY COMMODITY SECTION

| | | | | | | N | lillion Dollars |
|------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| Commodity Section | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 480,709.5 | 523,270.6 | 519,354.1 | 525,507.2 | 526,067.4 | 491,816.1 | 466,911.6 |
| Food | 5,455.3 | 6,663.2 | 6,230.0 | 7,063.7 | 8,231.7 | 8,219.7 | 7,861.8 |
| Coffee, tea, cocoa, spices & manufactures | 1,322.5 | 1,905.4 | 1,445.3 | 1,394.7 | 1,718.4 | 1,589.0 | 1,436.8 |
| Fish, seafood (excl marine mammals) & | , | , | , | , | , | , | • |
| preparations | 502.7 | 505.1 | 445.0 | 409.6 | 406.8 | 512.0 | 492.2 |
| Vegetables & fruits | 307.8 | 396.5 | 388.8 | 411.6 | 459.6 | 484.1 | 505.2 |
| Beverages & Tobacco | 3,256.5 | 3,789.6 | 4,354.7 | 4,619.0 | 4,774.3 | 5,427.2 | 5,349.2 |
| Beverages | 2,466.2 | 2,913.7 | 3,311.6 | 3,501.4 | 3,506.7 | 3,749.7 | 3,711.1 |
| Tobacco & manufactures | 790.3 | 875.9 | 1,043.1 | 1,117.6 | 1,267.6 | 1,677.5 | 1,638.1 |
| Crude Materials | 2,819.9 | 3,315.2 | 3,030.6 | 3,643.2 | 3,472.5 | 3,572.3 | 3,942.6 |
| Metalliferous ores & metal scrap | 1,119.6 | 1,294.5 | 1,303.9 | 1,340.8 | 1,356.5 | 1,172.7 | 1,072.4 |
| Crude rubber | 658.7 | 872.5 | 647.4 | 581.0 | 691.8 | 1,156.2 | 1,376.7 |
| Crude fertilizers & minerals | | | | | | | |
| (excl coal petroleum & precious stones) | 303.5 | 372.6 | 341.1 | 701.7 | 395.8 | 281.9 | 322.3 |
| Crude animal & vegetable materials nes | 210.5 | 230.4 | 229.9 | 281.1 | 247.6 | 208.6 | 203.9 |
| Mineral Fuels & Lubricants | 103,511.0 | 136,773.5 | 130,900.0 | 124,960.9 | 122,862.5 | 81,828.7 | 69,238.1 |
| Petroleum & products ¹ & related materials | 103,220.1 | 136,470.0 | 130,406.1 | 124,640.1 | 122,495.7 | 81,465.8 | 68,904.4 |
| Animal & Vegetable Oils | 610.6 | 546.1 | 403.2 | 367.7 | 351.5 | 274.8 | 249.1 |
| Fixed vegetable fats & oils, crude, | | | | | | | |
| refined or fractionated | 394.7 | 433.5 | 279.5 | 243.5 | 227.3 | 168.5 | 148.0 |
| Animal or vegetable fats & oils ² nes | 197.4 | 100.3 | 107.6 | 102.3 | 103.0 | 89.7 | 85.2 |
| Chemicals & Chemical Products | 56,644.3 | 64,777.1 | 67,518.6 | 63,522.0 | 67,252.0 | 65,614.1 | 64,507.0 |
| Organic chemicals | 21,889.9 | 26,091.7 | 24,959.8 | 22,109.1 | 22,257.5 | 21,398.0 | 20,637.3 |
| Plastics in primary forms | 12,911.7 | 14,135.3 | 14,539.9 | 15,206.1 | 17,805.6 | 15,824.6 | 15,474.7 |
| Medicinal & pharmaceutical products | 8,332.1 | 8,847.5 | 11,431.5 | 9,998.0 | 10,411.7 | 10,477.7 | 9,270.0 |
| Essential oils & resinoids & perfume materials; toilet polishing | | | | | | | |
| & cleansing preparations | 4 00 4 1 | 6.007.6 | 6 400 F | 6 172 0 | 6 202 2 | 6 9 4 2 1 | 7 700 4 |
| & cleansing preparations | 4,884.1 | 6,087.6 | 6,400.5 | 6,172.8 | 6,383.2 | 6,842.1 | 7,799.4 |
| Manufactured Goods | 18,860.7 | 20,123.8 | 19,144.6 | 20,157.8 | 21,563.7 | 19,585.6 | 17,947.8 |
| Non-ferrous metals | 4,249.2 | 4,546.8 | 3,779.7 | 4,215.2 | 4,354.2 | 4,645.7 | 3,728.2 |
| Iron & steel | 4,200.2 | 4,694.1 | 4,770.8 | 4,476.7 | 4,310.3 | 3,209.8 | 2,617.5 |
| Manufactures of metals nes | 4,978.7 | 4,433.0 | 4,449.3 | 4,870.7 | 4,953.9 | 4,395.7 | 3,937.6 |
| Non-metallic mineral manufactures nes | 1,421.7 | 1,977.4 | 1,545.4 | 2,093.6 | 3,452.7 | 2,785.6 | 3,321.8 |
| Textile yarn, fabrics, made-up | | | | | | | |
| articles nes & related products | 1,101.9 | 1,069.5 | 1,015.5 | 1,129.3 | 1,121.2 | 1,064.7 | 1,036.2 |
| Paper, paperboard & articles of | | | | | | | |
| paper pulp or paperboard pulp | 1,480.5 | 1,792.0 | 1,975.3 | 1,983.7 | 2,011.7 | 2,031.7 | 1,966.9 |
| Rubber manufactures nes | 1,157.7 | 1,258.7 | 1,299.8 | 1,058.2 | 1,046.2 | 1,026.2 | 995.0 |

(continued on the next page)

Source: International Enterprise Singapore

Notes: Data are based on Standard International Trade Classification (SITC) Rev 4.1.

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¹ Includes oil bunkers.

² Includes processed waxes of animal or vegetable origin, inedible mixtures or preparations of animal or vegetable fats or oil nes.

15.8 MERCHANDISE EXPORTS BY COMMODITY SECTION (continued)

Million Dollars

| | | | | | | IV | lillion Dollars |
|----------------------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| Commodity Section | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Machinery & Equipment | 244,128.0 | 235,345.6 | 230,884.9 | 237,685.1 | 237,385.1 | 243,737.6 | 236,033.8 |
| Electronics | 175,660.2 | 157,916.7 | 153,270.4 | 161,591.7 | 161,803.4 | 165,382.1 | 157,766.0 |
| Integrated circuits | 93,928.6 | 88,291.0 | 87,398.3 | 96,293.3 | 98,778.7 | 100,725.4 | 96,426.5 |
| Parts of personal computers | 24,983.9 | 21,484.3 | 18,442.0 | 15,876.0 | 13,768.4 | 12,851.1 | 11,194.4 |
| Disk drives | 7,613.4 | 4,524.1 | 5,116.9 | 4,550.8 | 4,190.4 | 4,334.8 | 3,425.0 |
| Telecommunications equipment ³ | 8,085.2 | 9,623.2 | 10,047.4 | 10,038.0 | 10,093.5 | 13,423.3 | 13,111.4 |
| Consumer electronics ⁴ | 6,255.8 | 5,170.3 | 4,531.8 | 4,318.7 | 3,819.3 | 3,381.2 | 3,503.6 |
| Personal computers | 3,651.7 | 5,051.3 | 5,593.6 | 6,583.5 | 6,658.0 | 8,318.2 | 7,689.9 |
| Parts of integrated circuits | 10,894.5 | 6,779.1 | 6,124.9 | 7,639.3 | 7,223.3 | 3,357.3 | 2,706.8 |
| Diodes and transistors | 12,298.2 | 9,390.9 | 8,280.9 | 8,548.3 | 10,083.6 | 11,650.0 | 12,406.9 |
| Non-electronics | 68,467.8 | 77,428.9 | 77,614.5 | 76,093.4 | 75,581.7 | 78,355.5 | 78,267.7 |
| Electrical circuit apparatus | 6,245.5 | 7,264.5 | 7,325.8 | 6,557.7 | 6,134.5 | 5,884.0 | 5,973.7 |
| Electrical machinery nes | 6,717.0 | 6,908.2 | 6,739.5 | 6,240.9 | 7,060.5 | 8,067.4 | 8,079.4 |
| Miscellaneous Manufactures Professional scientific & controlling | 33,775.1 | 35,582.9 | 38,615.1 | 40,525.6 | 41,002.7 | 41,897.3 | 42,970.6 |
| instruments & apparatus nes Photographic apparatus equipment & supplies & optical goods nes; | 10,204.1 | 11,411.6 | 13,233.3 | 14,278.8 | 14,813.7 | 15,365.8 | 15,808.5 |
| watches & clocks | 4,063.7 | 4,123.1 | 4,343.7 | 4,738.9 | 4,941.3 | 5,137.2 | 4,691.7 |
| Articles of apparel & clothing accessories Miscellaneous manufactured | 1,454.9 | 1,495.6 | 1,667.9 | 1,591.2 | 1,704.7 | 1,854.6 | 1,930.1 |
| articles nes | 16,691.9 | 17,043.6 | 17,845.0 | 17,058.0 | 16,719.5 | 17,369.7 | 17,828.3 |
| Miscellaneous | 11,648.2 | 16,353.6 | 18,272.4 | 22,962.1 | 19,171.3 | 21,658.9 | 18,811.5 |

Source: International Enterprise Singapore

Notes: Data are based on Standard International Trade Classification (SITC) Rev 4.1.

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³ Includes pagers, cellular/hand phones, TV cameras, video cameras and recorders, radar and navigational equipment, radio remote controls, satellite discs and parts for these products.

⁴ Includes television receivers, radio broadcast receivers, video and sound recorders, microphones, loudspeakers, headphones, earphones, television cameras, still image video cameras and other video camera recorders, and parts for these products.

15.9 DOMESTIC EXPORTS BY COMMODITY SECTION

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|--------------------------------------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|
| Commodity Section | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 249,035.6 | 281,729.3 | 285,168.9 | 271,216.8 | 269,778.1 | 237,732.9 | 223,933.3 |
| Food | 3,639.7 | 4,108.5 | 4,202.6 | 4,948.3 | 5,867.1 | 5,746.3 | E 7E2 0 |
| Coffee, tea, cocoa, spices & manufactures | 904.4 | 959.4 | 852.0 | 853.2 | 999.2 | 874.0 | 5,752.8 885.9 |
| Fish, seafood (excl marine mammals) & | 904.4 | 333.4 | 652.0 | 033.2 | 999.2 | 0/4.0 | 003.3 |
| preparations | 104.7 | 1046 | 102.6 | 152.2 | 144.0 | 150.0 | 100.2 |
| Vegetables & fruits | 194.7 | 194.6 | 183.6 | 153.2 | 144.0 | 159.9 | 190.2 |
| vegetables & Truits | 27.8 | 31.7 | 37.4 | 43.4 | 48.7 | 52.1 | 47.4 |
| Beverages & Tobacco | 426.1 | 457.6 | 554.7 | 579.1 | 655.0 | 1,026.3 | 854.4 |
| Beverages | 183.6 | 195.5 | 239.3 | 241.5 | 240.1 | 254.3 | 243.0 |
| Tobacco & manufactures | 242.6 | 262.1 | 315.5 | 337.6 | 414.9 | 771.9 | 611.4 |
| Crude Materials | 1,523.5 | 1,705.6 | 1,654.3 | 1,798.3 | 2,073.9 | 2,044.9 | 2,113.7 |
| Metalliferous ores & metal scrap | 1,026.1 | 1,208.9 | 1,224.9 | 1,267.9 | 1,262.0 | 1,114.0 | 1,016.1 |
| Crude rubber | 21.4 | 5.9 | 7.1 | 92.3 | 409.5 | 594.7 | 714.6 |
| Crude fertilizers & minerals | | | | | | | |
| (excl coal petroleum & precious stones) | 151.4 | 140.1 | 126.9 | 167.6 | 128.6 | 85.5 | 136.8 |
| Crude animal & vegetable materials nes | 61.6 | 56.2 | 54.5 | 47.7 | 51.9 | 51.6 | 41.1 |
| Mineral Fuels & Lubricants | 75,011.1 | 103,953.8 | 106,814.4 | 106,476.0 | 106,986.4 | 72,503.6 | 63,374.5 |
| Petroleum & products 1 & | -,- | , | ,- | , , | , | , | ,- |
| related materials | 74,722.3 | 103,651.7 | 106,322.6 | 106,157.1 | 106,621.9 | 72,240.6 | 63,107.2 |
| Animal & Vegetable Oils | 267.2 | 236.8 | 226.8 | 227.6 | 217.4 | 163.0 | 155.3 |
| Fixed vegetable fats & oils, crude, | | | | | | | |
| refined or fractionated | 104.8 | 130.7 | 108.1 | 109.9 | 98.2 | 65.3 | 62.0 |
| Animal or vegetable fats & oils ² nes | 146.0 | 97.3 | 105.1 | 98.5 | 98.9 | 81.9 | 79.3 |
| Chemicals & Chemical Products | 42 520 2 | 40 450 0 | E0 69E 0 | 46 207 1 | 40 202 6 | 47.620.2 | 45 250 0 |
| Organic chemicals | 43,528.3 | 48,450.9 | 50,685.9 | 46,397.1 | 49,382.6 | 47,629.2 | 45,250.8 |
| Plastics in primary forms | 19,497.8 9,627.2 | 23,006.0 9,383.3 | 22,082.1 9,050.4 | 19,064.3 10,346.6 | 19,058.6 13,033.0 | 18,840.5 11,668.8 | 18,288.6 10,759.6 |
| Medicinal & pharmaceutical products | | | | | | | |
| Essential oils & resinoids & | 7,133.7 | 7,632.3 | 10,169.1 | 8,501.1 | 8,971.4 | 8,157.8 | 6,929.6 |
| perfume materials; toilet polishing | | | | | | | |
| & cleansing preparations | 2,107.8 | 2,557.7 | 2,976.5 | 2,358.0 | 2,017.3 | 2,091.9 | 2,177.9 |
| Manufactured Goods | 7,027.7 | 6,932.1 | 5,980.0 | 6,243.2 | 6,507.4 | 6,094.5 | 5,547.6 |
| Non-ferrous metals | 1,097.7 | 1,059.9 | 785.7 | 744.8 | 878.9 | 730.7 | 666.7 |
| Iron & steel | 824.2 | 870.1 | 799.1 | 735.1 | 845.7 | 689.7 | 645.6 |
| Manufactures of metals nes | 2,557.2 | 2,005.5 | 1,937.8 | 2,340.5 | 2,389.2 | 2,056.0 | 1,814.3 |
| Non-metallic mineral manufactures nes | 646.8 | 1,121.9 | 665.3 | 541.1 | 437.7 | 590.3 | 569.7 |
| Textile yarn, fabrics, made-up | | , | | , <u>-</u> | | | |
| articles nes & related products | 362.7 | 331.4 | 324.4 | 367.2 | 420.2 | 424.9 | 401.1 |
| Paper, paperboard & articles of | 302.7 | 302.1 | 22 | 307.12 | | | .02.1 |
| paper pulp or paperboard pulp | 1,092.3 | 1,070.8 | 1,065.9 | 1,046.7 | 1,064.6 | 1,133.9 | 1,011.3 |
| Rubber manufactures nes | 341.2 | 332.1 | 275.1 | 309.2 | 324.4 | 325.3 | 313.3 |
| | - · - · - | | | | | | |

(continued on the next page)

Source: International Enterprise Singapore

Notes: Data are based on Standard International Trade Classification (SITC) Rev 4.1.

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¹ Includes oil bunkers.

² Includes processed waxes of animal or vegetable origin, inedible mixtures or preparations of animal or vegetable fats or oil nes.

15.9 DOMESTIC EXPORTS BY COMMODITY SECTION (continued)

Million Dollars

| | | | | | | 171 | illion Dollars |
|------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------------|
| Commodity Section | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Machinery & Equipment | 94,412.0 | 91,057.6 | 87,557.9 | 78,863.5 | 73,567.0 | 75,867.4 | 72,538.0 |
| Electronics | 64,685.5 | 56,135.0 | 53,590.9 | 48,871.9 | 44,058.7 | 44,045.1 | 41,952.1 |
| Integrated circuits | 26,872.2 | 25,434.9 | 25,002.7 | 22,522.4 | 20,849.9 | 21,904.6 | 21,821.3 |
| Parts of personal computers | 12,884.6 | 11,051.3 | 9,643.4 | 7,084.1 | 5,528.9 | 4,420.4 | 4,071.6 |
| Disk drives | 5,472.6 | 2,801.5 | 3,103.8 | 2,440.4 | 1,910.0 | 1,670.3 | 1,146.1 |
| Telecommunications equipment ³ | 1,665.3 | 1,932.1 | 2,644.0 | 1,528.9 | 1,453.9 | 2,220.8 | 2,176.0 |
| Consumer electronics ⁴ | 1,786.1 | 1,258.7 | 1,221.7 | 1,239.1 | 861.1 | 650.4 | 857.6 |
| Personal computers | 1,657.7 | 2,338.0 | 2,461.3 | 3,698.4 | 3,784.1 | 5,187.9 | 4,522.7 |
| Parts of integrated circuits | 7,811.8 | 4,730.3 | 3,804.1 | 4,259.9 | 3,933.8 | 1,465.9 | 1,246.2 |
| Diodes and transistors | 3,558.4 | 3,777.6 | 2,991.6 | 3,278.5 | 3,412.2 | 3,940.6 | 3,869.4 |
| Non-electronics | 29,726.4 | 34,922.6 | 33,967.1 | 29,991.6 | 29,508.3 | 31,822.3 | 30,585.9 |
| Electrical circuit apparatus | 2,979.2 | 2,961.0 | 3,001.2 | 2,800.3 | 2,316.8 | 2,115.5 | 1,905.4 |
| Electrical machinery nes | 3,204.1 | 3,017.8 | 3,012.8 | 2,447.7 | 2,911.0 | 2,993.1 | 3,007.0 |
| Miscellaneous Manufactures Professional scientific & controlling | 19,498.7 | 20,727.1 | 22,127.9 | 21,159.8 | 19,800.9 | 19,859.9 | 19,909.5 |
| instruments & apparatus nes | 5,889.5 | 6,803.6 | 7,789.7 | 8,175.7 | 8,014.2 | 8,097.9 | 8,247.2 |
| Photographic apparatus equipment & supplies & optical goods nes; | | | | | | | |
| watches & clocks | 1,513.3 | 1,498.4 | 1,609.7 | 1,494.6 | 1,674.7 | 1,707.8 | 1,487.6 |
| Articles of apparel & clothing accessories | 184.2 | 184.1 | 163.2 | 178.0 | 165.9 | 141.2 | 184.6 |
| Miscellaneous manufactured | | | | | | | |
| articles nes | 11,566.9 | 11,854.4 | 12,200.4 | 9,746.5 | 9,570.1 | 9,579.5 | 9,645.7 |
| Miscellaneous | 3,701.2 | 4,099.2 | 5,364.4 | 4,523.8 | 4,720.4 | 6,797.8 | 8,436.8 |

Source: International Enterprise Singapore

Notes: Data are based on Standard International Trade Classification (SITC) Rev 4.1.

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³ Includes pagers, cellular/hand phones, TV cameras, video cameras and recorders, radar and navigational equipment, radio remote controls, satellite discs and parts for these products.

⁴ Includes television receivers, radio broadcast receivers, video and sound recorders, microphones, loudspeakers, headphones, earphones, television cameras, still image video cameras and other video camera recorders, and parts for these products.

15.10 RE-EXPORTS BY COMMODITY SECTION

| | | | | | | | IIIIOII DOIIais |
|--------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| Commodity Section | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 231,673.9 | 241,541.3 | 234,185.3 | 254,290.4 | 256,289.3 | 254,083.3 | 242,978.4 |
| Food | 1,815.6 | 2,554.6 | 2,027.4 | 2,115.4 | 2,364.6 | 2,473.4 | 2,109.0 |
| Coffee, tea, cocoa, spices & manufactures | 418.0 | 946.1 | 593.4 | 541.4 | 719.2 | 715.0 | 550.9 |
| Fish, seafood (excl marine mammals) & | | | | | | | |
| preparations | 308.0 | 310.6 | 261.5 | 256.4 | 262.8 | 352.1 | 302.1 |
| Vegetables & fruits | 279.9 | 364.8 | 351.5 | 368.1 | 410.8 | 432.0 | 457.8 |
| Beverages & Tobacco | 2,830.3 | 3,332.0 | 3,800.0 | 4,040.0 | 4,119.3 | 4,400.9 | 4,494.8 |
| Beverages | 2,282.6 | 2,718.2 | 3,072.4 | 3,259.9 | 3,266.6 | 3,495.4 | 3,468.1 |
| Tobacco & manufactures | 547.7 | 613.8 | 727.6 | 780.0 | 852.6 | 905.5 | 1,026.7 |
| Crude Materials | 1,296.4 | 1,609.6 | 1,376.3 | 1,844.9 | 1,398.6 | 1,527.3 | 1,829.0 |
| Metalliferous ores & metal scrap | 93.6 | 85.6 | 79.0 | 72.9 | 94.6 | 58.8 | 56.3 |
| Crude rubber | 637.2 | 866.6 | 640.3 | 488.7 | 282.3 | 561.5 | 662.1 |
| Crude fertilizers & minerals | | | | | | | |
| (excl coal petroleum & precious stones) | 152.1 | 232.6 | 214.3 | 534.1 | 267.2 | 196.4 | 185.5 |
| Crude animal & vegetable materials nes | 149.0 | 174.3 | 175.4 | 233.4 | 195.7 | 157.0 | 162.8 |
| Mineral Fuels & Lubricants | 28,499.9 | 32,819.7 | 24,085.7 | 18,484.9 | 15,876.1 | 9,325.1 | 5,863.6 |
| Petroleum & products & related materials | 28,497.8 | 32,818.3 | 24,083.4 | 18,483.0 | 15,873.7 | 9,225.2 | 5,797.1 |
| Animal & Vegetable Oils | 343.4 | 309.3 | 176.4 | 140.0 | 134.2 | 111.8 | 93.9 |
| Fixed vegetable fats & oils, crude, | | | | | | | |
| refined or fractionated | 290.0 | 302.7 | 171.4 | 133.6 | 129.0 | 103.1 | 86.0 |
| Animal or vegetable fats & oils ¹ nes | 51.4 | 3.0 | 2.4 | 3.8 | 4.1 | 7.7 | 5.9 |
| Chemicals & Chemical Products | 13,116.0 | 16,326.2 | 16,832.7 | 17,124.9 | 17,869.4 | 17,985.0 | 19,256.3 |
| Organic chemicals | 2,392.0 | 3,085.8 | 2,877.8 | 3,044.8 | 3,198.9 | 2,557.5 | 2,348.7 |
| Plastics in primary forms | 3,284.5 | 4,752.1 | 5,489.6 | 4,859.5 | 4,772.6 | 4,155.8 | 4,715.1 |
| Medicinal & pharmaceutical products | 1,198.4 | 1,215.2 | 1,262.4 | 1,496.8 | 1,440.3 | 2,319.9 | 2,340.4 |
| Essential oils & resinoids & | | | | | | | |
| perfume materials; toilet polishing | 2,776.3 | 2 520 0 | 2 424 0 | 2 01 / 0 | 4 26E 0 | 4,750.2 | E 621 E |
| & cleansing preparations | 2,770.3 | 3,529.9 | 3,424.0 | 3,814.9 | 4,365.8 | 4,730.2 | 5,621.5 |
| Manufactured Goods | 11,833.0 | 13,191.7 | 13,164.7 | 13,914.6 | 15,056.3 | 13,491.1 | 12,400.2 |
| Non-ferrous metals | 3,151.5 | 3,486.9 | 2,994.0 | 3,470.4 | 3,475.3 | 3,915.0 | 3,061.5 |
| Iron & steel | 3,376.0 | 3,823.9 | 3,971.7 | 3,741.6 | 3,464.7 | 2,520.1 | 1,971.9 |
| Manufactures of metals nes | 2,421.5 | 2,427.5 | 2,511.4 | 2,530.1 | 2,564.7 | 2,339.7 | 2,123.3 |
| Non-metallic mineral manufactures nes | 775.0 | 855.6 | 880.1 | 1,552.4 | 3,015.1 | 2,195.4 | 2,752.1 |
| Textile yarn, fabrics, made-up | | | | | | | |
| articles nes & related products | 739.2 | 738.0 | 691.1 | 762.1 | 701.0 | 639.8 | 635.2 |
| Paper, paperboard & articles of | | | | | | | |
| paper pulp or paperboard pulp | 388.2 | 721.2 | 909.4 | 937.0 | 947.0 | 897.8 | 955.6 |
| Rubber manufactures nes | 816.5 | 926.6 | 1,024.7 | 749.0 | 721.8 | 700.8 | 681.6 |

(continued on the next page)

Source: International Enterprise Singapore

Notes: Data are based on Standard International Trade Classification (SITC) Rev 4.1.

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¹ Includes processed waxes of animal or vegetable origin, inedible mixtures or preparations of animal or vegetable fats or oil nes.

15.10 RE-EXPORTS BY COMMODITY SECTION (continued)

Million Dollars

| | | | | | | IV | illion Dollars |
|--------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|
| Commodity Section | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Marking w. 9 Favings at | 140 716 0 | 144 200 0 | 142 227 0 | 150.021.6 | 162.010.1 | 167.070.2 | 162 405 0 |
| Machinery & Equipment | 149,716.0 | 144,288.0 | 143,327.0 | 158,821.6 | 163,818.1 | 167,870.2 | 163,495.8 |
| Electronics | 110,974.7 | 101,781.7 | 99,679.5 | 112,719.9 | 117,744.7 | 121,337.1 | 115,813.9 |
| Integrated circuits | 67,056.4 | 62,856.1 | 62,395.6 | 73,770.9 | 77,928.9 | 78,820.8 | 74,605.2 |
| Parts of personal computers | 12,099.3 | 10,433.1 | 8,798.6 | 8,791.8 | 8,239.5 | 8,430.7 | 7,122.8 |
| Disk drives | 2,140.9 | 1,722.6 | 2,013.2 | 2,110.4 | 2,280.4 | 2,664.5 | 2,278.9 |
| Telecommunications equipment ² | 6,420.0 | 7,691.1 | 7,403.4 | 8,509.2 | 8,639.6 | 11,202.5 | 10,935.4 |
| Consumer electronics ³ | 4,469.6 | 3,911.6 | 3,310.1 | 3,079.7 | 2,958.2 | 2,730.9 | 2,646.0 |
| Personal computers | 1,993.9 | 2,713.3 | 3,132.2 | 2,885.2 | 2,873.9 | 3,130.3 | 3,167.2 |
| Parts of integrated circuits | 3,082.7 | 2,048.9 | 2,320.8 | 3,379.4 | 3,289.4 | 1,891.4 | 1,460.6 |
| Diodes and transistors | 8,739.8 | 5,613.3 | 5,289.2 | 5,269.8 | 6,671.4 | 7,709.4 | 8,537.5 |
| Non-electronics | 38,741.3 | 42,506.3 | 43,647.4 | 46,101.7 | 46,073.4 | 46,533.1 | 47,681.8 |
| Electrical circuit apparatus | 3,266.3 | 4,303.5 | 4,324.6 | 3,757.4 | 3,817.7 | 3,768.4 | 4,068.4 |
| Electrical machinery nes | 3,513.0 | 3,890.4 | 3,726.7 | 3,793.2 | 4,149.4 | 5,074.3 | 5,072.4 |
| Miscellaneous Manufactures | 14,276.4 | 14,855.8 | 16,487.2 | 19,365.8 | 21,201.7 | 22,037.3 | 23,061.1 |
| Professional scientific & controlling | | | | | | | |
| instruments & apparatus nes | 4,314.6 | 4,608.0 | 5,443.6 | 6,103.1 | 6,799.5 | 7,267.9 | 7,561.3 |
| Photographic apparatus equipment & | | | | | | | |
| supplies & optical goods nes; | | | | | | | |
| watches & clocks | 2,550.4 | 2,624.7 | 2,734.0 | 3,244.3 | 3,266.6 | 3,429.4 | 3,204.1 |
| Articles of apparel & clothing accessories | 1,270.6 | 1,311.5 | 1,504.6 | 1,413.3 | 1,538.8 | 1,713.4 | 1,745.4 |
| Miscellaneous manufactured articles nes | 5,125.0 | 5,189.2 | 5,644.6 | 7,311.5 | 7,149.4 | 7,790.2 | 8,182.6 |
| Miscellaneous | 7,947.0 | 12,254.4 | 12,908.0 | 18,438.3 | 14,450.9 | 14,861.1 | 10,374.8 |

Source International Enterprise Singapore

Notes Data are based on Standard International Trade Classification (SITC) Rev 4.1.

- 2 Includes pagers, cellular/hand phones, TV cameras, video cameras and recorders, radar and navigational equipment, radio remote controls, satellite discs and parts for these products.
- 3 Includes television receivers, radio broadcast receivers, video and sound recorders, microphones, loudspeakers, headphones, earphones, television cameras, still image video cameras and other video camera recorders, and parts for these products.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2502 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=4712 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=7145

15.11 TRADE IN SERVICES

| | Million Dollars |
|-----------|-----------------|
| 2015 | 2016 |
| 416,714.2 | 421,679.4 |

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total Trade in Services | 275,488.2 | 298,761.7 | 322,731.4 | 358,810.2 | 396,365.1 | 416,714.2 | 421,679.4 |
| Exports of Services | 137,484.7 | 150,009.3 | 159,163.9 | 174,790.7 | 194,370.9 | 204,297.0 | 206,737.5 |
| Imports of Services | 138,003.5 | 148,752.4 | 163,567.5 | 184,019.5 | 201,994.2 | 212,417.2 | 214,941.9 |

Figures presented in this table are compiled from various sources. The bulk of the data is compiled from the Notes: $International\ Trade\ in\ Services\ Survey\ conducted\ by\ the\ Singapore\ Department\ of\ Statistics.$ These are supplemented by data from other sources.

15.12 EXPORTS OF SERVICES BY SERVICES CATEGORY

| | | | | | | М | illion Dollars |
|----------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | | | | | |
| Exports Of Services | 137,484.7 | 150,009.3 | 159,163.9 | 174,790.7 | 194,370.9 | 204,297.0 | 206,737.5 |
| Maintenance And Repair Services | 8,648.4 | 9,343.9 | 9,053.1 | 10,769.1 | 9,856.2 | 9,265.2 | 9,706.3 |
| Transport | 52,775.1 | 53,601.5 | 55,851.4 | 57,649.7 | 66,155.9 | 65,474.4 | 66,801.9 |
| Freight | 41,430.6 | 41,528.4 | 43,156.1 | 45,959.9 | 53,083.7 | 52,240.4 | 53,538.7 |
| Others | 11,344.5 | 12,073.1 | 12,695.3 | 11,689.8 | 13,072.2 | 13,234.0 | 13,263.2 |
| Travel | 19,331.2 | 22,551.8 | 23,488.4 | 24,036.6 | 24,243.4 | 22,771.4 | 25,401.2 |
| Insurance | 4,821.8 | 4,860.2 | 4,537.4 | 5,125.8 | 6,310.1 | 8,376.7 | 8,824.5 |
| Government Goods And Services | 350.8 | 346.2 | 360.8 | 382.9 | 378.0 | 388.9 | 389.1 |
| Construction | 1,406.5 | 1,941.0 | 2,006.6 | 2,219.9 | 1,559.9 | 1,307.4 | 1,309.5 |
| Financial | 16,653.2 | 19,555.5 | 20,695.0 | 23,614.0 | 26,777.3 | 28,954.7 | 26,072.4 |
| Telecommunications, Computer & Information | 4,831.2 | 4,891.6 | 5,272.1 | 6,116.7 | 6,598.7 | 8,831.8 | 8,918.4 |
| Charges For The Use Of Intellectual Property | 1,330.3 | 2,089.9 | 2,320.4 | 3,974.4 | 4,794.3 | 7,121.6 | 7,377.7 |
| Personal, Cultural And Recreational | 689.2 | 651.5 | 667.8 | 698.8 | 712.9 | 619.0 | 638.2 |
| Other Business Services | 26,647.0 | 30,176.2 | 34,910.9 | 40,202.8 | 46,984.2 | 51,185.9 | 51,298.3 |
| Accounting | 355.9 | 402.3 | 407.3 | 400.3 | 332.2 | 307.3 | 304.7 |
| Advertising And Market Research | 1,073.8 | 1,642.1 | 2,681.4 | 4,629.6 | 7,763.3 | 10,137.5 | 10,051.5 |
| Architectural | 270.0 | 302.0 | 354.1 | 312.5 | 389.6 | 381.1 | 377.8 |
| Business Management | 13,538.1 | 14,831.4 | 16,671.5 | 19,783.5 | 19,997.0 | 20,945.9 | 20,768.1 |
| Engineering And Technical | 2,424.3 | 3,397.2 | 4,195.5 | 5,059.4 | 6,081.0 | 5,019.2 | 5,199.5 |
| Legal | 528.3 | 558.1 | 600.1 | 643.4 | 676.8 | 766.8 | 760.2 |
| Research And Development | 612.8 | 635.6 | 719.4 | 1,109.1 | 869.2 | 1,003.1 | 1,039.3 |
| Trade-related | 3,970.0 | 4,808.3 | 5,489.9 | 3,928.1 | 4,899.9 | 5,413.9 | 5,449.2 |
| Others | 3,873.8 | 3,599.2 | 3,791.7 | 4,336.9 | 5,975.2 | 7,211.1 | 7,348.0 |

15.13 IMPORTS OF SERVICES BY SERVICES CATEGORY

| Transport 40,595.1 41,990.2 44,817.9 47,891.1 59,225.2 66,813.0 67,239.7 Freight 23,787.4 26,450.5 26,570.4 28,766.2 37,897.0 44,148.0 45,048.1 Others 16,807.7 15,539.7 18,247.5 19,124.9 21,328.2 22,665.0 22,191.6 | | | | | | | М | illion Dollars |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|
| Maintenance And Repair Services 874.1 872.3 837.0 845.2 880.7 937.5 918.5 Transport 40,595.1 41,990.2 44,817.9 47,891.1 59,225.2 66,813.0 67,239.7 Freight 23,787.4 26,450.5 26,570.4 28,766.2 37,897.0 44,148.0 45,048.1 Others 16,807.7 15,539.7 18,247.5 19,124.9 21,328.2 22,665.0 22,191.6 | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Maintenance And Repair Services 874.1 872.3 837.0 845.2 880.7 937.5 918.5 Transport 40,595.1 41,990.2 44,817.9 47,891.1 59,225.2 66,813.0 67,239.7 Freight 23,787.4 26,450.5 26,570.4 28,766.2 37,897.0 44,148.0 45,048.1 Others 16,807.7 15,539.7 18,247.5 19,124.9 21,328.2 22,665.0 22,191.6 | | | | | | | | |
| Transport 40,595.1 41,990.2 44,817.9 47,891.1 59,225.2 66,813.0 67,239.7 Freight 23,787.4 26,450.5 26,570.4 28,766.2 37,897.0 44,148.0 45,048.1 Others 16,807.7 15,539.7 18,247.5 19,124.9 21,328.2 22,665.0 22,191.6 | Of Services | 138,003.5 | 148,752.4 | 163,567.5 | 184,019.5 | 201,994.2 | 212,417.2 | 214,941.9 |
| Freight 23,787.4 26,450.5 26,570.4 28,766.2 37,897.0 44,148.0 45,048.1 Others 16,807.7 15,539.7 18,247.5 19,124.9 21,328.2 22,665.0 22,191.6 | enance And Repair Services | 874.1 | 872.3 | 837.0 | 845.2 | 880.7 | 937.5 | 918.5 |
| Others 16,807.7 15,539.7 18,247.5 19,124.9 21,328.2 22,665.0 22,191.6 | ort | 40,595.1 | 41,990.2 | 44,817.9 | 47,891.1 | 59,225.2 | 66,813.0 | 67,239.7 |
| | ght | 23,787.4 | 26,450.5 | 26,570.4 | 28,766.2 | 37,897.0 | 44,148.0 | 45,048.1 |
| Travel 25,497.3 27,048.4 28,926.3 30,664.9 30,865.2 30,360.1 30,535.3 | ers | 16,807.7 | 15,539.7 | 18,247.5 | 19,124.9 | 21,328.2 | 22,665.0 | 22,191.6 |
| | | 25,497.3 | 27,048.4 | 28,926.3 | 30,664.9 | 30,865.2 | 30,360.1 | 30,535.3 |
| Insurance 5,510.2 5,699.9 5,992.8 6,016.8 5,291.9 7,491.5 8,192.0 | nce | 5,510.2 | 5,699.9 | 5,992.8 | 6,016.8 | 5,291.9 | 7,491.5 | 8,192.0 |
| Government Goods And Services 261.3 260.8 256.8 287.0 295.1 275.9 309.8 | nment Goods And Services | 261.3 | 260.8 | 256.8 | 287.0 | 295.1 | 275.9 | 309.8 |
| Construction 702.0 944.0 944.0 972.4 692.7 667.5 668.5 | uction | 702.0 | 944.0 | 944.0 | 972.4 | 692.7 | 667.5 | 668.5 |
| Financial 3,493.8 3,915.1 4,070.9 4,675.7 5,549.9 6,057.4 6,258.1 | ial | 3,493.8 | 3,915.1 | 4,070.9 | 4,675.7 | 5,549.9 | 6,057.4 | 6,258.1 |
| Telecommunications, Computer & Information 4,823.6 6,028.2 6,824.8 8,879.0 10,941.0 11,514.1 11,570.5 | mmunications, Computer & Information | 4,823.6 | 6,028.2 | 6,824.8 | 8,879.0 | 10,941.0 | 11,514.1 | 11,570.5 |
| Charges For The Use Of Intellectual Property 22,647.6 24,678.8 27,549.9 28,237.2 26,033.9 25,706.4 26,630.9 | es For The Use Of Intellectual Property | 22,647.6 | 24,678.8 | 27,549.9 | 28,237.2 | 26,033.9 | 25,706.4 | 26,630.9 |
| Personal, Cultural And Recreational 643.6 616.6 595.2 568.6 639.4 624.1 643.6 | nal, Cultural And Recreational | 643.6 | 616.6 | 595.2 | 568.6 | 639.4 | 624.1 | 643.6 |
| Other Business Services 32,954.9 36,698.1 42,751.9 54,981.6 61,579.2 61,969.7 61,975.0 | Business Services | 32,954.9 | 36,698.1 | 42,751.9 | 54,981.6 | 61,579.2 | 61,969.7 | 61,975.0 |
| Accounting 205.4 222.2 271.1 260.3 291.0 331.3 328.6 | ounting | 205.4 | 222.2 | 271.1 | 260.3 | 291.0 | 331.3 | 328.6 |
| Advertising And Market Research 2,139.5 2,214.8 2,448.0 2,745.9 2,985.0 3,323.1 3,294.5 | ertising And Market Research | 2,139.5 | 2,214.8 | 2,448.0 | 2,745.9 | 2,985.0 | 3,323.1 | 3,294.9 |
| Architectural 64.0 62.5 84.6 78.8 56.9 47.8 47.4 | itectural | 64.0 | 62.5 | 84.6 | 78.8 | 56.9 | 47.8 | 47.4 |
| Business Management 10,347.4 12,930.4 13,934.6 15,264.5 16,988.4 18,282.3 18,136.4 | ness Management | 10,347.4 | 12,930.4 | 13,934.6 | 15,264.5 | 16,988.4 | 18,282.3 | 18,136.4 |
| Engineering And Technical 1,749.7 1,967.7 2,340.8 2,755.9 3,316.6 3,269.8 3,387.4 | neering And Technical | 1,749.7 | 1,967.7 | 2,340.8 | 2,755.9 | 3,316.6 | 3,269.8 | 3,387.4 |
| Legal 284.5 234.7 664.0 262.8 299.4 315.9 313.2 | I | 284.5 | 234.7 | 664.0 | 262.8 | 299.4 | 315.9 | 313.2 |
| Research And Development 3,921.2 4,528.2 5,250.3 11,254.8 9,904.0 9,338.6 8,819.7 | arch And Development | 3,921.2 | 4,528.2 | 5,250.3 | 11,254.8 | 9,904.0 | 9,338.6 | 8,819.7 |
| Trade-related 6,851.5 7,964.1 9,424.8 11,063.9 11,973.8 12,162.0 12,309.2 | e-related | 6,851.5 | 7,964.1 | 9,424.8 | 11,063.9 | 11,973.8 | 12,162.0 | 12,309.2 |
| Others 7,391.7 6,573.5 8,333.7 11,294.7 15,764.1 14,898.9 15,338.2 | ers | 7,391.7 | 6,573.5 | 8,333.7 | 11,294.7 | 15,764.1 | 14,898.9 | 15,338.2 |

15.14 **EXPORTS OF SERVICES BY MAJOR TRADING PARTNER**

| | | | | | | Million Dollars | | |
|--------------------------|----------|----------|----------|----------|----------|-----------------|----------|--|
| Trading Partner | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | |
| Asia | 41,903.4 | 47,943.5 | 49,496.3 | 51,185.6 | 56,067.1 | 63,497.9 | 69,696.9 | |
| Donnel Democrate o | 225.4 | 507.6 | 476.0 | 402.2 | 405.3 | 550.0 | 404.3 | |
| Brunei Darussalam | 335.1 | 507.6 | 476.8 | 482.3 | 485.2 | 550.8 | 494.2 | |
| Cambodia | 101.0 | 78.7 | 109.6 | 115.1 | 89.6 | 87.2 | 115.3 | |
| China | 5,706.1 | 7,814.8 | 7,134.7 | 7,574.1 | 9,354.1 | 11,398.5 | 11,913.0 | |
| Hong Kong | 4,371.4 | 4,925.8 | 5,094.3 | 5,138.7 | 5,138.8 | 5,835.2 | 6,959.2 | |
| India | 3,842.8 | 4,241.6 | 4,351.1 | 4,434.1 | 4,944.5 | 4,546.7 | 4,626.1 | |
| Indonesia | 3,820.5 | 3,410.9 | 3,634.3 | 4,191.9 | 4,577.9 | 4,856.0 | 5,114.8 | |
| Japan | 5,628.5 | 6,835.4 | 7,850.1 | 8,241.4 | 9,416.0 | 11,520.4 | 14,300.1 | |
| Korea, Republic of | 2,303.1 | 2,542.7 | 2,640.2 | 2,736.0 | 2,882.3 | 3,585.6 | 3,449.8 | |
| Malaysia | 4,096.3 | 3,697.8 | 4,015.3 | 4,373.2 | 4,560.8 | 5,073.8 | 5,429.5 | |
| Myanmar | 200.5 | 179.3 | 219.8 | 228.4 | 373.2 | 366.1 | 427.2 | |
| Philippines | 1,000.3 | 1,164.3 | 1,258.5 | 1,249.9 | 1,390.7 | 1,726.6 | 1,909.5 | |
| Saudi Arabia | 569.6 | 617.5 | 746.1 | 560.2 | 600.4 | 606.5 | 582.0 | |
| Taiwan | 2,053.5 | 2,567.9 | 2,171.4 | 2,102.8 | 2,209.1 | 2,682.7 | 2,579.4 | |
| Thailand | 1,901.6 | 2,601.1 | 2,756.7 | 3,375.5 | 3,475.2 | 3,816.6 | 4,135.1 | |
| United Arab Emirates | 1,633.2 | 1,745.0 | 1,709.0 | 1,883.2 | 1,699.3 | 1,674.1 | 1,714.0 | |
| Viet Nam | 1,027.7 | 959.0 | 1,340.1 | 1,521.1 | 1,745.3 | 1,992.2 | 2,312.4 | |
| Europe | 24,930.9 | 26,460.2 | 28,536.3 | 29,067.2 | 33,484.9 | 36,599.4 | 37,227.6 | |
| Belgium | 371.9 | 508.0 | 482.2 | 394.4 | 511.5 | 605.8 | 579.7 | |
| Denmark | 2,158.7 | 1,963.6 | 1,839.7 | 1,532.8 | 1,602.4 | 1,634.9 | 1,890.0 | |
| France | 1,075.7 | 1,462.0 | 1,405.2 | 1,561.0 | 1,678.9 | 1,889.4 | 2,304.5 | |
| Germany | 2,918.9 | 3,210.5 | 3,506.3 | 3,471.6 | 3,816.4 | 3,973.4 | 3,391.3 | |
| Italy | 404.3 | 496.7 | 571.1 | 685.8 | 709.5 | 766.3 | 709.0 | |
| Netherlands | 2,099.6 | 2,533.4 | 2,505.2 | 2,469.3 | 2,941.7 | 3,076.8 | 3,494.3 | |
| Norway | 1,924.2 | 1,746.6 | 1,506.2 | 1,692.2 | 2,061.6 | 2,303.1 | 2,558.6 | |
| Switzerland | 2,335.5 | 2,471.4 | 3,331.0 | 4,261.1 | 4,861.3 | 6,100.5 | 6,843.5 | |
| United Kingdom | 7,810.5 | 7,575.1 | 8,210.9 | 8,314.7 | 10,657.8 | 11,168.7 | 10,678.7 | |
| North America | 14,471.5 | 17,099.3 | 17,571.7 | 20,117.4 | 21,652.2 | 23,628.8 | 24,149.5 | |
| United States of America | 13,628.2 | 15,968.8 | 16,402.1 | 18,945.1 | 20,395.6 | 22,237.7 | 22,875.7 | |
| Canada | 841.4 | 1,129.0 | 1,167.6 | 1,169.6 | 1,256.4 | 1,390.2 | 1,267.9 | |
| Oceania | 8,970.7 | 10,455.6 | 12,525.3 | 14,348.2 | 14,971.1 | 16,139.3 | 16,576.9 | |
| Australia | 7,442.9 | 8,866.9 | 10,535.5 | 11,619.8 | 11,955.0 | 13,149.4 | 13,182.3 | |
| New Zealand | 865.3 | 855.8 | 1,038.9 | 1,314.8 | 1,519.7 | 1,712.3 | 2,081.5 | |

(continued on the next page)

Notes: Figures presented in this table are solely compiled from the International Trade in Services Survey.

15.14 EXPORTS OF SERVICES BY MAJOR TRADING PARTNER (continued)

Million Dollars

| Trading Partner | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|
| South and Central America | | | | | | | |
| and the Caribbean | 3,325.3 | 4,151.8 | 5,061.9 | 5,593.8 | 7,078.0 | 8,225.1 | 8,630.0 |
| Panama | 163.9 | 279.9 | 237.0 | 359.8 | 357.8 | 370.3 | 430.2 |
| Africa | 2,131.7 | 2,014.7 | 2,503.7 | 2,821.0 | 4,679.2 | 6,036.0 | 7,800.3 |
| South Africa | 400.1 | 379.8 | 410.5 | 434.4 | 632.1 | 611.7 | 558.4 |
| | | | | | | | |
| ASEAN 1 | 12,574.5 | 12,730.8 | 13,904.0 | 15,609.3 | 16,718.4 | 18,509.9 | 19,969.3 |
| European Union (EU-28) ² | 19,470.9 | 20,765.4 | 22,426.1 | 21,762.2 | 25,048.2 | 26,942.0 | 26,710.1 |

Notes: Figures presented in this table are solely compiled from the International Trade in Services Survey.

- 1 ASEAN includes Brunei Darussalam, Cambodia, Indonesia, Lao People's Democratic Republic, Malaysia, Myanmar, Philippines, Thailand and Viet Nam.
- 2 The European Union (EU-28) comprises Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Rep, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovak Rep, Slovenia, Spain, Sweden and the United Kingdom.

15.15 IMPORTS OF SERVICES BY MAJOR TRADING PARTNER

| | | | | | | N | 1illion Dolla |
|--------------------------|----------|----------|----------|----------|----------|----------|---------------|
| Trading Partner | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| Asia | 27,919.5 | 32,179.9 | 35,979.7 | 36,908.3 | 41,642.9 | 49,867.2 | 54,196. |
| Brunei Darussalam | 43.5 | 38.9 | 43.7 | 65.1 | 55.5 | 61.3 | 72. |
| Cambodia | 103.3 | 111.5 | 133.9 | 132.8 | 71.5 | 68.8 | 82. |
| China | 4,521.3 | 5,347.7 | 6,671.7 | 7,188.8 | 8,167.3 | 10,628.4 | 11,141 |
| Hong Kong | 3,570.6 | 4,307.3 | 4,002.8 | 4,236.3 | 5,092.4 | 7,780.1 | 8,909 |
| India | 2,399.7 | 2,907.5 | 2,978.1 | 2,970.7 | 3,421.5 | 3,731.4 | 3,823 |
| Indonesia | 1,632.3 | 1,826.0 | 1,809.4 | 1,902.4 | 1,999.4 | 2,076.1 | 2,261 |
| Japan | 5,154.1 | 5,720.9 | 7,044.6 | 6,333.8 | 6,623.7 | 7,091.5 | 7,361 |
| Korea, Republic of | 1,556.4 | 1,867.6 | 2,232.3 | 2,470.0 | 2,693.9 | 3,394.0 | 3,524 |
| Malaysia | 1,990.3 | 2,132.4 | 2,354.8 | 2,602.9 | 2,800.1 | 2,836.0 | 3,171 |
| Myanmar | 77.1 | 75.3 | 77.1 | 82.1 | 172.3 | 161.0 | 214 |
| Philippines | 677.2 | 750.8 | 908.2 | 890.8 | 1,208.9 | 1,009.0 | 1,229 |
| Saudi Arabia | 115.5 | 146.5 | 211.9 | 167.0 | 185.8 | 267.0 | 634 |
| Taiwan | 1,912.3 | 2,320.5 | 2,519.7 | 2,422.8 | 2,781.8 | 3,677.7 | 3,880 |
| Thailand | 1,230.2 | 1,375.6 | 1,462.0 | 1,435.7 | 1,579.4 | 2,103.6 | 2,333 |
| United Arab Emirates | 1,062.5 | 1,107.5 | 1,303.5 | 1,461.3 | 1,934.1 | 1,878.5 | 2,031 |
| Viet Nam | 585.6 | 672.9 | 744.5 | 916.0 | 924.0 | 944.4 | 956 |
| Europe | 23,165.4 | 27,346.4 | 30,655.5 | 32,974.1 | 42,013.1 | 42,378.1 | 46,471 |
| Belgium | 235.4 | 242.2 | 388.3 | 365.4 | 574.5 | 726.9 | 771 |
| Denmark | 745.1 | 768.3 | 965.8 | 1,117.4 | 1,327.4 | 1,625.2 | 1,879 |
| France | 2,196.5 | 2,186.8 | 2,561.4 | 3,125.5 | 3,628.8 | 4,209.6 | 3,903 |
| Germany | 2,300.5 | 2,594.1 | 3,064.9 | 2,802.3 | 3,105.3 | 3,554.7 | 3,21 |
| Italy | 274.2 | 367.5 | 519.1 | 467.8 | 471.0 | 986.0 | 763 |
| Netherlands | 4,073.0 | 6,707.7 | 6,328.8 | 7,846.8 | 9,624.8 | 9,671.2 | 12,275 |
| Norway | 990.1 | 1,020.5 | 1,050.6 | 984.8 | 1,201.9 | 1,435.2 | 1,487 |
| Switzerland | 2,291.7 | 2,571.9 | 3,551.6 | 4,290.6 | 5,968.4 | 5,954.6 | 6,835 |
| United Kingdom | 7,312.2 | 7,647.3 | 8,219.3 | 7,665.4 | 8,405.4 | 6,706.9 | 7,066 |
| North America | 23,827.3 | 25,498.3 | 21,235.2 | 29,102.7 | 29,875.9 | 36,322.7 | 38,280 |
| United States of America | 23,199.1 | 24,729.7 | 20,524.8 | 28,176.3 | 28,744.0 | 34,886.1 | 37,16 |
| Canada | 450.1 | 594.7 | 710.4 | 731.1 | 1,131.8 | 1,250.2 | 1,11! |
| Oceania | 3,439.6 | 3,856.0 | 5,635.7 | 6,590.3 | 7,410.0 | 8,030.7 | 8,882 |
| Australia | 2,785.4 | 3,121.5 | 4,464.1 | 4,927.8 | 5,558.8 | 5,542.7 | 5,394 |
| New Zealand | 341.8 | 335.5 | 561.4 | 812.2 | 804.5 | 765.1 | 978 |

(continued on the next page)

 $Notes: \qquad \hbox{Figures presented in this table are solely compiled from the International Trade in Services Survey}.$

15.15 IMPORTS OF SERVICES BY MAJOR TRADING PARTNER (continued)

| NΛi | llion | Dol | larc |
|-----|-------|-----|------|
| | | | |

| | | | | | | IV | illion Dollars |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------------|
| Trading Partner | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| South and Central America | | | | | | | |
| and the Caribbean | 6,515.7 | 8,156.5 | 11,546.4 | 13,219.8 | 16,474.7 | 15,705.7 | 12,588.7 |
| Panama | 340.5 | 476.8 | 457.1 | 522.6 | 947.0 | 1,266.0 | 1,237.4 |
| Africa | 1,066.5 | 1,140.8 | 1,466.4 | 1,729.0 | 2,583.1 | 3,394.4 | 3,376.0 |
| South Africa | 97.2 | 147.9 | 162.8 | 236.8 | 323.3 | 333.6 | 324.3 |
| | | | | | | | |
| ASEAN 1 | 6,385.7 | 7,021.0 | 7,595.4 | 8,071.1 | 9,006.8 | 9,272.7 | 10,333.1 |
| European Union (EU-28) ² | 18,790.6 | 22,729.7 | 24,764.0 | 26,177.7 | 32,871.8 | 32,465.3 | 35,124.5 |

Notes: Figures presented in this table are solely compiled from the International Trade in Services Survey.

- 1 ASEAN includes Brunei Darussalam, Cambodia, Indonesia, Lao People's Democratic Republic, Malaysia, Myanmar, Philippines, Thailand and Viet Nam.
- 2 The European Union (EU-28) comprises Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Rep, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovak Rep, Slovenia, Spain, Sweden and the United Kingdom.



Transport



16 Transport



Maritime Statistics

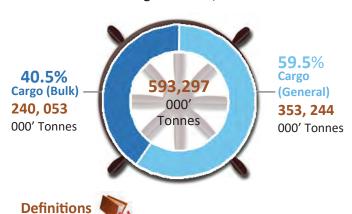


The Maritime and Port Authority of Singapore (MPA) is responsible for Singapore's port and maritime development, taking on the roles of port authority, port regulator, port planner, International Maritime Centre (IMC) champion, and national maritime representative. MPA partners the industry and other agencies to enhance safety, security and environmental protection in Singapore's port waters, facilitate port operations and growth, expand the cluster of maritime ancillary services, and maritime research and development as well as manpower development.

Singapore is both a premier global hub port, as well as an international maritime centre for ship owners, operators and other maritime service providers. In total, the Singapore maritime cluster comprises over 5,000 establishments.

Statistics on vessel traffic, cargo volumes and other port activities within Singapore port waters are collated by MPA.

Sea Cargo Handled, 2016

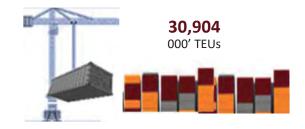


Vessel arrivals: Refers to the number of vessels exceeding 75 Gross Tonnage that arrive at the Port of Singapore during the year.

Total cargo: Refers to the volume of cargo handled by vessels at the Port of Singapore. The figures include transhipment cargo.

Total container throughput: Refers to the total number of containers (expressed in Twenty-Foot Equivalent Units) loaded and unloaded at the Port of Singapore. The figures include transhipment containers.

Container Throughput, 2016



Bunker sales: Refers to the volume of bunkers delivered within the Port of Singapore to vessels that are on international voyages.

Singapore Registry of Ships: Refers to the total number and tonnage of vessels registered under the Singapore flag.

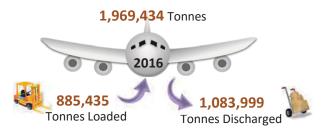
Civil Air Traffic

The Civil Aviation Authority of Singapore air (CAAS) provides navigation services, regulates, promotes and facilitates the use and development of air services, airports and aerospace industries, as well as promotes and facilitates the development and improvement of civil aviation capabilities and skills in Singapore. Following the corporatisation of Changi Airport on 1 July 2009, the operations of Changi Airport, including the collection of data on passengers, airfreight, airmail and aircraft traffic passing through Changi Airport and Seletar Aerodrome, are managed by Changi Airport Group Pte Ltd (CAG).

Statistics on passenger, airfreight, parcel mail and aircraft movements are compiled by CAAS from the data collected by CAG.

Transport ■ 🦋

Air Cargo Handled 1, 2016



Refers to Changi Airport only. Excludes passenger baggage, diplomatic cargo and aircraft stores.

Public Roads



Public roads are classified into expressways, arterial roads, collector roads and local access roads ². Data on public roads refer to the length of roads measured in lane-kilometres.

Paved Roads, 2016



Definitions



Expressways: Refers to roads that provide planned long-distance mobility from one part of the island to another without the interruption of traffic lights.

Arterial Roads: Refers to roads connecting an expressway with roads surrounding or passing through estate developments. They also improve traffic circulation between adjacent towns.

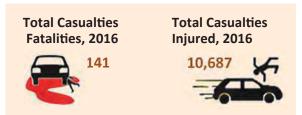
Collector Roads: Refers to roads forming links between local roads and arterial roads and providing links to building or land developments.

Local Access Roads: Refers to roads that provide direct access to buildings and other developments and that only connect with collector roads.

Road Traffic Accident Casualties



Data on road traffic accident casualties are compiled from police records of fatal and injury traffic accidents that occurred on Singapore roads.



Public Transport

The Land Transport Authority (LTA) is a statutory board under the Ministry of Transport, which spearheads land transport developments in Singapore. As the agency responsible for planning, designing, building and maintaining Singapore's land transport infrastructure and systems, the LTA aims to bring about a greener and more inclusive public transport system, complemented by convenient options to walk and cycle for commuters in their daily travel. The LTA leverages on technology to strengthen the rail and bus infrastructure and provide exciting options for future land transport.

Vehicles Registered



All vehicles to be kept or used in Singapore must be registered with the LTA.

Motor Vehicle Population ³, 2016



³ Include vehicles which are exempted from Vehicle Quota System and all other taxes.

Road length in lane-km data includes all public roads maintained by the Land Transport Authority. It excludes all roads maintained by the other agencies and on privately-owned areas.

16.1 SEA CARGO AND SHIPPING STATISTICS

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-----------------------------|-------------|---------|---------|---------|---------|---------|---------|---------|
| Total Cargo | '000 Tonnes | 503,342 | 531,176 | 538,012 | 560,888 | 581,268 | 575,846 | 593,297 |
| General | '000 Tonnes | 313,683 | 335,511 | 353,542 | 365,116 | 384,418 | 361,859 | 353,244 |
| Bulk | '000 Tonnes | 189,659 | 195,665 | 184,471 | 195,772 | 196,850 | 213,987 | 240,053 |
| Total Container Throughput | '000 TEUs | 28,431 | 29,938 | 31,649 | 32,579 | 33,869 | 30,922 | 30,904 |
| Bunker Sales | '000 Tonnes | 40,853 | 43,154 | 42,685 | 42,682 | 42,417 | 45,155 | 48,615 |
| Singapore Registry of Ships | No. | 3,978 | 4,111 | 4,232 | 4,379 | 4,595 | 4,739 | 4,717 |
| (End of Period) | '000 GT | 48,783 | 57,360 | 65,018 | 73,615 | 82,249 | 86,300 | 88,023 |

Source: Maritime and Port Authority of Singapore

Notes: GT refers to Gross Tonnage

TEU refers to Twenty-Foot Equivalent Unit

16.2 VESSEL ARRIVALS 1 BY TYPE

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | |
|----------------------------|-----------|----------------------------|-----------|-----------|-----------|-----------|-----------|--|--|
| | | | | Number | | | | | |
| Гotal | 127,299 | 127,998 | 130,422 | 139,417 | 134,883 | 132,922 | 138,998 | | |
| Container ² | 18,967 | 19,290 | 18,567 | 17,798 | 17,219 | 17,722 | 17,932 | | |
| Freighter ³ | 8,742 | 8,530 | 8,103 | 7,990 | 7,591 | 7,900 | 8,686 | | |
| Bulk Carrier ⁴ | 12,234 | 13,093 | 13,722 | 14,530 | 14,803 | 16,560 | 16,960 | | |
| Tanker ⁵ | 21,355 | 22,280 | 22,230 | 22,617 | 22,218 | 22,062 | 23,695 | | |
| Passenger ⁶ | 31,739 | 33,863 | 36,618 | 44,492 | 41,934 | 38,868 | 41,717 | | |
| Barge ⁷ | 11,972 | 10,637 | 10,668 | 10,838 | 10,186 | 9,558 | 9,496 | | |
| Tug ⁸ | 12,551 | 11,065 | 11,102 | 11,732 | 11,101 | 10,891 | 11,343 | | |
| Miscellaneous ⁹ | 9,739 | 9,240 | 9,412 | 9,420 | 9,831 | 9,361 | 9,169 | | |
| | | Shipping Tonnage ('000 GT) | | | | | | | |
| Гotal | 1,919,408 | 2,120,282 | 2,254,353 | 2,326,121 | 2,371,107 | 2,504,155 | 2,662,695 | | |
| Container ² | 613,709 | 657,025 | 684,720 | 709,935 | 739,547 | 774,773 | 819,014 | | |
| Freighter ³ | 42,853 | 43,222 | 41,228 | 43,201 | 40,608 | 41,852 | 50,694 | | |
| Bulk Carrier 4 | 534,000 | 604,740 | 654,655 | 683,385 | 694,154 | 775,329 | 819,883 | | |
| Tanker ⁵ | 569,394 | 652,682 | 693,839 | 704,844 | 707,464 | 719,445 | 780,849 | | |
| Passenger ⁶ | 30,239 | 27,146 | 29,198 | 33,563 | 29,879 | 32,213 | 36,171 | | |
| Barge ⁷ | 19,182 | 17,255 | 18,174 | 18,959 | 17,562 | 15,763 | 15,177 | | |
| Tug ⁸ | 2,799 | 2,557 | 2,748 | 2,742 | 2,505 | 2,477 | 2,699 | | |
| Miscellaneous | 107,232 | 115,655 | 129,791 | 129,492 | 139,389 | 142,303 | 138,207 | | |

Source: Maritime and Port Authority of Singapore

- 1 Refers to the number of vessels exceeding 75 Gross Tonnage that arrive at the Port of Singapore during the reference period.
- 2 Refers to a ship structured specifically to carry containers.
- 3 Refers to a ship designed to carry general goods in parcel or in bulk form.
- 4 Refers to a ship which is intended primarily to carry dry cargo in bulk, including such types as ore carriers and combination carriers.
- 5 Refers to a ship constructed or adapted primarily to carry oil or gas in bulk in its cargo spaces and includes combination carriers.
- 6 Refers to a ship which carries more than twelve passengers.
- 7 Refers to a long flat-bottomed boat for carrying cargo, either under its own power or towed by another.
- 8 Refers to a boat used for pushing or towing other vessels.
- 9 Refers to vessels not categorised as container, freighter, bulk carrier, tanker, passenger, barge or tug.

16.3 VESSEL ARRIVALS 1 BY PURPOSE 2

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|----------|-----------|-----------|-----------|----------------|-----------|-----------|-----------|
| | | | | Number | | | |
| | | | | | | | |
| Cargo | 52,548 | 51,515 | 50,562 | 50,288 | 49,890 | 48,842 | 49,830 |
| Repairs | 8,631 | 8,235 | 6,657 | 6,881 | 6,335 | 4,141 | 3,762 |
| Bunkers | 35,572 | 37,753 | 38,082 | 38,614 | 38,299 | 40,763 | 42,380 |
| Supplies | 21,629 | 22,685 | 24,166 | 26,334 | 27,340 | 29,756 | 31,265 |
| Others | 64,145 | 65,918 | 69,885 | 78,904 | 77,457 | 77,696 | 81,821 |
| | | | Shipping | g Tonnage ('00 | 0 GT) | | |
| Cargo | 908,258 | 970,323 | 1,009,294 | 1,058,170 | 1,101,282 | 1,132,433 | 1,178,540 |
| Repairs | 34,593 | 37,267 | 34,886 | 34,076 | 40,247 | 40,898 | 30,221 |
| Bunkers | 1,376,135 | 1,544,991 | 1,643,832 | 1,692,737 | 1,691,125 | 1,784,106 | 1,884,256 |
| Supplies | 618,259 | 719,240 | 823,949 | 933,729 | 973,573 | 1,065,789 | 1,137,293 |
| Others | 613,812 | 720,272 | 810,699 | 920,117 | 1,076,411 | 1,230,833 | 1,274,139 |

Source: Maritime and Port Authority of Singapore

¹ Refers to the number of vessels exceeding 75 Gross Tonnage that arrive at the Port of Singapore during the reference period.

² The count of Vessel Arrivals by Purpose is based on the number of purposes a vessel performs in the Port of Singapore and a single vessel can perform more than one purpose.

16.4 CIVIL AIRCRAFT ARRIVALS/DEPARTURES, PASSENGERS AND MAIL

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|------------|--------|---------|---------|---------|---------|---------|---------|---------|
| | | | | | | | | |
| Aircraft | | | | | | | | |
| Arrivals | No. | 131,769 | 150,827 | 162,349 | 171,850 | 170,680 | 173,152 | 180,251 |
| Departures | No. | 131,824 | 150,884 | 162,373 | 171,915 | 170,706 | 173,182 | 180,239 |
| Passengers | | | | | | | | |
| Arriving | '000 | 20,486 | 22,778 | 25,056 | 26,500 | 26,669 | 27,491 | 29,204 |
| Departing | '000 | 20,437 | 22,651 | 24,854 | 26,275 | 26,620 | 27,344 | 28,954 |
| In Transit | '000 | 1,115 | 1,115 | 1,272 | 951 | 804 | 613 | 540 |
| Mail | | | | | | | | |
| In-coming | Tonnes | 11,165 | 14,361 | 15,789 | 14,770 | 14,168 | 14,459 | 14,901 |
| Out-going | Tonnes | 16,027 | 19,235 | 19,844 | 20,973 | 22,163 | 19,386 | 21,990 |
| | | | | | | | | |

Notes: Refers to Changi Airport only.

16.5 AIR CARGO DISCHARGED BY REGION/COUNTRY OF ORIGIN

| 10.5 | AIR CARGO DISCHARG | ED BY REGIO | N/COUNTRY | OF ORIGIN | | | |
|-----------------|--------------------|-------------|-----------|-----------|-----------|-----------|-----------|
| | | | | | | | Tonnes |
| Region/Country | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 941,403 | 983,110 | 975,842 | 995,808 | 1,004,559 | 1,015,296 | 1,083,999 |
| South East Asia | 160,634 | 162,933 | 161,444 | 150,642 | 162,186 | 155,838 | 163,745 |
| Indonesia | 59,368 | 63,787 | 58,058 | 57,735 | 57,303 | 53,803 | 55,215 |
| Malaysia | 18,412 | 17,529 | 14,457 | 13,836 | 15,331 | 16,711 | 17,401 |
| Philippines | 15,126 | 13,527 | 12,648 | 11,360 | 11,684 | 11,032 | 11,401 |
| Thailand | 49,963 | 52,470 | 57,062 | 46,545 | 53,929 | 51,299 | 53,440 |
| Vietnam | 14,584 | 12,904 | 15,370 | 16,865 | 19,468 | 18,336 | 20,292 |
| North East Asia | 435,604 | 455,946 | 458,739 | 465,479 | 478,074 | 470,155 | 486,635 |
| China | 126,636 | 140,730 | 152,143 | 153,717 | 154,635 | 147,863 | 152,348 |
| Hong Kong | 119,850 | 128,050 | 135,449 | 138,482 | 140,056 | 139,585 | 140,873 |
| Japan | 69,998 | 67,479 | 60,775 | 63,751 | 72,660 | 78,870 | 85,340 |
| South Asia | 60,784 | 64,206 | 62,796 | 70,103 | 64,752 | 62,486 | 71,894 |
| Middle East | 22,536 | 22,859 | 26,936 | 30,280 | 30,691 | 34,671 | 39,980 |
| Oceania | 83,365 | 83,869 | 85,871 | 93,229 | 97,156 | 121,314 | 133,401 |
| Europe | 147,350 | 158,544 | 150,280 | 160,725 | 151,968 | 152,347 | 163,696 |
| France | 8,949 | 9,714 | 8,208 | 8,446 | 9,095 | 8,748 | 8,113 |
| Germany | 20,627 | 25,349 | 25,276 | 27,567 | 16,807 | 14,681 | 15,680 |
| United Kingdom | 21,522 | 23,110 | 22,902 | 27,436 | 25,449 | 25,224 | 22,757 |
| North America | 27,106 | 30,467 | 25,183 | 21,510 | 16,678 | 15,885 | 19,010 |
| Other Regions | 4,024 | 4,285 | 4,593 | 3,840 | 3,055 | 2,598 | 3,059 |
| Not Stated | na | na | na | na | na | na | 2,579 |

Notes: Refers to Changi Airport only.

Data exclude passenger baggage, diplomatic cargo and aircraft stores.

16.6 AIR CARGO LOADED BY REGION/COUNTRY OF DESTINATION

| | | | | | | | Tonnes |
|-----------------|---------|---------|---------|---------|---------|---------|---------|
| Region/Country | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 872,406 | 882,142 | 853,278 | 841,894 | 839,240 | 837,791 | 885,435 |
| South East Asia | 186,976 | 183,053 | 187,900 | 185,273 | 182,370 | 175,283 | 179,785 |
| Indonesia | 62,726 | 67,358 | 65,095 | 69,638 | 60,832 | 55,664 | 60,099 |
| Malaysia | 31,494 | 28,977 | 29,054 | 29,881 | 29,881 | 29,170 | 23,531 |
| Philippines | 16,309 | 15,332 | 16,487 | 16,144 | 20,316 | 20,439 | 20,387 |
| Thailand | 50,213 | 48,082 | 55,639 | 44,743 | 45,338 | 43,098 | 43,005 |
| Vietnam | 20,987 | 17,752 | 15,684 | 16,986 | 17,530 | 17,935 | 22,570 |
| North East Asia | 283,049 | 296,887 | 275,545 | 279,504 | 281,000 | 285,797 | 307,118 |
| China | 84,084 | 87,420 | 78,801 | 82,602 | 79,801 | 85,106 | 86,088 |
| Hong Kong | 74,531 | 70,945 | 70,264 | 73,352 | 73,503 | 74,262 | 86,108 |
| Japan | 65,566 | 69,615 | 65,373 | 61,167 | 67,106 | 68,171 | 67,485 |
| South Asia | 76,527 | 74,211 | 69,059 | 67,213 | 68,605 | 68,773 | 75,280 |
| Middle East | 31,144 | 30,974 | 33,049 | 35,047 | 34,591 | 37,790 | 40,048 |
| Oceania | 107,074 | 115,393 | 120,755 | 118,970 | 123,250 | 125,467 | 121,686 |
| Europe | 134,549 | 131,523 | 118,869 | 115,514 | 116,346 | 111,300 | 120,225 |
| France | 9,549 | 8,910 | 8,022 | 8,247 | 8,245 | 7,676 | 9,151 |
| Germany | 28,855 | 26,845 | 25,351 | 21,743 | 19,317 | 18,124 | 19,889 |
| United Kingdom | 29,669 | 30,048 | 31,723 | 33,908 | 35,370 | 35,720 | 37,537 |
| North America | 42,209 | 37,682 | 31,654 | 29,100 | 22,183 | 24,069 | 29,756 |
| Other Regions | 10,878 | 12,419 | 16,446 | 11,274 | 10,896 | 9,311 | 10,215 |
| Not Stated | na | na | na | na | na | na | 1,322 |

Notes: Refers to Changi Airport only.

Data exclude passenger baggage, diplomatic cargo and aircraft stores.

16.7 AIR PASSENGER ARRIVALS BY REGION/COUNTRY OF EMBARKATION

| | | | | | | | Thousand |
|-----------------|--------|--------|--------|--------|--------|--------|----------|
| Region/Country | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 20,486 | 22,778 | 25,056 | 26,500 | 26,669 | 27,491 | 29,204 |
| South East Asia | 8,812 | 10,037 | 11,013 | 11,929 | 11,807 | 12,066 | 12,942 |
| Indonesia | 2,761 | 3,154 | 3,401 | 3,716 | 3,760 | 3,489 | 3,741 |
| Malaysia | 2,212 | 2,412 | 2,485 | 2,712 | 2,728 | 2,846 | 3,100 |
| Philippines | 967 | 1,191 | 1,251 | 1,279 | 1,273 | 1,314 | 1,353 |
| Thailand | 1,727 | 2,038 | 2,475 | 2,699 | 2,375 | 2,693 | 2,885 |
| Vietnam | 725 | 797 | 881 | 905 | 988 | 1,060 | 1,153 |
| North East Asia | 4,962 | 5,631 | 6,214 | 6,637 | 6,901 | 7,161 | 7,642 |
| China | 1,679 | 1,855 | 2,180 | 2,322 | 2,298 | 2,449 | 2,815 |
| Hong Kong | 1,435 | 1,701 | 1,717 | 1,716 | 1,870 | 1,843 | 1,827 |
| Japan | 889 | 914 | 1,049 | 1,209 | 1,286 | 1,362 | 1,402 |
| South Asia | 1,711 | 1,858 | 2,106 | 2,226 | 2,339 | 2,417 | 2,546 |
| Middle East | 420 | 461 | 530 | 605 | 639 | 749 | 795 |
| Oceania | 2,287 | 2,411 | 2,651 | 2,715 | 2,707 | 2,828 | 2,970 |
| Europe | 1,866 | 1,961 | 2,095 | 1,975 | 1,936 | 1,936 | 1,939 |
| France | 236 | 231 | 239 | 240 | 215 | 207 | 209 |
| Germany | 394 | 408 | 451 | 393 | 367 | 355 | 366 |
| United Kingdom | 654 | 692 | 722 | 633 | 594 | 602 | 601 |
| North America | 295 | 308 | 337 | 315 | 246 | 249 | 273 |
| Other Regions | 134 | 111 | 111 | 101 | 95 | 85 | 96 |

Notes: Refers to Changi Airport only.

Data exclude transit passengers who continued their journey on the same flight.

16.8 AIR PASSENGER DEPARTURES BY REGION/COUNTRY OF DISEMBARKATION

| | | | | | | | Thousand |
|-----------------|--------|--------|--------|--------|--------|--------|----------|
| Region/Country | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 20,437 | 22,651 | 24,854 | 26,275 | 26,620 | 27,344 | 28,954 |
| South East Asia | 8,755 | 9,907 | 10,873 | 11,753 | 11,725 | 11,902 | 12,689 |
| Indonesia | 2,790 | 3,149 | 3,420 | 3,704 | 3,758 | 3,483 | 3,730 |
| Malaysia | 2,226 | 2,416 | 2,530 | 2,739 | 2,743 | 2,826 | 3,048 |
| Philippines | 934 | 1,156 | 1,189 | 1,236 | 1,238 | 1,285 | 1,336 |
| Thailand | 1,670 | 1,946 | 2,352 | 2,567 | 2,333 | 2,603 | 2,742 |
| Vietnam | 732 | 805 | 868 | 900 | 981 | 1,049 | 1,134 |
| North East Asia | 4,973 | 5,631 | 6,165 | 6,609 | 6,877 | 7,173 | 7,639 |
| China | 1,703 | 1,868 | 2,183 | 2,321 | 2,293 | 2,463 | 2,837 |
| Hong Kong | 1,414 | 1,691 | 1,684 | 1,692 | 1,846 | 1,829 | 1,793 |
| Japan | 894 | 906 | 1,044 | 1,212 | 1,287 | 1,388 | 1,410 |
| South Asia | 1,709 | 1,839 | 2,050 | 2,131 | 2,278 | 2,333 | 2,489 |
| Middle East | 412 | 448 | 545 | 623 | 643 | 742 | 786 |
| Oceania | 2,292 | 2,486 | 2,709 | 2,770 | 2,817 | 2,904 | 3,001 |
| Europe | 1,869 | 1,924 | 2,080 | 1,982 | 1,945 | 1,967 | 1,996 |
| France | 236 | 228 | 236 | 242 | 218 | 213 | 213 |
| Germany | 394 | 403 | 458 | 391 | 374 | 360 | 368 |
| United Kingdom | 647 | 658 | 693 | 629 | 586 | 603 | 635 |
| North America | 286 | 297 | 314 | 302 | 237 | 238 | 259 |
| Other Regions | 140 | 119 | 118 | 105 | 98 | 87 | 94 |

Notes: Refers to Changi Airport only.

Data exclude transit passengers who continued their journey on the same flight.

PUBLIC ROADS
(End of Period)

Lane-Kilometres 2011 2012 2013 2014 2015 2016 2010 **Total Paved Roads** 8,895 9,045 9,081 9,178 9,233 9,246 9,310 1,059 1,059 1,059 1,093 1,093 1,093 1,107 Expressways 3,054 **Arterial Roads** 2,938 3,027 3,100 3,146 3,147 3,175 1,584 **Collector Roads** 1,526 1,580 1,593 1,599 1,607 1,622 **Local Access Roads** 3,372 3,380 3,384 3,392 3,394 3,399 3,406

Source: Land Transport Authority

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=5248

16.10 MOTOR VEHICLE POPULATION ¹ BY TYPE OF VEHICLE (End of Period)

| | | | | | | | Number |
|------------------------|---------|---------|---------|---------|---------|---------|---------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 945,829 | 956,704 | 969,910 | 974,170 | 972,037 | 957,246 | 956,430 |
| Cars ² | 584,399 | 592,361 | 605,149 | 607,292 | 600,176 | 575,353 | 552,427 |
| Rental Cars | 13,347 | 13,919 | 14,862 | 16,396 | 18,847 | 29,369 | 51,336 |
| Taxis | 26,073 | 27,051 | 28,210 | 27,695 | 28,736 | 28,259 | 27,534 |
| Buses | 16,309 | 17,046 | 17,162 | 17,509 | 17,554 | 18,183 | 18,804 |
| Motorcycles & Scooters | 148,160 | 146,559 | 144,110 | 144,934 | 145,026 | 143,900 | 143,052 |
| Goods & Other Vehicles | 157,541 | 159,768 | 160,417 | 160,344 | 161,698 | 162,182 | 163,277 |
| | | | | | | | |

Source: Land Transport Authority

¹ Includes vehicles which are exempted from Vehicle Quota System and all other taxes.

² Includes private and company cars.

16.11 CAR POPULATION BY CC RATING (End of Period)

| | | | | | | | Number |
|-------------------|---------|---------|---------|---------|---------|---------|---------|
| CC Rating | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 595,185 | 603,723 | 617,570 | 621,345 | 616,609 | 602,311 | 601,257 |
| 1,000 cc & below | 7,367 | 6,622 | 6,490 | 6,364 | 6,189 | 5,799 | 4,821 |
| 1,001 to 1,600 cc | 331,246 | 329,957 | 335,409 | 335,419 | 331,104 | 321,082 | 325,700 |
| 1,601 to 2,000 cc | 153,471 | 157,846 | 162,217 | 164,768 | 164,424 | 162,791 | 165,042 |
| 2,001 to 3,000 cc | 87,986 | 92,432 | 94,712 | 95,295 | 95,251 | 93,358 | 87,832 |
| 3,001 cc & above | 15,115 | 16,866 | 18,742 | 19,499 | 19,641 | 19,281 | 17,862 |
| | | | | | | | |

Source: Land Transport Authority

Notes: Data refer to private cars, company cars and rental cars only.

They do not include taxis and tax exempted cars.

 $Download\ time\ series\ at\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=5319$

AGE DISTRIBUTION OF CARS (End of Period)

| | , | | | | | | Number |
|---------------|---------|---------|---------|---------|---------|---------|---------|
| Age (Years) | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 595,185 | 603,723 | 617,570 | 621,345 | 616,609 | 602,311 | 601,257 |
| Below 1 | 41,407 | 27,748 | 27,297 | 21,952 | 28,547 | 57,387 | 87,157 |
| 1 - below 2 | 68,503 | 41,426 | 27,759 | 27,299 | 21,943 | 28,540 | 57,370 |
| 2 - below 3 | 96,887 | 68,512 | 41,439 | 27,747 | 27,288 | 21,932 | 28,523 |
| 3 - below 4 | 105,917 | 96,877 | 68,512 | 41,420 | 27,727 | 27,267 | 21,759 |
| 4 - below 5 | 115,583 | 105,783 | 96,822 | 68,488 | 41,402 | 27,701 | 27,144 |
| 5 - below 6 | 88,437 | 115,335 | 105,599 | 96,742 | 68,460 | 41,372 | 27,635 |
| 6 - below 7 | 37,564 | 87,554 | 115,056 | 105,403 | 96,674 | 68,437 | 41,318 |
| 7 - below 8 | 14,014 | 34,178 | 86,307 | 114,665 | 105,216 | 96,602 | 68,362 |
| 8 - below 9 | 4,713 | 11,710 | 29,983 | 84,212 | 113,962 | 104,943 | 96,263 |
| 9 - below 10 | 3,790 | 3,376 | 8,089 | 23,039 | 73,764 | 107,529 | 97,596 |
| 10 - below 11 | 558 | 588 | 368 | 628 | 1,840 | 9,561 | 28,820 |
| 11 - below 12 | 501 | 558 | 585 | 362 | 614 | 1,817 | 9,378 |
| 12 - below 13 | 581 | 501 | 558 | 582 | 357 | 592 | 1,749 |
| 13 - below 14 | 475 | 575 | 500 | 556 | 567 | 345 | 554 |
| 14 - below 15 | 1,082 | 464 | 559 | 493 | 533 | 526 | 305 |
| 15 & above | 15,173 | 8,538 | 8,137 | 7,757 | 7,715 | 7,760 | 7,324 |

Source: Land Transport Authority

 $\label{eq:Notes:Data refer to private cars, company cars and rental cars only.}$

They do not include taxis and tax exempted cars.

16.13 ROAD TRAFFIC ACCIDENT CASUALTIES

| | | | | | | | Number |
|-------------------------------------------------------------|--------|--------|--------|-------|-------|--------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total Casualties | | | | | | | |
| Fatalities | 193 | 195 | 168 | 160 | 155 | 151 | 141 |
| Injured | 11,328 | 10,611 | 10,253 | 9,751 | 9,858 | 10,412 | 10,687 |
| Pedestrians | | | | | | | |
| Fatalities | 55 | 49 | 44 | 43 | 45 | 43 | 47 |
| Injured | 1,057 | 1,049 | 1,069 | 989 | 883 | 973 | 1,065 |
| Cyclists & Pillions ¹ | | | | | | | |
| Fatalities | 16 | 15 | 16 | 15 | 15 | 17 | 20 |
| Injured | 562 | 513 | 442 | 436 | 503 | 606 | 594 |
| Motor Cyclists & Pillion Riders | | | | | | | |
| Fatalities | 89 | 99 | 76 | 73 | 74 | 72 | 62 |
| Injured | 5,490 | 5,003 | 4,800 | 4,383 | 4,634 | 4,928 | 5,102 |
| Motor Vehicle Drivers & Passengers Cars & Station Wagons | | | | | | | |
| Fatalities | 14 | 15 | 14 | 16 | 12 | 7 | 8 |
| Injured | 2,839 | 2,982 | 2,782 | 2,811 | 2,686 | 2,746 | 2,698 |
| Goods Vans & Pick-Ups | | | | | | | |
| Fatalities | 3 | 1 | 0 | 3 | 2 | 2 | 1 |
| Injured | 282 | 258 | 234 | 226 | 193 | 219 | 235 |
| Lorries, Tipper Trucks & Trailers | | | | | | | |
| Fatalities | 9 | 15 | 11 | 9 | 6 | 8 | 3 |
| Injured | 580 | 531 | 574 | 647 | 578 | 554 | 540 |
| Buses | | | | | | | |
| Fatalities | 2 | 1 | 4 | 1 | 0 | 2 | 0 |
| Injured | 481 | 245 | 320 | 243 | 342 | 358 | 415 |
| Others | | | | | | | |
| Fatalities | 5 | 0 | 3 | 0 | 1 | 0 | 0 |
| Injured | 37 | 30 | 32 | 16 | 39 | 28 | 38 |

Source : Singapore Police Force

¹ Includes those using power assisted bicycles.

16.14 VEHICLES INVOLVED IN FATAL AND INJURY ROAD TRAFFIC ACCIDENTS BY TYPE OF VEHICLE

| | | | | | | | Numbe |
|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 15,569 | 15,296 | 14,357 | 13,906 | 14,322 | 14,982 | 15,369 |
| Bicycles and Power Assisted Bicycles | 590 | 538 | 472 | 466 | 530 | 643 | 633 |
| Motor Cycles & Scooters | 5,100 | 4,801 | 4,572 | 4,231 | 4,506 | 4,694 | 4,913 |
| Motor Cars & Station Wagons | 7,168 | 7,308 | 6,821 | 6,637 | 6,723 | 6,930 | 7,172 |
| Goods Vans & Pick-Ups | 697 | 702 | 592 | 630 | 576 | 617 | 657 |
| Lorries, Tipper Trucks & Trailers | 1,372 | 1,364 | 1,345 | 1,361 | 1,384 | 1,413 | 1,321 |
| Buses | 557 | 496 | 465 | 499 | 505 | 568 | 572 |
| Others | 85 | 87 | 90 | 82 | 98 | 117 | 101 |

Source : Singapore Police Force

16.15 PUBLIC TRANSPORT OPERATION AND RIDERSHIP

| Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|----------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | | | | | |
| km | 158.7 | 175.3 | 177.7 | 182.0 | 183.0 | 199.6 | 199.6 |
| km | 129.9 | 146.5 | 148.9 | 153.2 | 154.2 | 170.8 | 170.8 |
| km | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 |
| | | | | | | | |
| Train-km ('000) | 20,265 | 22,465 | 26,492 | 26,420 | 28,173 | 28,795 | 34,194 |
| Car-km ('000) | 3,311 | 3,620 | 3,883 | 4,435 | 4,787 | 5,937 | 6,620 |
| | | | | | | | |
| '000 passenger-trips | 2,069 | 2,295 | 2,525 | 2,623 | 2,762 | 2,871 | 3,095 |
| '000 passenger-trips | 100 | 111 | 124 | 132 | 137 | 153 | 180 |
| '000 passenger-trips | 3,199 | 3,385 | 3,481 | 3,601 | 3,751 | 3,891 | 3,939 |
| '000 passenger-trips | 912 | 933 | 967 | 967 | 1,020 | 1,010 | 954 |
| | km km km Train-km ('000) Car-km ('000) '000 passenger-trips '000 passenger-trips | km 158.7 km 129.9 km 28.8 Train-km ('000) 20,265 Car-km ('000) 3,311 | km 158.7 175.3 km 129.9 146.5 km 28.8 28.8 Train-km ('000) 20,265 22,465 Car-km ('000) 3,311 3,620 '000 passenger-trips 2,069 2,295 '000 passenger-trips 100 111 '000 passenger-trips 3,199 3,385 | km 158.7 175.3 177.7 km 129.9 146.5 148.9 km 28.8 28.8 28.8 28.8 Train-km ('000) 20,265 22,465 26,492 Car-km ('000) 3,311 3,620 3,883 '000 passenger-trips 2,069 2,295 2,525 '000 passenger-trips 100 111 124 '000 passenger-trips 3,199 3,385 3,481 | km 158.7 175.3 177.7 182.0 km 129.9 146.5 148.9 153.2 km 28.8 28.8 28.8 28.8 Train-km ('000) 20,265 22,465 26,492 26,420 Car-km ('000) 3,311 3,620 3,883 4,435 '000 passenger-trips 2,069 2,295 2,525 2,623 '000 passenger-trips 100 111 124 132 '000 passenger-trips 3,199 3,385 3,481 3,601 | km 158.7 175.3 177.7 182.0 183.0 km 129.9 146.5 148.9 153.2 154.2 km 28.8 28.8 28.8 28.8 28.8 Train-km ('000) 20,265 22,465 26,492 26,420 28,173 Car-km ('000) 3,311 3,620 3,883 4,435 4,787 '000 passenger-trips 2,069 2,295 2,525 2,623 2,762 '000 passenger-trips 100 111 124 132 137 '000 passenger-trips 3,199 3,385 3,481 3,601 3,751 | km 158.7 175.3 177.7 182.0 183.0 199.6 km 129.9 146.5 148.9 153.2 154.2 170.8 km 28.8 28.8 28.8 28.8 28.8 28.8 28.8 28.8 Train-km ('000) 20,265 22,465 26,492 26,420 28,173 28,795 Car-km ('000) 3,311 3,620 3,883 4,435 4,787 5,937 '000 passenger-trips 2,069 2,295 2,525 2,623 2,762 2,871 '000 passenger-trips 100 111 124 132 137 153 '000 passenger-trips 3,199 3,385 3,481 3,601 3,751 3,891 |

Source Land Transport Authority

1/

InfoComm and Media

InfoComm and Media



Revenue of the Information and **Communication Technology Industry**



The revenue of the information and communication technology industry refers to all sales income that is derived from carrying out the main activities of the enterprise from the industry, and is booked in Singapore, as reflected in total receipts.

It includes the total value of services rendered and commissions earned, agency fees, as well as administration and management fees, but excludes Goods and Services Tax and other sources of income such as rental and interests earned. All manufacturing output and sales to distributors are also excluded.

From 1999, the survey frame comprises companies with business activities relating to IT products and services as classified by the Singapore Standard Industrial Classification (SSIC), companies in the telecommunications business and companies providing content services. Companies based on the 5-digit SSIC as identified by the Info-communications Media Development Authority of Singapore (IMDA) are selected from the Commercial Establishment Information System (CEIS) database.

Radio and Television ON AIR

Mediacorp has the widest range of media platforms in Singapore, spanning digital, television, radio and print media. It pioneered the development of Singapore's broadcasting industry, with the broadcast of radio in 1936 and television in 1963. Today, Mediacorp has over 50 products in four languages (English, Mandarin, Malay and Tamil).

SPH Radio Pte Ltd manages and operates three radio stations, ONE FM 91.3, Kiss92 and UFM 100.3. ONE FM 91.3 is a 24-hour English music station that caters to male listeners aged 30 years and over, offering music that are popular among this demographic group, together with up-to-date sports and men's lifestyle news from leading sources.

Kiss92 is a 24-hour English music station that caters to female listeners aged 25 years and over. It provides in-depth content for women and families, coupled with adult contemporary music. Kiss92 is one of the nation's fastest growing radio stations, reaching out to almost 600,000 listeners weekly.

UFM 100.3 is a 24-hour Mandarin infotainment station that caters to listeners aged between 35 and 49 years. It delivers relevant and informative content in current affairs, health and wellness, financial planning, property investment, lifestyle, music and entertainment in a lively style, engaging more than 350,000 listeners weekly.

SAFRA Radio is a radio broadcaster specialising in defence-related information and lifestyle content including travel, food and movies. It has two radio stations under its wings, namely 88.3Jia FM and Power 98FM. 88.3Jia FM is the only bilingual station in Singapore that plays both Mandarin and English all-time favourite ballads from the 1980s to current hits. Power 98FM is an English lifestyle station that plays songs from the 1980s to current hits. In 2016, SAFRA Radio achieved an average weekly listenership of 402,000, comprising 208,000 from 88.3Jia FM and 194,000 from Power 98FM.

17.1 POSTAL ARTICLES HANDLED AND TELECOMMUNICATIONS

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|---------------------------------|---------|----------|----------|----------|----------|----------|----------|----------|
| Postal Articles Handled | Million | 2,009.1 | 2,085.5 | 2,029.6 | 1,997.7 | 1,997.8 | 1,983.4 | 1,896.7 |
| Subscriptions ¹ | | | | | | | | |
| Fixed Line | '000 | 1,983.9 | 2,016.9 | 1,989.5 | 1,970.8 | 1,996.6 | 2,017.3 | 2,003.2 |
| Residential | '000 | 1,203.1 | 1,237.1 | 1,214.1 | 1,207.7 | 1,247.6 | 1,280.6 | 1,295.9 |
| Corporate | '000 | 780.8 | 779.7 | 775.4 | 763.1 | 749.0 | 736.8 | 707.3 |
| Mobile Phone | '000 | 7,288.6 | 7,755.2 | 8,063.0 | 8,420.7 | 8,093.3 | 8,211.4 | 8,399.7 |
| 2G | '000 | 2,584.2 | 1,999.8 | 1,582.4 | 1,111.5 | 302.9 | 221.6 | 132.3 |
| Post-paid | '000 | 289.8 | 204.5 | 152.7 | 117.8 | 89.8 | 49.2 | 30.9 |
| Pre-paid | '000 | 2,294.4 | 1,795.3 | 1,429.7 | 993.7 | 213.1 | 172.4 | 101.4 |
| 3G | '000 | 4,704.5 | 5,755.4 | 6,480.6 | 5,258.3 | 4,608.8 | 3,913.5 | 3,412.1 |
| Post-paid | '000 | 3,472.7 | 3,825.3 | 4,113.2 | 2,393.9 | 1,674.4 | 1,163.4 | 855.7 |
| Pre-paid | '000 | 1,231.8 | 1,930.1 | 2,367.4 | 2,864.4 | 2,934.4 | 2,750.1 | 2,556.4 |
| 4G | '000 | na | na | na | 2,050.8 | 3,181.6 | 4,076.3 | 4,855.2 |
| Post-paid | '000 | na | na | na | na | 2,924.0 | 3,628.6 | 4,085.1 |
| Pre-paid | '000 | na | na | na | na | 257.6 | 447.7 | 770.1 |
| Dial-up Internet ² | '000 | 67.5 | 58.3 | 23.8 | 20.6 | 18.3 | 12.9 | 11.3 |
| Broadband ³ | '000 | 7,849.3 | 9,222.3 | 10,194.9 | 10,653.6 | 11,537.2 | 11,992.1 | 12,543.7 |
| Residential Wired ⁴ | '000 | na | 1,237.9 | 1,277.6 | 1,295.4 | 1,347.5 | 1,359.9 | 1,335.9 |
| Corporate Wired 5 | '000 | na | 85.5 | 93.4 | 98.0 | 106.5 | 113.4 | 118.8 |
| Wireless ⁶ | '000 | 6,587.2 | 7,898.9 | 8,823.9 | 9,260.1 | 10,083.3 | 10,518.8 | 11,088.9 |
| Total SMS Messages ⁷ | Million | 27,714.3 | 28,947.0 | 24,052.9 | 17,893.4 | 13,508.0 | 11,447.9 | 9,780.3 |
| International Telephone | | | | | | | | |
| Call Minutes ⁸ | Million | 12,436.3 | 12,367.4 | 13,444.8 | 14,489.6 | 18,165.5 | 22,018.2 | 23,638.8 |

Sources: Singapore Post

Info-communications Media Development Authority

Notes: With effect from 1 Oct 2016, the Infocomm Development Authority and the Media Development Authority were restructured to form the Info-communications Media Development Authority and the Government Technology Agency of Singapore.

- 1 Refers to end of period.
- 2 Includes contributions from Internet Access Service Providers (IASPs).
- 3 Includes retail xDSL, cable modems, leased line Internet, 3G, 3.5G/HSDPA, WiMAX or its equivalent and Wi-Fi hotspots access (including Wireless@SG subscriptions).
- 4 Includes all retail residential wired broadband subscriptions provided over xDSL, cable modems, leased line and optical fibre.

 Residential wireless broadband subscriptions are excluded.
- 5 Includes all retail corporate wired broadband subscriptions provided over xDSL, cable modems, leased line and optical fibre. Corporate wireless broadband subscriptions are excluded.
- 6 Includes all retail broadband Internet access subscriptions provided via wireless platforms such as 3G, 3.5G/HSDPA, WiMAX or its equivalent and Wi-Fi hotspots (including Wireless@SG subscriptions).
- 7 Includes 2G and 3G phones. Includes both sent and received SMS messages.
 With effect from Mar 2013, data includes SMS messages sent and received over 4G mobile network.
- 8 Includes traffic contributed by all Service-Based Operators.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=7394 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=7330

17.2 REVENUE OF THE INFORMATION AND COMMUNICATION TECHNOLOGY INDUSTRY

| | | | | | | N | lillion Dollars |
|-------------------------------------------------------|--------|--------|---------|---------|---------|---------|-----------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Local and Export Market ¹ | | | | | | | |
| Total | 82,842 | 94,521 | 113,286 | 156,341 | 167,054 | 189,569 | 175,803 |
| Local | 36,216 | 35,822 | 35,455 | 48,531 | 50,695 | 53,393 | 48,041 |
| Export | 46,626 | 58,699 | 77,831 | 107,810 | 116,359 | 136,177 | 127,763 |
| Hardware and Software/IT Services Market ¹ | | | | | | | |
| Total | 82,842 | 94,521 | 113,286 | 156,341 | 167,054 | 189,569 | 175,803 |
| Hardware | 44,988 | 59,481 | 74,904 | 106,606 | 114,962 | 138,612 | 130,562 |
| Software / IT Services | 21,787 | 22,021 | 25,420 | 34,037 | 34,829 | 34,803 | 31,408 |
| Telecommunications | 14,038 | 10,221 | 10,838 | 12,281 | 13,941 | 12,412 | 11,114 |
| Content Activities ² | 2,029 | 2,798 | 2,125 | 3,417 | 3,322 | 3,742 | 2,720 |

Source: Info-communications Media Development Authority

Notes: With effect from 1 Oct 2016, the Infocomm Development Authority and the Media Development Authority were restructured to form the Info-communications Media Development Authority and the Government

Technology Organisation.

Revenues were computed using data from large ICT companies and a sample of the remaining ICT companies stratified by the Singapore Standard Industrial Classification 2015.

Numbers may not add up to total due to rounding.

- 1 Includes telecommunication services revenue, resellers revenue and content services revenue.
- 2 Excludes revenue from 'Advertising activities' and 'Art and graphic design services'.

17.3 RADIO AND TELEVISION TRANSMISSION AND PAY TV SUBSCRIBERS

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-----------------------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| Radio (Mediacorp, SPH Radio & SAFRA) | Hours per Week | 2,856 | 2,856 | 2,856 | 3,024 | 3,024 | 3,024 | 2,982 |
| Television (Mediacorp) | Hours per Week | 951 | 959 | 961 | 1,007 | 1,007 | 1,007 | 1,009 |
| Pay TV Subscribers ¹ | '000 | 802 | 898 | 934 | 951 | 962 | 960 | 906 |

Sources : StarHub Cable Vision Ltd

Singapore Telecommunications (Singtel)

Mediacorp Pte Ltd SPH Radio Pte Ltd SAFRA Radio

1 End of period.

 $Download\ time\ series\ at\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=5253\\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=5263\\$

17.4 DAILY NEWSPAPER CIRCULATION

| | | | | | | Number |
|-----------|-------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| 1,520,424 | 1,498,078 | 1,466,150 | 1,439,563 | 1,374,856 | 1,337,718 | 1,251,217 |
| 782,295 | 763,149 | 747,419 | 738,760 | 715,025 | 696,046 | 672,392 |
| 663,774 | 660,409 | 649,127 | 635,115 | 597,826 | 585,465 | 530,487 |
| 59,530 | 57,350 | 53,299 | 49,986 | 46,584 | 43,280 | 37,291 |
| 14,825 | 17,170 | 16,305 | 15,702 | 15,421 | 12,927 | 11,047 |
| | 1,520,424 782,295 663,774 59,530 | 1,520,424 1,498,078 782,295 763,149 663,774 660,409 59,530 57,350 | 1,520,424 1,498,078 1,466,150 782,295 763,149 747,419 663,774 660,409 649,127 59,530 57,350 53,299 | 1,520,424 1,498,078 1,466,150 1,439,563 782,295 763,149 747,419 738,760 663,774 660,409 649,127 635,115 59,530 57,350 53,299 49,986 | 1,520,424 1,498,078 1,466,150 1,439,563 1,374,856 782,295 763,149 747,419 738,760 715,025 663,774 660,409 649,127 635,115 597,826 59,530 57,350 53,299 49,986 46,584 | 1,520,424 1,498,078 1,466,150 1,439,563 1,374,856 1,337,718 782,295 763,149 747,419 738,760 715,025 696,046 663,774 660,409 649,127 635,115 597,826 585,465 59,530 57,350 53,299 49,986 46,584 43,280 |

Sources: Singapore Press Holdings Ltd

Mediacorp Press Ltd

Notes: Refers to daily average circulation for January-December.

English Newspapers - The Straits Times / Sunday Times, Business Times, The New Paper, New Paper Sunday (up to Nov 2016)

/ Little Red Dot / IN / TODAY, Tabla.

Chinese Newspapers - Lianhe Zaobao, Lianhe Wanbao, Shin Min Daily News, Thumbs Up, Thumbs Up Junior (from 2011),

Thumbs Up Little Junior (from 2013), My Paper (up to Nov 2016), and zbComma.

Malay Newspapers - Berita Harian / Berita Minggu.

Tamil Newspapers - Tamil Murasu / Tamil Murasu Sunday.



Tourism



18 Tourism





The Singapore Tourism Board publishes monthly statistics on international visitor arrivals. Quarterly and annual summaries of visitor profiles from major source markets are available from the "Quarterly Tourism Focus" and "Annual Report on Tourism Statistics" reports.

Data on international visitor arrivals are compiled from Disembarkation/Embarkation Forms completed by all visitors arriving in Singapore at the points of entry.



Length of Stay: Refers to the actual length of stay in Singapore. The date of arrival as indicated in the disembarkation/embarkation card is matched against the date of departure to compute the actual length of stay. As some visitors may not depart within the calendar year, the number of visitor departures may be lower than total visitor arrivals during the year.

In computing the average length of stay, visitors staying beyond 60 days were treated as having stayed 60 days for comparability among the ASEAN countries. This is to ensure that the overall average length of stay is not affected by long-staying visitors.

Standard Average Occupancy Rate: Obtained by dividing gross lettings (room-nights) by available room-nights. Gross lettings refer to both paid and complimentary lettings. Available room-nights refer to room-nights available for occupancy, excluding rooms closed for renovations and staff use as declared by the hotels.

Key Indicators for 2016 Standard Average Occupancy Rate 16.4 mil 9,474,205 International **Outbound Departures** Visitor Arrivals 1 of Singapore Residents... Excludes arrivals of Malaysians by land. ...by Air 7,770,593 Tourism Receipts: \$24,595 mil ...by Sea **Average Length of Stay** 1,703,612 3.4

18.1 INTERNATIONAL VISITOR ARRIVALS BY REGION/COUNTRY OF RESIDENCE

| | | | | | | | Thousand |
|----------------------|----------|----------|----------|----------|----------|----------|----------|
| Region/Country | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 11,641.7 | 13,171.3 | 14,496.1 | 15,567.9 | 15,095.2 | 15,231.5 | 16,403.6 |
| | ,, | | , | | | | |
| Americas | 524.8 | 563.7 | 616.4 | 641.5 | 635.3 | 657.3 | 680.7 |
| Canada | 75.1 | 82.9 | 87.8 | 92.7 | 92.8 | 96.2 | 98.5 |
| United States | 417.2 | 440.6 | 477.2 | 491.9 | 484.9 | 499.5 | 516.5 |
| Asia | 8,678.6 | 10,039.1 | 11,077.4 | 12,006.1 | 11,568.4 | 11,684.7 | 12,739.3 |
| ASEAN 1 | 4,821.8 | 5,414.3 | 5,779.6 | 6,166.4 | 6,113.1 | 5,748.2 | 6,007.5 |
| Brunei | 62.2 | 62.2 | 71.8 | 79.9 | 77.7 | 73.6 | 69.9 |
| Indonesia | 2,306.2 | 2,592.2 | 2,837.5 | 3,088.9 | 3,025.2 | 2,731.7 | 2,893.6 |
| Malaysia | 1,037.5 | 1,140.9 | 1,231.7 | 1,280.9 | 1,233.0 | 1,171.1 | 1,151.6 |
| Philippines | 544.4 | 677.7 | 656.8 | 687.8 | 676.5 | 673.4 | 691.6 |
| Thailand | 430.1 | 472.7 | 477.7 | 497.4 | 506.5 | 516.4 | 546.6 |
| Viet Nam | 322.9 | 332.2 | 366.2 | 380.5 | 424.4 | 418.3 | 469.4 |
| Myanmar | 78.3 | 94.2 | 93.0 | 99.4 | 112.8 | 105.5 | 113.6 |
| China | 1,171.5 | 1,577.5 | 2,034.2 | 2,269.9 | 1,722.4 | 2,106.2 | 2,863.7 |
| Hong Kong | 387.6 | 464.4 | 472.2 | 539.8 | 631.0 | 609.9 | 538.0 |
| India | 829.0 | 869.0 | 895.0 | 933.6 | 943.6 | 1,014.0 | 1,097.2 |
| Kuwait | 8.4 | 8.3 | 7.6 | 10.6 | 11.0 | 10.8 | 11.1 |
| Japan | 529.0 | 656.4 | 757.1 | 832.8 | 824.7 | 789.2 | 783.9 |
| Korea, Republic of | 360.7 | 414.9 | 445.2 | 471.8 | 537.0 | 577.1 | 566.5 |
| Pakistan | 21.9 | 20.9 | 21.2 | 20.2 | 17.7 | 18.9 | 22.2 |
| Saudi Arabia | 12.6 | 17.0 | 18.0 | 19.9 | 25.8 | 16.1 | 14.5 |
| Sri Lanka | 79.0 | 84.0 | 83.4 | 95.6 | 88.8 | 93.1 | 101.9 |
| Taiwan | 191.2 | 238.5 | 282.2 | 350.3 | 337.4 | 378.0 | 394.2 |
| United Arab Emirates | 56.5 | 62.7 | 65.6 | 72.6 | 75.7 | 78.7 | 80.2 |
| Europe | 1,373.5 | 1,401.5 | 1,537.3 | 1,591.2 | 1,617.2 | 1,635.7 | 1,743.0 |
| Austria | 20.1 | 19.9 | 23.3 | 24.7 | 26.5 | 25.1 | 26.8 |
| Belgium & Luxembourg | 24.4 | 25.0 | 26.8 | 27.4 | 28.7 | 27.6 | 29.4 |
| France | 130.5 | 140.3 | 158.9 | 160.0 | 156.9 | 157.5 | 170.9 |
| Germany | 209.3 | 220.0 | 252.4 | 251.6 | 263.5 | 286.7 | 328.8 |
| Greece | 8.0 | 7.1 | 8.1 | 7.2 | 8.3 | 8.9 | 8.7 |
| Italy | 51.1 | 53.5 | 65.6 | 66.7 | 67.1 | 69.4 | 74.6 |
| Netherlands | 76.5 | 81.1 | 81.6 | 82.9 | 81.8 | 79.1 | 82.2 |

(continued on the next page)

Source: Singapore Tourism Board

Notes: Data for visitor arrivals are compiled from Disembarkation/Embarkation Forms (IMM 27) completed by all visitors arriving in Singapore at the points of entry. Excludes arrivals of Malaysians by land.

1 ASEAN stands for 'Association of South East Asian Nations'. ASEAN comprises Brunei Darussalam, Cambodia, Indonesia, Lao People's Democratic Republic, Malaysia, Myanmar, Philippines, Singapore, Thailand and Viet Nam. However, when used in this statistical table, the term excludes Singapore.

18.1 INTERNATIONAL VISITOR ARRIVALS BY REGION/COUNTRY OF RESIDENCE (continued)

Thousand Region/Country Europe (continued) Scandinavia² 96.5 97.0 111.5 113.1 109.5 105.6 104.3 Switzerland 74.4 79.0 83.9 94.4 103.4 100.8 101.5 451.9 United Kingdom 461.8 442.6 446.5 461.5 473.8 489.2 CIS ³ & Eastern Europe 119.7 127.9 153.8 177.5 191.2 167.0 183.5 Oceania 989.1 1,093.4 1,189.1 1,261.1 1,207.9 1,186.3 1,168.1 Australia 880.6 956.0 1,050.4 1,125.2 1,074.9 1,043.6 1,027.3 New Zealand 95.8 123.0 123.7 120.4 118.7 127.6 121.1 Africa 75.5 73.4 68.0 66.6 66.1 67.5 72.5 **Not Stated** 0.1 0.1 7.8 1.4 0.3 0.0 0.1

Source: Singapore Tourism Board

Notes: Data for visitor arrivals are compiled from Disembarkation/Embarkation Forms (IMM 27) completed by all visitors arriving in Singapore at the points of entry. Excludes arrivals of Malaysians by land.

- 2 Scandinavia comprises Denmark, Norway and Sweden.
- 3 CIS denotes The Commonwealth of Independent States comprising Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Republic of Moldova, Russian Federation, Tajikistan, Turkmenistan, Ukraine and Uzbekistan.

18.2 INTERNATIONAL VISITOR ARRIVALS BY (a) SEX AND (b) AGE GROUP

| | | | | | | | Thousand |
|--------------------|----------|----------|----------|----------|----------|----------|----------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total ¹ | 11,641.7 | 13,171.3 | 14,496.1 | 15,567.9 | 15,095.2 | 15,231.5 | 16,403.6 |
| Sex | | | | | | | |
| Males | 6,029.1 | 6,743.9 | 7,471.4 | 8,104.8 | 7,872.9 | 7,841.8 | 8,257.6 |
| Females | 5,131.0 | 5,920.0 | 6,705.0 | 7,458.1 | 7,222.2 | 7,389.7 | 8,145.9 |
| Age Group (Years) | | | | | | | |
| Under 15 | 970.3 | 1,131.2 | 1,219.4 | 1,420.3 | 1,424.7 | 1,428.9 | 1,533.6 |
| 15 - 19 | 412.5 | 480.3 | 514.7 | 552.8 | 533.7 | 548.6 | 574.5 |
| 20 - 24 | 813.7 | 915.8 | 1,014.3 | 1,079.6 | 1,065.2 | 1,058.7 | 1,132.0 |
| 25 - 34 | 2,645.3 | 3,004.2 | 3,304.0 | 3,501.0 | 3,456.4 | 3,423.9 | 3,593.9 |
| 35 - 44 | 2,538.8 | 2,855.7 | 3,071.3 | 3,262.9 | 3,208.6 | 3,150.1 | 3,340.3 |
| 45 - 54 | 2,082.8 | 2,320.4 | 2,534.9 | 2,678.1 | 2,547.1 | 2,563.3 | 2,802.0 |
| 55 - 64 | 1,415.9 | 1,598.2 | 1,827.1 | 1,962.6 | 1,807.0 | 1,904.0 | 2,111.9 |
| 65 & Over | 736.9 | 838.6 | 985.1 | 1,091.2 | 1,052.5 | 1,154.0 | 1,302.5 |
| Not Stated | 25.5 | 26.8 | 25.3 | 19.4 | 0.0 | 0.0 | 13.1 |

Source : Singapore Tourism Board

Notes: Data for visitor arrivals are compiled from Disembarkation/Embarkation Forms (IMM 27) completed by all visitors arriving in Singapore at the points of entry. Excludes arrivals of Malaysians by land.

¹ Includes sex not stated.

18.3 INTERNATIONAL VISITOR ARRIVALS BY LENGTH OF STAY

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|------------------------|------|----------|----------|----------|----------|----------|----------|----------|
| Total | '000 | 11,126.9 | 12,644.5 | 13,937.2 | 14,983.1 | 14,513.4 | 14,595.2 | 15,839.7 |
| Under 1 | '000 | 2,480.5 | 2,781.1 | 3,397.8 | 3,669.5 | 3,231.3 | 3,179.5 | 3,490.3 |
| 1 | '000 | 2,188.4 | 2,464.0 | 2,786.7 | 3,065.2 | 2,627.1 | 2,729.7 | 3,194.3 |
| 2 | '000 | 1,961.1 | 2,225.7 | 2,358.7 | 2,565.4 | 2,572.3 | 2,494.4 | 2,631.2 |
| 3 | '000 | 1,636.2 | 1,954.8 | 2,058.6 | 2,156.9 | 2,265.4 | 2,274.8 | 2,406.6 |
| 4 | '000 | 874.5 | 1,045.0 | 1,094.4 | 1,170.4 | 1,286.5 | 1,370.2 | 1,470.3 |
| 5 | '000 | 469.8 | 535.0 | 560.0 | 593.0 | 659.5 | 707.4 | 781.0 |
| 6 | '000 | 289.1 | 321.6 | 333.6 | 353.3 | 388.5 | 398.6 | 433.6 |
| 7 | '000 | 204.3 | 226.8 | 232.4 | 245.9 | 264.6 | 270.7 | 286.4 |
| 8-10 | '000 | 285.3 | 315.3 | 320.0 | 333.6 | 352.0 | 354.6 | 361.1 |
| 11-14 | '000 | 204.7 | 220.1 | 221.2 | 229.5 | 236.1 | 235.9 | 232.4 |
| 15 - 29 | '000 | 352.7 | 373.7 | 387.5 | 408.2 | 438.6 | 415.6 | 396.5 |
| 30 - 59 | '000 | 130.7 | 133.5 | 137.5 | 141.3 | 140.9 | 117.1 | 111.0 |
| 60 & Over | '000 | 49.8 | 47.9 | 48.7 | 51.1 | 50.7 | 46.7 | 44.9 |
| Average Length of Stay | Days | 3.9 | 3.7 | 3.6 | 3.5 | 3.7 | 3.6 | 3.4 |

Source: Singapore Tourism Board

Notes: Data for visitor arrivals are compiled from Disembarkation/Embarkation Forms (IMM 27) completed by all visitors arriving in Singapore at the points of entry. Excludes arrivals of Malaysians by land.

Refers to visitors who left Singapore where length of stay is less than a year.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=1992

18.4 TOURISM RECEIPTS BY MAJOR COMPONENTS

| | | | | | | M | illion Dollars |
|------------------------------|--------|--------|--------|--------|--------|--------|----------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Tourism Receipts | 18,931 | 22,277 | 23,081 | 23,469 | 23,560 | 21,777 | 24,607 |
| Accommodation | 3,623 | 4,390 | 5,038 | 5,332 | 5,309 | 4,680 | 5,891 |
| Food & Beverage | 1,903 | 2,239 | 2,246 | 2,294 | 2,263 | 2,319 | 2,781 |
| Shopping | 3,971 | 4,489 | 4,588 | 4,553 | 4,116 | 3,913 | 5,914 |
| Sightseeing, Entertainment & | | | | | | | |
| Gaming | 4,013 | 5,391 | 5,240 | 5,471 | 5,823 | 5,093 | 4,364 |
| Others ¹ | 5,421 | 5,768 | 5,970 | 5,819 | 6,049 | 5,772 | 5,657 |

Source: Singapore Tourism Board

1 Includes expenditure on airfares, port taxes, local transportation, business, medical, education and transit visitors.

18.5 OUTBOUND DEPARTURES OF SINGAPORE RESIDENTS BY MODE OF TRANSPORT

| | | | | | | | Number |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | | | | | |
| Total | 7,342,276 | 7,752,926 | 8,047,808 | 8,647,066 | 8,902,705 | 9,125,331 | 9,474,205 |
| | | | | | | | |
| Air | 5,617,110 | 6,082,620 | 6,485,268 | 6,960,428 | 7,163,778 | 7,371,377 | 7,770,593 |
| Soc | 1 725 166 | 1 670 206 | 1 562 540 | 1 606 630 | 1 720 027 | 1 752 054 | 1 702 612 |
| Sea | 1,725,166 | 1,670,306 | 1,562,540 | 1,686,638 | 1,/38,92/ | 1,/53,954 | 1,703,512 |
| | | | | | | | |

Source: Immigration & Checkpoints Authority

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=149

18.6 GAZETTED HOTEL STATISTICS

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|----------------------------------------------|------|----------|----------|----------|----------|----------|----------|----------|
| Gazetted Hotels (At End Year) ¹ | No. | 96 | 98 | 101 | 113 | 134 | 148 | 155 |
| Available Room Nights ² | '000 | 11,262.0 | 12,377.9 | 12,450.9 | 13,118.4 | 14,241.5 | 15,130.6 | 16,161.9 |
| Standard Average Occupancy Rate ³ | % | 85.2 | 86.4 | 86.5 | 86.3 | 85.5 | 85.0 | 84.3 |
| Standard Average Room Rate ⁴ | \$ | 217.9 | 247.1 | 261.7 | 258.1 | 258.1 | 245.4 | 235.9 |
| Room Revenue | \$m | 2,091.0 | 2,643.5 | 2,818.4 | 2,923.1 | 3,146.9 | 3,163.8 | 3,221.1 |
| Food and Beverage Revenue | \$m | 1,052.0 | 1,315.1 | 1,309.9 | 1,344.7 | 1,424.9 | 1,460.5 | 1,474.7 |
| | • | , | • | • | • | -, | • | |

Source : Singapore Tourism Board (STB)

- 1 Based on monthly hotel returns submitted to STB.
- 2 Refers to room-nights available for occupancy. Excludes rooms closed for renovations and staff use as declared by the hotels in the statutory forms. Data refer to hotels with 50 or more rooms.
- 3 Refers to gross lettings (room nights) divided by available room-nights. Data refer to hotels with 50 or more rooms.
- 4 Refers to total room revenue divided by gross lettings.



Finance



19

Finance



Household Sector Balance Sheet



The quarterly Household Sector Balance Sheet is compiled by the Singapore Department of Statistics. The quarterly series start from the reference period of 1st Quarter 1995. The Household Sector Balance Sheet shows the household sector's assets and liabilities at a particular point in time (i.e. as at end-of-period).

Household assets can be classified as financial or non-financial assets. Financial assets include currency and deposits, shares and securities (e.g. listed shares, unlisted shares, unit trusts and investment funds), life insurance (attributable to households as policyholders), CPF balances and pension funds. Non-financial assets, which refer mainly to residential property assets, are categorised into public housing and private housing.

Household liabilities comprise mortgages (from HDB and financial institutions) and personal loans (e.g. motor vehicle loans, credit or charge card loans and other personal loans from banks and other financial institutions).

Banking, Finance and Insurance



Before 1971, the various monetary functions normally associated with a central bank were performed by several government departments and agencies. To centralise these functions, the Monetary Authority of Singapore (MAS) was established in 1971 to assume the central bank role except for the currency issuing function which remained the responsibility of the Board of Commissioners of Currency Singapore (BCCS). In October 2002, the BCCS was merged with the MAS.

The MAS conducts monetary and exchange rate policies appropriate for sustained

and non-inflationary economic growth in Singapore. It administers the statutes pertaining to money and banking and formulates policies for the development of a sound banking system and an orderly financial market. It aims to develop Singapore into an international financial centre.

Statistics on banking, finance and insurance are compiled from returns submitted to the MAS. They may be found in the "Monthly Statistical Bulletin" and Annual Reports published by the MAS.

Asian Dollar Market



The Asian Dollar Market was officially established in October 1968 when approval was first given for a bank to operate an Asian Currency Unit (ACU). Since then, merchant banks have also been allowed to operate ACUs. As at 31 December 2016, there was a total of 154 ACUs in operation.

Insurance 😽



The insurance industry is regulated by the MAS under the Insurance Act (Cap 142).

Insurance business in Singapore is divided into two classes – life business and general business.

The range of products offered by life insurers includes traditional whole life, endowment, term, accident, health and annuity plans as well as investment-linked insurance plans. General insurers provide coverage for a wide range of risks such as fire, marine and aviation, motor, work injury compensation and public liability.

Central Provident Fund



Please see Chapter 4.

Definitions



Money Supply: Refers to the amount of money in an economy. Narrowly defined, money supply (M1) consists of currency in active circulation and demand deposits. A broad definition of money supply (M2) comprises M1 and quasi money. The latter includes fixed, savings and other deposits with banks as well as negotiable certificates of deposit in Singapore dollar issued by Singapore banks. Money supply (M3) consists of M2 and net deposits with non-bank financial institutions.

Asian Currency Unit (ACU): Refers to an operational entity of a financial institution which has been granted approval by the MAS to participate in the Asian Dollar Market in Singapore. The ACU is essentially a separate accounting unit of a financial institution set up for its transactions in the Asian Dollar Market.

Official Foreign Reserves: Refers to the gross official reserves held by the MAS. These include gold and foreign exchange, Special Drawing Rights and Singapore's reserve position in the International Monetary Fund (IMF). Prior to May 1999, Singapore's official foreign reserves were valued at book cost. With effect from May 1999, the book value of foreign reserve

assets are translated at market exchange rates prevailing at the end of each reporting month.

Special Drawing Rights (SDR): Refers to an international reserve asset created by the IMF and allocated to its members in proportion to their quotas as a supplement to existing reserve assets. The SDR serves as the unit of account of the IMF. The valuation of the SDR is determined on the basis of a basket of five currencies: the US dollar, Euro, Chinese Renminbi, Japanese Yen and Pound Sterling.

Main Cards and Supplementary Cards: Refers to both credit and charge cards issued by the card issuing companies.

Total Cards Billings: Refers to total billings of Singapore cardholders excluding interest charges and membership fees.

Rolled Over Balances: Refers to balances that are subject to interest charges because they are not settled within the 'free credit' period. These include the minimum payment not settled by due date as well as the amount that is rolled over after settlement of the minimum sum.

Bad Debts Written Off: As the period when bad debts are written off differs from one card issuer to another, they are included as and when they occur.

Key Indicators

Household Sector Balance Sheet, 2016

| Assets | Billion Dollars |
|-----------------------------------|-----------------|
| Financial Assets | 1,076.5 |
| Residential Property Assets | 862.2 |
| Total Assets | 1,938.7 |
| | |

| Liabilities | Billion Dollars |
|-------------------|-----------------|
| Mortgage Loans | 233.2 |
| Personal Loans | 75.9 |
| Total Liabilities | 309.1 |
| Net Worth | Billion Dollars |
| Net Worth | 1,629.6 |



19.1 HOUSEHOLD SECTOR BALANCE SHEET (End of Period)

| | | | | | | N | 1illion Dollars |
|-------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | | | | | |
| Net Worth | 1,191,575.5 | 1,273,593.2 | 1,378,668.6 | 1,437,209.0 | 1,477,102.3 | 1,533,948.1 | 1,629,598.2 |
| Assets | 1,403,144.1 | 1,510,197.0 | 1,641,560.2 | 1,717,246.6 | 1,771,440.5 | 1,835,361.4 | 1,938,682.1 |
| Financial Assets | 713,793.2 | 750,090.9 | 828,370.3 | 888,831.1 | 952,730.0 | 1,001,871.7 | 1,076,457.2 |
| Currency & Deposits | 247,094.2 | 273,927.1 | 298,331.4 | 322,598.2 | 342,273.5 | 365,826.5 | 395,597.0 |
| Shares & Securities | 160,796.1 | 146,391.8 | 166,205.5 | 174,846.8 | 184,163.2 | 179,079.4 | 181,972.2 |
| Listed Shares | 83,375.7 | 70,851.4 | 88,092.6 | 91,834.6 | 91,986.9 | 83,796.2 | 83,375.5 |
| Unlisted Shares | 37,757.7 | 35,036.8 | 31,861.1 | 31,423.4 | 34,695.6 | 36,852.3 | 38,157.4 |
| Unit Trusts & Investment Funds | 39,662.7 | 40,503.6 | 46,251.8 | 51,588.8 | 57,480.7 | 58,430.9 | 60,439.3 |
| Life Insurance | 107,262.3 | 108,533.9 | 119,720.0 | 124,339.1 | 136,665.7 | 141,756.4 | 153,973.0 |
| Central Provident Fund ¹ | 185,888.0 | 207,545.5 | 230,157.7 | 252,968.6 | 275,363.9 | 299,522.4 | 328,895.3 |
| Pension Funds | 12,752.6 | 13,692.7 | 13,955.7 | 14,078.4 | 14,263.7 | 15,687.0 | 16,019.6 |
| Residential Property Assets | 689,351.0 | 760,106.1 | 813,189.9 | 828,415.5 | 818,710.5 | 833,489.7 | 862,224.9 |
| Public Housing | 349,156.4 | 389,420.4 | 415,738.5 | 412,752.5 | 394,669.3 | 400,951.4 | 413,575.6 |
| Private Housing | 340,194.6 | 370,685.7 | 397,451.4 | 415,663.0 | 424,041.2 | 432,538.3 | 448,649.3 |
| Liabilities | 211,568.6 | 236,603.8 | 262,891.6 | 280,037.6 | 294,338.3 | 301,413.3 | 309,083.9 |
| Mortgage Loans | 158,326.3 | 174,589.5 | 193,006.9 | 205,385.2 | 216,714.2 | 224,732.5 | 233,227.9 |
| Financial Institutions | 115,279.6 | 133,605.7 | 154,071.2 | 168,623.1 | 179,536.2 | 186,863.5 | 194,187.8 |
| Housing Development Board | 43,046.7 | 40,983.8 | 38,935.7 | 36,762.1 | 37,178.0 | 37,869.0 | 39,040.1 |
| Personal Loans | 53,242.3 | 62,014.4 | 69,884.8 | 74,652.4 | 77,624.1 | 76,680.8 | 75,855.9 |
| Motor Vehicle | 15,075.7 | 14,449.2 | 14,324.7 | 12,433.0 | 10,265.0 | 9,611.0 | 9,737.7 |
| Credit/Charge Cards | 6,899.9 | 7,891.3 | 8,972.8 | 9,948.8 | 10,429.1 | 10,266.1 | 10,800.3 |
| Others ² | 31,266.7 | 39,673.9 | 46,587.3 | 52,270.7 | 56,929.9 | 56,803.7 | 55,317.9 |

Notes: Data are non-seasonally adjusted.

Numbers may not add up due to rounding.

¹ Refers to the total amount due to members (net of withdrawals).

² Includes education loans, renovation loans, pawnshop loans, hire purchase loans (excluding those for motor vehicles), overdrafts and loans extended to individuals for investment and business purposes.

19.2 CURRENCY IN CIRCULATION (End of Period)

Million Dollars **Gross Circulation** 25,772.8 28,180.1 32,266.1 33,806.1 36,428.8 39,688.8 45,318.8 Notes 24,585.4 26,941.7 30,984.2 32,479.5 35,049.4 38,254.1 43,830.7 Coins 1,488.1 1,187.4 1,238.4 1,281.9 1,326.6 1,379.4 1,434.7

Source: Monetary Authority of Singapore

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=5405

MONEY SUPPLY (End of Period)

| | | | | | | N | 1illion Dollars |
|---------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | | | | | |
| Money Supply (M1) | 112,487.0 | 130,591.9 | 140,709.1 | 154,597.3 | 160,217.7 | 160,445.8 | 172,753.5 |
| Currency in Active Circulation ¹ | 22,299.5 | 24,690.3 | 26,361.3 | 28,851.6 | 31,506.9 | 34,042.3 | 38,525.0 |
| Demand Deposits of Private Sector | 90,187.5 | 105,901.6 | 114,347.8 | 125,745.7 | 128,710.8 | 126,403.5 | 134,228.5 |
| Money Supply (M2) | 403,096.1 | 443,358.1 | 475,392.5 | 495,907.8 | 512,430.8 | 520,239.7 | 562,087.4 |
| M1 | 112,487.0 | 130,591.9 | 140,709.1 | 154,597.3 | 160,217.7 | 160,445.8 | 172,753.5 |
| Quasi-Money | 290,609.1 | 312,766.2 | 334,683.4 | 341,310.5 | 352,213.1 | 359,793.9 | 389,333.9 |
| Fixed Deposits | 154,417.3 | 160,699.6 | 175,270.8 | 171,989.3 | 172,712.0 | 174,465.4 | 189,277.6 |
| S\$ Negotiable Cert of Deposits | 20.0 | 165.0 | 90.2 | 482.8 | 390.8 | 722.0 | 327.1 |
| Savings and Other Deposits | 136,171.8 | 151,901.6 | 159,322.4 | 168,838.4 | 179,110.3 | 184,606.5 | 199,729.2 |
| Money Supply (M3) | 410,109.3 | 451,666.3 | 485,915.4 | 506,900.0 | 524,166.4 | 532,944.5 | 573,906.0 |
| M2 | 403,096.1 | 443,358.1 | 475,392.5 | 495,907.8 | 512,430.8 | 520,239.7 | 562,087.4 |
| Net Deposits with Finance Companies | 7,013.2 | 8,308.2 | 10,522.9 | 10,992.2 | 11,735.6 | 12,704.8 | 11,818.6 |

Source: Monetary Authority of Singapore (MAS)

1 Excludes commemorative, numismatic and bullion coins issued by the Monetary Authority of Singapore and cash held by commercial banks and other financial instituitions.

19.4 MONETARY SURVEY
(End of Period)

Million Dollars **Money Supply** 140,709.1 M1 112,487.0 130,591.9 154,597.3 160,217.7 160,445.8 172,753.5 Quasi-Money 290,609.1 312,766.2 334,683.4 341,310.5 352,213.1 359,793.9 389,333.9 M2 403,096.1 443,358.1 475,392.5 495,907.8 562,087.4 512,430.8 520,239.7 Domestic Credit 402,502.2 466,122.4 522,034.6 582,704.8 626,023.9 638,949.5 668,524.3 Government 92,334.1 98,231.2 105,428.5 105,211.8 114,853.2 120,563.4 123,215.7 **Private Sector** 310,168.1 367,891.2 416,606.1 477,493.0 511,170.7 518,386.1 545,308.6 **Government Deposits** 142,188.2 160,243.4 178,122.1 162,779.8 133,431.9 151,767.7 114,128.1 Net Foreign Position 309,700.1 301,355.1 304,296.3 291,126.5 291,404.1 303,668.2 315,115.0 343,503.9 352,596.8 **Monetary Authorities** 287,658.8 306,983.9 315,467.1 341,133.8 352,515.5 -50,007.3 -52,099.8 -37,481.8 Banks 22,041.3 -5,628.8 -11,170.8 -48,847.3 Other Items -166,918.0 -163,876.0 -172,816.3 -215,143.7 -271,565.3 -270,610.3 -307,423.8

Source: Monetary Authority of Singapore

19.5 OFFICIAL FOREIGN RESERVES (End of Period)

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------------------------------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total Foreign Reserves | \$m | 288,954.1 | 308,403.2 | 316,744.2 | 344,729.2 | 340,438.1 | 350,990.8 | 356,253.9 |
| Special Drawing Rights | \$m | 1,969.8 | 1,732.9 | 1,641.1 | 1,697.7 | 1,677.9 | 1,717.7 | 1,446.4 |
| Reserve Position in the International Monetary Fund | \$m | 421.0 | 1,080.8 | 1,115.8 | 1,296.7 | 1,084.1 | 852.6 | 1,441.7 |
| Gold & Foreign Exchange | \$m | 286,563.3 | 305,589.5 | 313,987.3 | 341,734.8 | 337,676.1 | 348,420.5 | 353,365.8 |
| Total Foreign Reserves | US\$m | 225,754.2 | 237,737.0 | 259,307.1 | 273,065.1 | 256,860.4 | 247,747.4 | 246,575.3 |

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=5401

19.6 EXCHANGE RATES
(Average for the Year)

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|------------------------|--------|--------|--------|--------|--------|--------|--------|
| S\$ Per Unit of : | | | | | | | |
| Australian Dollar | 1.2524 | 1.2971 | 1.2940 | 1.2107 | 1.1431 | 1.0339 | 1.0272 |
| Chinese Renminbi | 0.2014 | 0.1946 | 0.1981 | 0.2035 | 0.2057 | 0.2187 | 0.2080 |
| Euro | 1.8095 | 1.7495 | 1.6071 | 1.6621 | 1.6837 | 1.5267 | 1.5286 |
| Hong Kong Dollar | 0.1755 | 0.1616 | 0.1611 | 0.1613 | 0.1634 | 0.1773 | 0.1780 |
| Malaysian Ringgit | 0.4234 | 0.4111 | 0.4046 | 0.3973 | 0.3873 | 0.3534 | 0.3333 |
| Pound Sterling | 2.1073 | 2.0161 | 1.9803 | 1.9573 | 2.0873 | 2.1023 | 1.8726 |
| US Dollar | 1.3635 | 1.2579 | 1.2497 | 1.2513 | 1.2671 | 1.3748 | 1.3815 |
| S\$ Per 100 Units of : | | | | | | | |
| Indian Rupee | 2.9827 | 2.7027 | 2.3442 | 2.1448 | 2.0768 | 2.1434 | 2.0557 |
| Indonesian Rupiah | 0.0150 | 0.0143 | 0.0133 | 0.0120 | 0.0107 | 0.0103 | 0.0104 |
| Japanese Yen | 1.5543 | 1.5780 | 1.5672 | 1.2840 | 1.1996 | 1.1364 | 1.2727 |
| Korean Won | 0.1180 | 0.1135 | 0.1109 | 0.1144 | 0.1204 | 0.1215 | 0.1190 |
| New Taiwan Dollar | 4.3292 | 4.2798 | 4.2262 | 4.2155 | 4.1812 | 4.3298 | 4.2831 |
| Philippine Peso | 3.0228 | 2.9038 | 2.9592 | 2.9492 | 2.8535 | 3.0199 | 2.9086 |
| Thai Baht | 4.2986 | 4.1252 | 4.0199 | 4.0750 | 3.9002 | 4.0175 | 3.9141 |

Source : Monetary Authority of Singapore

19.7 NUMBER OF FINANCIAL INSTITUTIONS IN SINGAPORE

| | | | | | | | Number |
|--------------------------------|------|------|------|------|------|------|--------|
| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
| Banks | 120 | 123 | 123 | 124 | 126 | 124 | 128 |
| Local | 6 | 6 | 6 | 5 | 5 | 5 | 5 |
| Full banks | 5 | 5 | 6 | 5 | 5 | 5 | 5 |
| Wholesale banks ¹ | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Foreign | 114 | 117 | 117 | 119 | 121 | 119 | 123 |
| Full banks | 26 | 26 | 27 | 28 | 28 | 28 | 29 |
| Wholesale banks ¹ | 50 | 52 | 53 | 55 | 56 | 53 | 57 |
| Offshore banks | 38 | 39 | 37 | 36 | 37 | 38 | 37 |
| (Banking offices including | | | | | | | |
| head offices and main offices) | 428 | 432 | 425 | 425 | 429 | 428 | 428 |
| Asian Currency Units | 163 | 165 | 161 | 159 | 160 | 155 | 157 |
| Banks | 117 | 120 | 120 | 121 | 123 | 122 | 126 |
| Merchant banks | 46 | 45 | 41 | 38 | 37 | 33 | 31 |
| Finance Companies | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| (Finance companies' offices | | | | | | | |
| including head offices) | 39 | 39 | 39 | 39 | 39 | 39 | 39 |
| Merchant Banks | 47 | 46 | 42 | 39 | 38 | 34 | 32 |
| Insurance Companies | 157 | 164 | 168 | 177 | 181 | 186 | 186 |
| Direct insurers | 63 | 70 | 72 | 79 | 80 | 79 | 81 |
| Professional reinsurers | 28 | 29 | 28 | 31 | 31 | 32 | 31 |
| Authorised reinsurers | 6 | 6 | 6 | 6 | 6 | 5 | 4 |
| Captive insurers | 60 | 59 | 62 | 61 | 64 | 70 | 70 |
| Insurance Brokers | 64 | 67 | 69 | 71 | 74 | 75 | 77 |
| Bank Representative Offices | 34 | 36 | 38 | 36 | 37 | 39 | 42 |
| International Money Brokers | 10 | 9 | 9 | 9 | 10 | 12 | 12 |
| Licensed Financial Advisers | 67 | 67 | 62 | 58 | 60 | 62 | 61 |

(continued on the next page)

Source: Monetary Authority of Singapore

Notes: Data as at end March of each year.

1 Previously known as restricted banks.

19.7 NUMBER OF FINANCIAL INSTITUTIONS IN SINGAPORE (continued)

| | | | | | | | Number |
|----------------------------------------------------|------|------|------|------|------|------|--------|
| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
| Constant Manufactor Commission Linears | 251 | 250 | 205 | 442 | 402 | F22 | 504 |
| Capital Markets Services Licensees | 251 | 250 | 295 | 443 | 493 | 533 | 584 |
| Dealing in Securities | 98 | 94 | 106 | 118 | 123 | 137 | 151 |
| Trading in Futures Contracts | 47 | 50 | 52 | 59 | 60 | 68 | 71 |
| Advising on Corporate Finance | 33 | 34 | 37 | 40 | 42 | 40 | 46 |
| Fund Management | 118 | 119 | 158 | 289 | 335 | 367 | 404 |
| Leveraged Foreign Exchange Trading | 19 | 20 | 23 | 24 | 24 | 27 | 29 |
| Securities Financing | 18 | 17 | 17 | 17 | 17 | 17 | 18 |
| Providing Custodial Services for Securities | 40 | 40 | 38 | 37 | 37 | 37 | 42 |
| Real Estate Investment Trust Management | 22 | 23 | 26 | 31 | 34 | 36 | 38 |
| Providing Credit Rating Services ² | na | na | 3 | 3 | 4 | 4 | 4 |
| Licensed Trust Companies | 48 | 50 | 51 | 52 | 54 | 53 | 58 |
| Registered Fund Management Companies ³ | na | na | 74 | 236 | 275 | 273 | 273 |

Source: Monetary Authority of Singapore (MAS)

Notes: Data as at end March of each year.

As the data breakdown of "Capital Markets Services Licensees" refer to the types of regulated activities which a "Capital Markets Services Licensee" is licensed to conduct, the components of "Capital Markets Services Licensees" will not add up to its total.

- $2\,\,$ Regulation of credit rating services came into effect on 17 January 2012.
- 3 Registration of fund management companies commenced under an enhanced regulatory regime which came into effect on 7 August 2012.

19.8 ASSETS OF DOMESTIC BANKING UNITS (End of Period)

| | | | | | | N | 1illion Dollars |
|--------------------------------------------|-----------|-----------|-----------|-----------|-------------|-------------|-----------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total Assets | 781,607.4 | 855,811.4 | 911,009.0 | 967,814.4 | 1,055,131.1 | 1,057,520.7 | 1,146,172.7 |
| Cash | 2,219.9 | 2,796.4 | 2,756.0 | 2,807.5 | 2,917.1 | 4,396.2 | 3,989.1 |
| Amounts Due from Banks | 232,272.3 | 216,223.0 | 184,902.7 | 142,986.5 | 183,016.5 | 170,139.1 | 231,231.9 |
| In Singapore | 77,972.8 | 58,857.6 | 44,059.5 | 27,601.4 | 32,391.8 | 26,960.5 | 45,371.3 |
| Outside Singapore | 85,147.4 | 95,240.3 | 96,781.5 | 86,168.3 | 103,735.6 | 91,518.4 | 121,833.5 |
| Asian Currency Units | 69,152.1 | 62,125.1 | 44,061.6 | 29,216.8 | 46,889.1 | 51,660.2 | 64,027.0 |
| Balances with Monetary | | | | | | | |
| Authority of Singapore | 15,878.7 | 17,815.3 | 19,503.3 | 32,107.0 | 20,311.6 | 22,218.5 | 21,967.4 |
| Securities and Equities Issued | | | | | | | |
| by Private Entities | 36,034.3 | 38,484.1 | 41,562.4 | 49,723.3 | 56,476.5 | 58,452.8 | 58,778.8 |
| Debt Securities | | | | | | | |
| In Singapore | 8,365.6 | 9,922.2 | 10,973.6 | 12,326.8 | 11,414.4 | 11,106.5 | 9,273.7 |
| Outside Singapore | 12,416.8 | 13,572.4 | 14,803.7 | 12,376.5 | 12,633.0 | 14,122.2 | 16,022.0 |
| Equity Investments | | | | | | | |
| In Singapore | 10,088.1 | 9,957.9 | 10,362.0 | 11,541.7 | 18,523.9 | 11,474.7 | 11,966.2 |
| Outside Singapore | 5,163.8 | 5,031.6 | 5,423.1 | 13,478.3 | 13,905.3 | 21,749.3 | 21,516.9 |
| Debt Securities by Government | | | | | | | |
| Related Entities | 94,047.0 | 99,227.4 | 111,755.8 | 117,755.4 | 128,484.0 | 136,437.7 | 143,477.3 |
| Government of Singapore | 84,853.4 | 91,417.5 | 98,422.4 | 98,213.9 | 107,852.9 | 112,648.2 | 114,335.5 |
| Statutory Authorities | 4,219.1 | 6,780.8 | 9,372.0 | 17,111.0 | 16,377.5 | 14,121.2 | 18,632.8 |
| Other Governments | 4,974.6 | 1,029.2 | 3,961.4 | 2,430.5 | 4,253.6 | 9,668.3 | 10,509.0 |
| Loans & Advances including | | | | | | | |
| Bills Financing | 322,743.8 | 420,455.5 | 490,706.5 | 574,274.4 | 607,200.5 | 599,756.0 | 617,347.4 |
| Bills Discounted or Purchased ¹ | 20,050.4 | 44,582.2 | 56,292.0 | 79,657.4 | 75,343.9 | 52,846.8 | 44,599.1 |
| Payable In Singapore | 4,430.6 | 6,947.6 | 8,490.1 | 12,921.7 | 11,735.7 | 11,410.3 | 10,966.5 |
| Payable Outside Singapore | 15,619.8 | 37,634.6 | 47,801.9 | 66,735.7 | 63,608.2 | 41,436.5 | 33,632.6 |
| Loans & Advances | 302,693.4 | 375,873.3 | 434,414.5 | 494,617.1 | 531,856.6 | 546,909.1 | 572,748.3 |
| Resident | 283,064.5 | 334,282.5 | 377,408.3 | 423,591.8 | 453,119.3 | 470,273.3 | 494,469.3 |
| Non-Resident | 19,628.9 | 41,590.8 | 57,006.2 | 71,025.3 | 78,737.3 | 76,635.8 | 78,279.0 |
| Other Assets ² | 78,411.4 | 60,809.6 | 59,822.4 | 48,160.2 | 56,724.9 | 66,120.5 | 69,380.9 |

¹ Excludes bills rediscounted between banks.

² Includes S\$NCDs held and the value of fixed assets is reported before depreciation.

19.9 LIABILITIES OF DOMESTIC BANKING UNITS (End of Period)

| | | | | | | | Million Dollars |
|---------------------------------------------|-----------|-----------|-----------|-----------|-------------|-------------|-----------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 781,607.4 | 855,811.4 | 911,009.0 | 967,814.4 | 1,055,131.1 | 1,057,520.7 | 1,146,172.7 |
| Capital & Reserves | 62,441.7 | 64,845.4 | 66,305.4 | 66,291.7 | 71,000.0 | 76,107.6 | 82,989.2 |
| Deposits of Non-bank Customers ¹ | 433,757.8 | 483,110.3 | 518,840.7 | 537,582.9 | 550,363.9 | 560,011.5 | 596,611.5 |
| Demand Deposits | 100,394.2 | 120,133.3 | 130,965.7 | 142,676.7 | 147,007.3 | 141,953.0 | 151,193.5 |
| Fixed Deposits | 185,564.8 | 197,609.5 | 213,657.9 | 210,490.5 | 207,959.3 | 216,838.7 | 228,464.0 |
| Savings Deposits | 146,802.5 | 163,782.5 | 171,785.5 | 181,865.7 | 192,101.8 | 197,140.1 | 211,446.2 |
| Other Deposits | 996.3 | 1,585.1 | 2,431.7 | 2,549.9 | 3,295.4 | 4,079.6 | 5,507.7 |
| Amounts Due to Banks | 188,564.9 | 226,427.6 | 244,892.2 | 293,986.6 | 339,191.0 | 318,247.1 | 359,009.8 |
| In Singapore | 14,189.7 | 9,900.5 | 12,088.7 | 11,244.2 | 12,876.3 | 11,353.0 | 17,412.8 |
| Outside Singapore | 55,024.4 | 69,048.4 | 70,056.7 | 76,612.7 | 101,883.9 | 94,913.2 | 110,533.6 |
| Asian Currency Units | 119,350.8 | 147,478.7 | 162,746.8 | 206,129.6 | 224,430.8 | 211,980.9 | 231,063.4 |
| Other Liabilities ² | 96,843.1 | 81,428.0 | 80,970.7 | 69,953.3 | 94,576.2 | 103,154.6 | 107,562.2 |

¹ Excludes non-bank customers' holdings of Singapore dollar negotiable certificates of deposits (S\$NCDs).

² Includes accumulated depreciation for fixed assets and S\$NCDs issued.

19.10 LOANS AND ADVANCES OF DOMESTIC BANKING UNITS
TO NON-BANK CUSTOMERS BY INDUSTRY
(End of Period)

| | | | | | | Ν | Million Dollars |
|--------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 322,743.8 | 420,455.5 | 490,706.5 | 574,274.4 | 607,200.5 | 599,756.0 | 617,347.4 |
| Loans to Businesses | 171,224.5 | 240,916.4 | 284,173.2 | 349,231.0 | 370,760.6 | 357,001.0 | 367,008.1 |
| Agriculture, Mining & Quarrying | 382.2 | 1,719.7 | 2,104.3 | 4,905.9 | 5,536.0 | 5,611.6 | 5,834.2 |
| Manufacturing | 10,917.6 | 19,023.5 | 27,166.3 | 31,601.6 | 29,614.7 | 26,000.9 | 26,227.6 |
| Building & Construction ¹ | 53,593.9 | 67,304.4 | 78,704.0 | 91,274.7 | 103,712.6 | 119,405.2 | 121,387.2 |
| General Commerce | 30,982.9 | 48,809.6 | 57,349.8 | 75,888.3 | 78,082.4 | 65,954.1 | 63,958.1 |
| Transport, Storage & Communication | 9,018.1 | 11,883.2 | 13,089.2 | 17,162.7 | 20,045.3 | 20,810.4 | 20,998.7 |
| Business Services | 2,990.5 | 4,667.6 | 4,748.1 | 7,056.6 | 8,586.9 | 7,246.9 | 7,946.9 |
| Financial Institutions | 37,984.6 | 55,550.9 | 64,895.1 | 76,387.4 | 80,984.1 | 68,697.9 | 80,391.2 |
| Professional & Private Individuals - | | | | | | | |
| Business Purposes | 3,258.0 | 4,237.3 | 5,920.7 | 7,186.5 | 9,746.0 | 9,419.1 | 8,930.0 |
| Others | 22,096.7 | 27,720.2 | 30,195.7 | 37,767.3 | 34,452.6 | 33,854.9 | 31,334.2 |
| Consumer Loans | 151,519.4 | 179,539.0 | 206,533.3 | 225,043.5 | 236,439.9 | 242,754.8 | 250,339.5 |
| Housing & Bridging Loans | 112,381.3 | 131,106.5 | 152,003.0 | 166,542.0 | 177,434.6 | 184,680.6 | 192,099.8 |
| Professional & Private Individuals | | | | | | | |
| Car Loans | 11,678.5 | 12,743.9 | 12,523.5 | 10,693.3 | 8,641.5 | 7,845.3 | 7,858.1 |
| Credit Cards | 6,888.9 | 7,881.6 | 8,963.9 | 9,941.1 | 10,422.4 | 10,260.5 | 10,795.4 |
| Share Financing | 1,319.6 | 931.5 | 1,060.1 | 1,167.0 | 989.6 | 2,266.7 | 2,457.6 |
| Others | 19,251.1 | 26,875.5 | 31,982.8 | 36,700.1 | 38,951.8 | 37,701.7 | 37,128.6 |

Notes: Data include bills financing.

The industry categories have been refined according to Singapore Standard Industrial Classification 2015, and is by end-use of loans.

If this classification is not possible, the borrower's main business activity will be used.

¹ Includes loans to building and building co-operative societies, building developers and real estate agents.

19.11 ASSETS AND LIABILITIES OF ASIAN CURRENCY UNITS (End of Period)

| | | | | | | Mi | illion US Dollars |
|-----------------------------------|-----------|-------------|-------------|-------------|-------------|-------------|-------------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | | Assets | | | |
| Total | 971,299.4 | 1,019,532.9 | 1,093,264.6 | 1,180,374.8 | 1,190,475.4 | 1,155,822.6 | 1,134,099.6 |
| Loans to Non-bank Customers | 268,081.7 | 312,814.0 | 340,914.0 | 400,597.0 | 433,648.4 | 407,968.8 | 388,691.8 |
| Inter-bank Funds | 501,891.4 | 528,823.2 | 562,970.6 | 614,645.6 | 569,140.4 | 536,726.3 | 540,056.3 |
| In Singapore | 92,715.5 | 113,361.8 | 133,171.6 | 162,830.7 | 169,487.9 | 149,080.8 | 159,712.2 |
| Inter-Asian Currency Units | 53,762.1 | 53,383.9 | 53,768.7 | 56,274.7 | 51,138.2 | 60,510.7 | 50,997.9 |
| Outside Singapore | 355,413.7 | 362,077.5 | 376,030.3 | 395,540.2 | 348,514.3 | 327,134.9 | 329,346.2 |
| Debt Securities & Equities | 130,155.8 | 97,100.6 | 113,131.6 | 90,751.0 | 98,626.6 | 118,749.3 | 117,322.2 |
| Other Assets | 71,170.5 | 80,795.1 | 76,248.3 | 74,381.2 | 89,060.0 | 92,378.2 | 88,029.3 |
| | | | | Liabilities | | | |
| Total | 971,299.4 | 1,019,532.9 | 1,093,264.6 | 1,180,374.8 | 1,190,475.4 | 1,155,822.6 | 1,134,099.6 |
| Deposits of Non-bank Customers | 273,980.3 | 296,376.6 | 327,863.5 | 365,141.3 | 393,116.8 | 395,070.2 | 393,165.2 |
| Inter-bank Funds | 584,218.2 | 599,568.3 | 628,109.0 | 648,170.8 | 615,036.2 | 574,723.1 | 558,849.0 |
| In Singapore | 79,206.4 | 77,629.4 | 75,466.9 | 60,529.3 | 62,608.9 | 63,393.3 | 63,112.6 |
| Inter-Asian Currency Units | 53,812.3 | 53,603.0 | 53,934.8 | 56,261.1 | 51,721.6 | 60,595.7 | 51,807.1 |
| Outside Singapore | 451,199.5 | 468,335.9 | 498,707.3 | 531,380.3 | 500,705.7 | 450,734.1 | 443,929.3 |
| Other Liabilities | 113,100.9 | 123,588.0 | 137,292.1 | 167,062.7 | 182,322.4 | 186,029.3 | 182,085.4 |

Source: Monetary Authority of Singapore

Notes: Asian Currency Unit is a separate accounting unit of banks and other financial institutions given approval to transact in the Asian Dollar Market.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=9699 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=9701

19.12 ASSETS AND LIABILITIES OF FINANCE COMPANIES (End of Period)

Million Dollars Assets Total 11,523.6 12,165.3 14,967.5 14,985.7 15,975.7 17,409.8 16,407.7 Cash & Balances with Monetary 263.3 328.6 339.2 370.2 Authority of Singapore 225.6 368.8 397.4 Deposits with Banks & Other Institutions 1,885.0 1,176.2 1,810.1 1,369.2 1,495.4 1,895.9 1,735.9 Securities & Equities 1,259.3 1,161.9 1,414.7 1,522.5 1,613.0 1,735.6 1,641.1 Loans & Advances 1 8,058.2 9,460.2 11,311.5 11,653.9 12,385.4 13,251.7 12,546.5 Hire Purchase 2,069.9 2,089.9 2,037.7 1,891.5 1,779.4 1,978.1 2,113.4 1,930.4 1,899.6 1,785.3 On Motor Vehicles 1,877.1 1,637.0 1,464.8 1,619.4 On Consumer Durables 10.6 0.1 0.0 0.2 0.1 0.3 0.2 On Other Goods 202.3 254.3 139.4 138.0 314.6 358.3 327.9 **Housing Loans** 1,485.5 1,517.1 1,402.8 1,394.0 1,448.4 1,475.8 1,397.4 Other Loans & Advances 4,502.8 5,905.4 7,818.8 8,368.4 9,157.6 9,797.8 9,035.7 Other Assets 102.5 95.5 103.7 101.0 113.1 129.2 113.9 Liabilities Total 11,523.6 12,165.3 14,967.5 14,985.7 15,975.7 17,409.8 16,407.7 Capital & Reserves 1,926.2 1,999.2 2,104.8 2,109.6 2,214.2 2,242.4 2,263.2 Deposits 8,891.4 9,481.0 12,347.6 12,396.1 14,667.1 13,603.8 13,295.7 **Savings Deposits** 266.6 252.7 220.9 197.9 209.8 240.3 217.3 13,247.7 **Fixed Deposits** 9,218.7 11,909.9 11,887.0 12,897.2 8,614.6 14,313.5 Other Deposits 10.2 9.7 216.8 268.7 181.2 155.8 146.3 Other Creditors 79.6 45.6 22.6 17.0 6.9 4.3 5.4 Other Liabilities 626.4 639.5 492.5 463.0 458.9 496.0 535.3

Source: Monetary Authority of Singapore

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=5400 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=5406

¹ Includes lease financing and bills discounted/purchased and block discounting agreement among finance companies.

19.13 FINANCE COMPANIES' LOANS AND ADVANCES BY INDUSTRY (End of Period)

| | | | | | | | Million Dollars |
|-------------------------------------|---------|---------|---------|---------|---------|---------|-----------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total ¹ | 4,394.4 | 5,786.0 | 7,685.2 | 8,230.5 | 9,002.6 | 9,588.0 | 8,763.3 |
| Agriculture, Mining & Quarrying | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 0.8 | 2.6 |
| Manufacturing | 39.7 | 64.3 | 65.6 | 71.2 | 109.8 | 126.1 | 136.1 |
| Building & Construction | 2,204.6 | 3,228.8 | 4,190.6 | 4,736.8 | 4,846.5 | 4,791.6 | 3,987.1 |
| General Commerce | 187.4 | 166.2 | 188.9 | 194.5 | 237.9 | 300.2 | 300.3 |
| Transport, Storage & Communications | 89.4 | 73.3 | 164.0 | 152.2 | 201.6 | 247.9 | 299.7 |
| Financial Institutions | 182.8 | 349.7 | 694.1 | 898.3 | 1,157.9 | 1,409.0 | 1,516.9 |
| Professional & Private Individuals | 834.3 | 876.9 | 878.2 | 841.4 | 895.0 | 876.3 | 697.7 |
| Others | 856.1 | 1,026.7 | 1,503.9 | 1,335.3 | 1,553.1 | 1,836.1 | 1,823.0 |

¹ Excludes lease financing, factoring, block discounting and warehouse inventory financing and accounts receivable financing.

19.14 ASSETS AND LIABILITIES OF DOMESTIC AND ASIAN CURRENCY UNIT OPERATIONS OF MERCHANT BANKS
(End of Period)

| | | | | | | N | illion Dollars |
|------------------------|----------|----------|----------|-------------|----------|-----------|----------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | | Assets | | | |
| Total | 89,760.3 | 87,851.1 | 92,411.0 | 84,944.9 | 96,256.8 | 106,583.3 | 95,888.3 |
| Amounts Due from Banks | 22,604.2 | 22,815.1 | 21,646.5 | 21,226.5 | 19,532.4 | 25,050.5 | 26,014.2 |
| In Singapore | 2,254.7 | 2,567.3 | 3,170.6 | 3,433.8 | 3,556.6 | 2,803.5 | 2,891.1 |
| Asian Currency Units | 5,097.9 | 4,615.0 | 5,300.3 | 5,212.7 | 7,432.7 | 9,345.2 | 8,000.3 |
| Outside Singapore | 15,251.7 | 15,632.8 | 13,175.6 | 12,580.0 | 8,543.2 | 12,901.8 | 15,122.8 |
| Loans & Advances to | | | | | | | |
| Non-bank Customers | 25,976.8 | 29,095.7 | 26,832.3 | 25,533.8 | 26,640.2 | 23,322.0 | 19,350.7 |
| Securities & Equities | 36,100.0 | 28,618.0 | 38,303.3 | 32,642.1 | 43,415.1 | 50,320.9 | 43,193.7 |
| Other Assets | 5,079.2 | 7,322.2 | 5,628.9 | 5,542.5 | 6,669.1 | 7,889.8 | 7,329.7 |
| | | | | Liabilities | | | |
| Total | 89,760.3 | 87,851.1 | 92,411.0 | 84,944.9 | 96,256.8 | 106,583.3 | 95,888.3 |
| Capital & Reserves | 9,510.2 | 9,983.6 | 12,168.2 | 12,381.3 | 12,560.9 | 13,024.6 | 13,566.2 |
| Amounts Due to Banks | 51,264.3 | 46,928.5 | 55,045.1 | 51,658.0 | 63,112.6 | 70,528.6 | 61,856.6 |
| In Singapore | 3,101.8 | 585.8 | 615.2 | 408.6 | 406.4 | 514.3 | 5,814.2 |
| Asian Currency Units | 22,920.9 | 23,772.5 | 22,413.9 | 20,349.2 | 21,296.9 | 23,184.9 | 17,967.6 |
| Outside Singapore | 25,241.5 | 22,570.2 | 32,016.0 | 30,900.2 | 41,409.4 | 46,829.4 | 38,074.8 |
| Borrowings from | | | | | | | |
| Non-bank Customers | 21,249.1 | 22,623.4 | 17,741.8 | 13,600.6 | 12,564.7 | 13,291.2 | 12,370.2 |
| Other Liabilities | 7,736.8 | 8,315.7 | 7,456.0 | 7,305.0 | 8,018.6 | 9,738.8 | 8,095.3 |

Notes: Provision of corporate financial advisory services, underwriting and operations in the gold market are not reflected in the data.

19.15 DOMESTIC INTEREST RATES (End of Period)

| | | | | | | Per Cent P | er Annum |
|-----------------------------------------------|--------|--------|--------|--------|--------|------------|----------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Singapore Overnight Rate Average ¹ | 0.1181 | 0.1011 | 0.0380 | 0.0698 | 0.2484 | 0.7159 | 0.4595 |
| Banks ² | | | | | | | |
| Prime Lending Rate | 5.38 | 5.38 | 5.38 | 5.38 | 5.35 | 5.35 | 5.35 |
| Fixed Deposits | | | | | | | |
| 3 Months | 0.19 | 0.14 | 0.14 | 0.14 | 0.14 | 0.18 | 0.19 |
| 6 Months | 0.28 | 0.19 | 0.20 | 0.20 | 0.21 | 0.24 | 0.25 |
| 12 Months | 0.45 | 0.32 | 0.32 | 0.32 | 0.31 | 0.34 | 0.35 |
| Savings Deposits | 0.13 | 0.11 | 0.11 | 0.10 | 0.11 | 0.14 | 0.14 |
| Finance Companies ³ | | | | | | | |
| Fixed Deposits | | | | | | | |
| 3 Months | 0.19 | 0.15 | 0.20 | 0.18 | 0.18 | 0.30 | 0.30 |
| 6 Months | 0.26 | 0.22 | 0.28 | 0.25 | 0.25 | 0.38 | 0.38 |
| 12 Months | 0.53 | 0.46 | 0.53 | 0.53 | 0.53 | 0.58 | 0.50 |
| Savings Deposits | 0.25 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 |

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=5392 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=5397

¹ Refers to volume-weighted average of unsecured Singapore dollar overnight cash transctions brokered by money brokers in Singapore between 9.00am and 6.15pm of the reference/trading day.

² Refers to the average quoted by 10 leading banks.

³ Refers to the average rates compiled from that quoted by all leading finance companies.

19.16 CONTRIBUTIONS AND WITHDRAWALS OF CENTRAL PROVIDENT FUND

| | | | Million Dollars | | | | |
|--------------------------------------------------------|-----------|-----------|-----------------|-----------|-----------|-----------|-----------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Contributions (net of refunds) by members ¹ | 21,992.7 | 24,628.4 | 26,048.4 | 28,530.0 | 29,722.1 | 32,049.1 | 35,851.7 |
| Interest credited to members | 6,709.8 | 7,472.7 | 8,290.6 | 9,144.2 | 9,971.9 | 10,834.5 | 12,048.2 |
| Withdrawals (net of refunds) by members ² | 9,618.5 | 10,443.6 | 11,726.8 | 14,863.2 | 17,298.7 | 18,725.1 | 18,527.0 |
| Amount due to members | 185,888.0 | 207,545.5 | 230,157.7 | 252,968.6 | 275,363.9 | 299,522.4 | 328,895.3 |

Source: Central Provident Fund Board

¹ Includes dividends from Special Discounted Shares and Government Grants.

² Includes transfers to / from Reserve Account / general moneys of the Fund.

19.17 WITHDRAWALS OF CENTRAL PROVIDENT FUND BY TYPE

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | | |
|------------------------------------------------------|-----------------|----------|----------|----------|----------|----------|----------|--|--|--|
| | Million Dollars | | | | | | | | | |
| Withdrawals (net of refunds) by members ¹ | 9,618.5 | 10,443.6 | 11,726.8 | 14,863.2 | 17,298.7 | 18,725.1 | 18,527.0 | | | |
| Housing Schemes | | | | | | | | | | |
| Public Housing | 4,006.8 | 5,464.3 | 5,703.1 | 5,841.3 | 6,892.3 | 7,069.9 | 6,971.9 | | | |
| Residential Properties | 845.9 | 1,346.6 | 2,290.6 | 2,500.1 | 2,706.0 | 3,310.6 | 3,905.5 | | | |
| Reached 55 Years of Age and Above ² | 1,771.1 | 1,940.1 | 2,048.2 | 2,819.6 | 2,945.8 | 3,720.7 | 3,343.7 | | | |
| Leaving Singapore & Malaysia | | | | | | | | | | |
| Permanently ³ | 454.6 | 505.5 | 541.5 | 579.8 | 665.6 | 712.8 | 753.6 | | | |
| Death | 378.3 | 434.6 | 487.9 | 530.4 | 606.8 | 672.8 | 756.2 | | | |
| Medisave Scheme | 678.2 | 721.7 | 767.4 | 798.5 | 852.9 | 899.9 | 931.3 | | | |
| Private Medical Insurance Scheme | 286.1 | 335.5 | 384.6 | 484.1 | 542.9 | 581.0 | 674.4 | | | |
| Others ⁴ | 1,197.5 | -304.7 | -496.5 | 1,309.4 | 2,086.4 | 1,757.4 | 1,190.4 | | | |
| | | | | Number | | | | | | |
| Housing Schemes ⁵ | | | | | | | | | | |
| Public Housing | 739,922 | 749,989 | 752,740 | 742,813 | 733,637 | 731,292 | 739,964 | | | |
| Residential Properties | 148,205 | 153,893 | 164,704 | 173,105 | 177,360 | 188,640 | 201,763 | | | |
| Reached 55 Years of Age and Above ² | 207,868 | 227,540 | 245,645 | 261,573 | 296,333 | 389,598 | 343,136 | | | |
| Leaving Singapore & Malaysia | | | | | | | | | | |
| Permanently ³ | 13,454 | 14,619 | 15,038 | 13,868 | 14,081 | 13,591 | 13,046 | | | |
| Death | 18,544 | 19,869 | 18,472 | 18,796 | 19,395 | 20,510 | 20,465 | | | |

Source : Central Provident Fund Board

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2804 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=1836

¹ Includes transfers to / from Reserve Account / general moneys of the Fund.

² Includes first and subsequent withdrawals.

³ Includes Malaysians leaving Singapore permanently.

⁴ Includes withdrawals under Home Protection Insurance, Retirement Sum (previously known as Minimum Sum),
Dependants' Protection Insurance, Education, MediShield Life (previously known as Medishield), ElderShield, Lifelong Income,
Non-residential Properties, Investment and Special Discounted Shares schemes, transfers to/from Reserve Account/general
moneys of the Fund and on grounds of permanent incapacity and unsound mind.

⁵ Refers to the number of members who made withdrawals for the year.

19.18 TURNOVER ON THE SINGAPORE EXCHANGE (EQUITIES)

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| SGX Mainboard | | | | | | | | |
| Volume | Million | 342,864.0 | 254,663.2 | 357,633.8 | 541,726.2 | 307,505.1 | 262,911.6 | 223,565.5 |
| Basic Materials | Million | 20,403.7 | 13,129.9 | 14,168.3 | 16,097.6 | 14,343.8 | 12,020.1 | 5,638.2 |
| Consumer Goods | Million | 73,556.3 | 58,493.9 | 94,724.5 | 115,598.2 | 45,164.9 | 38,991.7 | 29,023.9 |
| Consumer Services | Million | 50,640.8 | 32,932.4 | 34,476.8 | 42,775.7 | 27,282.2 | 20,498.5 | 15,813.4 |
| Financials | Million | 47,610.5 | 37,527.6 | 38,856.2 | 77,412.1 | 40,738.7 | 47,372.6 | 46,454.3 |
| Health Care | Million | 8,626.4 | 3,478.1 | 3,858.5 | 2,995.9 | 2,364.2 | 2,959.5 | 1,434.3 |
| Industrials | Million | 90,137.0 | 64,617.9 | 120,133.5 | 184,896.5 | 102,478.6 | 82,566.7 | 69,684.6 |
| Oil & Gas | Million | 13,308.0 | 18,302.1 | 13,160.3 | 23,613.4 | 19,184.5 | 17,882.5 | 34,251.7 |
| Technology | Million | 25,390.8 | 12,673.7 | 27,685.7 | 49,125.2 | 23,865.9 | 26,032.3 | 11,894.1 |
| Telecommunications | Million | 6,044.9 | 6,792.4 | 7,256.1 | 6,326.9 | 5,128.2 | 6,957.3 | 7,019.7 |
| Utilities | Million | 7,145.5 | 6,715.1 | 3,313.8 | 22,884.9 | 26,954.1 | 7,630.4 | 2,351.3 |
| Value | S\$m | 376,751.6 | 341,256.1 | 306,418.9 | 322,357.3 | 244,061.6 | 263,867.4 | 252,981.2 |
| Basic Materials | S\$m | 11,582.6 | 9,153.2 | 8,049.1 | 5,140.7 | 3,381.3 | 1,657.4 | 1,118.4 |
| Consumer Goods | S\$m | 49,241.6 | 44,473.8 | 48,174.1 | 36,501.3 | 21,822.8 | 15,562.5 | 18,345.3 |
| Consumer Services | S\$m | 72,301.5 | 61,357.6 | 35,316.2 | 35,930.6 | 25,617.3 | 27,861.8 | 25,684.4 |
| Financials | S\$m | 115,972.5 | 100,174.4 | 84,491.6 | 115,431.2 | 96,621.3 | 119,251.3 | 117,060.6 |
| Health Care | S\$m | 6,427.9 | 2,858.9 | 3,743.1 | 2,682.6 | 2,212.1 | 2,940.7 | 1,596.8 |
| Industrials | S\$m | 66,978.0 | 60,046.7 | 65,390.0 | 60,024.9 | 45,022.6 | 45,915.0 | 41,170.4 |
| Oil & Gas | S\$m | 28,735.9 | 37,886.7 | 31,398.3 | 30,288.7 | 22,684.9 | 19,191.2 | 19,303.0 |
| Technology | S\$m | 6,120.2 | 3,233.6 | 7,815.0 | 12,013.2 | 3,873.5 | 3,198.9 | 1,703.0 |
| Telecommunications | S\$m | 16,531.1 | 19,491.4 | 20,843.5 | 21,729.2 | 17,411.4 | 25,711.7 | 25,670.1 |
| Utilities | S\$m | 2,860.3 | 2,580.1 | 1,198.0 | 2,614.9 | 5,414.6 | 2,577.0 | 1,329.2 |

(continued on the next page)

Source: Singapore Exchange Limited

Notes: All Mainboard stocks are classified based on Industry Classification Benchmark. Includes Ordinary Shares, Stapled Securities and Unit Trusts.

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19.18 TURNOVER ON THE SINGAPORE EXCHANGE (EQUITIES) (continued)

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------|---------|----------|----------|----------|-----------|-----------|----------|----------|
| SGX Catalist | | | | | | | | |
| Volume | Million | 37,683.2 | 27,039.6 | 86,015.5 | 268,959.6 | 127,480.1 | 83,075.8 | 98,223.5 |
| Basic Materials | Million | 19.4 | 605.7 | 650.3 | 32,834.3 | 19,418.7 | 8,698.6 | 24,194.1 |
| Consumer Goods | Million | 2,652.8 | 1,317.7 | 7,424.9 | 14,180.0 | 5,439.4 | 3,119.3 | 4,307.3 |
| Consumer Services | Million | 1,813.3 | 1,447.2 | 9,935.4 | 32,541.6 | 6,926.9 | 5,933.4 | 14,550.6 |
| Financials | Million | 132.7 | 1,084.6 | 1,805.8 | 1,251.9 | 8,984.7 | 3,222.6 | 721.6 |
| Health Care | Million | 4,825.5 | 874.9 | 3,281.3 | 13,537.4 | 11,046.3 | 17,120.3 | 18,073.3 |
| Industrials | Million | 19,564.8 | 14,926.2 | 26,854.7 | 93,561.0 | 50,807.0 | 28,839.4 | 23,244.8 |
| Oil & Gas | Million | 1,702.6 | 1,514.4 | 5,585.0 | 457.2 | 3,037.9 | 4,787.2 | 8,592.6 |
| Technology | Million | 5,698.4 | 4,682.8 | 11,501.5 | 44,318.9 | 9,144.8 | 8,200.7 | 2,724.0 |
| Telecommunications | Million | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Utilities | Million | 1,273.8 | 586.2 | 18,976.6 | 36,277.3 | 12,674.5 | 3,154.4 | 1,815.2 |
| Value | S\$m | 4,953.7 | 3,380.9 | 7,743.8 | 18,322.8 | 13,030.4 | 8,232.8 | 7,086.5 |
| Basic Materials | S\$m | 2.2 | 290.3 | 286.9 | 2,745.3 | 1,625.3 | 743.7 | 1,633.0 |
| Consumer Goods | S\$m | 304.9 | 132.4 | 361.4 | 748.2 | 284.9 | 71.4 | 110.2 |
| Consumer Services | S\$m | 613.8 | 256.0 | 257.5 | 1,260.2 | 789.2 | 750.3 | 2,215.3 |
| Financials | S\$m | 20.8 | 166.9 | 514.5 | 409.4 | 807.3 | 232.6 | 120.1 |
| Health Care | S\$m | 804.7 | 82.7 | 239.5 | 1,263.6 | 2,773.6 | 3,429.3 | 978.6 |
| Industrials | S\$m | 2,104.2 | 1,700.3 | 2,783.4 | 8,280.4 | 4,385.3 | 1,918.2 | 1,207.6 |
| Oil & Gas | S\$m | 692.5 | 578.1 | 2,553.7 | 222.5 | 1,286.3 | 543.2 | 626.7 |
| Technology | S\$m | 316.4 | 142.0 | 263.3 | 1,587.8 | 313.4 | 474.1 | 178.3 |
| Telecommunications | S\$m | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Utilities | S\$m | 94.1 | 32.0 | 483.7 | 1,805.5 | 765.3 | 70.1 | 16.7 |

Source : Singapore Exchange Limited

Notes: All Catalist stocks are classified based on Industry Classification Benchmark. Includes Ordinary Shares, Stapled Securities and Unit Trusts.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=5232 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=5229

19.19 PLEDGES AT PAWNSHOPS

| Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|------|---------------------|---------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | | | | | |
| | | | | | | | |
| '000 | 2,977.1 | 3,498.1 | 4,003.9 | 4,206.0 | 4,236.2 | 4,374.4 | 4,452.5 |
| '000 | 2,788.8 | 3,342.0 | 3,793.2 | 4,017.4 | 4,081.0 | 4,198.6 | 4,251.3 |
| | | | | | | | |
| | | | | | | | |
| \$m | 2,745.4 | 4,946.8 | 7,067.6 | 5,470.6 | 5,276.2 | 5,381.1 | 5,525.5 |
| \$m | 2,604.3 | 4,755.1 | 7,123.5 | 5,577.7 | 5,310.5 | 5,420.2 | 5,503.6 |
| | '000 '000 \$m | '000 2,977.1 '000 2,788.8 \$m 2,745.4 | '000 2,977.1 3,498.1 '000 2,788.8 3,342.0 \$m 2,745.4 4,946.8 | '000 2,977.1 3,498.1 4,003.9 '000 2,788.8 3,342.0 3,793.2 \$m 2,745.4 4,946.8 7,067.6 | '000 2,977.1 3,498.1 4,003.9 4,206.0 '000 2,788.8 3,342.0 3,793.2 4,017.4 \$m 2,745.4 4,946.8 7,067.6 5,470.6 | '000 2,977.1 3,498.1 4,003.9 4,206.0 4,236.2 '000 2,788.8 3,342.0 3,793.2 4,017.4 4,081.0 \$\$m\$ 2,745.4 4,946.8 7,067.6 5,470.6 5,276.2 | '000 2,977.1 3,498.1 4,003.9 4,206.0 4,236.2 4,374.4 '000 2,788.8 3,342.0 3,793.2 4,017.4 4,081.0 4,198.6 \$m 2,745.4 4,946.8 7,067.6 5,470.6 5,276.2 5,381.1 |

Source : Registry of Pawnbrokers

19.20 LIFE INSURANCE POLICIES (End of Period)

| | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|----------------------------------|-----------|-----------|-----------|-----------------|-----------|-----------|-----------|
| | | | | Thousand | | | |
| Policies in Force | 11,386.2 | 11,763.7 | 12,191.8 | 12,591.7 | 12,900.4 | 13,140.1 | 13,466.8 |
| New Policies | 1,058.5 | 1,065.0 | 1,128.2 | 1,121.2 | 1,097.4 | 1,046.8 | 1,052.7 |
| Policies Matured or Discontinued | 99.8 | 687.5 | 700.1 | 721.3 | 788.7 | 807.0 | 724.9 |
| | | | | Million Dollars | | | |
| Policies in Force | | | | | | | |
| Amount Insured | 586,346.2 | 629,474.7 | 713,645.4 | 783,874.9 | 839,804.0 | 903,071.2 | 990,566.8 |
| Annual Premiums | 8,407.5 | 9,213.5 | 10,324.4 | 11,407.1 | 13,015.5 | 14,352.5 | 15,686.2 |
| New Policies | | | | | | | |
| Amount Insured | 82,707.7 | 91,616.1 | 116,309.6 | 134,122.9 | 123,355.7 | 132,495.8 | 168,194.2 |
| Single Premium | 5,177.1 | 5,610.4 | 6,537.3 | 5,861.1 | 7,038.1 | 8,672.9 | 9,463.5 |
| Annual Premiums | 1,151.8 | 1,451.2 | 1,784.5 | 2,133.9 | 2,687.9 | 2,451.5 | 2,632.3 |
| Policies Matured or Discontinued | | | | | | | |
| Amount Insured | 31,305.9 | 48,487.6 | 55,770.1 | 63,904.7 | 67,530.1 | 69,228.6 | 80,637.8 |
| Annual Premiums | 480.1 | 645.2 | 695.3 | 1,051.4 | 1,088.9 | 1,114.5 | 1,267.1 |

19.21 REVENUE AND EXPENDITURE ACCOUNTS OF LIFE INSURANCE FUNDS

| | | | | | | | Million Dollars | | | |
|-----------------------------|-------------|----------|----------|----------|----------|----------|-----------------|--|--|--|
| | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | | | |
| | | | | Revenue | | | | | | |
| Total | 29,422.6 | 23,471.0 | 15,713.6 | 28,010.5 | 21,947.3 | 32,487.7 | 23,995.4 | | | |
| Net Premiums Written | 13,357.6 | 14,300.4 | 16,395.8 | 16,841.2 | 19,189.7 | 22,225.4 | 22,228.7 | | | |
| Net Investment Income | 15,872.5 | 6,693.6 | -901.4 | 10,948.8 | 2,485.7 | 9,998.8 | 1,457.0 | | | |
| Miscellaneous | 192.5 | 2,477.0 | 219.2 | 220.5 | 271.9 | 263.5 | 309.7 | | | |
| | Expenditure | | | | | | | | | |
| Total | 29,422.6 | 23,471.0 | 15,713.6 | 28,010.5 | 21,947.3 | 32,487.7 | 23,995.4 | | | |
| Claims on Death, Disability | | | | | | | | | | |
| & Maturity | 6,325.0 | 6,377.1 | 7,329.9 | 8,487.7 | 9,657.7 | 10,193.7 | 8,870.5 | | | |
| Surrenders | 2,949.6 | 3,253.3 | 3,259.3 | 3,285.0 | 3,707.3 | 4,067.4 | 4,417.8 | | | |
| Cash Bonuses & Annuities | 433.3 | 452.0 | 472.0 | 480.7 | 514.5 | 565.4 | 635.1 | | | |
| Management Expenses | 596.2 | 628.9 | 729.6 | 768.4 | 880.2 | 934.1 | 1,039.0 | | | |
| Distribution Expenses | 1,135.9 | 1,235.2 | 1,582.9 | 1,820.2 | 2,090.7 | 2,334.2 | 2,416.6 | | | |
| Miscellaneous | 17,982.6 | 11,524.5 | 2,339.9 | 13,168.5 | 5,096.9 | 14,392.9 | 6,616.4 | | | |

Notes: Data are based on the risk-based capital framework.

19.22 ASSETS OF LIFE INSURANCE FUNDS (End of Period)

| | | | | | | | Million Dollars |
|--------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| Total | 108,404.4 | 117,673.8 | 118,606.3 | 132,476.3 | 136,178.8 | 151,329.3 | 159,536.4 |
| Land & Buildings | 2,658.6 | 2,889.4 | 3,055.8 | 3,109.4 | 3,187.8 | 3,243.4 | 3,266.4 |
| Loans | | | | | | | |
| On Mortgages | 1,631.7 | 1,387.6 | 974.1 | 659.4 | 680.5 | 640.9 | 610.1 |
| On Policies | 2,383.9 | 2,347.8 | 2,340.9 | 2,326.9 | 2,333.7 | 2,377.3 | 2,411.2 |
| Others | 177.2 | 313.5 | 579.9 | 345.5 | 312.4 | 318.1 | 645.2 |
| Investments | | | | | | | |
| Debt Securities | 56,067.7 | 60,460.5 | 64,850.1 | 75,322.0 | 76,196.0 | 87,457.7 | 94,458.3 |
| Equity Securities | 38,263.2 | 41,900.8 | 36,235.1 | 41,288.5 | 46,102.7 | 50,936.3 | 51,599.1 |
| Cash & Deposits | 4,765.7 | 5,244.8 | 8,085.7 | 6,675.5 | 5,578.9 | 5,070.5 | 5,439.9 |
| Miscellaneous (including Outstanding Premiums) 1 | 2,456.4 | 3,129.4 | 2,484.7 | 2,749.1 | 1,786.8 | 1,285.1 | 1,106.2 |

Notes: Data are based on the risk-based capital framework.

1 Includes furniture.

19.23 PREMIUMS AND CLAIMS OF GENERAL INSURANCE FUNDS

| Million Dollars |
|-----------------|
|-----------------|

| | | | | | | | Million Dollars |
|-----------------------------|---------|---------|---------|--------------------------|---------|---------|-----------------|
| | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| | | | Ne | et Premiums ¹ | | | |
| Total | 2,235.8 | 2,518.1 | 2,645.3 | 2,784.9 | 2,866.9 | 2,936.1 | 2,649.5 |
| Marine, Aviation or Transit | 209.3 | 231.1 | 229.7 | 225.0 | 215.0 | 229.5 | 233.2 |
| Others | | | | | | | |
| Fire | 195.1 | 199.4 | 211.7 | 218.7 | 235.1 | 244.9 | 220.9 |
| Motor Vehicles | 1,015.3 | 1,112.8 | 1,148.9 | 1,182.5 | 1,169.7 | 1,123.1 | 943.0 |
| Miscellaneous | 816.1 | 974.8 | 1,055.0 | 1,158.7 | 1,247.1 | 1,338.6 | 1,252.4 |
| | | | Net | Claims Settled | 2 | | |
| Total | 1,175.9 | 1,157.5 | 1,176.1 | 1,353.2 | 1,366.3 | 1,355.7 | 1,481.3 |
| Marine, Aviation or Transit | 88.3 | 78.8 | 94.8 | 101.6 | 106.9 | 110.2 | 129.4 |
| Others | | | | | | | |
| Fire | 48.7 | 50.2 | 56.5 | 102.5 | 69.8 | 41.6 | 79.0 |
| Motor Vehicles | 654.3 | 632.6 | 623.8 | 693.4 | 689.6 | 660.7 | 651.4 |
| Miscellaneous | 384.6 | 395.9 | 401.0 | 455.7 | 500.0 | 543.2 | 621.5 |

¹ Refers to gross premiums less premiums paid for re-insurance in and out of Singapore.

² Refers to gross claims paid less recoveries from re-insurance placed in and out of Singapore.

19.24 REVENUE AND EXPENDITURE ACCOUNTS OF GENERAL INSURANCE FUNDS

| Mί | llion | DOL | lars |
|----|-------|-----|------|
| | | | |

| | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|-------------------------------------------|---------|---------|---------|-------------|---------|---------|---------|
| | | | | Revenue | | | |
| Total | 2,572.1 | 2,762.2 | 2,709.4 | 3,120.6 | 3,028.6 | 3,226.3 | 2,786.8 |
| Net Premiums Written | 2,235.8 | 2,518.1 | 2,645.3 | 2,784.9 | 2,866.9 | 2,936.1 | 2,649.5 |
| Net Investment Income | 311.5 | 219.7 | 44.1 | 302.9 | 135.1 | 246.2 | 92.0 |
| Miscellaneous | 24.8 | 24.4 | 20.0 | 32.8 | 26.6 | 44.0 | 45.3 |
| | | | | Expenditure | | | |
| Total | 2,572.1 | 2,762.2 | 2,709.4 | 3,120.6 | 3,028.6 | 3,226.3 | 2,786.8 |
| Net Claims Settled | 1,175.9 | 1,157.5 | 1,176.1 | 1,353.2 | 1,366.3 | 1,355.7 | 1,481.3 |
| Management Expenses | 431.4 | 482.4 | 532.5 | 542.8 | 601.5 | 658.2 | 735.8 |
| Distribution Expenses | 322.9 | 350.8 | 361.9 | 371.2 | 396.9 | 416.9 | 283.5 |
| Increase (Decrease) in Policy Liabilities | 44.7 | 251.2 | 342.3 | 172.1 | 131.9 | 65.4 | -172.6 |
| Miscellaneous | 597.2 | 520.3 | 296.6 | 681.3 | 532.0 | 730.1 | 458.8 |

Notes: Data are based on the risk-based capital framework.

19.25 ASSETS OF GENERAL INSURANCE FUNDS (End of Period)

| | | | | | | Ν | Aillion Dollars |
|-------------------|---------|---------|---------|---------|---------|----------|-----------------|
| | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| Total | 7,761.4 | 8,363.9 | 8,742.2 | 9,446.5 | 9,989.2 | 10,489.3 | 11,070.6 |
| Land & Buildings | 183.0 | 165.3 | 199.9 | 200.2 | 260.9 | 293.0 | 286.6 |
| Loans | 43.1 | 49.9 | 34.5 | 39.8 | 48.6 | 44.8 | 50.8 |
| Investments | | | | | | | |
| Debt Securities | 3,880.9 | 4,274.2 | 4,451.4 | 4,703.5 | 4,967.9 | 5,495.9 | 6,155.4 |
| Equity Securities | 517.3 | 906.6 | 800.1 | 960.1 | 1,016.0 | 1,027.9 | 941.4 |
| Cash & Deposits | 2,460.3 | 2,212.2 | 2,399.6 | 2,578.0 | 2,721.0 | 2,577.2 | 2,273.7 |
| Miscellaneous | 676.8 | 755.7 | 856.7 | 964.9 | 974.8 | 1,050.5 | 1,362.7 |

Notes: Data are based on the risk-based capital framework.

 $Download\ time\ series\ at\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=5314$

19.26 CREDIT AND CHARGE CARDS

| Jnit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|---------------------------------------|------------------|--------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No. | 6,141,870 | 6,883,993 | 7,843,765 | 7,984,608 | 8,156,466 | 8,044,900 | 7,818,154 |
| No. | 1,378,817 | 1,450,282 | 1,502,591 | 1,573,936 | 1,554,840 | 1,490,254 | 1,438,589 |
| \$m | 30941.9 | 35230.1 | 38419.2 | 41602.2 | 44582.4 | 47103.9 | 49904.1 |
| \$m | 4014.7 | 4537.9 | 4991.8 | 5362.9 | 5500.6 | 5290.3 | 5301.3 |
| \$m | 181.9 | 186.7 | 226.6 | 247.8 | 273.9 | 319.1 | 319.3 |
| ייייייייייייייייייייייייייייייייייייי | No. No. Šm | No. 6,141,870 No. 1,378,817 Sm 30941.9 Sm 4014.7 | No. 6,141,870 6,883,993 No. 1,378,817 1,450,282 Sm 30941.9 35230.1 Sm 4014.7 4537.9 | No. 6,141,870 6,883,993 7,843,765 No. 1,378,817 1,450,282 1,502,591 Sm 30941.9 35230.1 38419.2 Sm 4014.7 4537.9 4991.8 | No. 6,141,870 6,883,993 7,843,765 7,984,608 No. 1,378,817 1,450,282 1,502,591 1,573,936 Sm 30941.9 35230.1 38419.2 41602.2 Sm 4014.7 4537.9 4991.8 5362.9 | No. 6,141,870 6,883,993 7,843,765 7,984,608 8,156,466 No. 1,378,817 1,450,282 1,502,591 1,573,936 1,554,840 Sm 30941.9 35230.1 38419.2 41602.2 44582.4 Sm 4014.7 4537.9 4991.8 5362.9 5500.6 | No. 6,141,870 6,883,993 7,843,765 7,984,608 8,156,466 8,044,900 No. 1,378,817 1,450,282 1,502,591 1,573,936 1,554,840 1,490,254 Sm 30941.9 35230.1 38419.2 41602.2 44582.4 47103.9 Sm 4014.7 4537.9 4991.8 5362.9 5500.6 5290.3 |

Source: Monetary Authority of Singapore

1 As at end of period.



Public Finance



20 Public Finance



The presentation of the annual Government Budget is based on the financial year (FY) of the Government, which runs from 1 April of the year to 31 March of the following year.

Under Singapore's Constitution, distinction is made between the reserves accumulated by the Government during its current term of office, and past reserves, which refer to the reserves not accumulated in the current term of Government. The Government is expected to balance the budget within its term and can only draw on past reserves with the approval of the President. This Constitutional framework protects past reserves by enforcing fiscal prudence, while allowing the Government to draw on them in times of need.

The Overall Budget Balance that is published by the Ministry of Finance and presented to the Parliament is based on revenues that the Government of the day can spend under the Constitution. Not all Government revenues and receipts collected can be spent by the Government. Receipts such as land sales accrue to past reserves.

Singapore separately publishes a set of government finance data that follows the International Monetary Fund's presentation format for government finance statistics. This set of data includes all receipts, including items not available for spending by the Government of the day under Singapore's Constitution.

Government Revenue



The main revenue-collecting agencies are the Inland Revenue Authority of Singapore (IRAS) the Singapore Customs. IRAS and responsible for the collection of income tax, property tax, Goods and Services Tax (GST), stamp duty, betting duty, casino tax and private lotteries duty. The Singapore Customs collects import GST as well as customs and excise duties on liquors, tobacco, petroleum products and motor vehicles.

A person who has stayed or exercised employment in Singapore for a period of 183 days or more in the year preceding the year of assessment would be considered a tax resident of Singapore. Tax residents pay personal income tax at progressive rates on the chargeable income of the preceding year after appropriate deductions (e.g. allowable expenses, donations and reliefs) have been made. Non-tax resident individuals are not entitled to personal reliefs or rebates and are normally taxed at a flat rate.

A company is taxed at a flat rate on its chargeable income earned in the preceding financial year. Tax reliefs in the form of tax exemption schemes and corporate income tax rebates are available for companies to help reduce their taxes. More related information is available at the IRAS website.

GST is a consumption tax levied on the import of goods, and all supplies of goods and services in Singapore, except for the sales and leases of residential properties, importation and local supply of investment precious metals and the provision of financial services. The GST rate is 7 per cent. International services and export of goods are zero-rated (i.e. GST is charged at 0 per cent).

Government Expenditure



Total Expenditure consists of Operating Expenditure and Development Expenditure.

Operating Expenditure includes Running Costs and Transfers. Running Costs represent the day-to-day operating expenditure of the Government Ministries and Departments on the maintenance of the operations and other regular activities of the Government. The components of Running Costs are expenditure on manpower, other operating expenditure and operating grants to Statutory Boards and other institutions. Transfers are payments made by the

Public Finance • 🏦

Government to members of the public and outside organisations. These include public assistance, subsidies, subventions and Government contributions to local and external organisations. Operating Expenditure is met from the Consolidated Fund ¹.

Development Expenditure refers to expenses that represent a longer-term investment or result in the formation of a capitalisable asset of the Government. Examples of spending areas are the acquisition of heavy equipment, as well as capitalisable assets, for example, buildings and roads. Development Expenditure is met from the Development Fund ².

The funding sources of the Development Fund are:

- monies appropriated from time to time from the Consolidated Fund;
- ii) proceeds of any loan raised for the purposes of the fund and appropriated to such purposes by the law raising the loan;
- iii) loans or grants from time to time made to Singapore for the purposes of or properly allocable to the fund;
- iv) revenues of Singapore allocated to the fund;
- v) interest and other income from investments of the fund and profits arising from the realisation of any such investments; and
- vi) repayments of any loans made from the fund, or payments of interest on such loans.

The Development Fund may be used for:

i) construction, improvement, acquisition

¹ The consolidated Fund was constituted by Article 145 of the Constitution of the Republic of Singapore

² The Development Fund was established by the Development Fund Act (Cap. 80, 2013 Revised Edition).

(1999 Revised Edition).

or replacement of capital assets (for example, buildings, vehicles, aircraft, machinery, rolling-stock, roads) required in respect of or in connection with the economic development or general welfare of Singapore;

- ii) acquisition of land and of any right or interest in or over land and in respect of the use of any invention; and
- iii) grants and loans to, or investments in any public authority or corporation for any of the purposes mentioned in (i) and (ii) above.

Government Debt



The Government issues the following debt securities: Treasury Bills, Singapore Government Securities (SGS) bonds, Special Singapore Government Securities (SSGS) and Singapore Savings Bonds (SSB), all for reasons unrelated to the Government's fiscal needs:

- i) SGS bonds and Treasury Bills are tradable debt instruments issued to develop Singapore's debt markets;
- ii) SSGS are non-tradable bonds issued primarily to meet the investment needs of the Central Provident Fund (CPF) Board, Singapore's national pension fund; and
- iii) SSB are introduced to provide individual investors with a long-term savings option that offers safe returns.

The Government does not borrow to fund its Budget. Under the Protection of Reserves Framework in Singapore's Constitution, borrowing proceeds are not revenues that the Government is allowed to spend. All borrowing proceeds from the issuance of securities are therefore invested.

The Singapore Government has a strong balance sheet with assets in excess of its liabilities.

20.1 OVERALL FISCAL POSITION

Million Dollars

| | | | | | | IV | illion Dollars |
|--------------------------------------|----------|----------|----------|----------|----------|----------|----------------|
| | FY2009 | FY2010 | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 |
| Operating Revenue ¹ | 39,546.5 | 46,060.2 | 51,077.2 | 55,814.5 | 57,020.3 | 60,838.2 | 64,823.2 |
| Corporate Income Tax | 9,550.9 | 10,686.6 | 12,096.3 | 12,821.3 | 12,679.6 | 13,371.5 | 13,815.1 |
| Personal Income Tax | 6,113.5 | 6,469.6 | 6,871.4 | 7,713.7 | 7,688.1 | 8,926.7 | 9,234.9 |
| Withholding Tax | 1,137.2 | 957.4 | 1,258.0 | 1,337.3 | 1,152.4 | 1,126.0 | 1,402.0 |
| Statutory Boards' Contributions | 409.7 | 573.2 | 353.2 | 539.1 | 529.8 | 515.9 | 438.3 |
| Assets Taxes | 1,987.3 | 2,803.2 | 3,901.9 | 3,768.3 | 4,181.9 | 4,340.6 | 4,455.0 |
| Customs and Excise Taxes | 2,125.3 | 2,048.5 | 2,132.8 | 2,141.7 | 2,189.4 | 2,539.7 | 2,833.0 |
| Goods and Services Tax | 6,913.7 | 8,198.0 | 8,687.0 | 9,038.0 | 9,512.7 | 10,215.0 | 10,345.1 |
| Motor Vehicle Taxes | 1,855.6 | 1,850.9 | 1,919.6 | 1,802.9 | 1,654.6 | 1,602.9 | 1,759.7 |
| Betting Taxes | 1,727.0 | 2,278.7 | 2,373.4 | 2,304.8 | 2,378.8 | 2,591.0 | 2,719.0 |
| Stamp Duty | 2,386.2 | 3,276.5 | 3,175.1 | 4,309.5 | 3,929.9 | 2,783.5 | 2,769.0 |
| Other Taxes ² | 2,410.0 | 2,705.6 | 3,307.3 | 4,341.8 | 5,248.4 | 6,097.1 | 5,876.2 |
| Vehicle Quota Premiums | 623.3 | 1,602.1 | 2,112.0 | 2,572.1 | 2,721.7 | 3,394.0 | 5,424.8 |
| Other Fees and Charges ³ | 2,141.8 | 2,384.3 | 2,587.2 | 2,707.7 | 2,903.0 | 3,010.5 | 3,248.9 |
| Others ⁴ | 164.8 | 225.8 | 302.0 | 416.1 | 250.0 | 323.8 | 502.2 |
| Total Expenditure ⁵ | 41,890.9 | 45,337.8 | 46,563.4 | 49,003.9 | 51,727.8 | 56,648.3 | 67,447.0 |
| Social Development | 18,145.6 | 20,102.1 | 21,659.5 | 21,877.4 | 24,179.4 | 27,206.8 | 31,292.6 |
| Security and External Relations | 14,383.5 | 14,637.5 | 14,805.7 | 15,397.4 | 16,093.6 | 17,196.1 | 18,451.6 |
| Economic Development | 8,041.6 | 9,156.5 | 8,570.2 | 9,824.8 | 9,573.8 | 10,146.8 | 15,540.7 |
| Government Administration | 1,320.2 | 1,441.7 | 1,528.0 | 1,904.4 | 1,881.0 | 2,098.6 | 2,162.2 |
| Primary Surplus/(Deficit) | -2,344.3 | 722.4 | 4,513.7 | 6,810.6 | 5,292.5 | 4,189.9 | -2,623.9 |
| Special Transfers ⁶ | 5,481.4 | 7,094.6 | 8,426.7 | 8,859.5 | 8,583.6 | 12,356.2 | 10,369.2 |
| Special Transfers Excluding Top-ups | | | | | | | |
| to Endowment and Trust Funds | 4,071.4 | 1,504.6 | 2,909.2 | 1,457.5 | 2,989.6 | 3,856.2 | 4,369.2 |
| Basic Surplus/(Deficit) ⁷ | -6,415.7 | -782.3 | 1,604.5 | 5,353.0 | 2,302.9 | 333.7 | -6,993.0 |
| Top-ups to Endowment and Trust | | | | | | | |
| Funds | 1,410.0 | 5,590.0 | 5,517.5 | 7,402.0 | 5,594.0 | 8,500.0 | 6,000.0 |
| Net Investment Income/Net Investment | | | | | | | |
| Returns Contribution ⁸ | 7,006.5 | 7,352.4 | 7,915.6 | 7,870.1 | 8,289.4 | 8,737.8 | 8,943.3 |
| Overall Budget Surplus/(Deficit) | -819.2 | 980.1 | 4,002.7 | 5,821.1 | 4,998.2 | 571.5 | -4,049.7 |

Source: Accountant-General's Department

Notes: Data refer to the Government's financial year, which begins on 1 April of the current year and ends on 31 March of the following year.

Figures may not add up due to rounding.

- 1 Excludes the repayment of loans and advances, interest income, investment income and capital receipts.
- 2 Includes the foreign worker levy, annual tonnage tax, water conservation tax and development charge.
- 3 Includes revenue from licenses, permits, service fees, sales of goods, rental of premises, fines and forfeitures and reimbursements.
- 4 Excludes repayment of loans and advances, interest income, investment income and capital receipts.
- 5 Comprises Operating Expenditure and Development Expenditure. Development Expenditure excludes loans to statutory boards, industrial and commercial enterprises and land-related expenditure items.
- 6 Refers to discretionary transfers made by the Government and these include one-off direct transfers to businesses and households, as well as top-ups to endowment and trust funds created by the Government for specific expenditure objectives.
- 7 Surplus/Deficit before Top-ups to Endowment and Trust Funds and Net Investment Income/Returns Contribution.
- 8 Net Investment Returns Contribution (NIRC) is the sum of: (1) up to 50% of the expected long-term real return on the relevant assets specified in the Constitution; and (2) up to 50% of the net investment income on the remaining assets.

20.2 GOVERNMENT OPERATING REVENUE

Million Dollars

| | | | | | IVI | illion Dollars |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FY2009 | FY2010 | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 |
| 39,546.5 | 46,060.2 | 51,077.2 | 55,814.5 | 57,020.3 | 60,838.2 | 64,823.2 |
| 36,616.6 | 41,848.0 | 46,076.1 | 50,118.5 | 51,145.6 | 54,109.8 | 55,647.3 |
| 17,211.3 | 18,686.8 | 20,578.9 | 22,411.4 | 22,049.9 | 23,940.0 | 24,890.4 |
| 9,550.9 | 10,686.6 | 12,096.3 | 12,821.3 | 12,679.6 | 13,371.5 | 13,815.1 |
| 6,113.5 | 6,469.6 | 6,871.4 | 7,713.7 | 7,688.1 | 8,926.7 | 9,234.9 |
| 1,137.2 | 957.4 | 1,258.0 | 1,337.3 | 1,152.4 | 1,125.9 | 1,402.0 |
| 409.7 | 573.2 | 353.2 | 539.1 | 529.8 | 515.9 | 438.3 |
| 1,987.3 | 2,803.2 | 3,901.9 | 3,768.3 | 4,181.9 | 4,340.6 | 4,455.0 |
| 1,979.1 | 2,798.0 | 3,898.9 | 3,760.1 | 4,178.8 | 4,340.1 | 4,455.6 |
| 8.2 | 5.2 | 2.9 | 8.2 | 3.1 | 0.5 | -0.6 |
| 2,125.3 | 2,048.5 | 2,132.8 | 2,141.7 | 2,189.4 | 2,539.7 | 2,833.1 |
| 432.5 | 469.5 | 495.9 | 516.6 | 518.3 | 634.0 | 637.6 |
| 931.6 | 889.1 | 967.1 | 969.1 | 1,042.8 | 1,227.7 | 1,205.2 |
| 413.3 | 418.8 | 416.4 | 414.8 | 414.2 | 419.4 | 583.8 |
| 343.6 | 266.5 | 248.0 | 233.3 | 206.2 | 250.5 | 399.0 |
| na | na | 0.7 | 3.2 | 2.8 | 2.6 | 2.2 |
| 4.2 | 4.5 | 4.7 | 4.8 | 5.1 | 5.5 | 5.3 |
| 6,913.7 | 8,198.0 | 8,687.0 | 9,038.0 | 9,512.7 | 10,215.0 | 10,345.1 |
| 1,855.6 | 1,850.9 | 1,919.6 | 1,802.9 | 1,654.6 | 1,602.9 | 1,759.7 |
| 1,727.0 | 2,278.7 | 2,373.4 | 2,304.8 | 2,378.8 | 2,591.0 | 2,719.0 |
| 2,386.2 | 3,276.5 | 3,175.1 | 4,309.5 | 3,929.9 | 2,783.6 | 2,768.9 |
| 2,410.0 | 2,705.6 | 3,307.3 | 4,341.8 | 5,248.4 | 6,097.1 | 5,876.2 |
| | 39,546.5 36,616.6 17,211.3 9,550.9 6,113.5 1,137.2 409.7 1,987.3 1,979.1 8.2 2,125.3 432.5 931.6 413.3 343.6 na 4.2 6,913.7 1,855.6 1,727.0 2,386.2 | 39,546.5 46,060.2 36,616.6 41,848.0 17,211.3 18,686.8 9,550.9 10,686.6 6,113.5 6,469.6 1,137.2 957.4 409.7 573.2 1,987.3 2,803.2 1,979.1 2,798.0 8.2 5.2 2,125.3 2,048.5 432.5 469.5 931.6 889.1 413.3 418.8 343.6 266.5 na na 4.2 4.5 6,913.7 8,198.0 1,855.6 1,850.9 1,727.0 2,278.7 2,386.2 3,276.5 | 39,546.5 46,060.2 51,077.2 36,616.6 41,848.0 46,076.1 17,211.3 18,686.8 20,578.9 9,550.9 10,686.6 12,096.3 6,113.5 6,469.6 6,871.4 1,137.2 957.4 1,258.0 409.7 573.2 353.2 1,987.3 2,803.2 3,901.9 1,979.1 2,798.0 3,898.9 8.2 5.2 2.9 2,125.3 2,048.5 2,132.8 432.5 469.5 495.9 931.6 889.1 967.1 413.3 418.8 416.4 343.6 266.5 248.0 na na 0.7 4.2 4.5 4.7 6,913.7 8,198.0 8,687.0 1,855.6 1,850.9 1,919.6 1,727.0 2,278.7 2,373.4 2,386.2 3,276.5 3,175.1 | 39,546.5 46,060.2 51,077.2 55,814.5 36,616.6 41,848.0 46,076.1 50,118.5 17,211.3 18,686.8 20,578.9 22,411.4 9,550.9 10,686.6 12,096.3 12,821.3 6,113.5 6,469.6 6,871.4 7,713.7 1,137.2 957.4 1,258.0 1,337.3 409.7 573.2 353.2 539.1 1,987.3 2,803.2 3,901.9 3,768.3 1,979.1 2,798.0 3,898.9 3,760.1 8.2 5.2 2.9 8.2 2,125.3 2,048.5 2,132.8 2,141.7 432.5 469.5 495.9 516.6 931.6 889.1 967.1 969.1 413.3 418.8 416.4 414.8 343.6 266.5 248.0 233.3 na na 0.7 3.2 4.2 4.5 4.7 4.8 6,913.7 8,198.0 8,687.0 9,038.0 1,855.6 1,850.9 1,919.6 1,802.9 | 39,546.5 46,060.2 51,077.2 55,814.5 57,020.3 36,616.6 41,848.0 46,076.1 50,118.5 51,145.6 17,211.3 18,686.8 20,578.9 22,411.4 22,049.9 9,550.9 10,686.6 12,096.3 12,821.3 12,679.6 6,113.5 6,469.6 6,871.4 7,713.7 7,688.1 1,137.2 957.4 1,258.0 1,337.3 1,152.4 409.7 573.2 353.2 539.1 529.8 1,987.3 2,803.2 3,901.9 3,768.3 4,181.9 1,979.1 2,798.0 3,898.9 3,760.1 4,178.8 8.2 5.2 2.9 8.2 3.1 2,125.3 2,048.5 2,132.8 2,141.7 2,189.4 432.5 469.5 495.9 516.6 518.3 931.6 889.1 967.1 969.1 1,042.8 413.3 418.8 416.4 414.8 414.2 343.6 266.5 248.0 233.3 206.2 na na 0.7 3.2 2.8 4.2 4.5 4.7 4.8 5.1 6,913.7 8,198.0 8,687.0 9,038.0 9,512.7 1,855.6 1,850.9 1,919.6 1,802.9 1,654.6 1,727.0 2,278.7 2,373.4 2,304.8 2,378.8 2,386.2 3,276.5 3,175.1 4,309.5 3,929.9 | FY2009 FY2010 FY2011 FY2012 FY2013 FY2014 39,546.5 46,060.2 51,077.2 55,814.5 57,020.3 60,838.2 36,616.6 41,848.0 46,076.1 50,118.5 51,145.6 54,109.8 17,211.3 18,686.8 20,578.9 22,411.4 22,049.9 23,940.0 9,550.9 10,686.6 12,096.3 12,821.3 12,679.6 13,371.5 6,113.5 6,469.6 6,871.4 7,713.7 7,688.1 8,926.7 1,137.2 957.4 1,258.0 1,337.3 1,152.4 1,125.9 409.7 573.2 353.2 539.1 529.8 515.9 1,987.3 2,803.2 3,901.9 3,768.3 4,181.9 4,340.6 1,979.1 2,798.0 3,898.9 3,760.1 4,178.8 4,340.1 8.2 5.2 2.9 8.2 3.1 0.5 2,125.3 2,048.5 2,132.8 2,141.7 2,189.4 2,539.7 432.5 |

(continued on the next page)

Source : Accountant-General's Department

Notes: Data refer to the Government's financial year, which begins on 1 April of the current year and ends on 31 March of the following year. Figures may not add up due to rounding.

- 1 Refers to receipts credited to the Consolidated Revenue Account and Development Fund Account, but excludes the repayment of loans and advances, interest income, investment income and capital receipts.
- 2 With effect from April 2010, Withholding Tax, which was included in the figures reported under Personal Income Tax, has been reported separately. This item refers to collections under Section 45 of the Income Tax Act, which is a withholding tax on locally-sourced income earned by non-residents.
- 3 Refers to a tax on the total market value of a person's assets (cash and non-cash) at the date of his or her death. It has been removed for deaths occurring on and after 15 February 2008.
- 4 Comprises additional registration fees, road tax, special tax on heavy-oil engines, passenger vehicle seating fees and non-motor vehicle licences, but exclude excise duties on motor vehicles which are classified under Customs and Excise Duties.
- 5 Includes casino tax collected under Section 146 of the Casino Control Act with effect from March 2010.
- 6 Includes the foreign worker levy, annual tonnage tax, water conservation tax and development charge.

20.2 GOVERNMENT OPERATING REVENUE (continued)

Million Dollars

| FY2009 | FY2010 | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 |
|---------|-----------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.765.2 | 2.006.4 | 4 600 4 | F 270 0 | F 624.7 | C 404 F | 0.672.6 |
| • | -, | • | , | , | , | 8,673.6 5,424.8 |
| 2,141.8 | 2,384.3 | 2,587.2 | 2,707.7 | 2,903.0 | 3,010.4 | 3,248.8 |
| | | | | | | |
| 164.8 | 225.8 | 302.0 | 416.1 | 250.0 | 323.8 | 502.2 |
| | 2,765.2 623.3 2,141.8 | 2,765.2 3,986.4 623.3 1,602.1 2,141.8 2,384.3 | 2,765.2 3,986.4 4,699.1 623.3 1,602.1 2,112.0 2,141.8 2,384.3 2,587.2 | 2,765.2 3,986.4 4,699.1 5,279.8 623.3 1,602.1 2,112.0 2,572.1 2,141.8 2,384.3 2,587.2 2,707.7 | 2,765.2 3,986.4 4,699.1 5,279.8 5,624.7 623.3 1,602.1 2,112.0 2,572.1 2,721.7 2,141.8 2,384.3 2,587.2 2,707.7 2,903.0 | 2,765.2 3,986.4 4,699.1 5,279.8 5,624.7 6,404.5 623.3 1,602.1 2,112.0 2,572.1 2,721.7 3,394.1 2,141.8 2,384.3 2,587.2 2,707.7 2,903.0 3,010.4 |

Source: Accountant-General's Department

Notes: Data refer to the Government's financial year, which begins on 1 April of the current year and ends on 31 March of the following year. Figures may not add up due to rounding.

⁷ Includes revenue from licenses, permits, service fees, sales of goods, rental of premises, fines and forfeitures and reimbursements.

⁸ Excludes repayment of loans and advances, interest income, investment income and capital receipts.

20.3 GOVERNMENT OPERATING EXPENDITURE BY SECTOR

| NAil | lion | larc |
|------|------|------|
| | | |

| | | | | | | IVI | illion Dollars |
|---------------------------------------------|----------|----------|----------|----------|----------|----------|----------------|
| | FY2009 | FY2010 | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 |
| Total Operating Expenditure ¹ | 30,908.9 | 33,270.1 | 35,150.0 | 36,420.8 | 39,724.9 | 42,685.2 | 48,090.4 |
| Social Development | 14,714.2 | 16,458.9 | 18,056.3 | 18,495.6 | 20,943.2 | 22,611.8 | 26,258.2 |
| Education | 7,837.9 | 8,998.7 | 9,697.8 | 9,637.3 | 10,664.9 | 10,712.4 | 11,235.7 |
| National Development | 959.3 | 789.5 | 1,428.0 | 948.8 | 673.3 | 857.9 | 1,331.6 |
| Health | 2,920.2 | 3,258.0 | 3,488.8 | 4,066.1 | 5,043.9 | 5,872.4 | 7,519.8 |
| The Environment and Water Resources | 656.2 | 720.0 | 726.4 | 812.7 | 957.5 | 1,048.5 | 1,125.1 |
| Culture, Community and Youth ² | na | na | na | 364.5 | 1,003.0 | 1,335.0 | 1,794.6 |
| Social and Family Development ² | 1,564.7 | 1,828.7 | 1,721.5 | 1,739.3 | 1,598.3 | 1,722.4 | 2,121.0 |
| Communications and Information ² | 421.9 | 500.0 | 524.5 | 429.7 | 336.0 | 354.5 | 424.4 |
| Manpower (Financial Security) | 354.1 | 364.0 | 469.4 | 497.3 | 666.4 | 708.7 | 706.0 |
| Security and External Relations | 13,522.5 | 13,919.8 | 14,088.0 | 14,677.6 | 15,233.3 | 16,289.7 | 17,495.4 |
| Defence | 10,603.3 | 10,623.4 | 10,796.8 | 11,056.0 | 11,329.1 | 11,866.9 | 12,671.6 |
| Home Affairs | 2,576.7 | 2,936.8 | 2,947.4 | 3,266.3 | 3,521.9 | 4,029.1 | 4,377.1 |
| Foreign Affairs | 342.6 | 359.6 | 343.8 | 355.4 | 382.3 | 393.7 | 446.7 |
| Economic Development | 1,564.8 | 1,666.3 | 1,674.6 | 1,869.8 | 2,027.3 | 2,223.7 | 2,631.8 |
| Transport | 370.6 | 455.8 | 463.8 | 501.9 | 554.9 | 597.7 | 782.9 |
| Trade and Industry | 704.2 | 683.6 | 670.8 | 685.4 | 709.6 | 728.5 | 783.4 |
| Manpower (excluding Financial Security) | 413.8 | 439.1 | 379.9 | 455.9 | 495.9 | 519.8 | 611.1 |
| Info-Communications and Media | | | | | | | |
| Development ² | 76.2 | 87.7 | 160.1 | 226.6 | 267.0 | 377.7 | 454.4 |
| Government Administration | 1,107.4 | 1,225.1 | 1,331.1 | 1,377.8 | 1,521.1 | 1,560.0 | 1,704.6 |
| Finance | 528.0 | 552.4 | 616.9 | 630.8 | 711.4 | 681.8 | 739.6 |
| Law | 126.8 | 119.2 | 122.9 | 162.7 | 167.3 | 176.8 | 173.9 |
| Organs of State | 249.3 | 313.2 | 318.1 | 325.5 | 352.3 | 383.6 | 410.2 |
| Prime Minister's Office | 203.3 | 240.3 | 273.3 | 258.8 | 290.2 | 317.8 | 380.9 |

Source: Accountant-General's Department

Notes: Data refer to the Government's financial year, which begins on 1 April of the current year and ends on 31 March of the following year. Refinements have been made over time to the sectoral classification of Ministries' expenditure to better reflect the nature of the programmes. In FY2013, expenditure by the Ministry of Manpower under the Financial Security and Lifelong Employability programme (subsequently re-named as the Financial Security for Singaporeans programme) was reclassified from the Economic Development sector to the Social Development sector.

Figures may not add up due to rounding.

- 1 Refers to expenditure on manpower, other operating expenditure (excluding expenses on investment and agency fees on land sales), operating grants and transfers. Excludes Special Transfers and spending from Government Endowment and Trust Funds.
- 2 With effect from 1 November 2012, the Ministry of Community Development, Youth and Sports (MCYS) and the Ministry of Information, Communications and the Arts (MICA) were restructured to form three Ministries:

 (i) MCYS was renamed as the Ministry of Social and Family Development (MSF),
 (ii) MICA was renamed as the Ministry of Communications and Information (MCI) and
 (iii) the new Ministry of Culture, Community and Youth (MCCY) was formed to undertake functions transferred from MCYS and MICA.

20.4 GOVERNMENT DEVELOPMENT EXPENDITURE BY SECTOR

| | | | | | | Mi | Ilion Dollars |
|---------------------------------------------|----------|----------|----------|----------|----------|----------|---------------|
| | FY2009 | FY2010 | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 |
| Total Development Expenditure ¹ | 10,981.9 | 12,067.8 | 11,413.4 | 12,583.2 | 12,003.0 | 13,963.1 | 19,356.6 |
| Social Development | 3,431.4 | 3,643.2 | 3,603.2 | 3,381.8 | 3,236.3 | 4,595.1 | 5,033.9 |
| Education | 847.1 | 876.7 | 1,042.5 | 859.6 | 973.4 | 886.0 | 699.0 |
| National Development | 1,307.0 | 1,646.4 | 1,572.1 | 1,353.7 | 900.7 | 1,307.9 | 1,321.0 |
| Health | 710.5 | 484.8 | 453.1 | 605.4 | 722.9 | 1,146.8 | 1,413.1 |
| The Environment and Water Resources | 323.1 | 406.0 | 349.0 | 352.3 | 325.2 | 427.3 | 567.3 |
| Culture, Community and Youth ² | na | na | na | 95.3 | 212.5 | 617.1 | 778.6 |
| Social and Family Development ² | 115.3 | 120.4 | 63.6 | 36.8 | 40.7 | 61.8 | 110.6 |
| Communications and Information ² | 128.0 | 108.8 | 122.9 | 78.7 | 60.8 | 148.2 | 144.3 |
| Manpower (Financial Security) | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Security and External Relations | 861.0 | 717.8 | 717.8 | 719.7 | 860.3 | 906.5 | 956.0 |
| Defence | 440.0 | 437.7 | 479.4 | 467.7 | 422.4 | 428.6 | 430.9 |
| Home Affairs | 350.2 | 240.4 | 194.1 | 207.0 | 378.9 | 437.9 | 505.8 |
| Foreign Affairs | 70.7 | 39.7 | 44.3 | 45.0 | 59.1 | 40.0 | 19.3 |
| Economic Development | 6,476.8 | 7,490.2 | 6,895.6 | 7,955.0 | 7,546.6 | 7,923.0 | 12,909.1 |
| Transport | 4,082.0 | 4,249.7 | 4,002.9 | 5,413.7 | 5,503.8 | 5,488.6 | 10,332.4 |
| Trade and Industry | 2,334.1 | 2,673.1 | 2,552.7 | 2,387.2 | 1,946.6 | 2,101.8 | 2,398.0 |
| Manpower (excluding Financial Security) | 22.3 | 42.4 | 61.7 | 27.7 | 28.3 | 36.7 | 25.5 |
| Info-Communications and Media | | | | | | | |
| Development ² | 38.3 | 524.9 | 278.2 | 126.4 | 67.9 | 295.9 | 153.2 |
| Government Administration | 212.8 | 216.6 | 196.9 | 526.6 | 359.8 | 538.5 | 457.4 |
| Finance | 17.0 | 21.1 | 29.9 | 24.1 | 25.2 | 43.9 | 53.4 |
| Law | 166.4 | 148.0 | 130.5 | 316.4 | 273.2 | 434.4 | 318.8 |
| Organs of State | 17.5 | 13.8 | 16.6 | 163.1 | 21.5 | 22.6 | 47.5 |

Source: Accountant-General's Department

Prime Minister's Office

Notes: Data refer to the Government's financial year, which begins on 1 April of the current year and ends on 31 March of the following year. Refinements have been made over time to the sectoral classification of Ministries' expenditure to better reflect the nature of the programmes. In FY2013, expenditure by the Ministry of Manpower under the Financial Security and Lifelong Employability programme (subsequently re-named as the Financial Security for Singaporeans programme) was reclassified from the Economic Development sector to the Social Development sector.

Figures may not add up due to rounding.

33.8

23.0

19.9

40.0

37.6

37.7

1 Excludes land-related expenditure, Special Transfers, spending from Government Endowment and Trust Funds, and loans to statutory boards, industrial and commercial enterprises.

11.9

2 With effect from 1 November 2012, the Ministry of Community Development, Youth and Sports (MCYS) and the Ministry of Information, Communications and the Arts (MICA) were restructured to form three Ministries: (i) MCYS was renamed as the Ministry of Social and Family Development (MSF), (ii) MICA was renamed as the Ministry of Communications and Information (MCI) and (iii) the new Ministry of Culture, Community and Youth (MCCY) was formed to undertake functions transferred from MCYS and MICA.

20.5 GOVERNMENT DEBT BY INSTRUMENT (As at End of Calendar Year)

| | | | | | | Mi | llion Dollars |
|------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | | | | | |
| Total | 321,182.3 | 354,023.4 | 384,997.6 | 390,407.1 | 387,250.7 | 421,302.1 | 463,165.6 |
| Domestic Debt | 321,182.3 | 354,023.4 | 384,997.6 | 390,407.1 | 387,250.7 | 421,302.1 | 463,165.6 |
| Registered Stocks and Bonds | 253,841.3 | 279,635.0 | 304,946.0 | 333,943.8 | 362,741.4 | 396,598.8 | 438,900.9 |
| Treasury Bills | 57,100.0 | 59,100.0 | 60,000.0 | 38,800.0 | 8,000.0 | 8,500.0 | 9,000.0 |
| Advance Deposits | 10,241.0 | 15,288.4 | 20,051.6 | 17,663.3 | 16,509.3 | 16,203.3 | 15,264.7 |
| External Debt | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Memorandum item : Debt Guarantees ¹ | - | - | - | - | - | - | - |

Sources: Accountant-General's Department
Monetary Authority of Singapore

Notes: The debt is raised through the issuance of the Singapore Government Securities (SGS) Bonds, Treasury Bills, Singapore Saving: Bonds and Special Singapore Government Securities (SSGS).

SGS bonds and Treasury Bills are for purposes of developing Singapore's debt markets, SSGS are non-tradable bonds issued specifically to meet the investment needs of the Central Provident Fund (CPF) Board and SSB are issued to provide individual investors with a long-term savings option.

Under the Protection of Reserves Framework in the Singapore Constitution, borrowing proceeds are not revenues that the Government is allowed to spend. All borrowing proceeds from the issuance of securities are therefore invested.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=5284

20.6 GOVERNMENT DEBT BY MATURITY (As at End of Calendar Year)

| | | | | | | Mi | llion Dollars |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Domestic Debt (excluding Advance | | | | | | | |
| Deposits) | 310,941.3 | 338,735.0 | 364,946.0 | 372,743.8 | 370,741.4 | 405,098.8 | 447,900.9 |
| 1 year maturity or less | 80,915.5 | 84,615.5 | 83,815.5 | 68,894.0 | 32,554.0 | 38,854.0 | 36,212.0 |
| More than 1 year maturity | 230,025.8 | 254,119.5 | 281,130.5 | 303,849.8 | 338,187.4 | 366,244.8 | 411,688.9 |
| External Debt | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Source: Monetary Authority Singapore

Notes: The debt is raised through the issuance of the Singapore Government Securities (SGS) Bonds, Treasury Bills, Singapore Savings Bonds and Special Singapore Government Securities (SSGS).

SGS bonds and Treasury Bills are for purposes of developing Singapore's debt markets, SSGS are non-tradable bonds issued specifically to meet the investment needs of the Central Provident Fund (CPF) Board and SSB are issued to provide individual investors with a long-term savings option.

Under the Protection of Reserves Framework in the Singapore Constitution, borrowing proceeds are not revenues that the Government is allowed to spend. All borrowing proceeds from the issuance of securities are therefore invested.

¹ Refers to the market value of debt guarantees.

TAXABLE INDIVIDUALS BY ASSESSED INCOME GROUP,
YEAR OF ASSESSMENT 2015

| | Assessed Income Group (\$) | | | | | | | | | | | |
|-------------------------------|----------------------------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|--|--|--|
| | Unit | Total | 20,000 & below | 20,001- 25,000 | 25,001- 30,000 | 30,001- 40,000 | 40,001- 50,000 | 50,001- 60,000 | | | | |
| Taxpayers | No. | 1,682,369 | 21,279 | 71,622 | 145,140 | 308,174 | 238,972 | 177,563 | | | | |
| Tax resident | No. | 1,649,436 | 0 | 69,439 | 143,520 | 305,969 | 237,594 | 176,611 | | | | |
| Non-tax resident ¹ | No. | 32,933 | 21,279 | 2,183 | 1,620 | 2,205 | 1,378 | 952 | | | | |
| Assessable Income | \$m | 149,013 | 160 | 1,667 | 4,027 | 10,740 | 10,697 | 9,732 | | | | |
| Tax resident | \$m | 147,998 | 0 | 1,618 | 3,982 | 10,664 | 10,635 | 9,679 | | | | |
| Non-tax resident ¹ | \$m | 1,015 | 160 | 49 | 44 | 76 | 62 | 52 | | | | |
| Net Tax Assessed | \$m | 9,039 | 28 | 11 | 15 | 42 | 59 | 77 | | | | |
| Tax resident | \$m | 8,859 | 0 | 2 | 7 | 29 | 48 | 68 | | | | |
| Non-tax resident 1 | \$m | 180 | 28 | 9 | 8 | 14 | 11 | g | | | | |

| | | Assessed Income Group (\$) | | | | | | | | | | | |
|-------------------------------|------|----------------------------|--------------------|---------------------|---------------------|---------------------|-----------------------|----------------------|--|--|--|--|--|
| | Unit | 60,001- 80,000 | 80,001- 100,000 | 100,001- 150,000 | 150,001- 200,000 | 200,001- 300,000 | 300,001- 1,000,000 | 1,000,001 & above | | | | | |
| | | | | | | | | | | | | | |
| Taxpayers | No. | 218,244 | 129,102 | 169,546 | 76,425 | 64,969 | 56,165 | 5,168 | | | | | |
| Tax resident | No. | 217,092 | 128,424 | 168,720 | 76,144 | 64,754 | 56,028 | 5,141 | | | | | |
| Non-tax resident ¹ | No. | 1,152 | 678 | 826 | 281 | 215 | 137 | 27 | | | | | |
| Assessable Income | \$m | 15,067 | 11,525 | 20,624 | 13,152 | 15,715 | 25,984 | 9,925 | | | | | |
| Tax resident | \$m | 14,988 | 11,464 | 20,524 | 13,104 | 15,663 | 25,923 | 9,754 | | | | | |
| Non-tax resident ¹ | \$m | 79 | 60 | 100 | 48 | 52 | 61 | 171 | | | | | |
| Net Tax Assessed | \$m | 179 | 228 | 761 | 808 | 1,415 | 3,581 | 1,835 | | | | | |
| Tax resident | \$m | 165 | 218 | 744 | 800 | 1,406 | 3,571 | 1,802 | | | | | |
| Non-tax resident ¹ | \$m | 14 | 10 | 17 | 8 | 8 | 10 | 34 | | | | | |

Source : Inland Revenue Authority of Singapore

¹ Refers to an individual who has worked in Singapore for less than 183 days in the previous year (i.e. 2014 for Year of Assessment 2015).

20.8 TAXABLE COMPANIES BY CHARGEABLE INCOME GROUP,
YEAR OF ASSESSMENT 2015

| | Chargeable Income Group (\$) | | | | | | | | | | |
|-------------------------------|------------------------------|---------|-------------------|-------------------|-------------------|-------------------|--------------------|--|--|--|--|
| | Unit | Total | 10,000 & below | 10,001- 20,000 | 20,001- 30,000 | 30,001- 60,000 | 60,001- 100,000 | | | | |
| Companies | No. | 69,919 | 16,658 | 7,112 | 6,839 | 9,159 | 6,998 | | | | |
| Tax resident | No. | 67,901 | 16,327 | 6,858 | 6,613 | 8,804 | 6,813 | | | | |
| Non-tax resident ¹ | No. | 2,018 | 331 | 254 | 226 | 355 | 185 | | | | |
| Chargeable Income | \$m | 108,647 | 56 | 105 | 177 | 398 | 548 | | | | |
| Tax resident | \$m | 97,562 | 55 | 101 | 171 | 382 | 534 | | | | |
| Non-tax resident ¹ | \$m | 11,086 | 1 | 4 | 6 | 15 | 15 | | | | |
| Net Tax Assessed | \$m | 13,594 | 7 | 13 | 24 | 49 | 68 | | | | |
| Tax resident | \$m | 12,278 | 7 | 12 | 24 | 47 | 66 | | | | |
| Non-tax resident ¹ | \$m | 1,315 | 0 | 0 | 1 | 2 | 2 | | | | |

| | | Chargeable Income Group (\$) | | | | | | | | | |
|-------------------------------|------|------------------------------|---------------------|-----------------------|-------------------------|-------------------------|----------------------|--|--|--|--|
| | Unit | 100,001- 300,000 | 300,001- 500,000 | 500,001- 1,000,000 | 1,000,001- 3,000,000 | 3,000,001- 5,000,000 | 5,000,001 & above | | | | |
| | | | | | | | | | | | |
| Companies | No. | 9,840 | 3,058 | 3,565 | 3,520 | 970 | 2,200 | | | | |
| Tax resident | No. | 9,631 | 2,994 | 3,472 | 3,417 | 930 | 2,042 | | | | |
| Non-tax resident ¹ | No. | 209 | 64 | 93 | 103 | 40 | 158 | | | | |
| Chargeable Income | \$m | 1,653 | 1,194 | 2,491 | 6,100 | 3,761 | 92,164 | | | | |
| Tax resident | \$m | 1,619 | 1,170 | 2,425 | 5,919 | 3,607 | 81,579 | | | | |
| Non-tax resident ¹ | \$m | 33 | 25 | 66 | 182 | 154 | 10,584 | | | | |
| Net Tax Assessed | \$m | 205 | 144 | 320 | 910 | 585 | 11,269 | | | | |
| Tax resident | \$m | 201 | 141 | 311 | 883 | 561 | 10,026 | | | | |
| Non-tax resident ¹ | \$m | 4 | 3 | 9 | 27 | 24 | 1,243 | | | | |

Source : Inland Revenue Authority of Singapore

 $^{1\,\, \}text{Refers to a company where the control and management of its business is not exercised in Singapore.}$

20.9 TAXABLE COMPANIES BY ECONOMIC SECTOR, YEAR OF ASSESSMENT 2015

| | No. of Companies | Chargeable Income (\$m) | Net Tax Assessed (\$m) |
|------------------------------------------------|---------------------|----------------------------|---------------------------|
| otal | 69,919 | 108,647 | 13,594 |
| Manufacturing | 5,144 | 12,578 | 1,473 |
| Construction | 5,660 | 3,076 | 485 |
| Utilities ¹ | 187 | 771 | 129 |
| Other Goods Industries ² | 185 | 279 | 29 |
| Wholesale & Retail Trade | 19,261 | 25,093 | 2,850 |
| Accommodation & Food Service Activities | 2,232 | 1,358 | 220 |
| Transportation & Storage | 3,670 | 5,945 | 882 |
| Information & Communications | 3,244 | 3,652 | 549 |
| Financial & Insurance Activities | 8,128 | 31,091 | 3,726 |
| Real Estate & Business Activities ³ | 16,383 | 21,014 | 2,891 |
| Others ⁴ | 5,825 | 3,789 | 359 |

Source: Inland Revenue Authority of Singapore

Notes: The industries are classified according to the Singapore Standard Industrial Classification (SSIC) 2010.

¹ Includes Electricity, Gas & Air-Conditioning Supply, Water Supply, Sewerage, and Waste Management & Remediation Activities.

² Includes Agriculture & Fishing and Mining & Quarrying.

³ Includes Real Estate Activities, Professional, Scientific & Technical Activities, and Administrative & Support Service Activities.

⁴ Includes all other industries such as Education, Health & Social Services, Arts, Entertainment & Recreation, and Other Service Activities.

20.10 SOURCES AND USES OF DEVELOPMENT FUND

| | | | | | | Mi | llion Dollars |
|---------------------------|--------|--------|--------|---------|---------|---------|---------------|
| | FY2009 | FY2010 | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 |
| Balance (Beginning of | | | | | | | |
| Financial Year) | 93,488 | 89,015 | 98,712 | 103,567 | 104,202 | 100,736 | 00 400 |
| Tillaliciai Teal) | 93,466 | 89,013 | 36,712 | 103,307 | 104,202 | 100,730 | 98,498 |
| Sources | | | | | | | |
| Total | 16,464 | 26,608 | 20,461 | 17,364 | 14,825 | 18,162 | 25,040 |
| Consolidated Revenue | | | | | | | |
| Account | 7,916 | 16,441 | 12,200 | 8,685 | 5,579 | 7,200 | 14,000 |
| Consolidated Loan Account | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Others | 8,548 | 10,167 | 8,261 | 8,679 | 9,247 | 10,962 | 11,040 |
| Uses | | | | | | | |
| Total | 20,937 | 16,910 | 15,606 | 16,730 | 18,291 | 20,399 | 28,884 |
| Government Development | | | | | | | |
| Expenditure | 14,053 | 13,710 | 12,929 | 13,855 | 13,222 | 15,331 | 20,759 |
| Loans to Statutory Boards | | | | | | | |
| & Enterprises | 6,884 | 3,200 | 2,677 | 2,875 | 5,069 | 5,068 | 8,125 |
| Others | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | |

Source Accountant-General's Department

Notes: Data refer to the Government's financial year, which begins on 1 April of the current year and ends on 31 March of the following year.

Figures may not add up due to rounding.

20.11 GENERAL GOVERNMENT FINANCE

Million Dollars

| | | | IVIIIII | | | | |
|--------------------------------------------------------|--------|---------|---------|---------|---------|--------|--------|
| | FY2009 | FY2010 | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 |
| Cash surplus/deficit ¹ | 4,421 | 24,407 | 31,889 | 31,185 | 31,006 | 28,460 | 17,778 |
| Net cash inflow from operating | | | | | | | |
| activities | 7,767 | 14,277 | 14,927 | 18,781 | 18,721 | 19,556 | 8,772 |
| Cash receipts from operating | | | | | | | |
| activities | 48,161 | 54,864 | 59,806 | 64,449 | 66,350 | 71,894 | 76,208 |
| Cash payments for operating | | | | | | | |
| activities | 40,394 | 40,587 | 44,879 | 45,668 | 47,629 | 52,338 | 67,436 |
| Net cash outflow from investments | | | | | | | |
| in non-financial assets | 3,346 | -10,130 | -16,962 | -12,404 | -12,285 | -8,904 | -9,006 |
| Purchases of non-financial assets | 7,380 | 6,172 | 5,904 | 6,032 | 5,265 | 6,022 | 6,536 |
| Sales of non-financial assets | 4,034 | 16,302 | 22,866 | 18,436 | 17,550 | 14,926 | 15,542 |
| Net cash inflow from financing activities ² | 34,810 | 35,171 | 39,364 | 32,448 | -15,314 | 15,454 | 37,567 |
| Net incurrence of liabilities | 36,283 | 31,331 | 36,461 | 29,457 | -14,899 | 14,652 | 40,115 |
| Domestic | 36,283 | 31,331 | 36,461 | 29,457 | -14,899 | 14,652 | 40,115 |
| Foreign | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Net acquisition of financial assets other | | | | | | | |
| than cash | 1,473 | -3,840 | -2,903 | -2,991 | 415 | -802 | 2,548 |
| Domestic excluding cash | 1,473 | -3,840 | -2,903 | -2,991 | 415 | -802 | 2,548 |
| Foreign excluding cash | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Source: Accountant-General's Department

Notes: Data refer to the Government's financial year, which begins on 1 April of the current year and ends on 31 March of the following year.

Presentation format of the table follows that of the National Summary Data Page for Singapore, which disseminates the data prescribed by the International Monetary Fund's Special Data Dissemination Standards. Data in the table represent a broader definition of Government revenues and receipts than what are permissible for Government spending as presented in each year's Budget Statement. This is because some revenues and receipts accrue to the Government's past reserves, which cannot be drawn on without the approval of the President.

The data prior to FY2015 follow the IMF Government Financial Statistics Manual (GFSM), i.e., GFSM 2001.

Data from FY 2015 follow the latest IMF Government Financial Statistics Manual (GFSM), GFSM 2014, which is an update from the previous GFSM 2001. Details on the differences in the reporting format for GFSM 2014 and GFSM 2001 can be found in IMF's website http://www.imf.org/external/pubs/ft/gfs/manual/aboutgfs.htm.

 $General\ government\ finance\ includes\ budgetary\ and\ extra-budgetary\ accounts.$

Figures may not add up due to rounding.

- 1 Does not reflect the fiscal position of the current term of government, as it takes into account land sales and capital receipts (which accrue primarily to past reserves) in addition to taxes and other revenues, as well as land-related expenditure.
- 2 Data reflect the net issuance of Government securities and lending minus repayments.

20.12 GOVERNMENT FINANCE

| | | - | |
|------|-------|-----|------|
| IVII | llion | DOI | lars |

| | INITIAL | | | | | illori Dollars | |
|--------------------------------------------------------|---------|---------|---------|---------|---------|----------------|--------|
| | FY2009 | FY2010 | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 |
| Cash surplus/deficit ¹ | -442 | 19,621 | 27,366 | 25,321 | 25,262 | 22,358 | 11,006 |
| Net cash inflow from operating | | | | | | | |
| activities | 2,904 | 9,491 | 10,404 | 12,917 | 12,977 | 13,454 | 2,000 |
| Cash receipts from operating | | | | | | | |
| activities | 46,741 | 53,451 | 58,454 | 62,932 | 64,750 | 69,973 | 74,244 |
| Cash payments for operating | | | | | | | |
| activities | 43,837 | 43,959 | 48,050 | 50,015 | 51,773 | 56,519 | 72,244 |
| Net cash outflow from investments | | | | | | | |
| in non-financial assets | 3,346 | -10,130 | -16,962 | -12,404 | -12,285 | -8,904 | -9,006 |
| Purchases of non-financial assets | 7,380 | 6,172 | 5,904 | 6,032 | 5,265 | 6,022 | 6,536 |
| Sales of non-financial assets | 4,034 | 16,302 | 22,866 | 18,436 | 17,550 | 14,926 | 15,542 |
| Net cash inflow from financing activities ² | 34,810 | 35,171 | 39,364 | 32,447 | -15,314 | 15,454 | 37,567 |
| Net incurrence of liabilities | 36,283 | 31,331 | 36,461 | 29,457 | -14,899 | 14,652 | 40,115 |
| Domestic | 36,283 | 31,331 | 36,461 | 29,457 | -14,899 | 14,652 | 40,115 |
| Foreign | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Net acquisition of financial assets | | | | | | | |
| other than cash | 1,473 | -3,840 | -2,903 | -2,991 | 415 | -802 | 2,548 |
| Domestic excluding cash | 1,473 | -3,840 | -2,903 | -2,991 | 415 | -802 | 2,548 |
| Foreign excluding cash | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Source: Accountant-General's Department

Notes: Data refer to the Government's financial year, which begins on 1 April of the current year and ends on 31 March of the following year.

Presentation format of the table follows that of the National Summary Data Page for Singapore, which disseminates the data prescribed by the International Monetary Fund's Special Data Dissemination Standards. Data in the table represent a broader definition of Government revenues and receipts than what are permissible for Government spending as presented in each year's Budget Statement. This is because some revenues and receipts accrue to the Government's past reserves, which cannot be drawn on without the approval of the President.

Data prior to April 2015 follow the IMF Government Financial Statistics Manual (GFSM), i.e., GFSM 2001.

Data from April 2015 follow the latest IMF Government Financial Statistics Manual (GFSM), GFSM 2014, which is an update from the previous GFSM 2001. Details on the reporting format for GFSM 2014 and GFSM 2001 can be found in IMF's website http://www.imf.org/external/pubs/ft/gfs/manual/aboutgfs.htm.

Figures may not add up due to rounding.

¹ Does not reflect the fiscal position of the current term of government, as it takes into account land sales and capital receipts (which accrue primarily to past reserves) in addition to taxes and other revenues, as well as land-related expenditure.

² Data reflect the net issuance of Government securities and lending minus repayments.

21

Prices



21 Prices



Consumer Price Index



The Consumer Price Index (CPI) measures the average price changes in a fixed basket of consumption goods and services commonly purchased by households over time. The weighting pattern for the 2014-based CPI was derived from the expenditure values collected in the Household Expenditure Survey (HES) conducted from October 2012 to September 2013. These expenditure values were updated to 2014 values by taking into account price changes between 2012/13 and 2014.

The CPI is compiled on a monthly basis. The annual CPI is derived by taking a simple average of the 12 months' indices for the year. The annual inflation rate for a specific year is computed by comparing the average for the 12 monthly indices with that for the preceding year.

Details on the compilation of the 2014-based CPI can be obtained from the Information Paper "Rebasing of The Consumer Price Index (Base Year 2014 = 100)", published by the Singapore Department of Statistics (DOS).

Average Retail Prices of Consumer Items



Retail prices of selected goods and services are collected regularly from a wide range of retailers and service providers commonly patronised by households.

The average annual retail price refers to the simple average of the 12 monthly retail prices for the year.

Average retail prices of consumer items starting from January 2014 are based on the 2014-based CPI basket. These prices may not be strictly comparable with those published based on earlier CPI baskets due to changes in the sample of brands, varieties and outlets priced.

Singapore Manufactured Products & Domestic Supply Price Indices



The Singapore Manufactured Products Price Index measures the changes in the prices of goods manufactured by local manufacturers. The Domestic Supply Price Index monitors the price changes of commodities, either locally manufactured or imported from abroad, which are retained for use in the domestic economy. The 2012-based series is compiled using the 'modified Laspeyres' formula, where the weight reference period is 2011 and the price reference period is 2012.

The weights for Singapore manufactured products are derived from production data collected in the 2011 Census of Industrial Production. The weights for the Domestic Supply Price Index are made proportionate to the combined value of retained imports and locally manufactured goods sold in the domestic market. Ex-factory prices are collected from selected local manufacturers every month.

Indices at the commodity division and commodity section levels can be found on the SingStat Website via the following selections: Economy \rightarrow Prices \rightarrow Producer Price Indices. Analyses of price changes are published in the monthly reports on Singapore Manufactured Products & Domestic Supply Price Indices.



The Import & Export Price Indices track the price movements of imported and exported goods. Prices for imported products are valued at 'CIF' (Cost, Insurance and Freight) and prices for exported products are valued at 'FOB' (Free On Board). The 2012-based series is compiled using the Laspeyres formula, where the price and weight reference periods are aligned to the reference period of 2012.



The weights for the imported and exported products are derived from the import and export statistics in 2012. Monthly prices are collected from selected importers and exporters.

Indices at the commodity division and commodity section levels can be found on the SingStat Website via the following selections: Economy → Prices → International Trade Price Indices. Analyses of price changes are available in the monthly report on Import & **Export Price Indices.**

Construction Material Market Prices



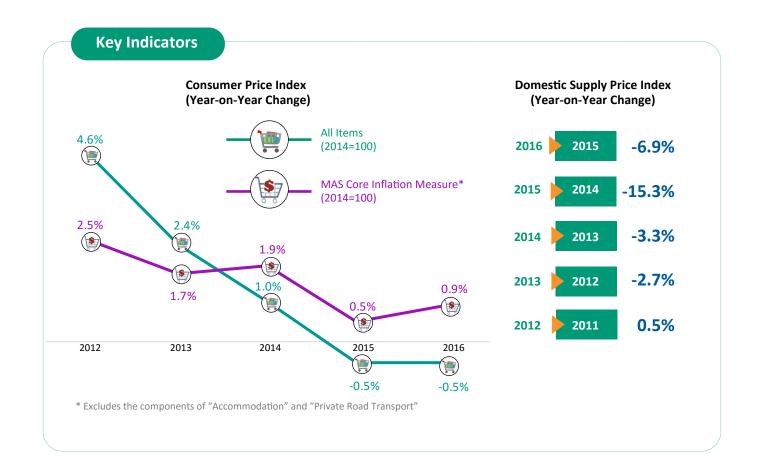
The Building and Construction Authority (BCA) compiles data on construction material

market prices. Construction material market prices are computed based on the average market prices of construction materials for the respective years.

Other Price Indices



The Housing and Development Board (HDB) compiles the Price Index of HDB Resale Flats, while the Urban Redevelopment Authority (URA) compiles the Private Residential Property Price Index and Commercial Property Price and Rental Indices. The Industrial Property Price Index, previously released by URA, is compiled by the JTC Corporation with effect from the fourth guarter of 2013.



21.1 CONSUMER PRICE INDEX (2014 = 100)

| Division and Group | Weights 1 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | | |
|------------------------------------------------------------------|--------------------------------------|-------|-------|------------|------------|-------|-------|-------|--|--|--|
| | | | | Consumer P | rice Index | | | | | | |
| All Items | 10,000 | 87.8 | 92.5 | 96.7 | 99.0 | 100.0 | 99.5 | 98.9 | | | |
| Food | 2,167 | 90.2 | 93.0 | 95.1 | 97.1 | 100.0 | 101.9 | 104.0 | | | |
| Clothing & Footwear | 273 | 98.9 | 99.0 | 100.5 | 100.8 | 100.0 | 100.1 | 100.3 | | | |
| Housing & Utilities | 2,625 | 82.2 | 89.6 | 97.1 | 99.9 | 100.0 | 96.5 | 92.5 | | | |
| Household Durables & Services | 475 | 85.9 | 91.4 | 93.6 | 98.2 | 100.0 | 99.4 | 101.2 | | | |
| Health Care | 615 | 87.7 | 89.8 | 93.7 | 97.3 | 100.0 | 99.9 | 101.0 | | | |
| Transport | 1,579 | 82.6 | 92.4 | 99.0 | 101.2 | 100.0 | 98.6 | 96.2 | | | |
| Communication | 385 | 103.2 | 101.7 | 101.6 | 100.2 | 100.0 | 100.3 | 99.9 | | | |
| Recreation & Culture | 788 | 97.6 | 96.2 | 97.1 | 98.2 | 100.0 | 100.3 | 101.2 | | | |
| Education | 615 | 86.4 | 89.5 | 93.1 | 96.7 | 100.0 | 103.4 | 106.6 | | | |
| Miscellaneous Goods & Services All Items less Imputed Rentals on | 478 | 95.0 | 95.9 | 96.9 | 98.7 | 99.9 | 99.9 | 100.1 | | | |
| Owner-Occupied Accommodation ² | 8,101 | 89.8 | 93.6 | 97.0 | 98.8 | 100.0 | 100.1 | 100.3 | | | |
| All Items less Accommodation | 7,713 | 89.9 | 93.7 | 96.9 | 98.8 | 100.0 | 100.1 | 100.4 | | | |
| MAS Core Inflation Measure ³ | 6,564 | 92.0 | 94.0 | 96.4 | 98.1 | 100.0 | 100.5 | 101.4 | | | |
| | Percentage Change Over Previous Year | | | | | | | | | | |
| All Items | 10,000 | 2.8 | 5.2 | 4.6 | 2.4 | 1.0 | -0.5 | -0.5 | | | |
| Food | 2,167 | 1.4 | 3.0 | 2.3 | 2.1 | 2.9 | 1.9 | 2.1 | | | |
| Clothing & Footwear | 273 | 0.5 | 0.1 | 1.5 | 0.3 | -0.8 | 0.1 | 0.2 | | | |
| Housing & Utilities | 2,625 | 2.2 | 9.0 | 8.4 | 2.8 | 0.1 | -3.5 | -4.1 | | | |
| Household Durables & Services | 475 | 1.0 | 6.4 | 2.4 | 4.9 | 1.8 | -0.6 | 1.8 | | | |
| Health Care | 615 | 1.8 | 2.4 | 4.4 | 3.8 | 2.8 | -0.1 | 1.1 | | | |
| Transport | 1,579 | 10.3 | 11.9 | 7.1 | 2.3 | -1.2 | -1.4 | -2.4 | | | |
| Communication | 385 | -2.2 | -1.5 | -0.1 | -1.4 | -0.2 | 0.3 | -0.4 | | | |
| Recreation & Culture | 788 | 1.0 | -1.4 | 1.0 | 1.1 | 1.8 | 0.3 | 0.9 | | | |
| Education | 615 | 3.4 | 3.6 | 4.1 | 3.8 | 3.4 | 3.4 | 3.1 | | | |
| Miscellaneous Goods & Services | 478 | 0.7 | 0.9 | 1.1 | 1.9 | 1.2 | 0.0 | 0.3 | | | |
| All Items less Imputed Rentals on | | | | | | | | | | | |
| Owner-Occupied Accommodation ² | 8,101 | 3.3 | 4.2 | 3.6 | 1.9 | 1.2 | 0.1 | 0.3 | | | |
| All Items less Accommodation | 7,713 | 3.3 | 4.2 | 3.5 | 1.9 | 1.2 | 0.1 | 0.3 | | | |
| MAS Core Inflation Measure ³ | 6,564 | 1.5 | 2.2 | 2.5 | 1.7 | 1.9 | 0.5 | 0.9 | | | |

¹ The weighting pattern of the Consumer Price Index (CPI) was derived from the expenditure values collected from the 2012/13 Household Expenditure Survey (HES) and updated to 2014 values by taking into account price changes between 2012/13 and 2014.

Download times series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=6763 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=6766

² A significant share of the CPI Accommodation group is "owner-occupied accommodation (OOA) cost", which is computed based on the imputed rental concept under the rental equivalence method. Besides the imputed rentals on OOA, actual rentals paid on rented units are included separately under the CPI Accommodation group. Given that imputed rentals on OOA have no impact on the cash expenditure of most households in Singapore as they already own their homes, "All Items less imputed rentals on OOA" is compiled as an additional indicator.

³ MAS Core Inflation Measure excludes the components of "Accommodation" and "Private Road Transport".

21.2 CONSUMER PRICE INDEX FOR HOUSEHOLDS IN DIFFERENT INCOME GROUPS
(2014 = 100)

| Income (| Group | All Items | Food | Clothing & Footwear | Housing & Utilities | House- hold Durables & Services | Health Care | Transport | Comm- unication | Recrea- tion & Culture | Education | Miscella- neous Goods & Services | All Items less Imputed Rentals on Owner- Occupied Accommod ation ² |
|-----------|-------|-----------|-------|---------------------|------------------------|------------------------------------------|----------------------|-------------|--------------------|------------------------------|-----------|-------------------------------------------|-------------------------------------------------------------------------------|
| | _ | | | | | | Weights ¹ | Per 10,000 | | | | | |
| Lowest 2 | 20% | 10,000 | 2,435 | 157 | 4,002 | 359 | 812 | 732 | 397 | 466 | 261 | 379 | 7,076 |
| Middle 6 | | 10,000 | 2,360 | 283 | 2,615 | 432 | 623 | 1,404 | 453 | 737 | 602 | 491 | 8,104 |
| Highest 2 | | 10,000 | 1,835 | 280 | 2,396 | | 562 | 1,984 | 288 | 920 | 700 | 480 | 8,263 |
| | - | | | | | | Consumer | Price Index | | | | | |
| 2014 | | | | | | | | | | | | | |
| Lowest | 20% | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 100.0 |
| Middle | 60% | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 100.0 |
| Highest | 20% | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 100.0 |
| 2015 | | | | | | | | | | | | | |
| Lowest | 20% | 98.9 | 101.6 | 100.3 | 96.7 | 99.3 | 96.8 | 100.7 | 100.1 | 100.5 | 101.6 | 100.2 | 99.6 |
| Middle | 60% | 99.7 | 101.9 | 100.2 | 96.5 | 99.4 | 99.7 | 99.7 | 100.3 | 100.4 | 103.2 | 100.0 | 100.3 |
| Highest | 20% | 99.3 | 102.1 | 99.9 | 96.4 | 99.3 | 101.5 | 97.3 | 100.5 | 100.2 | 103.7 | 99.5 | 99.8 |
| 2016 | | | | | | | | | | | | | |
| Lowest | 20% | 97.8 | 103.6 | 100.7 | 92.7 | 101.0 | 96.2 | 99.3 | 99.7 | 102.0 | 104.0 | 100.4 | 99.8 |
| Middle | 60% | 99.2 | 103.9 | 100.4 | 92.4 | 101.1 | 100.7 | 97.7 | 99.9 | 101.2 | 106.3 | 100.2 | 100.6 |
| Highest | 20% | 98.8 | 104.3 | 100.2 | 92.7 | 101.2 | 103.0 | 94.5 | 100.2 | 101.1 | 106.9 | 99.9 | 100.0 |
| | | | | | | Percent | tage Change | Over Previo | us Year | | | | |
| 2014 | | | | | | | | | | | | | |
| Lowest | | 1.5 | 3.0 | -1.1 | 0.6 | 1.3 | 2.9 | 0.7 | -0.3 | 1.9 | 2.7 | 2.6 | 1.8 |
| Middle | 60% | 1.2 | 3.0 | -0.9 | 0.4 | 1.5 | 2.7 | -1.1 | -0.2 | 1.9 | 3.4 | 1.4 | 1.3 |
| Highest | 20% | 0.7 | 2.8 | -0.7 | -0.5 | 2.1 | 2.7 | -1.5 | -0.1 | 1.5 | 3.5 | 0.6 | 1.0 |
| 2015 | | | | | | | | | | | | | |
| Lowest | 20% | -1.1 | 1.6 | 0.3 | -3.3 | -0.7 | -3.1 | 0.7 | 0.1 | 0.5 | 1.6 | 0.2 | -0.4 |
| Middle | 60% | -0.3 | 1.9 | 0.2 | -3.5 | -0.6 | -0.3 | -0.3 | 0.3 | 0.4 | 3.2 | 0.1 | 0.3 |
| Highest | 20% | -0.7 | 2.1 | -0.1 | -3.6 | -0.6 | 1.5 | -2.6 | 0.5 | 0.2 | 3.7 | -0.4 | -0.1 |
| 2016 | | | | | | | | | | | | | |
| Lowest | | -1.1 | 2.0 | 0.3 | -4.1 | 1.7 | -0.7 | -1.3 | -0.5 | 1.5 | 2.4 | 0.2 | 0.2 |
| Middle | 60% | -0.5 | 2.0 | 0.2 | -4.2 | 1.7 | 1.0 | -2.0 | -0.4 | 0.9 | 3.0 | 0.2 | 0.4 |
| Highest | 20% | -0.5 | 2.1 | 0.3 | -3.8 | 1.9 | 1.5 | -2.9 | -0.3 | 0.9 | 3.1 | 0.4 | 0.1 |

¹ The weighting pattern of the Consumer Price Index (CPI) was derived from the expenditure values collected from the 2012/13 Household Expenditure Survey (HES) and updated to 2014 values by taking into account price changes between 2012/13 and 2014.

Download times series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=6771 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=6760

² A significant share of the CPI Accommodation group is "Owner-Occupied Accommodation (OOA) cost", which is computed based on the imputed rental concept under the rental equivalence method. Besides the imputed rentals on OOA, actual rentals paid on rented units are included separately under the CPI Accommodation group. Given that imputed rentals on OOA have no impact on the cash expenditure of most households in Singapore as they already own their homes, "All Items less Imputed Rentals on OOA" is compiled as an additional indicator.

21.3 PRICE INDICES OF SELECTED CONSUMER ITEMS (2014 = 100)

| ltem | Weights ¹ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|---------------------------------------------------------------------------|----------------------|------|------|------|-------|-------|-------|-------|
| Health Care | | | | | | | | |
| Medical & Dental Treatment | 475 | 86.5 | 88.5 | 92.8 | 96.8 | 100.0 | 99.6 | 101.0 |
| Consultation Fees at Polyclinics & General Practitioners | 57 | 90.2 | 91.7 | 96.6 | 99.6 | 100.0 | 87.7 | 89.5 |
| Transport | | | | | | | | |
| Petrol | 250 | 84.3 | 94.0 | 97.0 | 99.4 | 100.0 | 95.3 | 91.5 |
| Overall Bus & Train Fares | 174 | 96.5 | 97.0 | 97.8 | 97.8 | 100.0 | 102.7 | 101.7 |
| Taxi Fares | 105 | 88.3 | 89.0 | 99.1 | 99.2 | 100.0 | 100.3 | 100.7 |
| Education | | | | | | | | |
| Miscellaneous Fees for Primary Schools | 25 | 82.8 | 82.8 | 82.8 | 99.7 | 100.0 | 100.0 | 100.0 |
| School & Miscellaneous Fees for Secondary Schools & Junior Colleges | 40 | 82.2 | 84.3 | 86.7 | 101.6 | 100.0 | 100.1 | 101.3 |
| Tuition Fees for Polytechnics & Local Universities | 107 | 86.4 | 90.2 | 93.6 | 97.0 | 100.0 | 102.7 | 105.6 |

¹ The weighting pattern of the Consumer Price Index (CPI) was derived from the expenditure values collected from the 2012/13 Household Expenditure Survey (HES) and updated to 2014 values by taking into account price changes between 2012/13 and 2014.

21.4 **AVERAGE RETAIL PRICES OF SELECTED CONSUMER ITEMS**

Dollars Unit 2010 2011 2012 2013 2014 2015 2016 Item **Bread & Cereals** Thai Rice 100% Fragrant Per 5 kg pkts 12.43 12.45 12.67 12.78 13.07 13.07 13.13 Ordinary White Bread Per 400 g 1.40 1.45 1.46 1.49 1.57 1.60 1.62 Vitamin Enriched Bread Per 400 g 1.63 1.60 1.60 1.68 1.88 1.88 1.88 Wholemeal Bread Per 420 g 2.14 2.14 2.14 na na na na **Instant Noodles** Per 5 pkts 2.16 2.23 2.23 2.23 2.21 2.19 2.26 Meat Chilled Lean Pork Per kg 12.66 12.75 13.07 13.14 13.21 13.32 13.81 Chilled Streaky Pork Per kg 13.62 13.91 14.40 14.67 14.88 15.04 15.76 Chilled Pork Rib Bones Per kg 15.84 16.13 16.48 16.40 16.44 16.72 17.20 Chilled Reef Per kg 20.25 21.23 21.96 21.43 21.64 22.15 22.93 Chilled Mutton 18.15 Per kg 15.12 17.60 17.79 17.89 17.79 18.27 Hen Per kg 5.54 5.82 5.87 5.96 6.14 6.11 6.35 Chilled Chicken Wing Per kg na na na na 7.87 7.89 8.04 Duck Per kg 6.59 6.78 6.75 6.87 6.83 6.95 7.09 Fish & Seafood Cod Fish Per kg 39.79 46.30 48.85 49.58 48.60 51.61 59.51 Gold Banded Scad (Kuning) 6.57 6.57 6.77 6.96 Per kg 5.71 6.11 6.98 Flowery Grouper Per kg 13.09 14.28 14.62 14.63 13.79 13.88 14.44 White Pomfret 24.28 24.76 24.70 25.02 26.29 Per kg 21.85 27.66 Salmon Per kg 25.10 26.17 25.41 26.23 27.42 27.26 28.87 Sea Bass Per kg 10.67 12.15 12.46 12.29 12.35 11.97 12.45 Sea Bream (Kerisi) 8.60 Per kg 7.22 7.56 8.27 8.43 8.61 8.81 Golden Snapper 15.43 16.74 16.77 17.71 18.04 18.78 18.66 Per kg Spanish Mackerel (Tenggiri) 10.15 10.97 11.07 11.36 11.61 11.57 Per kg 10.44 Kurau (Cut) Per kg 42.77 44.36 44.80 48.53 51.18 52.93 56.95 Per kg **Small Prawns** 10.02 10.47 11.17 11.69 12.92 13.19 13.39 Medium Prawns Per kg 15.98 16.91 17.23 17.88 18.69 18.65 18.80 Large Prawns Per kg 21.95 24.01 23.53 24.71 24.78 24.71 24.50 Squids 9.81 11.15 11.97 12.72 13.30 Per kg 11.32 14.51 Fish Balls Per 10 1.79 1.88 1.91 1.90 1.92 1.97 2.05 Milk, Cheese & Eggs Fresh Milk Per 1 litre pkts 2.76 2.85 2.88 2.93 2.87 2.84 2.81 Infant Milk Powder Per 900 g tin 35.44 38.81 40.28 44.30 51.01 53.69 56.06 Cheese Per pkt of 12 slices 4.76 5.06 5.07 4.74 4.77 4.85 4.56 Hen Eggs Per 10 1.85 1.98 1.88 1.94 2.14 2.22 2.17

Notes: Prices of items starting from January 2014 are based on the 2014-based CPI basket. Prices may not be strictly comparable with those published based on the earlier CPI baskets due to changes in the sample of brands/varieties and outlets priced.

21.4 AVERAGE RETAIL PRICES OF SELECTED CONSUMER ITEMS (continued)

| | | | | | | | | Dollars |
|-------------------------------|----------------------|-------|-------|-------|-------|-------|-------|---------|
| ltem | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Oil & Fats | | | | | | | | |
| Cooking Oil | Per 2 kg bottle | 5.52 | 6.04 | 5.99 | 5.67 | 6.50 | 6.31 | 6.00 |
| Fruits | | | | | | | | |
| Bananas (Emas) | Per kg | 1.51 | 1.56 | 1.65 | 1.81 | 2.12 | 2.18 | 2.31 |
| Papaya | Per kg | 1.55 | 1.68 | 1.79 | 1.92 | 2.15 | 1.96 | 1.97 |
| Watermelon | Per kg | 1.16 | 1.31 | 1.34 | 1.46 | 1.65 | 1.61 | 1.52 |
| Orange | Each | 0.34 | 0.34 | 0.34 | 0.36 | 0.35 | 0.39 | 0.43 |
| Apple | Each | 0.37 | 0.38 | 0.40 | 0.42 | 0.45 | 0.45 | 0.43 |
| Grapes | Per kg | 7.68 | 7.66 | 7.88 | 8.43 | 8.92 | 9.25 | 9.26 |
| Pear | Each | 0.88 | 0.92 | 0.93 | 0.95 | 0.97 | 0.94 | 0.99 |
| Vegetables | | | | | | | | |
| Broccoli | Per kg | 6.83 | 6.80 | 7.54 | 7.38 | 6.06 | 5.90 | 6.31 |
| Cabbage | Per kg | 1.73 | 1.81 | 1.91 | 1.94 | 2.01 | 2.09 | 2.26 |
| Kale | Per kg | 4.02 | 4.11 | 4.13 | 4.31 | 5.14 | 5.17 | 5.89 |
| Small Mustard | Per kg | 2.81 | 3.16 | 2.97 | 3.04 | 3.20 | 3.18 | 3.32 |
| Spinach (Bayam) | Per kg | 2.64 | 2.83 | 2.79 | 2.81 | 2.79 | 2.78 | 2.81 |
| Tomatoes | Per kg | 2.03 | 1.96 | 2.00 | 2.20 | 2.33 | 2.37 | 2.25 |
| Potatoes | Per kg | 1.59 | 1.79 | 1.71 | 1.78 | 1.95 | 1.98 | 2.07 |
| Carrots | Per kg | 1.90 | 1.95 | 1.96 | 1.98 | 2.04 | 2.07 | 2.13 |
| Sugar, Preserves & Confection | nery | | | | | | | |
| Sugar | Per 2 kg pkt | 3.16 | 3.37 | 3.34 | 3.28 | 3.19 | 3.13 | 3.09 |
| Non-Alcoholic Beverages | | | | | | | | |
| Instant Coffee | Per 200 g bottle | 9.33 | 9.79 | 10.07 | 9.96 | 9.94 | 10.11 | 10.27 |
| Aerated Soft Drinks | Per 330 ml can | 0.62 | 0.65 | 0.67 | 0.68 | 0.68 | 0.69 | 0.69 |
| Non-Aerated, | | | | | | | | |
| Soft Drinks | Per 6 pkts of 250 ml | 2.32 | 2.36 | 2.38 | 2.42 | 2.49 | 2.46 | 2.40 |
| Alcoholic Drinks & Tobacco | | | | | | | | |
| Beer | Per 330 ml can | 3.10 | 3.09 | 3.10 | 3.10 | 3.22 | 3.30 | 3.26 |
| Cigarettes | Per 20-stick pack | 10.66 | 10.73 | 10.80 | 10.86 | 11.82 | 11.99 | 12.04 |
| Petroleum Related Products | | | | | | | | |
| Diesel | Per litre | 1.22 | 1.46 | 1.50 | 1.51 | 1.50 | 1.17 | 1.04 |
| Petrol, 98 Octane | Per litre | 1.84 | 2.04 | 2.13 | 2.20 | 2.22 | 2.19 | 2.17 |
| Petrol, 95 Octane | Per litre | 1.75 | 1.96 | 2.00 | 2.05 | 2.05 | 1.92 | 1.82 |
| Petrol, 92 Octane | Per litre | 1.69 | 1.90 | 1.95 | 1.99 | 2.00 | 1.87 | 1.77 |
| Liquefied Petroleum Gas | Per kg | 2.87 | 3.09 | 3.15 | 3.20 | 3.34 | 3.04 | 3.08 |
| | | | | | | | | |

Notes: Prices of items starting from January 2014 are based on the 2014-based CPI basket. Prices may not be strictly comparable with those published based on the earlier CPI baskets due to changes in the sample of brands/varieties and outlets priced.

21.5 DOMESTIC SUPPLY PRICE INDEX (2012 = 100)

| _ | | | | | | | | |
|-----------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| ltem | Weights ¹ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| All Items | 10,000 | 91.8 | 99.5 | 100.0 | 97.3 | 94.1 | 79.7 | 74.1 |
| Non-Oil Items | 6,300 | 101.2 | 100.7 | 100.0 | 98.2 | 97.2 | 95.9 | 92.6 |
| Non-on items | 0,300 | 101.2 | 100.7 | 100.0 | 90.2 | 97.2 | 33.3 | 92.0 |
| Food & Live Animals | 327 | 99.4 | 102.7 | 100.0 | 101.9 | 104.8 | 101.7 | 99.7 |
| Live animals | 14 | 96.4 | 103.6 | 100.0 | 101.9 | 103.8 | 102.8 | 101.9 |
| Meat & meat preparations | 44 | 96.5 | 101.7 | 100.0 | 101.1 | 103.3 | 100.3 | 97.3 |
| Dairy products & birds' eggs | 72 | 101.6 | 107.2 | 100.0 | 109.4 | 116.2 | 100.3 | 90.8 |
| Fish, seafood & preparations | 23 | 100.9 | 101.5 | 100.0 | 98.5 | 100.6 | 103.9 | 109.6 |
| Cereals & cereal preparations | 49 | 96.6 | 101.7 | 100.0 | 102.2 | 102.9 | 102.6 | 100.8 |
| Vegetables & fruit | 26 | 95.1 | 99.6 | 100.0 | 106.7 | 108.6 | 110.9 | 104.3 |
| Sugar, sugar preparations & honey | 13 | 101.9 | 105.7 | 100.0 | 92.8 | 88.3 | 85.6 | 92.5 |
| Coffee, tea, cocoa, spices & | | | | | | | | |
| manufactures | 27 | 106.0 | 105.9 | 100.0 | 93.2 | 101.5 | 106.0 | 113.1 |
| Animal feeding stuff (excl | | | | | | | | |
| unmilled cereals) | 4 | 101.6 | 96.7 | 100.0 | 100.0 | 104.4 | 103.8 | 104.7 |
| Miscellaneous food preparations | 55 | 101.4 | 101.0 | 100.0 | 98.5 | 99.0 | 100.1 | 100.3 |
| Beverages & Tobacco | 44 | 102.1 | 100.5 | 100.0 | 99.9 | 101.0 | 101.9 | 101.5 |
| Beverages | 31 | 102.1 | 99.2 | 100.0 | 99.4 | 100.5 | 100.8 | 99.4 |
| Tobacco & manufactures | 13 | 102.2 | 103.0 | 100.0 | 101.1 | 102.3 | 104.4 | 106.3 |
| Crude Materials (excl fuels) | 59 | 90.0 | 99.6 | 100.0 | 99.4 | 100.5 | 96.5 | 87.9 |
| Hides, skins & furskins raw | 2 | na | na | 100.0 | 106.5 | 108.0 | 106.0 | 97.0 |
| Oil seeds & oleaginous fruits | 1 | 91.5 | 95.4 | 100.0 | 99.0 | 96.0 | 102.3 | 96.4 |
| Crude rubber | 2 | 108.5 | 132.4 | 100.0 | 99.9 | 103.8 | 101.4 | 94.1 |
| Cork & wood | 5 | 90.2 | 95.8 | 100.0 | 96.1 | 94.7 | 96.0 | 92.2 |
| Textile fibres & their wastes | 1 | na | na | 100.0 | 104.1 | 107.8 | 108.6 | 111.2 |
| Crude fertilizers & minerals | 31 | 94.6 | 98.3 | 100.0 | 99.8 | 100.1 | 93.9 | 81.8 |
| Metalliferous ores & metal scrap | 11 | 72.7 | 90.8 | 100.0 | 93.9 | 95.6 | 90.2 | 87.1 |
| Crude animal & vegetable | | | | | | | | |
| materials nes | 6 | 98.7 | 99.9 | 100.0 | 108.5 | 114.6 | 116.4 | 109.5 |
| Mineral Fuels, Lubricants & | | | | | | | | |
| Related Materials | 3,700 | 76.2 | 97.6 | 100.0 | 95.9 | 88.7 | 52.1 | 42.6 |
| Petroleum & products & | | | | | | | | |
| related materials | 3,527 | 76.2 | 97.6 | 100.0 | 95.6 | 88.4 | 51.7 | 42.1 |
| Gas | 173 | 85.6 | 94.0 | 100.0 | 101.5 | 93.9 | 59.9 | 52.5 |
| | | | | | | | | |

(continued on the next page)

Notes: The Domestic Supply Price Index measures the change in prices of imported and locally manufactured products retained for use in the economy.

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¹ The weight for each commodity item was proportional to the value of its total supply or availability in the domestic market in 2011.

21.5 DOMESTIC SUPPLY PRICE INDEX (continued) (2012 =100)

| ltem | Weights ¹ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Animal & Vegetable Oils, | | | | | | | | |
| Fats & Waxes | 44 | 88.3 | 104.9 | 100.0 | 84.9 | 84.2 | 74.2 | 78.0 |
| Fixed vegetable fats & oils | 32 | 90.3 | 103.9 | 100.0 | 83.6 | 83.6 | 72.4 | 80.0 |
| Animal & vegetable oils, fats & | | | | | | | | |
| waxes nes | 12 | 83.4 | 110.1 | 100.0 | 88.5 | 85.8 | 79.2 | 72.4 |
| Chemicals & Chemical Products | 1,181 | 95.8 | 100.7 | 100.0 | 100.1 | 98.8 | 86.2 | 82.4 |
| Organic chemicals | 612 | 93.7 | 101.8 | 100.0 | 102.0 | 100.6 | 79.6 | 74.9 |
| Inorganic chemicals | 64 | 87.4 | 98.8 | 100.0 | 87.8 | 83.9 | 83.5 | 82.8 |
| Dyeing, tanning & colouring | | | | | | | | |
| materials | 17 | 96.2 | 98.0 | 100.0 | 93.5 | 92.3 | 90.5 | 88.7 |
| Medicinal & pharmaceutical | | | | | | | | |
| products | 102 | 100.4 | 98.1 | 100.0 | 95.1 | 92.0 | 85.4 | 83.7 |
| Essential oils & perfume; toilet | | | | | | | | |
| cleaning products | 30 | 101.1 | 100.1 | 100.0 | 100.6 | 101.8 | 98.8 | 98.8 |
| Plastics in primary forms | 92 | 100.7 | 103.8 | 100.0 | 101.4 | 103.7 | 90.8 | 83.6 |
| Plastics in non-primary forms | 24 | 102.1 | 101.9 | 100.0 | 100.9 | 101.3 | 100.6 | 98.3 |
| Chemical materials & products nes | 240 | 94.5 | 97.1 | 100.0 | 100.6 | 99.3 | 99.0 | 96.2 |
| Manufactured Goods | 668 | 102.0 | 104.1 | 100.0 | 97.4 | 96.7 | 94.8 | 89.1 |
| Leather manufactures nes | 2 | 99.2 | 97.9 | 100.0 | 107.1 | 120.2 | 122.5 | 125.5 |
| Rubber manufactures nes | 18 | 98.7 | 98.3 | 100.0 | 96.4 | 94.5 | 98.1 | 96.0 |
| Wood & cork manufactures (excl | | | | | | | | |
| furniture) | 7 | 98.9 | 99.4 | 100.0 | 99.7 | 100.3 | 101.2 | 102.2 |
| Paper manufactures | 67 | 103.1 | 102.7 | 100.0 | 99.1 | 99.1 | 100.4 | 98.8 |
| Textile manufactures | 11 | 106.3 | 103.8 | 100.0 | 98.2 | 98.9 | 101.0 | 100.7 |
| Non-metal mineral manufactures nes | 130 | 93.0 | 98.9 | 100.0 | 100.9 | 102.4 | 102.6 | 97.1 |
| Iron & steel | 148 | 103.4 | 106.7 | 100.0 | 94.6 | 92.1 | 85.0 | 75.2 |
| Non-ferrous metals | 118 | 105.2 | 110.5 | 100.0 | 94.6 | 91.9 | 86.5 | 81.8 |
| Manufactures of metals nes | 167 | 101.2 | 101.1 | 100.0 | 98.5 | 98.6 | 99.5 | 94.0 |

(continued on the next page)

Notes: The Domestic Supply Price Index measures the change in prices of imported and locally manufactured products retained for use in the economy.

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¹ The weight for each commodity item was proportional to the value of its total supply or availability in the domestic market in 2011.

21.5 DOMESTIC SUPPLY PRICE INDEX (continued) (2012 = 100)

| ltem | Weights ¹ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|---------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Machinery & Transport Equipment | 3,229 | 105.5 | 100.3 | 100.0 | 97.4 | 95.9 | 98.6 | 95.1 |
| Power-generating machinery & | | | | | | | | |
| equipment | 176 | 97.0 | 96.1 | 100.0 | 103.4 | 108.8 | 120.2 | 124.5 |
| Machinery specialized for particular | | | | | | | | |
| industries | 188 | 109.4 | 102.4 | 100.0 | 97.8 | 97.0 | 96.8 | 94.7 |
| Metal working machinery | 6 | 98.7 | 100.4 | 100.0 | 99.3 | 98.2 | 98.7 | 101.2 |
| General industrial machinery | 149 | 101.5 | 100.3 | 100.0 | 100.2 | 101.4 | 102.1 | 101.7 |
| Office machines & data-processing | | | | | | | | |
| machines | 234 | 109.6 | 102.3 | 100.0 | 97.9 | 98.1 | 99.6 | 98.8 |
| Telecommunication apparatus | 233 | 115.5 | 106.1 | 100.0 | 91.9 | 79.7 | 76.8 | 73.2 |
| Electrical machinery apparatus nes, | | | | | | | | |
| electrical parts | 2,176 | 104.8 | 99.1 | 100.0 | 97.2 | 95.6 | 98.8 | 93.9 |
| Road vehicles | 67 | 102.6 | 100.9 | 100.0 | 98.7 | 105.2 | 105.8 | 106.7 |
| Miscellaneous Manufactured Articles | 748 | 95.7 | 97.7 | 100.0 | 97.9 | 98.0 | 98.5 | 99.0 |
| Prefabricated building, sanitary | | | | | | | | |
| plumbing, lighting nes | 10 | 92.5 | 95.6 | 100.0 | 100.3 | 100.8 | 102.0 | 99.0 |
| Furniture, bedding, mattresses, | | | | | | | | |
| cushions & others | 51 | 108.3 | 100.8 | 100.0 | 99.7 | 100.9 | 102.5 | 104.1 |
| Travel goods, handbags & similar | | | | | | | | |
| containers | 22 | 100.5 | 97.7 | 100.0 | 103.7 | 110.7 | 116.6 | 118.8 |
| Articles of apparel & clothing | | | | | | | | |
| accessories | 24 | 94.1 | 95.2 | 100.0 | 103.4 | 105.5 | 107.4 | 107.9 |
| Footwear | 14 | 100.1 | 99.7 | 100.0 | 100.2 | 103.8 | 103.1 | 104.7 |
| Professional scientific & controlling | | | | | | | | |
| instruments nes | 312 | 103.9 | 100.4 | 100.0 | 100.0 | 100.9 | 100.7 | 100.2 |
| Photographic & optical goods nes; | | | | | | | | |
| watches & clocks | 93 | 97.5 | 98.4 | 100.0 | 98.4 | 98.8 | 98.4 | 97.0 |
| Miscellaneous manufactured | | | | | | | | |
| articles nes | 222 | 89.0 | 95.8 | 100.0 | 93.1 | 90.5 | 91.4 | 93.5 |

Notes: The Domestic Supply Price Index measures the change in prices of imported and locally manufactured products retained for use in the economy.

Download times series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=12119 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=12099

¹ The weight for each commodity item was proportional to the value of its total supply or availability in the domestic market in 2011.

21.6 SINGAPORE MANUFACTURED PRODUCTS PRICE INDEX (2012 = 100)

| Item | Weights ¹ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|---------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| All Items | 10,000 | 94.6 | 99.6 | 100.0 | 96.9 | 93.6 | 85.0 | 80.4 |
| Non-Oil Items | 7,782 | 101.7 | 100.2 | 100.0 | 97.2 | 94.8 | 92.7 | 89.8 |
| Food & Live Animals | 266 | 98.7 | 101.3 | 100.0 | 101.3 | 104.9 | 103.5 | 102.6 |
| Meat & meat preparations | 22 | 99.1 | 101.7 | 100.0 | 100.7 | 101.5 | 100.0 | 99.5 |
| Dairy products & birds' eggs | 58 | 103.9 | 103.2 | 100.0 | 106.6 | 109.7 | 102.3 | 94.1 |
| Fish, seafood & preparations | 7 | 97.3 | 100.2 | 100.0 | 98.6 | 107.5 | 109.0 | 111.2 |
| Cereals & cereal preparations | 44 | 95.3 | 99.5 | 100.0 | 101.6 | 104.1 | 105.2 | 106.2 |
| Vegetables & fruit | 4 | 93.8 | 97.8 | 100.0 | 100.0 | 100.0 | 101.9 | 103.3 |
| Sugar, sugar preparations & | | | | | | | | |
| honey | 2 | na | na | 100.0 | 101.0 | 109.6 | 95.5 | 92.2 |
| Coffee, tea, cocoa, spices & | | | | | | | | |
| manufactures | 31 | 98.6 | 103.9 | 100.0 | 93.8 | 109.5 | 106.2 | 113.2 |
| Animal feeding stuff (excl | | | | | | | | |
| unmilled cereals) | 9 | 100.8 | 97.9 | 100.0 | 97.7 | 103.6 | 104.4 | 104.3 |
| Miscellaneous food | | | | | | | | |
| preparations | 89 | 99.0 | 100.4 | 100.0 | 101.2 | 101.6 | 103.1 | 102.8 |
| Beverages & Tobacco | 54 | 98.5 | 98.9 | 100.0 | 99.9 | 100.6 | 101.4 | 101.8 |
| Beverages | 27 | 98.5 | 97.3 | 100.0 | 99.4 | 100.5 | 101.7 | 99.4 |
| Tobacco & manufactures | 27 | 98.4 | 101.2 | 100.0 | 100.4 | 100.7 | 101.2 | 104.2 |
| Crude Materials (excl fuels) | 7 | 104.2 | 100.4 | 100.0 | 101.7 | 104.2 | 104.9 | 109.0 |
| Cork & wood | 1 | 93.3 | 97.1 | 100.0 | 115.0 | 117.4 | 117.6 | 116.9 |
| Crude fertilizers & minerals | 3 | 106.4 | 101.5 | 100.0 | 102.7 | 107.9 | 109.3 | 118.6 |
| Metalliferous ores & | | | | | | | | |
| metal scrap | 3 | 100.0 | 100.0 | 100.0 | 98.5 | 98.5 | 98.5 | 98.4 |
| Mineral Fuels, Lubricants & | | | | | | | | |
| Related Materials | 2,218 | 78.5 | 98.5 | 100.0 | 96.0 | 89.6 | 58.3 | 47.1 |
| Petroleum & products & | | | | | | | | |
| related materials | 2,187 | 78.5 | 98.5 | 100.0 | 96.0 | 89.6 | 58.4 | 47.2 |
| Gas | 31 | 85.6 | 94.0 | 100.0 | 96.7 | 90.0 | 51.5 | 41.4 |
| Animal & Vegetable Oils, | | | | | | | | |
| Fats & Waxes | 28 | 88.2 | 99.3 | 100.0 | 87.2 | 94.3 | 90.1 | 95.2 |
| Fixed vegetable fats & oils | 16 | 90.0 | 100.5 | 100.0 | 87.0 | 101.5 | 99.4 | 113.6 |
| Animal & vegetable oils, fats & | | | | | | | | |
| waxes nes | 12 | na | na | 100.0 | 87.5 | 84.7 | 78.0 | 71.0 |

(continued on the next page)

Download times series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=12118 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=12108

¹ The weights for Singapore Manufactured Products Price Index are compiled based on the production value of the commodity item in 2011.

21.6 SINGAPORE MANUFACTURED PRODUCTS PRICE INDEX (continued)
(2012 = 100)

| Item | Weights ¹ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-------------------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Chemicals & Chemical Products | 2,335 | 98.4 | 102.3 | 100.0 | 100.4 | 99.1 | 88.1 | 86.4 |
| Organic chemicals | 1,402 | 97.3 | 102.8 | 100.0 | 99.9 | 97.0 | 82.0 | 82.0 |
| Inorganic chemicals | 56 | 86.0 | 96.1 | 100.0 | 95.0 | 91.7 | 89.2 | 84.1 |
| Dyeing, tanning & colouring materials | 33 | 96.5 | 99.8 | 100.0 | 97.2 | 96.7 | 94.7 | 90.6 |
| Medicinal & pharmaceutical products | 157 | 104.6 | 99.3 | 100.0 | 100.3 | 101.0 | 104.0 | 99.8 |
| Essential oils & perfume; toilet | | | | | | | | |
| cleaning products | 64 | 101.6 | 103.1 | 100.0 | 95.8 | 97.2 | 100.1 | 102.6 |
| Plastics in primary forms | 323 | 100.0 | 105.1 | 100.0 | 104.2 | 107.1 | 91.8 | 85.6 |
| Plastics in non-primary forms | 38 | 98.6 | 101.9 | 100.0 | 102.7 | 103.8 | 102.5 | 100.1 |
| Chemical materials & products nes | 262 | 98.7 | 98.4 | 100.0 | 101.0 | 101.3 | 100.5 | 96.3 |
| Manufactured Goods | 439 | 98.6 | 102.1 | 100.0 | 99.6 | 98.9 | 98.0 | 94.3 |
| Leather manufactures nes | 5 | 98.6 | 96.8 | 100.0 | 107.1 | 120.2 | 122.5 | 125.5 |
| Rubber manufactures nes | 18 | 91.2 | 94.8 | 100.0 | 98.7 | 98.9 | 104.7 | 107.1 |
| Wood & cork manufactures (excl furniture) | 8 | 99.7 | 99.7 | 100.0 | 99.6 | 100.1 | 100.9 | 102.0 |
| Paper manufactures | 44 | 93.7 | 99.5 | 100.0 | 103.2 | 104.1 | 103.8 | 100.1 |
| Textile manufactures | 10 | 126.9 | 110.6 | 100.0 | 100.0 | 100.0 | 101.6 | 102.2 |
| Non-metal mineral manufactures nes | 77 | 91.8 | 101.7 | 100.0 | 99.9 | 102.2 | 100.1 | 96.5 |
| Iron & steel | 63 | 99.3 | 104.1 | 100.0 | 96.6 | 91.6 | 86.3 | 74.6 |
| Non-ferrous metals | 31 | 97.5 | 107.9 | 100.0 | 97.8 | 95.9 | 92.9 | 89.7 |
| Manufactures of metals nes | 183 | 100.8 | 101.9 | 100.0 | 99.8 | 98.6 | 99.1 | 96.8 |
| Machinery & Transport Equipment | 3,900 | 103.8 | 98.6 | 100.0 | 94.4 | 90.6 | 93.7 | 89.7 |
| Power-generating machinery & equipment | 33 | 90.0 | 96.5 | 100.0 | 94.5 | 91.5 | 94.6 | 91.5 |
| Machinery specialized for particular industries | 376 | 109.1 | 100.7 | 100.0 | 97.3 | 93.9 | 94.6 | 89.1 |
| Metal working machinery | 21 | 98.8 | 100.2 | 100.0 | 103.2 | 103.2 | 97.4 | 96.3 |
| General industrial machinery | 167 | 99.8 | 99.0 | 100.0 | 98.9 | 99.7 | 100.7 | 101.0 |
| Office machines & data-processing machines | 1,143 | 110.5 | 100.9 | 100.0 | 87.4 | 79.7 | 82.8 | 82.2 |
| Telecommunication apparatus | 49 | 87.3 | 98.4 | 100.0 | 101.3 | 99.9 | 102.5 | 101.5 |
| Electrical machinery apparatus nes, | | | | | | | | |
| electrical parts | 2,076 | 103.3 | 96.9 | 100.0 | 97.1 | 94.6 | 98.4 | 92.3 |
| Road vehicles | 35 | 98.8 | 99.2 | 100.0 | 101.7 | 108.2 | 111.4 | 113.9 |
| Miscellaneous Manufactured Articles | 753 | 102.3 | 102.2 | 100.0 | 98.8 | 96.4 | 93.8 | 92.8 |
| Furniture, bedding, mattresses, | | | | | | | | |
| cushions & others | 31 | 100.6 | 97.6 | 100.0 | 100.2 | 102.4 | 105.5 | 109.4 |
| Travel goods, handbags & similar containers | 1 | 89.1 | 92.7 | 100.0 | 103.7 | 110.5 | 115.8 | 115.4 |
| Articles of apparel & clothing accessories | 27 | 94.2 | 93.9 | 100.0 | 96.8 | 93.8 | 102.9 | 98.5 |
| Professional scientific & | 327 | 101.9 | 100.8 | 100.0 | 98.4 | 97.9 | 94.5 | 94.0 |
| controlling instruments nes | | | | | | | | |
| Photographic & optical goods nes; | | | | | | | | |
| watches & clocks | 21 | 103.2 | 99.0 | 100.0 | 101.0 | 101.7 | 102.1 | 82.6 |
| Miscellaneous manufactured articles nes | 346 | 103.9 | 104.7 | 100.0 | 99.0 | 94.2 | 90.8 | 90.3 |
| | | | | | | | | |

¹ The weights for Singapore Manufactured Products Price Index are compiled based on the production value of the commodity item in 2011.

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21.7 IMPORT PRICE INDEX (2012 = 100)

| Item | Weights ¹ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|------------------------------------------------------|----------------------|--------------|----------------|----------------|----------------|----------------|---------------|---------------|
| item | weights | 2010 | 2011 | 2012 | 2013 | 2014 | 2013 | 2010 |
| All Items | 10,000 | 95.7 | 100.3 | 100.0 | 97.2 | 94.5 | 82.5 | 78.1 |
| Non-Oil Items | 6,684 | 102.5 | 101.3 | 100.0 | 97.9 | 97.3 | 97.7 | 95.7 |
| | | | | | | | | |
| Food & Live Animals | 215 | 97.2 | 102.6 | 100.0 | 100.9 | 104.2 | 101.5 | 99.0 |
| Live animals | 9 | 96.4 | 103.5 | 100.0 | 101.6 | 103.6 | 102.9 | 101.7 |
| Meat & meat preparations | 26 | 95.5 | 100.8 | 100.0 | 101.3 | 104.4 | 100.8 | 96.5 |
| Dairy products & birds' eggs | 28 | 101.3 | 106.8 | 100.0 | 111.5 | 121.5 | 98.0 | 87.3 |
| Fish, seafood & preparations | 28 | 101.1 | 102.0 | 100.0 | 99.1 | 101.5 | 104.5 | 109.5 |
| Cereals & cereal preparations | 21 37 | 97.1 92.6 | 102.5 101.6 | 100.0 100.0 | 102.3 105.2 | 100.7 108.5 | 98.6 111.1 | 93.6 104.3 |
| Vegetables & fruit Sugar, sugar preparations & honey | 12 | 102.1 | 101.6 | 100.0 | 92.5 | 87.8 | 84.5 | 91.4 |
| Coffee, tea, cocoa, spices & | 12 | 102.1 | 106.1 | 100.0 | 92.5 | 07.0 | 64.5 | 91.4 |
| manufactures | 28 | 89.4 | 100.4 | 100.0 | 96.5 | 105.0 | 109.2 | 109.6 |
| Animal feeding stuff (excl | 20 | 05.4 | 100.4 | 100.0 | 30.3 | 105.0 | 105.2 | 109.0 |
| unmilled cereals) | 3 | 103.5 | 93.3 | 100.0 | 101.6 | 105.1 | 102.2 | 103.7 |
| Miscellaneous food | 3 | 105.5 | 33.3 | 100.0 | 101.0 | 103.1 | 102.2 | 103.7 |
| preparations | 23 | 105.8 | 103.4 | 100.0 | 90.6 | 90.5 | 89.2 | 89.2 |
| p. epa. acions | 20 | 200.0 | 20011 | 200.0 | 30.0 | 30.3 | 03.2 | 03.2 |
| Beverages & Tobacco | 86 | 101.3 | 98.5 | 100.0 | 101.1 | 102.1 | 104.7 | 104.4 |
| Beverages | 66 | 98.0 | 96.4 | 100.0 | 100.8 | 101.4 | 103.3 | 103.1 |
| Tobacco & manufactures | 20 | 108.9 | 103.3 | 100.0 | 102.1 | 104.4 | 109.2 | 108.8 |
| | | | | | | | | |
| Crude Materials (excl fuels) | 83 | 96.5 | 106.2 | 100.0 | 95.7 | 93.4 | 88.0 | 81.8 |
| Hides, skins & furskins raw | 1 | 94.7 | 93.9 | 100.0 | 106.5 | 108.0 | 106.0 | 97.0 |
| Oil seeds & oleaginous fruits | 1 | 91.5 | 95.4 | 100.0 | 96.1 | 91.6 | 101.2 | 96.4 |
| Crude rubber | 17 | 110.8 | 133.9 | 100.0 | 82.9 | 67.6 | 56.2 | 56.1 |
| Cork & wood | 5 | 91.1 | 96.1 | 100.0 | 94.6 | 93.3 | 95.0 | 91.0 |
| Textile fibres & their wastes | 3 | 89.0 | 90.7 | 100.0 | 103.7 | 102.9 | 102.1 | 102.8 |
| Crude fertilizers & minerals | 26 | 94.7 | 98.1 | 100.0 | 99.6 | 99.9 | 94.7 | 82.6 |
| Metalliferous ores & metal scrap | 21 | 80.5 | 93.3 | 100.0 | 94.5 | 94.3 | 87.9 | 83.4 |
| Crude animal & vegetable | | | | | | | | |
| materials nes | 9 | 100.9 | 100.1 | 100.0 | 107.9 | 116.4 | 115.7 | 107.9 |
| Mineral Fuels, Lubricants & | | | | | | | | |
| Related Materials | 3,316 | 76.2 | 97.4 | 100.0 | 95.9 | 88.8 | 52.0 | 42.8 |
| Petroleum & products & | 3,310 | 70.2 | 37.1 | 100.0 | 33.3 | 00.0 | 32.0 | 12.0 |
| related materials | 3,152 | 76.2 | 97.4 | 100.0 | 95.5 | 88.5 | 51.5 | 42.2 |
| Gas | 164 | na | na | 100.0 | 102.1 | 94.3 | 60.8 | 53.7 |
| | | | | | | | | |
| Animal & Vegetable Oils, | | | | | | | | |
| Fats & Waxes | 37 | 87.5 | 108.8 | 100.0 | 83.1 | 82.1 | 70.1 | 76.0 |
| Fixed vegetable fats & oils | 36 | 90.8 | 110.9 | 100.0 | 82.6 | 81.6 | 69.4 | 75.7 |
| Animal & vegetable oils, fats & | | | | | | | | |
| waxes nes | 1 | 83.5 | 108.8 | 100.0 | 97.7 | 95.5 | 90.3 | 85.2 |
| | | | | | | | | |

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¹ The weights for the Import Price Index are compiled based on the value of the commodity item imported in 2012.

21.7 IMPORT PRICE INDEX (continued) (2012 = 100)

| (2012 -100) | | | | | | | | |
|---------------------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Item | Weights ¹ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Chemicals & Chemical Products | 694 | 97.0 | 100.5 | 100.0 | 98.9 | 97.9 | 92.0 | 88.1 |
| Organic chemicals | 188 | 96.5 | 103.6 | 100.0 | 99.0 | 95.8 | 83.9 | 76.2 |
| Inorganic chemicals | 34 | 90.7 | 101.1 | 100.0 | 81.4 | 77.8 | 79.7 | 82.8 |
| Dyeing, tanning & colouring materials | 28 | 97.7 | 97.5 | 100.0 | 92.5 | 90.9 | 88.3 | 87.5 |
| Medicinal & pharmaceutical products | 70 | 97.5 | 97.3 | 100.0 | 96.6 | 94.2 | 88.8 | 87.6 |
| Essential oils & perfume; toilet | | | | | | | | |
| cleaning products | 75 | 103.2 | 101.9 | 100.0 | 100.9 | 102.7 | 102.0 | 102.7 |
| Plastics in primary forms | 147 | 99.4 | 101.5 | 100.0 | 103.0 | 105.8 | 96.0 | 90.2 |
| Plastics in non-primary forms | 31 | 103.4 | 102.1 | 100.0 | 100.1 | 100.9 | 100.8 | 98.6 |
| Chemical materials & products nes | 121 | 92.4 | 95.9 | 100.0 | 99.9 | 97.4 | 97.6 | 94.3 |
| Manufactured Goods | 635 | 101.3 | 104.4 | 100.0 | 97.2 | 97.7 | 94.2 | 87.7 |
| Rubber manufactures nes | 32 | 93.0 | 96.7 | 100.0 | 96.5 | 94.7 | 96.5 | 93.6 |
| Paper manufactures | 50 | 106.5 | 104.0 | 100.0 | 98.6 | 99.0 | 101.9 | 100.5 |
| Textile manufactures | 31 | 97.3 | 101.1 | 100.0 | 98.3 | 99.7 | 102.6 | 101.8 |
| Non-metal mineral manufactures nes | 83 | 97.3 | 96.7 | 100.0 | 101.9 | 101.9 | 104.0 | 97.5 |
| Iron & steel | 179 | 104.0 | 107.3 | 100.0 | 95.6 | 96.8 | 89.9 | 79.7 |
| Non-ferrous metals | 116 | 106.3 | 115.2 | 100.0 | 94.0 | 93.9 | 81.8 | 78.1 |
| Manufactures of metals nes | 144 | 99.1 | 100.9 | 100.0 | 98.7 | 99.4 | 99.2 | 90.9 |
| Machinery & Transport Equipment | 4,205 | 105.1 | 101.4 | 100.0 | 97.9 | 96.8 | 98.7 | 97.3 |
| Power-generating machinery & equipment | 298 | 98.8 | 97.2 | 100.0 | 102.9 | 107.5 | 117.0 | 120.7 |
| Machinery specialized for particular industries | 352 | 105.5 | 102.4 | 100.0 | 96.4 | 94.6 | 94.7 | 94.4 |
| Metalworking machinery | 31 | 100.8 | 100.5 | 100.0 | 94.9 | 92.8 | 92.9 | 96.6 |
| General industrial machinery | 328 | 102.5 | 100.9 | 100.0 | 99.3 | 100.1 | 99.9 | 101.1 |
| Office machines & data-processing machines | 495 | 101.8 | 100.7 | 100.0 | 98.2 | 98.5 | 101.4 | 100.8 |
| Telecommunication apparatus | 422 | 128.4 | 113.5 | 100.0 | 92.3 | 80.8 | 78.4 | 74.8 |
| Electrical machinery apparatus nes, | | | | | | | | |
| electrical parts | 2,116 | 103.8 | 100.2 | 100.0 | 98.2 | 97.7 | 100.1 | 97.3 |
| Road vehicles | 163 | 99.5 | 100.1 | 100.0 | 97.9 | 101.1 | 99.0 | 100.9 |
| Miscellaneous Manufactured Articles | 729 | 96.2 | 97.4 | 100.0 | 97.4 | 97.4 | 100.5 | 101.3 |
| Prefabricated building, sanitary plumbing, | | | | | | | | |
| lighting nes | 16 | 95.3 | 97.3 | 100.0 | 100.4 | 101.2 | 103.0 | 100.0 |
| Furniture, bedding, mattresses, | | | | | | | | |
| cushions & others | 25 | 109.4 | 101.3 | 100.0 | 98.9 | 98.9 | 98.3 | 97.6 |
| Travel goods, handbags & similar containers | 25 | 97.1 | 95.9 | 100.0 | 103.0 | 110.1 | 114.9 | 116.2 |
| Articles of apparel & clothing accessories | 64 | 95.3 | 96.6 | 100.0 | 102.7 | 104.6 | 106.5 | 106.8 |
| Footwear | 16 | 100.1 | 99.8 | 100.0 | 99.9 | 103.0 | 102.4 | 104.0 |
| Professional scientific & controlling instruments | 207 | 103.8 | 100.5 | 100.0 | 100.7 | 102.1 | 111.2 | 111.8 |
| Photographic & optical goods nes; | | | | | | | | |
| watches & clocks | 99 | 97.8 | 97.5 | 100.0 | 97.2 | 97.8 | 97.2 | 96.3 |
| Miscellaneous mfd articles nes | 277 | 89.1 | 95.0 | 100.0 | 92.7 | 90.3 | 91.1 | 93.0 |
| | | | | | | | | |

¹ The weights for the Import Price Index are compiled based on the value of the commodity item imported in 2012.

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21.8 EXPORT PRICE INDEX (2012 =100)

| (2012 100) | | | | | | | | |
|-------------------------------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Item | Weights ¹ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| All Items | 10,000 | 98.8 | 101.1 | 100.0 | 97.3 | 95.0 | 88.5 | 83.7 |
| Non-Oil Items | 7,395 | 106.0 | 102.1 | 100.0 | 98.2 | 97.3 | 99.8 | 97.1 |
| Food & Live Animals | 124 | 93.9 | 102.8 | 100.0 | 96.6 | 101.5 | 103.6 | 100.7 |
| Meat & meat preparations | 2 | 104.1 | 112.1 | 100.0 | 103.8 | 104.5 | 106.5 | 103.9 |
| Dairy products & birds' eggs | 7 | 96.9 | 99.2 | 100.0 | 105.6 | 124.4 | 101.5 | 79.6 |
| Fish, seafood & preparations | 9 | 98.9 | 99.9 | 100.0 | 95.1 | 95.5 | 99.4 | 100.2 |
| Cereals & cereal preparations | 7 | 96.6 | 100.2 | 100.0 | 100.8 | 102.0 | 104.9 | 106.0 |
| Vegetables & fruit Sugar, sugar preparations & | 8 | 85.1 | 127.7 | 100.0 | 92.6 | 121.4 | 133.0 | 126.3 |
| honey Coffee, tea, cocoa, spices & | 6 | 102.7 | 106.1 | 100.0 | 90.1 | 88.7 | 88.3 | 95.5 |
| manufactures Animal feeding stuff (excl | 29 | 90.9 | 99.6 | 100.0 | 96.5 | 107.4 | 109.9 | 107.2 |
| unmilled cereals) | 6 | 98.6 | 98.5 | 100.0 | 99.3 | 99.7 | 119.1 | 116.6 |
| Miscellaneous food preparations | 50 | 92.7 | 100.2 | 100.0 | 95.9 | 94.4 | 96.2 | 94.2 |
| Beverages & Tobacco | 87 | 97.8 | 98.2 | 100.0 | 98.1 | 100.2 | 107.2 | 109.4 |
| Beverages | 66 | 93.3 | 97.0 | 100.0 | 96.6 | 98.1 | 103.6 | 105.0 |
| Tobacco & manufactures | 21 | 106.0 | 100.5 | 100.0 | 102.8 | 107.2 | 118.7 | 123.2 |
| Crude Materials (excl fuels) | 60 | 105.6 | 113.0 | 100.0 | 90.6 | 84.0 | 74.8 | 69.8 |
| Crude rubber | 15 | 116.3 | 143.6 | 100.0 | 81.4 | 57.6 | 50.1 | 50.6 |
| Cork & wood | 2 | 81.0 | 84.6 | 100.0 | 98.0 | 101.3 | 100.7 | 95.4 |
| Pulp and waste paper | 6 | 108.5 | 121.5 | 100.0 | 92.6 | 95.1 | 97.9 | 97.8 |
| Textile fibres & their wastes Metalliferous ores & | 3 | 88.3 | 89.7 | 100.0 | 109.3 | 94.4 | 95.0 | 83.8 |
| metal scrap | 29 | 105.6 | 110.2 | 100.0 | 91.0 | 89.4 | 74.6 | 66.0 |
| Crude animal & vegetable | | | | | | | | |
| materials nes | 5 | 104.4 | 98.7 | 100.0 | 99.8 | 103.3 | 99.0 | 96.1 |
| Mineral Fuels, Lubricants & | | | | | | | | |
| Related Materials | 2,605 | 76.3 | 97.8 | 100.0 | 94.6 | 88.6 | 56.3 | 45.6 |
| Petroleum & products & | | | | | | | | |
| related materials | 2,595 | 76.3 | 98.0 | 100.0 | 94.6 | 88.6 | 56.3 | 45.6 |
| Gas | 10 | 70.5 | 80.7 | 100.0 | 94.5 | 83.7 | 52.2 | 38.9 |
| Animal & Vegetable Oils, | | | | | | | | |
| Fats & waxes | 8 | 95.9 | 107.2 | 100.0 | 93.2 | 90.4 | 84.6 | 84.6 |
| Animal oils & fats | 1 | 92.1 | 95.7 | 100.0 | 107.7 | 104.1 | 99.7 | 93.4 |
| Fixed vegetable fats & oils Animal & vegetable oils, fats & | 5 | 95.9 | 109.6 | 100.0 | 90.1 | 86.7 | 80.4 | 80.3 |
| waxes nes | 2 | 96.6 | 101.4 | 100.0 | 99.1 | 97.8 | 93.4 | 94.3 |

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¹ The weights for the Export Price Index are compiled based on the value of the commodity item exported in 2012.

21.8 EXPORT PRICE INDEX (continued) (2012 = 100)

| Item | Weights ¹ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Chandada O Chandad Bardada | 4 2 4 4 | 100.4 | 100.0 | 100.0 | 00.7 | 100.3 | 07.5 | 02.5 |
| Chemicals & Chemical Products | 1,344 | 100.4 | 100.9 | 100.0 | 99.7 | 100.3 | 97.5 | 92.5 |
| Organic chemicals | 498 | 99.6 | 99.0 | 100.0 | 98.4 | 97.5 | 93.1 | 85.3 |
| Inorganic chemicals | 13 | 93.7 | 99.1 | 100.0 | 96.4 | 95.0 | 93.7 | 91.1 |
| Dyeing, tanning & colouring | | | | | | | | |
| materials | 32 | 97.2 | 98.6 | 100.0 | 91.3 | 91.8 | 90.0 | 90.3 |
| Medicinal & pharmaceutical | | | | | | | | |
| products | 228 | 105.3 | 101.1 | 100.0 | 97.2 | 99.6 | 100.1 | 96.8 |
| Essential oils & perfume; toilet | | | | | | | | |
| cleaning products | 127 | 102.2 | 102.9 | 100.0 | 104.9 | 105.0 | 105.7 | 109.2 |
| Plastics in primary forms | 289 | 103.1 | 106.0 | 100.0 | 102.4 | 104.5 | 95.5 | 87.9 |
| Plastics in non-primary forms | 29 | 81.6 | 98.4 | 100.0 | 99.7 | 101.0 | 101.8 | 96.9 |
| Chemical materials & products nes | 128 | 99.0 | 99.6 | 100.0 | 99.9 | 101.5 | 107.7 | 106.0 |
| Manufactured Goods | 381 | 102.0 | 105.1 | 100.0 | 98.8 | 99.3 | 96.3 | 92.9 |
| Rubber manufactures nes | 26 | 99.1 | 99.1 | 100.0 | 99.2 | 98.9 | 98.4 | 98.4 |
| Wood & cork manufactures (excl | | | | | | | | |
| furniture) | 2 | 111.4 | 107.4 | 100.0 | 103.5 | 110.8 | 109.4 | 107.8 |
| Paper manufactures | 40 | 105.1 | 101.3 | 100.0 | 101.0 | 101.2 | 105.3 | 101.1 |
| Textile manufactures | 20 | 102.0 | 106.1 | 100.0 | 100.6 | 100.4 | 107.0 | 105.5 |
| Non-metal mineral manufactures nes | | 106.4 | 103.3 | 100.0 | 91.3 | 89.2 | 90.7 | 95.8 |
| Iron & steel | 96 | 101.7 | 104.1 | 100.0 | 99.9 | 99.4 | 95.1 | 83.0 |
| Non-ferrous metals | 76 | 102.0 | 115.8 | 100.0 | 97.7 | 100.2 | 85.0 | 87.4 |
| Manufactures of metals nes | 90 | 101.3 | 98.1 | 100.0 | 99.7 | 100.8 | 101.7 | 98.6 |
| Machinery & Transport Equipment | 4,595 | 108.8 | 102.3 | 100.0 | 98.3 | 96.9 | 101.2 | 98.2 |
| Power-generating machinery & | | | | | | | | |
| equipment | 188 | 99.8 | 99.0 | 100.0 | 100.7 | 101.4 | 105.2 | 105.3 |
| Machinery specialized for particular | | | | | | | | |
| industries | 397 | 104.8 | 100.5 | 100.0 | 98.8 | 99.6 | 97.4 | 90.8 |
| Metalworking machinery | 28 | 112.0 | 106.8 | 100.0 | 100.0 | 101.6 | 105.3 | 108.2 |
| General industrial machinery | 243 | 101.7 | 98.4 | 100.0 | 98.9 | 99.7 | 105.1 | 105.8 |
| Office machines & data-processing | | | | | | | | |
| machines | 680 | 112.7 | 100.9 | 100.0 | 96.1 | 96.5 | 105.1 | 104.2 |
| Telecommunication apparatus | 336 | 116.9 | 107.6 | 100.0 | 96.0 | 90.6 | 89.3 | 85.6 |
| Electrical machinery apparatus nes, | | | | | | | | |
| electrical parts | 2,582 | 107.3 | 102.9 | 100.0 | 98.7 | 96.2 | 101.1 | 97.3 |
| Road vehicles | 141 | 102.2 | 98.2 | 100.0 | 101.7 | 106.6 | 109.5 | 111.0 |
| | | | | | | | | |

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¹ The weights for the Export Price Index are compiled based on the value of the commodity item exported in 2012.

21.8 EXPORT PRICE INDEX (continued) (2012 = 100)

| Item | Weights ¹ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|---------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Miscellaneous Manufactured Articles | 796 | 103.2 | 99.8 | 100.0 | 96.0 | 93.6 | 97.8 | 101.4 |
| Prefabricated building, sanitary | | | | | | | | |
| plumbing, lighting | 6 | 107.6 | 107.6 | 100.0 | 102.7 | 113.8 | 112.9 | 115.9 |
| Furniture, bedding, mattresses, | | | | | | | | |
| cushions & others | 5 | 95.0 | 96.4 | 100.0 | 104.0 | 104.6 | 104.8 | 106.5 |
| Travel goods, handbags & similar | | | | | | | | |
| containers | 11 | 106.7 | 98.3 | 100.0 | 108.1 | 117.3 | 123.0 | 123.4 |
| Articles of apparel & clothing | | | | | | | | |
| accessories | 33 | 98.8 | 99.8 | 100.0 | 100.3 | 100.9 | 102.2 | 102.2 |
| Footwear | 8 | 94.4 | 98.3 | 100.0 | 100.1 | 100.5 | 102.0 | 102.1 |
| Professional scientific & controlling | 3 | | | | | | | |
| instruments | 264 | 102.4 | 99.4 | 100.0 | 98.7 | 97.4 | 104.8 | 106.4 |
| Photographic & optical goods nes; | | | | | | | | |
| watches & clocks | 86 | 103.1 | 97.4 | 100.0 | 98.8 | 97.9 | 96.1 | 93.9 |
| Miscellaneous mfd articles nes | 383 | 104.9 | 100.7 | 100.0 | 92.5 | 88.1 | 91.9 | 98.6 |
| | | | | | | | | |

¹ The weights for the Export Price Index are compiled based on the value of the commodity item exported in 2012.

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21.9 CONSTRUCTION MATERIAL MARKET PRICES

| Material | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-------------------------------------------------|-------------------|--------|--------|--------|--------|--------|--------|--------|
| Cement in bulk (Ordinary Portland Cement) | \$/Tonne | 89.14 | 93.78 | 100.87 | 100.23 | 97.93 | 92.97 | 82.95 |
| Steel Bars ¹ (16-32 mm High Tensile) | \$/Tonne | 833.41 | 931.26 | 887.13 | 766.90 | 653.90 | 501.40 | 500.52 |
| Granite ² (20 mm Aggregate) | \$/Tonne | 19.63 | 21.58 | 21.26 | 20.61 | 22.45 | 19.71 | 15.43 |
| Concreting Sand ² | \$/Tonne | 28.19 | 25.96 | 24.10 | 22.99 | 23.25 | 22.68 | 18.30 |
| Ready Mixed Concrete ³ | \$/m ³ | 95.44 | 108.99 | 110.23 | 106.85 | 111.15 | 99.47 | 85.01 |

Source: Building and Construction Authority

- 1 Between January 2009 and December 2014, the market prices of steel bars are based on fixed price supply contracts with contract period of 6 months or less.
 - With effect from January 2015, the market prices of steel bars are based on fixed price supply contracts with contract period of 1 year or less.
- 2 The market prices of granite and concreting sand exclude delivery charges to concrete batching plants.
- 3 The market prices of ready mixed concrete are based on contracts with non-fixed price, fixed price and market retail price for "Grade 40 Pump".

21.10

PRICE INDEX OF HOUSING & DEVELOPMENT BOARD RESALE FLATS

(1st Quarter 2009 = 100) (End of Period)

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|
| Resale Price Index | 124.4 | 137.7 | 146.7 | 145.8 | 137.0 | 134.8 | 134.6 |

Source: Housing & Development Board

Notes: The index is based on quarterly average resale price by date of registration. The index prior to 4Q 2014 was computed using stratification method, while that from 4Q 2014 is computed using stratified hedonic regression method.

Indices prior to 4Q 2014 have been rescaled to the new base period at 1Q 2009.

21.11 PRIVATE PROPERTY PRICE INDEX BY TYPE OF PROPERTY (End of Period)

| Type of Property | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|------------------------------------|-------|-------|---------|-----------------|-------|-------|-------|
| | | | (1st Qı | uarter 2009 = 1 | .00) | | |
| Residential ¹ | 139.2 | 147.4 | 151.5 | 153.2 | 147.0 | 141.6 | 137.2 |
| Landed | 155.1 | 171.0 | 177.0 | 177.1 | 167.6 | 160.8 | 153.6 |
| Non-Landed | 135.0 | 141.2 | 144.8 | 147.6 | 142.5 | 137.4 | 133.8 |
| | | | (4th Qı | uarter 1998 = 1 | 100) | | |
| Commercial ² | | | | | | | |
| Office Space | 109.4 | 124.5 | 126.2 | 132.8 | 138.8 | 138.6 | 134.7 |
| Retail Space ³ | na | 121.4 | 123.8 | 129.5 | 130.7 | 129.6 | 122.6 |
| | | | (4th Qı | uarter 2012 = 1 | LOO) | | |
| Industrial ⁴ | 62.5 | 79.5 | 100.0 | 103.2 | 106.8 | 105.0 | 95.4 |
| Multiple-User Factory ⁵ | 63.2 | 80.3 | 100.0 | 103.2 | 107.7 | 105.9 | 98.7 |
| Single-User Factory ⁶ | 74.6 | 87.8 | 100.0 | 97.8 | 99.0 | 97.2 | 85.4 |

Sources: Urban Redevelopment Authority

JTC Corporation (With effect from 4Q 2013, for data pertaining to industrial properties)

- 1 Data are computed using stratified hedonic regression method. The sum of values of transactions from 1Q 2014 to 1Q 2015 is used as weights to compute the index. Prior to 3Q 2016, data are compiled based on transaction prices given in contracts submitted for stamp duty payment and data provided by licensed developers on new units sold. From 3Q 2016, net prices of units sold by de-licensed developers are included as well.
- 2 The weights used to compute the index are updated every quarter.
- 3 With effect from 1Q 2014, the coverage of shop space statistics has been expanded to include non-shop retail uses (i.e. food & beverage (F&B), entertainment and health & fitness) and referenced as 'retail space'.
- 4 Prior to 4Q 2014, the price index was computed based on transactions of multiple-user factories in the Central region and island-wide multiple-user warehouses, with weights updated every quarter using past 12 quarters' transaction values.
 From 4Q 2014, the price index is computed based on island-wide transactions of multiple-user factories and single-user factories.

From 1Q 2016, the weights are fixed using 2015 transaction values.

The price index is also re-scaled to 100 at 4Q 2012.

- 5 Prior to 4Q 2014, the price index was computed based on transactions of multiple-user factories in the Central region.
 - From 4Q 2014, the scope of the price index is expanded to include transactions outside the Central region.

From 4Q 2014 to 4Q 2015, the weights were fixed using 2012 transaction values.

From 4Q 2014 to 4Q 2015, the weights were fixed using 2012 transaction values.

From 1Q 2016, the weights are fixed using 2015 transaction values.

The price index is also re-scaled to 100 at 4Q 2012.

6 The price index is computed using fixed weights based on 2009 transaction values prior to 1Q 2013.

From 1Q 2013 to 4Q 2015, the weights were fixed using 2012 transaction values.

From 1Q 2016, the weights are fixed using 2015 transaction values.

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http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=2967

21.12 PRICE INC

PRICE INDICES OF NON-LANDED PRIVATE RESIDENTIAL PROPERTIES

BY LOCALITY AND COMPLETION STATUS 1

(1st Quarter 2009 = 100) (End of Period)

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Core Central Region ² | 133.9 | 139.2 | 140.3 | 137.6 | 131.9 | 128.6 | 127.0 |
| Rest of Central Region ³ | 145.9 | 152.5 | 155.0 | 154.8 | 146.6 | 140.3 | 136.4 |
| Outside Central Region | 138.6 | 149.2 | 158.9 | 169.3 | 165.6 | 159.4 | 154.0 |

Source: Urban Redevelopment Authority

Notes: Map of Central Region and areas in Core Central Region are available in the Urban Redevelopment Authority's website.

- Data are computed using stratified hedonic regression method.
 The sum of values of transactions from Q1 2014 to Q1 2015 is used as weights to compute the index.
 Prior to 2016, data are compiled based on transaction prices given in contracts submitted for stamp duty payment given and data provided by licensed developers on new units sold. With effect from 2016, data are compiled based on transaction prices in contract submitted for stamp duty payment, and data provided by both licensed and de-licensed developers on new units sold.
- 2 Refers to Postal Districts 9, 10, 11, Downtown Core and Sentosa.
- 3 Refers to Central Region outside postal districts 9, 10, 11, Downtown Core and Sentosa.

21.13 COMMERCIAL PROPERTY RENTAL INDEX BY TYPE OF PROPERTY (4th Quarter 1998 =100)

(End of Period)

| Type of Property | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|
| Office Space ¹ | | | | | | | |
| Central Region | 159.4 | 172.8 | 170.5 | 172.8 | 189.8 | 177.4 | 162.8 |
| Central Area | 163.6 | 176.8 | 173.7 | 176.9 | 196.2 | 183.8 | 168.6 |
| Fringe Area | 131.5 | 142.7 | 143.1 | 143.9 | 154.4 | 144.8 | 133.6 |
| Retail Space ² | | | | | | | |
| Central Region | na | 118.9 | 118.3 | 117.3 | 118.4 | 113.5 | 104.1 |
| Central Area | na | 121.6 | 120.3 | 119.3 | 120.8 | 115.2 | 105.1 |
| Fringe Area | na | 108.9 | 109.8 | 110.5 | 111.8 | 108.8 | 101.6 |

Source: Urban Redevelopment Authority

Notes: Data refer to properties owned by the private sector.

The weights used to compute the index are updated every quarter from 4th Quarter 1998.

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¹ Rental indices are computed from data on rentals provided by the Inland Revenue Authority of Singapore.

² With effect from 2014, the coverage of shop space statistics has been expanded to include non-shop retail uses (i.e. food & beverage (F&B), entertainment and health & fitness) and referenced as 'retail space'.

22

Education and Literacy

22 Education and Literacy



Singapore's education system aims to bring out the best in every child by enabling students to discover their talents, realise their full potential, and develop a passion for life-long learning. There are multiple educational pathways catering to students with different strengths, interests and learning styles, developing each child to his full potential.

The bilingual policy is a cornerstone of Singapore's education system. It requires students to offer two languages: English Language and a Mother Tongue Language. The learning of the Mother Tongue Language reinforces cultural identity and enables Singaporeans to connect with communities across Asia and the world who speak the same language or share similar culture.

Schools in Singapore provide a rich diversity of learning experiences for students. On top of building a strong foundation in literacy and numeracy, students are developed holistically in the physical, aesthetic, moral, social and emotional spheres.

Primary Education 📝



At the primary level, students go through a six-year course designed to give them a strong educational foundation. This includes developing language and numeracy skills, building character and nurturing sound values and good habits.

At the end of Primary 6, students take the Primary School Leaving Examination (PSLE), which places them in the secondary school course that matches their learning pace and aptitude.

Secondary Education



At the secondary level, three core courses, namely Express Course, Normal (Academic) course and Normal (Technical) Course are offered to match students' learning needs.

Specialised Schools, Specialised Schools for Normal (Technical) Students, Specialised Independent Schools, Independent Schools and schools which offer the Integrated Programme form the diverse secondary school landscape, to suit the unique needs of every child. In addition, all secondary schools have distinctive programmes to better support students' interests and talents.

Post-Secondary Education



After Secondary 4 or Secondary 5, most students proceed to one of the following post-secondary educational institutions:

Junior Colleges/Centralised Institute

Students can apply for pre-university education at the junior colleges (two-year course) or the centralised institute (three-year course) leading to the Singapore-Cambridge General Certificate of Education (GCE) A-Level exam.

Polytechnics

Students with O-Level certificates, the National Certificate (Nitec) or Higher qualifications may apply for full-time diploma courses at any of the five polytechnics. Those with other qualifications such as A-Level certificates may also be considered. Students with N-Level certificates may apply for a place in the polytechnics through the Polytechnic Foundation Programme, which admits students to the foundation year of a specific diploma course. The polytechnics offer a wide range of courses that equip students for careers in diverse fields.

Institute of Technical Education (ITE)

Students with O- or N-Level certificates can opt for full-time courses at the ITE. These courses lead to the Nitec or the Higher Nitec qualifications. ITE taps on industry expertise to

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ensure its graduates are well-equipped with skills needed by industries.

Arts Institutions

Students with O-Level certificates, Nitec or Higher Nitec qualifications may apply for diploma courses offered by the LASALLE College of the Arts and the Nanyang Academy of Fine Arts (NAFA). These institutions offer a range of publicly-funded full-time and diploma programmes in the visual and performing arts. They also offer a range of full-time degree programmes for students who are interested in pursuing visual or performing arts at a higher level.

Universities

Today, there are six publicly-funded universities.

National University of Singapore (NUS)

NUS is a research-intensive university with 16 faculties and schools. including music conservatory. Aside from traditional undergraduate programmes, NUS also offers inter-disciplinary academic experience through its University Scholars Programme, and the liberal arts degree programme offered by the Yale-NUS college. In addition, it offers a wide range of graduate programmes, including that in the Duke-NUS Medical School and the Lee Kuan Yew School of Public Policy.

Nanyang Technological University (NTU)

NTU is a comprehensive, research-intensive university, with a strong focus on engineering, science and technology. It is made up of five Colleges and five autonomous entities including the National Institute of Education which conducts professional training for teachers. NTU's Lee Kong Chian School of Medicine was established in collaboration with Imperial College London and admitted its first batch of medical students in 2013.

Singapore Management University (SMU)

SMU offers undergraduate and postgraduate programmes across its six schools in accountancy, business, law, social sciences, economics and information systems. SMU is known for its interactive pedagogy of seminar-style teaching in small class sizes.

Singapore University of Technology & Design (SUTD)

SUTD was established in collaboration with the Massachusetts Institute of Technology and Zhejiang University. It is a small, top-tier research-intensive university focusing on design education in engineering and architecture, and hosts an International Design Centre (IDC) that conducts research on technologicallyintensive design.

Singapore Institute of Technology (SIT)

SIT is one of the pioneers of the applied degree pathway, with a focus on science and technology. It offers its own applied degrees, as well as degree programmes in partnership with reputable overseas universities that have a strong emphasis on practice-oriented learning, a strong nexus with industry, and integration of work and study.

Singapore University of Social Sciences (SUSS)

SUSS became Singapore's sixth Autonomous University in 2017. It provides an applied education that targets both fresh school leavers and adult learners, in the domain of the social sciences, as well as in disciplines that have a strong impact on human and community development.

Lifelong Learning 🚐



Working adults who wish to deepen their skills or acquire new ones can undergo continual learning in post-secondary education institutions. These institutions provide a wide range of learning options, which help to

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address manpower and skills gaps and enable the workforce to stay employable amidst rapid shifts in the economic landscape.

ITE offers part-time Nitec, Higher Nitec, Specialist Nitec, and ITE Skills Certificate courses. For adult learners who wish to resume or continue with academic upgrading at the secondary level, ITE offers MOE-subsidised lessons for Secondary One Normal to N- and O-Levels under its General Education Programme.

The polytechnics offer part-time programmes at diploma and post-diploma levels.

Similarly, the universities also part-time degree courses at both undergraduate and postgraduate levels. In addition, ITE, polytechnics and universities offer tailored modular training which adult learners can access more flexibly.

Education Profile and Key Educational Indicators

education composition population commonly associated is with its highest qualification attained. Specifically, based on the highest educational level that a person has attained, the population can be broadly divided into five categories, namely "Below Secondary", "Secondary", (Non-Tertiary)", Secondary "Diploma Professional Qualification" and "University".

The highest qualification attained statistics are collected annually in the Census of Population and General Household Survey conducted by the Department of Statistics (DOS) or the mid-year Labour Force Survey conducted by the Ministry of Manpower. Data pertain to residents who are not attending educational institutions as full-time students.

Other key educational indicators, namely mean years of schooling and literacy rate, are also compiled annually for the resident population. These indicators are commonly used internationally as an indication of the educational development of the population.

Definitions



Highest Qualification Attained: Refers to the highest grade or standard a person has passed or the highest level where a certificate, diploma, or degree is awarded. The Singapore Standard Educational Classification is used to classify persons by highest qualification attained.

Mean Years of Schooling: Refers to the years of education a person received on average.

Mean Years of Schooling in 2016 (among Residents Aged 25 Years & Over)



Literacy Rate: Refers to the proportion of population who is literate.



96.7%

2014

96.8%

2015

2016

Other References

2012



96.6%

2013

The Ministry of Education (MOE) publishes detailed education statistics which can be found "Education Statistics Digest 2017". An overview of Singapore's education system is also available from the MOE website.

Statistics on the highest qualification attained by the resident population, mean years of schooling and literacy rates are available in the annual report "Population Trends" published by DOS.

22.1 ENROLMENT IN EDUCATIONAL INSTITUTIONS

| | | | | | | | Number |
|-----------------------------------------------|---------|---------|---------|---------|---------|---------|---------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | | | | | |
| Total | 702,567 | 693,268 | 685,841 | 675,034 | 668,697 | 661,365 | 651,655 |
| Primary Schools | 263,906 | 258,293 | 252,735 | 244,045 | 241,683 | 239,102 | 238,140 |
| Secondary Schools | 214,388 | 207,974 | 202,520 | 197,165 | 190,107 | 186,036 | 180,000 |
| Junior Colleges ¹ | 32,420 | 32,296 | 32,087 | 32,165 | 31,613 | 29,559 | 28,442 |
| Institute of Technical Education ² | 24,789 | 25,279 | 25,370 | 26,288 | 28,036 | 29,295 | 27,519 |
| Arts Institutions ³ | 4,023 | 3,860 | 4,702 | 4,631 | 4,441 | 4,600 | 4,901 |
| Polytechnics ⁴ | 83,542 | 84,988 | 86,016 | 87,785 | 87,636 | 85,562 | 82,808 |
| National Institute of Education ⁵ | 4,965 | 4,452 | 4,429 | 3,793 | 3,853 | 3,317 | 3,263 |
| Universities ⁶ | 74,534 | 76,126 | 77,982 | 79,162 | 81,328 | 83,894 | 86,582 |

Sources: Ministry of Education, Institute of Technical Education, LASALLE College of the Arts, Nanyang Academy of Fine Arts,
Singapore Polytechnic, Ngee Ann Polytechnic, Temasek Polytechnic, Nanyang Polytechnic, Republic Polytechnic,
National Institute of Education, National University of Singapore, Nanyang Technological University,
Singapore Management University, Singapore Institute of Technology, Singapore University of Technology
and Design and SIM University.

Notes: Data for primary and secondary schools, junior colleges and universities exclude private schools or institutions.

- 1 Includes Centralised Institute.
- 2 Refers to full-time peak student enrolment.
- 3 Refers to students in full-time diploma and degree (from 2011) courses offered by LASALLE College of the Arts and Nanyang Academy of Fine Arts.
- 4 Refers to students in full-time and part-time polytechnic diploma and advanced diploma courses offered by Singapore Polytechnic, Ngee Ann Polytechnic, Temasek Polytechnic, Nanyang Polytechnic and Republic Polytechnic. Students enrolled in Polytechnic Foundation Programme are excluded.
- 5 Refers to students in full-time and part-time diploma, postgraduate diploma and higher degree courses.
- 6 Refers to full-time and part-time undergraduate and postgraduate students in National University of Singapore,
 Nanyang Technological University, Singapore Management University, Singapore Institute of Technology (from 2010),
 Singapore University of Technology and Design (from 2011) and full-time undergraduates in SIM University (from 2014).

22.2 STUDENTS AND TEACHERS IN EDUCATIONAL INSTITUTIONS, 2016

Number

| | Institut- | | Students | | | Teachers | |
|----------------------------------|-----------|---------|----------|---------|--------|----------|---------|
| | ions | Total | Males | Females | Total | Males | Females |
| Total | 382 | 651,655 | 335,648 | 316,007 | 50,190 | 20,405 | 29,785 |
| Primary Schools | 185 | 230,989 | 118,663 | 112,326 | 14,997 | 2,887 | 12,110 |
| Secondary Schools | 150 | 160,909 | 81,146 | 79,763 | 13,350 | 4,744 | 8,606 |
| Mixed Levels ¹ | 16 | 36,425 | 19,566 | 16,859 | 3,045 | 1,161 | 1,884 |
| Junior Colleges ² | 14 | 18,259 | 8,430 | 9,829 | 1,986 | 812 | 1,174 |
| Institute of Technical Education | 3 | 27,519 | 17,173 | 10,346 | 1,787 | 1,126 | 661 |
| Arts Institutions ³ | 2 | 4,901 | 1,438 | 3,463 | 887 | 522 | 365 |
| Polytechnics ⁴ | 5 | 82,808 | 43,511 | 39,297 | 5,707 | 3,226 | 2,481 |
| National Institute of Education | 1 | 3,263 | 1,056 | 2,207 | 348 | 187 | 161 |
| Universities ⁵ | 6 | 86,582 | 44,665 | 41,917 | 8,083 | 5,740 | 2,343 |

Sources: Ministry of Education, Institute of Technical Education, LASALLE College of the Arts, Nanyang Academy of Fine Arts, Singapore Polytechnic, Ngee Ann Polytechnic, Temasek Polytechnic, Nanyang Polytechnic, Republic Polytechnic, National Institute of Education, National University of Singapore, Nanyang Technological University, Singapore Management University, Singapore Institute of Technology, Singapore University of Technology and Design and SIM University.

Notes: Data for primary and secondary schools, junior colleges and universities exclude private schools or institutions.

Except for the Institute of Technical Education, data for institutions of higher learning include part-time students and teachers.

- 1 Refers to institutions that offer multiple educational levels, namely: primary & secondary (P1-S4/5) and secondary & junior college (S1-JC2).
- 2 Includes Centralised Institute.
- 3 Refers to LASALLE College of the Arts and Nanyang Academy of Fine Arts. Data refer to students in full-time diploma and degree courses.
- 4 Refers to Singapore Polytechnic, Ngee Ann Polytechnic, Temasek Polytechnic, Nanyang Polytechnic and Republic Polytechnic.

 Data for students exclude those enrolled in Polytechnic Foundation Programme.
- Refers to National University of Singapore, Nanyang Technological University, Singapore Management University,
 Singapore Institute of Technology, Singapore University of Technology and Design and SIM University.
 Data for students in SIM University refer to full-time undergraduates and data on teachers in SIM University are not available.

22.3 ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED PRIMARY SCHOOLS BY LEVEL AND AGE

| | | | | | | | Number |
|----------------|---------|---------|---------|---------|---------|---------|---------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 263,906 | 258,293 | 252,735 | 244,045 | 241,683 | 239,102 | 238,140 |
| Level | | | | | | | |
| Primary 1 | 39,595 | 39,295 | 39,582 | 40,168 | 40,927 | 40,063 | 38,904 |
| Primary 2 | 42,405 | 39,492 | 39,258 | 39,407 | 40,179 | 40,774 | 40,077 |
| Primary 3 | 43,022 | 42,542 | 39,610 | 39,273 | 39,440 | 40,199 | 40,733 |
| Primary 4 | 48,418 | 43,165 | 42,652 | 39,510 | 39,252 | 39,461 | 40,136 |
| Primary 5 | 45,141 | 48,281 | 43,042 | 42,384 | 39,277 | 39,094 | 39,252 |
| Primary 6 | 45,325 | 45,518 | 48,591 | 43,303 | 42,608 | 39,511 | 39,038 |
| Age (in years) | | | | | | | |
| Under 7 | 38,634 | 38,640 | 38,952 | 39,576 | 40,444 | 39,720 | 38,481 |
| 7 & Under 8 | 41,785 | 38,944 | 38,975 | 39,157 | 39,879 | 40,538 | 40,013 |
| 8 & Under 9 | 42,395 | 41,833 | 39,020 | 38,968 | 39,131 | 39,765 | 40,487 |
| 9 & Under 10 | 47,990 | 42,440 | 41,901 | 38,973 | 38,953 | 39,081 | 39,655 |
| 10 & Under 11 | 44,376 | 48,045 | 42,436 | 41,743 | 38,840 | 38,931 | 38,949 |
| 11 & Under 12 | 44,094 | 44,211 | 47,889 | 42,167 | 41,505 | 38,632 | 38,710 |
| 12 & Under 13 | 3,204 | 2,917 | 2,620 | 2,601 | 2,217 | 1,928 | 1,453 |
| 13 & Under 14 | 1,062 | 1,021 | 781 | 741 | 654 | 466 | 351 |
| 14 & Over | 366 | 242 | 161 | 119 | 60 | 41 | 41 |

Source : Ministry of Education

Notes: Age is as at the start of the year.

22.4 ENROLMENT IN GOVERNMENT, GOVERNMENT-AIDED,
INDEPENDENT, SPECIALISED INDEPENDENT AND SPECIALISED SECONDARY
SCHOOLS AND JUNIOR COLLEGES BY LEVEL AND AGE

| | | | | | | | Numl |
|-------------------------------|---------|---------|---------|---------|---------|---------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| al | 246,808 | 240,270 | 234,607 | 229,330 | 221,720 | 215,595 | 208,44 |
| Level | | | | | | | |
| Secondary 1 | 48,670 | 45,213 | 45,198 | 48,094 | 42,969 | 42,217 | 39,55 |
| Special | na | na | na | na | na | na | n |
| Express | 29,785 | 27,732 | 27,293 | 28,870 | 27,490 | 26,736 | 24,61 |
| Normal (Academic) | 12,394 | 11,436 | 11,848 | 12,747 | 9,873 | 9,972 | 10,03 |
| Normal (Technical) | 6,491 | 6,045 | 6,057 | 6,477 | 5,606 | 5,509 | 4,90 |
| Secondary 2 | 50,935 | 49,356 | 45,705 | 45,548 | 48,328 | 43,256 | 42,47 |
| Special | na | na | na | na | na | na | n |
| Express | 31,296 | 30,226 | 28,038 | 27,671 | 29,241 | 27,719 | 26,97 |
| Normal (Academic) | 12,978 | 12,882 | 11,825 | 12,132 | 12,973 | 10,141 | 10,24 |
| Normal (Technical) | 6,661 | 6,248 | 5,842 | 5,745 | 6,114 | 5,396 | 5,2 |
| Secondary 3 | 53,178 | 52,961 | 50,795 | 46,715 | 46,712 | 49,202 | 44,2 |
| Special | na | na | na | na | na | na | 1 |
| Express | 32,933 | 32,869 | 31,387 | 28,897 | 28,619 | 30,007 | 28,38 |
| Normal (Academic) | 14,048 | 13,579 | 13,324 | 12,144 | 12,447 | 13,222 | 10,6 |
| Normal (Technical) | 6,197 | 6,513 | 6,084 | 5,674 | 5,646 | 5,973 | 5,2 |
| Secondary 4 | 52,073 | 51,263 | 51,325 | 49,190 | 45,183 | 45,413 | 47,80 |
| Special | 4,053 | na | na | na | na | na | 1 |
| Express | 28,356 | 31,984 | 32,011 | 30,585 | 28,293 | 28,115 | 29,4 |
| Normal (Academic) | 13,003 | 13,307 | 13,084 | 12,776 | 11,446 | 11,784 | 12,5 |
| Normal (Technical) | 6,661 | 5,972 | 6,230 | 5,829 | 5,444 | 5,514 | 5,8 |
| Secondary 5 Normal (Academic) | 9,532 | 9,181 | 9,497 | 7,618 | 6,915 | 5,948 | 5,8 |
| Junior College 1 / Pre-U 1 | 16,898 | 16,746 | 16,727 | 16,890 | 15,937 | 14,512 | 14,6 |
| Junior College 2 / Pre-U 2 | 15,165 | 15,203 | 15,023 | 14,973 | 15,386 | 14,675 | 13,4 |
| Pre-U 3 | 357 | 347 | 337 | 302 | 290 | 372 | 3 |
| Age (in years) | | | | | | | |
| Under 13 | 45,019 | 41,329 | 41,639 | 45,172 | 39,910 | 39,483 | 37,1 |
| 13 & Under 14 | 48,563 | 47,236 | 43,466 | 43,450 | 47,056 | 41,587 | 41,0 |
| 14 & Under 15 | 49,740 | 49,819 | 48,216 | 44,159 | 44,160 | 47,723 | 42,0 |
| 15 & Under 16 | 51,604 | 50,726 | 50,415 | 48,542 | 44,426 | 44,343 | 47,90 |
| 16 & Under 17 | 28,836 | 28,274 | 28,366 | 26,209 | 24,837 | 22,433 | 22,2 |
| 17 & Under 18 | 17,916 | 17,915 | 17,658 | 17,220 | 16,774 | 16,029 | 14,5 |
| 18 & Under 19 | 3,787 | 3,772 | 3,704 | 3,598 | 3,578 | 3,173 | 2,8 |
| 19 & Under 20 | 1,119 | 998 | 947 | 855 | 836 | 696 | 6 |
| 20 & Over | 224 | 201 | 196 | 125 | 143 | 128 | 13 |

Source : Ministry of Education

Notes: The Special and Express streams were merged, starting from Secondary 1, 2008.

Normal (Technical) includes students on ITE Skill Certificate (ISC) Courses.

Age is as at the start of the year.

22.5 ENROLMENT IN POLYTECHNIC DIPLOMA COURSES BY TYPE OF COURSE

| | | | | | | | Numbe |
|-----------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Type of Course | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| MALES | 42,960 | 43,427 | 44,092 | 45,299 | 44,893 | 43,235 | 41,287 |
| Education | 36 | 50 | 54 | 79 | 69 | 71 | 75 |
| Applied Arts ¹ | 2,387 | 2,503 | 2,637 | 2,546 | 2,685 | 2,287 | 2,172 |
| Humanities & Social Sciences | 625 | 843 | 966 | 1,053 | 1,092 | 274 | 262 |
| Mass Communication & | | | | | | | |
| Information Science | 516 | 523 | 513 | 522 | 519 | 537 | 484 |
| Business & Administration ² | 6,931 | 6,822 | 6,906 | 7,440 | 7,414 | 6,624 | 6,284 |
| Legal Studies | 156 | 176 | 211 | 221 | 223 | 218 | 203 |
| Science & Related Technologies | 1,605 | 1,774 | 1,764 | 1,818 | 1,852 | 1,823 | 1,773 |
| Health Sciences | 1,869 | 1,868 | 1,880 | 1,812 | 1,830 | 2,203 | 2,102 |
| Information Technology | 6,758 | 6,880 | 7,048 | 7,263 | 7,085 | 6,503 | 6,107 |
| Architecture & Building ³ | 951 | 817 | 903 | 986 | 1,010 | 934 | 832 |
| Engineering Sciences | 20,486 | 20,450 | 20,252 | 20,426 | 19,405 | 19,234 | 18,567 |
| Services ⁴ | 640 | 721 | 958 | 1,133 | 1,709 | 2,527 | 2,426 |
| EMALES | 37,940 | 38,508 | 38,773 | 39,541 | 39,407 | 38,518 | 36,841 |
| Education | 737 | 815 | 886 | 966 | 960 | 1,067 | 1,407 |
| Applied Arts ¹ | 3,054 | 3,104 | 3,346 | 3,389 | 3,448 | 3,186 | 3,064 |
| Humanities & Social Sciences | 850 | 1,109 | 1,248 | 1,284 | 1,307 | 773 | 758 |
| Mass Communication & | | | | | | | |
| Information Science | 1,215 | 1,283 | 1,182 | 1,328 | 1,413 | 1,496 | 1,436 |
| Business & Administration ² | 11,055 | 11,007 | 11,139 | 11,881 | 12,267 | 10,968 | 10,425 |
| Legal Studies | 245 | 276 | 340 | 331 | 312 | 312 | 308 |
| Science & Related Technologies | 2,647 | 2,846 | 2,971 | 2,990 | 3,046 | 2,881 | 2,723 |
| Health Sciences | 5,860 | 5,879 | 5,621 | 5,468 | 5,219 | 5,803 | 5,704 |
| Information Technology | 5,002 | 4,963 | 4,823 | 4,541 | 4,226 | 3,644 | 3,186 |
| Architecture & Building ³ | 1,067 | 1,063 | 1,185 | 1,310 | 1,329 | 1,283 | 1,207 |
| Engineering Sciences | 5,846 | 5,722 | 5,472 | 5,385 | 4,920 | 5,253 | 4,892 |
| Services ⁴ | 362 | 441 | 560 | 668 | 960 | 1,852 | 1,731 |

Sources: Ministry of Education (from 2011), Singapore Polytechnic, Ngee Ann Polytechnic, Temasek Polytechnic, Nanyang Polytechnic and Republic Polytechnic.

Notes: Data prior to 2015 are classified according to the Singapore Standard Educational Classification (SSEC) 2010, while data from 2015 onwards are classified according to SSEC 2015.

Covers full-time and part-time polytechnic diploma courses.

Data include students who are concurrently enrolled in advanced diploma courses.

- 1 Includes Digital Media Design and Media Production.
- 2 Includes Accountancy.
- 3 Includes Real Estate.
- 4 Includes Maritime Transportation, Nautical Studies and Police Studies.

22.6 ENROLMENT IN UNIVERSITY FIRST DEGREE COURSES BY TYPE OF COURSE

| Type of Course | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-----------------------------------------|--------|--------|--------|--------|--------|--------|-------|
| MALES | 28,375 | 29,500 | 30,447 | 30,863 | 31,800 | 32,702 | 34,01 |
| Education | 465 | 468 | 420 | 317 | 258 | 207 | 16 |
| Applied Arts ¹ | 469 | 539 | 586 | 628 | 641 | 665 | 67 |
| Humanities & Social Sciences | 3,121 | 3,242 | 3,327 | 3,550 | 3,756 | 3,861 | 4,04 |
| Mass Communication | 185 | 183 | 184 | 173 | 174 | 174 | 17 |
| Accountancy | 1,321 | 1,627 | 1,685 | 1,768 | 1,912 | 2,039 | 2,18 |
| Business & Administration | 2,688 | 2,543 | 2,705 | 2,782 | 2,980 | 3,111 | 3,2 |
| Law | 640 | 706 | 757 | 755 | 799 | 844 | 8 |
| Natural, Physical & | | | | | | | |
| Mathematical Sciences | 3,159 | 3,340 | 3,258 | 3,140 | 3,223 | 3,237 | 3,3 |
| Medicine | 685 | 681 | 695 | 725 | 784 | 860 | 9 |
| Dentistry | 76 | 79 | 81 | 83 | 84 | 85 | |
| Health Sciences | 281 | 319 | 345 | 387 | 422 | 441 | 5 |
| Information Technology | 2,178 | 2,465 | 2,617 | 2,737 | 2,809 | 3,071 | 3,3 |
| Architecture & Building ² | 669 | 694 | 710 | 760 | 777 | 784 | 7 |
| Engineering Sciences | 12,326 | 12,362 | 12,732 | 12,687 | 12,895 | 12,971 | 13,3 |
| Services ³ | 112 | 252 | 345 | 371 | 286 | 352 | 3 |
| EMALES | 28,742 | 29,209 | 30,309 | 30,943 | 32,063 | 33,412 | 34,2 |
| Education | 1,376 | 1,369 | 1,189 | 1,021 | 845 | 771 | 5 |
| Applied Arts ¹ | 607 | 640 | 761 | 864 | 937 | 934 | 9 |
| Humanities & Social Sciences | 6,573 | 6,447 | 6,760 | 7,095 | 7,535 | 8,054 | 8,4 |
| Mass Communication | 490 | 490 | 494 | 529 | 555 | 602 | 5 |
| Accountancy | 1,882 | 2,244 | 2,316 | 2,274 | 2,456 | 2,684 | 2,9 |
| Business & Administration | 3,738 | 3,237 | 3,368 | 3,406 | 3,597 | 4,027 | 4,2 |
| Law | 783 | 742 | 717 | 736 | 715 | 706 | 7 |
| Natural, Physical & | | | | | | | |
| Mathematical Sciences | 4,481 | 4,482 | 4,625 | 4,715 | 4,922 | 4,989 | 4,9 |
| Medicine | 620 | 647 | 679 | 744 | 801 | 859 | 9 |
| Dentistry | 108 | 111 | 120 | 124 | 132 | 134 | 1 |
| Health Sciences | 783 | 820 | 948 | 1,054 | 1,076 | 1,126 | 1,3 |
| Information Technology | 1,029 | 1,178 | 1,236 | 1,321 | 1,343 | 1,504 | 1,5 |
| Architecture & Building ² | 1,117 | 1,163 | 1,119 | 1,123 | 1,213 | 1,189 | 1,2 |
| Engineering Sciences | 4,968 | 5,064 | 5,275 | 5,386 | 5,543 | 5,460 | 5,3 |
| Services ³ | 187 | 575 | 702 | 551 | 393 | 373 | 3 |

Sources: Ministry of Education (from 2011), National University of Singapore, Nanyang Technological University, Singapore Management University, Singapore Institute of Technology (from 2010),

Singapore University of Technology and Design (from 2012) and SIM University (from 2014).

Notes: Data prior to 2015 are classified according to the Singapore Standard Educational Classification (SSEC) 2010, while data from 2015 onwards are classified according to SSEC 2015.

Covers full-time and part-time first degree courses.

- 1 Includes Industrial Design.
- 2 Includes Real Estate.
- 3 Includes Maritime Studies.

22.7 GRADUATES FROM POLYTECHNIC DIPLOMA COURSES BY TYPE OF COURSE

| | | | | | | | Numb |
|-----------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Type of Course | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| 1ALES | 11,595 | 12,455 | 12,819 | 13,213 | 13,602 | 13,632 | 13,693 |
| Education | 7 | 5 | 16 | 12 | 21 | 20 | 30 |
| Applied Arts ¹ | 489 | 573 | 704 | 783 | 725 | 731 | 759 |
| Humanities & Social Sciences | 92 | 151 | 188 | 258 | 315 | 86 | 92 |
| Mass Communication & | | | | | | | |
| Information Science | 156 | 163 | 201 | 175 | 162 | 174 | 203 |
| Business & Administration ² | 1,662 | 2,080 | 2,098 | 2,118 | 2,306 | 2,171 | 2,27 |
| Legal Studies | 35 | 46 | 43 | 66 | 62 | 59 | 6 |
| Science & Related Technologies | 407 | 446 | 546 | 547 | 555 | 577 | 59 |
| Health Sciences | 380 | 514 | 576 | 612 | 594 | 622 | 66 |
| Information Technology | 2,075 | 2,163 | 2,096 | 2,062 | 2,133 | 2,156 | 2,05 |
| Architecture & Building ³ | 221 | 268 | 241 | 277 | 272 | 319 | 32 |
| Engineering Sciences | 5,826 | 5,816 | 5,870 | 5,938 | 5,990 | 5,946 | 5,83 |
| Services ⁴ | 245 | 230 | 240 | 365 | 467 | 771 | 80 |
| EMALES | 10,619 | 11,314 | 12,011 | 12,189 | 12,354 | 12,378 | 12,57 |
| Education | 167 | 200 | 202 | 302 | 273 | 298 | 29 |
| Applied Arts ¹ | 703 | 770 | 855 | 963 | 995 | 977 | 1,02 |
| Humanities & Social Sciences | 183 | 278 | 289 | 369 | 388 | 257 | 26 |
| Mass Communication & | | | | | | | |
| Information Science | 325 | 348 | 452 | 463 | 393 | 470 | 49 |
| Business & Administration ² | 3,034 | 3,364 | 3,462 | 3,490 | 3,598 | 3,639 | 3,65 |
| Legal Studies | 90 | 68 | 90 | 126 | 87 | 87 | 9 |
| Science & Related Technologies | 663 | 732 | 845 | 922 | 931 | 923 | 91 |
| Health Sciences | 1,619 | 1,678 | 1,971 | 1,868 | 1,843 | 1,697 | 1,89 |
| Information Technology | 1,493 | 1,610 | 1,589 | 1,513 | 1,488 | 1,300 | 1,28 |
| Architecture & Building ³ | 318 | 297 | 271 | 353 | 435 | 396 | 42 |
| Engineering Sciences | 1,917 | 1,861 | 1,856 | 1,672 | 1,656 | 1,718 | 1,65 |
| Services ⁴ | 107 | 108 | 129 | 148 | 267 | 616 | 59: |

Sources: Ministry of Education (from 2011), Singapore Polytechnic, Ngee Ann Polytechnic,

Temasek Polytechnic, Nanyang Polytechnic and Republic Polytechnic.

Notes: Data prior to 2015 are classified according to the Singapore Standard Educational Classification (SSEC) 2010, while data from 2015 onwards are classified according to SSEC 2015.

Covers full-time and part-time polytechnic diploma courses.

Data refer to academic year.

- 1 Includes Digital Media Design and Media Production.
- 2 Includes Accountancy.
- 3 Includes Real Estate.
- 4 Includes Maritime Transportation, Nautical Studies and Police Studies.

22.8 GRADUATES FROM UNIVERSITY FIRST DEGREE COURSES BY TYPE OF COURSE

| | | | | | | | Number | |
|--------------------------------------|-------|-------------|-------|-------|-------|-------|--------|--|
| Type of Course | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | |
| MALES | 6,496 | 6,428 | 6,778 | 7,724 | 7,756 | 7,872 | 7,703 | |
| Education | 67 | 103 | 116 | 167 | 124 | 99 | 79 | |
| Applied Arts ¹ | 84 | 84 | 108 | 138 | 165 | 187 | 173 | |
| Humanities & Social Sciences | 703 | 708 | 737 | 818 | 803 | 743 | 803 | |
| Mass Communication | 30 | 41 | 37 | 62 | 44 | 42 | 35 | |
| Accountancy | 380 | 332 | 447 | 399 | 473 | 480 | 439 | |
| Business & Administration | 674 | 633 | 572 | 693 | 631 | 771 | 753 | |
| Law | 139 | 121 | 140 | 189 | 180 | 187 | 178 | |
| Natural, Physical & | | | | | | | | |
| Mathematical Sciences | 568 | 619 | 837 | 870 | 786 | 790 | 755 | |
| Medicine | 134 | 136 | 129 | 134 | 134 | 137 | 13: | |
| Dentistry | 16 | 16 | 21 | 21 | 15 | 19 | 2! | |
| Health Sciences | 39 | 42 | 61 | 95 | 124 | 128 | 11 | |
| Information Technology | 419 | 388 | 484 | 573 | 708 | 689 | 67 | |
| Architecture & Building ² | 97 | 121 | 155 | 143 | 146 | 188 | 18 | |
| Engineering Sciences | 3,117 | 3,060 | 2,880 | 3,286 | 3,288 | 3,258 | 3,28 | |
| Services ³ | 29 | 24 | 54 | 136 | 135 | 154 | 8 | |
| EMALES | 6,300 | 7,281 | 7,228 | 8,085 | 7,620 | 7,638 | 8,192 | |
| Education | 262 | 303 | 526 | 422 | 401 | 317 | 34: | |
| Applied Arts ¹ | 121 | 132 | 149 | 152 | 229 | 233 | 25 | |
| Humanities & Social Sciences | 1,474 | 1,772 | 1,494 | 1,766 | 1,619 | 1,450 | 1,76 | |
| Mass Communication | 147 | 133 | 133 | 100 | 114 | 130 | 15 | |
| Accountancy | 554 | 507 | 589 | 688 | 649 | 556 | 66 | |
| Business & Administration | 859 | 944 | 825 | 897 | 846 | 848 | 96 | |
| Law | 90 | 208 | 207 | 179 | 176 | 168 | 17 | |
| Natural, Physical & | | | | | | | | |
| Mathematical Sciences | 1,091 | 1,217 | 1,074 | 1,257 | 1,103 | 1,145 | 1,19 | |
| Medicine | 94 | 119 | 123 | 124 | 127 | 115 | 14 | |
| Dentistry | 25 | 26 | 21 | 27 | 30 | 32 | 2 | |
| Health Sciences | 196 | 213 | 218 | 296 | 309 | 353 | 36 | |
| Information Technology | 154 | 195 | 280 | 251 | 289 | 377 | 38 | |
| Architecture & Building ² | 178 | 247 | 241 | 251 | 258 | 351 | 27 | |
| Engineering Sciences | 1,020 | 1,215 | 1,213 | 1,323 | 1,251 | 1,375 | 1,38 | |
| Services ³ | 35 | 1,215 50 | 1,213 | 345 | 219 | 1,375 | 1,38 | |
| Services | 33 | 50 | 133 | 343 | 219 | 100 | 5 | |

 $Sources: \quad Ministry \ of \ Education \ (from \ 2011), \ National \ University \ of \ Singapore, \ Nanyang \ Technological \ University, \ National \ University, \ Nanyang \ Technological \ University, \ N$

Singapore Management University, Singapore Institute of Technology (from 2012) and

Singapore University of Technology and Design (from 2015).

Notes: Data prior to 2015 are classified according to the Singapore Standard Educational Classification (SSEC) 2010, while data from

2015 onwards are classified according to SSEC 2015.

Covers full-time and part-time first degree courses.

Data refer to academic year.

- 1 Includes Industrial Design.
- 2 Includes Real Estate.
- 3 Includes Maritime Studies.

22.9 ENROLMENT IN POLYTECHNIC ADVANCED DIPLOMA COURSES BY TYPE OF COURSE

| | | | | | | | Number |
|----------------------------------------|-------|-------|-------|-------|-------|-------|--------|
| Type of Course | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 2,642 | 3,053 | 3,151 | 2,945 | 3,336 | 3,809 | 4,680 |
| Education | 82 | 186 | 239 | 376 | 281 | 357 | 388 |
| Applied Arts ¹ | 92 | 51 | 78 | 22 | 48 | 71 | 132 |
| Humanities & Social Sciences | 105 | 94 | 128 | 105 | 121 | 27 | 46 |
| Business & Administration ² | 633 | 521 | 533 | 472 | 491 | 479 | 502 |
| Science & Related Technologies | 202 | 180 | 148 | 118 | 197 | 176 | 264 |
| Health Sciences | 646 | 1,133 | 1,203 | 1,120 | 1,120 | 1,176 | 1,177 |
| Information Technology | 302 | 313 | 288 | 415 | 572 | 886 | 1,370 |
| Architecture & Building ³ | 36 | 35 | 42 | 37 | 62 | 61 | 87 |
| Engineering Sciences | 492 | 482 | 427 | 222 | 439 | 556 | 589 |
| Services ⁴ | 52 | 58 | 65 | 58 | 5 | 20 | 125 |

Sources: Singapore Polytechnic, Ngee Ann Polytechnic, Temasek Polytechnic, Nanyang Polytechnic and Republic Polytechnic.

Notes: Data prior to 2015 are classified according to the Singapore Standard Educational Classification (SSEC) 2010, while data from 2015 onwards are classified according to SSEC 2015.

Covers full-time and part-time post diploma, advanced diploma, management diploma, specialist diploma and postgraduate diploma courses.

Includes students who are concurrently enrolled in diploma courses.

- 1 Includes Digital Media Design and Media Production.
- 2 Includes Accountancy.
- 3 Includes Real Estate.
- 4 Includes Maritime Transportation and Police Studies.

22.10 ENROLMENT IN HIGHER DEGREE COURSES BY TYPE OF COURSE

| | | | | | | | Number |
|----------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Type of Course | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total ¹ | 19,566 | 19,289 | 19,040 | 19,137 | 19,198 | 19,548 | 20,079 |
| Education | 1,549 | 1,351 | 1,266 | 1,273 | 1,229 | 1,364 | 1,397 |
| Humanities & Social Sciences | 1,977 | 1,869 | 1,957 | 2,085 | 2,133 | 2,104 | 2,148 |
| Mass Communication | 380 | 358 | 381 | 348 | 364 | 390 | 364 |
| Business & Administration ² | 2,808 | 2,809 | 2,746 | 2,997 | 3,014 | 3,302 | 3,806 |
| Law | 244 | 299 | 305 | 289 | 275 | 281 | 262 |
| Natural, Physical & | | | | | | | |
| Mathematical Sciences | 2,741 | 2,793 | 2,764 | 2,398 | 2,317 | 2,247 | 2,182 |
| Health Sciences ³ | 1,199 | 1,493 | 1,447 | 1,495 | 1,562 | 1,562 | 1,414 |
| Information Technology | 1,537 | 1,380 | 1,273 | 1,384 | 1,626 | 1,685 | 1,861 |
| Architecture & Building 4 | 581 | 588 | 590 | 489 | 466 | 458 | 529 |
| Engineering Sciences | 6,354 | 6,151 | 6,119 | 6,229 | 6,059 | 5,967 | 5,902 |
| Services | 190 | 191 | 179 | 105 | 104 | 149 | 143 |
| Others | 6 | 7 | 13 | 12 | 27 | 36 | 41 |

Sources: National Institute of Education, National University of Singapore, Nanyang Technological University, Singapore Management University and Singapore University of Technology and Design (from 2011).

Notes: Data prior to 2015 are classified according to the Singapore Standard Educational Classification (SSEC) 2010, while data from 2015 onwards are classified according to SSEC 2015.

Covers full-time and part-time postgraduate diploma and higher degree courses offered by National University of Singapore, Nanyang Technological University, Singapore Management University and Singapore University of Technology and Design, and higher degree courses offered by National Institute of Education.

- 1 With effect from 2013, there are courses whose main field of study is not elsewhere classifiable.
- 2 Includes Accountancy.
- 3 Includes Medicine, Dentistry, Pharmacy and Nursing.
- 4 Includes Real Estate.

22.11 GRADUATES FROM POLYTECHNIC ADVANCED DIPLOMA COURSES BY TYPE OF COURSE

| | | | | | | | Number |
|----------------------------------------|-------|-------|-------|-------|-------|-------|--------|
| Type of Course | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 1,766 | 2,258 | 2,063 | 2,012 | 1,610 | 1,945 | 2,216 |
| Education | 140 | 177 | 152 | 215 | 123 | 164 | 182 |
| Applied Arts ¹ | 19 | 51 | 43 | 16 | 12 | 33 | 53 |
| Humanities & Social Sciences | 24 | 60 | 66 | 56 | 50 | 0 | 24 |
| Business & Administration ² | 436 | 389 | 427 | 251 | 209 | 206 | 157 |
| Science & Related Technologies | 86 | 170 | 147 | 81 | 63 | 92 | 138 |
| Health Sciences | 509 | 631 | 653 | 773 | 640 | 720 | 694 |
| Information Technology | 224 | 281 | 141 | 158 | 245 | 384 | 573 |
| Architecture & Building ³ | 3 | 30 | 28 | 41 | 38 | 31 | 37 |
| Engineering Sciences | 273 | 419 | 353 | 370 | 225 | 314 | 271 |
| Services ⁴ | 52 | 50 | 53 | 51 | 5 | 1 | 87 |

Sources: Singapore Polytechnic, Ngee Ann Polytechnic, Temasek Polytechnic, Nanyang Polytechnic and Republic Polytechnic.

Notes: Data prior to 2015 are classified according to the Singapore Standard Educational Classification (SSEC) 2010, while data from 2015 onwards are classified according to SSEC 2015.

Covers full-time and part-time post diploma, advanced diploma, management diploma, specialist diploma and postgraduate diploma courses.

- 1 Includes Digital Media Design and Media Production.
- 2 Includes Accountancy.
- 3 Includes Real Estate.
- 4 Includes Maritime Transportation and Police Studies.

22.12 GRADUATES FROM HIGHER DEGREE COURSES BY TYPE OF COURSE

| | | | | | | | Number |
|-----------------------------------------|-------|-------|-------|-------|-------|-------|--------|
| Type of Course | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total ¹ | 6,794 | 6,977 | 7,186 | 7,514 | 7,824 | 7,811 | 8,280 |
| Education | 543 | 561 | 459 | 561 | 531 | 406 | 522 |
| Humanities & Social Sciences | 677 | 731 | 732 | 739 | 855 | 818 | 864 |
| Mass Communication | 182 | 189 | 196 | 210 | 193 | 190 | 228 |
| Business & Administration ² | 1,426 | 1,452 | 1,518 | 1,561 | 1,738 | 1,769 | 1,936 |
| Law | 168 | 168 | 207 | 189 | 173 | 167 | 174 |
| Natural, Physical & | | | | | | | |
| Mathematical Sciences | 383 | 484 | 567 | 558 | 629 | 610 | 618 |
| Health Sciences ³ | 508 | 469 | 633 | 732 | 730 | 778 | 774 |
| Information Technology | 694 | 706 | 580 | 613 | 682 | 763 | 806 |
| Architecture & Building 4 | 263 | 307 | 306 | 252 | 266 | 282 | 326 |
| Engineering Sciences | 1,836 | 1,797 | 1,896 | 1,989 | 1,947 | 1,905 | 1,933 |
| Services | 107 | 106 | 92 | 83 | 66 | 100 | 91 |
| Others | 7 | 7 | 0 | 3 | 4 | 1 | 5 |

Sources: National Institute of Education, National University of Singapore, Nanyang Technological University, Singapore Management University and Singapore University of Technology and Design (from 2013).

Notes: Data prior to 2015 are classified according to the Singapore Standard Educational Classification (SSEC) 2010, while data from 2015 onwards are classified according to SSEC 2015.

Covers full-time and part-time postgraduate diploma and higher degree courses offered by National University of Singapore, Nanyang Technological University, Singapore Management University and Singapore University of Technology and Design, and higher degree courses offered by National Institute of Education.

- 1 With effect from 2013, there are courses whose main field of study is not elsewhere classifiable.
- 2 Includes Accountancy.
- 3 Includes Medicine, Dentistry, Pharmacy and Nursing.
- 4 Includes Real Estate.

22.13 ENROLMENT AND GRADUATES OF ARTS INSTITUTION BY COURSE AND LEVEL, 2016

Number

| Course/Level | | Enrolment | | Graduates | | | |
|---------------------------|-------|-----------|---------|-----------|-------|---------|--|
| Course/ Level | Total | Males | Females | Total | Males | Females | |
| Total | 4,901 | 1,438 | 3,463 | 1,290 | 395 | 895 | |
| Business & Administration | | | | | | | |
| Diploma | 217 | 52 | 165 | 64 | 14 | 50 | |
| Design & Applied Arts | | | | | | | |
| Diploma | 1,990 | 545 | 1,445 | 477 | 140 | 337 | |
| Degree | 774 | 184 | 590 | 249 | 61 | 188 | |
| Fine & Applied Arts | | | | | | | |
| Degree | 107 | 18 | 89 | 31 | 4 | 27 | |
| Fine & Performing Arts | | | | | | | |
| Diploma | 1,137 | 362 | 775 | 266 | 85 | 181 | |
| Degree | 360 | 126 | 234 | 122 | 42 | 80 | |
| Media Production | | | | | | | |
| Diploma | 196 | 95 | 101 | 51 | 28 | 23 | |
| Degree | 120 | 56 | 64 | 30 | 21 | 9 | |

Sources: LASALLE College of the Arts and Nanyang Academy of Fine Arts.

Notes: Covers full-time diploma and degree courses offered by LASALLE College of the Arts and Nanyang Academy of Fine Arts.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=15186 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=15187

22.14 INTAKE OF STUDENTS/TRAINEES UNDER THE FULL-TIME INSTITUTIONAL TRAINING AND TRAINEESHIP PROGRAMMES AND STUDENTS/TRAINEES WHO COMPLETED THE PROGRAMMES, 2016

| | | | | | | Number |
|------------------------------------------------|----------|--------------|----------|-------------------------------------------------------------|-------|---------|
| Type of Training/Level | Intake o | of Students/ | Trainees | Students/Trainees who Completed the Programmes ¹ | | |
| | Total | Males | Females | Total | Males | Females |
| Total | 15,142 | 9,338 | 5,804 | 12,800 | 7,819 | 4,981 |
| Engineering | | | | | | |
| Diploma | 80 | 74 | 6 | 48 | 45 | 3 |
| Higher National ITE Certificate (Higher Nitec) | 2,786 | 2,182 | 604 | 2,265 | 1,807 | 458 |
| National ITE Certificate (<i>Nitec</i>) | 4,235 | 3,467 | 768 | 3,605 | 2,984 | 621 |
| Info-Communications Technology | | | | | | |
| Higher National ITE Certificate (Higher Nitec) | 835 | 553 | 282 | 744 | 501 | 243 |
| National ITE Certificate (<i>Nitec</i>) | 1,216 | 836 | 380 | 1,029 | 694 | 335 |
| Business & Services | | | | | | |
| Diploma | 20 | 12 | 8 | 18 | 11 | 7 |
| Higher National ITE Certificate (Higher Nitec) | 2,334 | 930 | 1,404 | 2,176 | 774 | 1,402 |
| National ITE Certificate (<i>Nitec</i>) | 3,636 | 1,284 | 2,352 | 2,915 | 1,003 | 1,912 |

Source: Institute of Technical Education

Notes: The Full-time Institutional Training and Traineeship Programmes are offered to school leavers with GCE 'O' and 'N' level qualifications.

¹ Refers to the number of students/trainees who graduated from Full-Time Institutional Training and Traineeship Programmes.

TRAINING PLACES TAKEN UP UNDER THE SKILLS TRAINING
AND CONTINUING ACADEMIC EDUCATION PROGRAMMES
AND PERSONS WHO COMPLETED THE PROGRAMMES, 2016

| | | | | Stude | ents/Traine | Number es who | |
|----------------------------------------------------|----------|--------------|----------|-------|---------------------------------------|------------------|--|
| Type of Training/Level | Intake o | of Students/ | Trainees | | Completed the Programmes ¹ | | |
| | Total | Males | Females | Total | Males | Females | |
| Total | 10,952 | 7,210 | 3,742 | 4,765 | 2,849 | 1,916 | |
| Skills Training Programme ² Engineering | 9,148 | 6,426 | 2,722 | 3,912 | 2,490 | 1,422 | |
| Higher National ITE Certificate (Higher Nite) | 1,589 | 1,494 | 95 | 192 | 175 | 17 | |
| National ITE Certificate (Nitec) | 2,465 | 2,279 | 186 | 528 | 448 | 80 | |
| ITE Skills Certificate (ISC) | 1,464 | 1,423 | 41 | 1,388 | 1,358 | 30 | |
| Info-Communications Technology | | | | | | | |
| Higher National ITE Certificate (Higher Nitec) | 223 | 194 | 29 | 15 | 14 | 1 | |
| National ITE Certificate (Nitec) | 198 | 141 | 57 | 13 | 7 | 6 | |
| Business & Services | | | | | | | |
| Higher National ITE Certificate (Higher Nitec) | 863 | 256 | 607 | 79 | 25 | 54 | |
| National ITE Certificate (Nitec) | 1,831 | 436 | 1,395 | 1,078 | 235 | 843 | |
| ITE Skills Certificate (ISC) | 515 | 203 | 312 | 619 | 228 | 391 | |
| Continuing Academic Education Programme | | | | | | | |

Source : Institute of Technical Education

Continuing Education (Secondary 1-5)

1,804

784

1,020

853

359

494

¹ Refers to number of persons who graduated or completed the Skills Training and Continuing Academic Education programmes.

² Most of the Skills Training programmes are offered in modules of 6 months' duration. A person may attend more than one module a year.

22.16 GOVERNMENT EXPENDITURE ON EDUCATION

Thousand Dollars

| | | | | | | 1110 | Jusanu Donars |
|---------------------------------------------------|-----------|------------|------------|------------|------------|------------|---------------|
| | FY2010 | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 |
| Total | 9,875,445 | 10,740,250 | 10,496,911 | 11,638,313 | 11,598,458 | 11,934,956 | 12,660,000 |
| Recurrent Expenditure | 8,998,709 | 9,697,793 | 9,637,312 | 10,664,868 | 10,712,445 | 11,235,741 | 12,000,000 |
| Primary Schools | 1,839,190 | 1,820,988 | 1,946,159 | 2,185,580 | 2,263,510 | 2,457,901 | 2,703,967 |
| Secondary Schools & Junior Colleges ¹ | 2,568,469 | 2,517,230 | 2,680,062 | 2,912,565 | 3,001,876 | 3,106,955 | 3,186,926 |
| Institute of Technical Education | 328,067 | 346,106 | 351,658 | 376,896 | 399,949 | 432,961 | 465,206 |
| Tertiary | 3,554,419 | 4,274,059 | 3,846,318 | 4,367,236 | 4,170,881 | 4,302,171 | 4,585,085 |
| Universities ² | 2,305,921 | 2,973,812 | 2,536,971 | 2,969,921 | 2,736,642 | 2,897,770 | 3,120,890 |
| National Institute of Education | 123,625 | 119,266 | 113,312 | 99,668 | 94,941 | 86,526 | 82,688 |
| Polytechnics ³ | 1,124,873 | 1,180,981 | 1,196,035 | 1,297,647 | 1,339,298 | 1,317,875 | 1,381,507 |
| Others ⁴ | 708,564 | 739,410 | 813,115 | 822,591 | 876,229 | 935,753 | 1,058,816 |
| Development Expenditure | 876,736 | 1,042,457 | 859,599 | 973,445 | 886,013 | 699,215 | 660,000 |

Source : Ministry of Education

Notes: Data refer to the financial year which begins in April and ends in March of the following year.

- 1 Includes Centralised Institute.
- 2 Refers to National University of Singapore, Nanyang Technological University, Singapore Management University, SIM University, Singapore University of Technology and Design and Singapore Institute of Technology.
- 3 Refers to Singapore Polytechnic, Ngee Ann Polytechnic, Temasek Polytechnic, Nanyang Polytechnic and Republic Polytechnic.
- 4 Includes MOE Headquarters, ISEAS Yusof Ishak Institute, Science Centre Board, Special Education, LASALLE College of the Arts, Nanyang Academy of Fine Arts, Singapore Examinations and Assessment Board and SkillsFuture Singapore (wef FY2016).

22.17 GOVERNMENT RECURRENT EXPENDITURE ON EDUCATION PER STUDENT

Dollars

| | | | | | | | 2011415 |
|-----------------------------------------------|--------|--------|--------|--------|--------|--------|---------|
| | FY2010 | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 |
| Primary Schools | 6,624 | 6,712 | 7,396 | 8,549 | 9,123 | 10,081 | 10,600 |
| Secondary Schools ¹ | 9,008 | 9,022 | 9,940 | 11,434 | 12,261 | 13,213 | 13,931 |
| Junior Colleges ² | 12,331 | 11,830 | 12,806 | 13,942 | 14,379 | 15,326 | 16,717 |
| Institute of Technical Education ³ | 11,839 | 11,898 | 11,837 | 12,491 | 12,650 | 13,619 | 13,830 |
| Polytechnics ⁴ | 14,552 | 14,687 | 14,487 | 15,304 | 15,681 | 16,118 | 15,943 |
| Universities ⁵ | 20,630 | 20,505 | 20,777 | 21,870 | 22,181 | 21,988 | 21,853 |
| | | | | | | | |

Source: Ministry of Education

Notes: Data refer to the financial year which begins in April and ends in March of the following year.

- 1 Excludes Independent Schools.
- 2 Includes Centralised Institute.
- 3 Refers to full-time Nitec/Higher Nitec courses offered by the Institute of Technical Education (ITE).
 Publicly-funded full-time diploma courses offered by ITE are included under "Polytechnics" from FY2012 onwards.
- 4 Refers to publicly-funded full-time diploma courses offered by Singapore Polytechnic, Ngee Ann Polytechnic, Temasek Polytechnic, Nanyang Polytechnic and Republic Polytechnic. From FY2012, it includes publicly-funded full-time diploma courses offered by ITE, LASALLE College of the Arts and Nanyang Academy of Fine Arts.
- 5 Refers to publicly-funded full-time degree courses offered by National University of Singapore, Nanyang Technological University, Singapore Management University and Singapore Institute of Technology. It includes publicly-funded full-time degree courses offered by Singapore University of Technology & Design, LASALLE College of the Arts and Nanyang Academy of Fine Arts from FY2012 and SIM University from FY2014.

22.18 SINGAPORE RESIDENTS AGED 25 YEARS AND OVER BY HIGHEST QUALIFICATION ATTAINED AND SEX

| | | | | | | | Number |
|--------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 2,576,000 | 2,601,900 | 2,626,400 | 2,669,100 | 2,732,600 | 2,750,900 | 2,795,200 |
| Below Secondary | 888,200 | 869,800 | 848,200 | 833,300 | 832,100 | 800,000 | 819,300 |
| Secondary | 490,600 | 510,900 | 499,800 | 501,200 | 502,500 | 519,200 | 500,400 |
| Post Secondary (Non-Tertiary) | 244,800 | 230,300 | 239,400 | 232,400 | 238,000 | 250,500 | 249,800 |
| Diploma & Professional Qualification | 342,400 | 352,300 | 364,600 | 372,600 | 401,800 | 405,500 | 411,500 |
| University | 610,000 | 638,600 | 674,400 | 729,700 | 758,100 | 775,800 | 814,200 |
| Total Males | 1,242,400 | 1,249,500 | 1,259,100 | 1,277,800 | 1,309,900 | 1,316,000 | 1,334,500 |
| Below Secondary | 388,600 | 378,900 | 368,000 | 360,600 | 363,400 | 345,100 | 349,400 |
| Secondary | 222,400 | 225,900 | 217,900 | 220,700 | 217,000 | 227,400 | 218,600 |
| Post Secondary (Non-Tertiary) | 132,200 | 127,500 | 132,100 | 127,700 | 130,200 | 137,300 | 139,300 |
| Diploma & Professional Qualification | 177,300 | 186,100 | 187,400 | 189,200 | 203,600 | 205,300 | 211,800 |
| University | 321,900 | 331,300 | 353,700 | 379,700 | 395,700 | 401,000 | 415,500 |
| Total Females | 1,333,600 | 1,352,400 | 1,367,300 | 1,391,400 | 1,422,700 | 1,434,900 | 1,460,600 |
| Below Secondary | 499,600 | 491,000 | 480,100 | 472,700 | 468,700 | 454,900 | 469,900 |
| Secondary | 268,300 | 285,100 | 281,900 | 280,600 | 285,500 | 291,800 | 281,800 |
| Post Secondary (Non-Tertiary) | 112,600 | 102,900 | 107,300 | 104,700 | 107,800 | 113,200 | 110,600 |
| Diploma & Professional Qualification | 165,100 | 166,100 | 177,300 | 183,400 | 198,200 | 200,200 | 199,700 |
| University | 288,100 | 307,300 | 320,700 | 350,000 | 362,400 | 374,800 | 398,700 |

Notes: Data pertain to residents who are not attending educational institutions as full-time students.

Data include those who are upgrading their qualifications through part-time courses while working.

22.19 MEAN YEARS OF SCHOOLING

Years 2013 2014 2010 2011 2012 2015 2016 10.1 10.2 10.3 10.5 10.6 10.7 10.7 Mean Years Of Schooling (25 Years & Over) Males 10.6 10.7 10.9 11.2 11.0 11.1 11.2 10.3 10.3 Females 9.7 9.7 9.9 10.0 10.1

Notes: Data pertain to residents who are not attending educational institutions as full-time students.

Data include those who are upgrading their qualifications through part-time courses while working.

 $Download\ time\ series\ at\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=3036$

22.20 LITERACY RATE

Per Cent 2012 2013 2010 2011 2014 2015 2016 Literacy Rate (15 Years & Over) 95.9 96.2 96.4 96.6 96.7 96.8 97.0 Males 98.0 98.4 98.5 98.5 98.6 98.6 98.7 93.8 94.1 94.4 94.7 94.9 95.2 95.4 Females

Notes: Refers to resident population aged 15 years and over.

Data for 2010 and 2015 are from the Population Censuses and the General Household Survey respectively.

Data for 2013 were revised in March 2017 due to availability of more data sources.

23

Health

3 Health



Ministry of Health (MOH) The committed to promoting good health, providing healthcare services and encouraging medical excellence.

Through MOH, the Government manages the public healthcare system to ensure that quality and affordable basic medical services are available to all Singaporeans. Financing schemes including subsidies, Medisave savings ensure affordability of insurance help to healthcare. There will also be more investment healthcare facilities and information infrastructure to enhance the accessibility and continuum of care. At the same time, MOH continues to encourage individuals to adopt a healthy lifestyle and to take charge of their own health to lead better, healthier lives. Safety nets are provided to ensure that no Singaporean is denied access to healthcare because of financial difficulty.

Public Healthcare Services



Singapore's public healthcare establishments provide a full range acute services ranging from primary care at the polyclinics to secondary and tertiary care at hospitals. These include nine acute hospitals, one psychiatric hospital, three community hospitals and eighteen polyclinics.



Two statutory boards under MOH were established on 1 April 2001.

The Health Promotion Board (HPB) aims to empower Singaporeans to attain optimal health, increase the quality and years of healthy life, and prevent illness, disability and premature death. As the key driver of national health promotion and disease prevention programmes, HPB

spearheads programmes reaching out to the healthy, the at-risk and the unhealthy at all stages of life. Health promotion programmes include nutrition, mental health, physical activity, tobacco control, and communicable disease education. HPB also promotes healthy ageing, integrated health screening, and chronic disease education and management.

The Health Sciences Authority (HSA) is a multidisciplinary scientific and regulatory agency that serves three key functions to protect and advance national health and safety. It is the national regulator for drugs, innovative therapeutics, medical devices and health-related products, ensuring they are well-regulated to high standards of safety, quality and efficacy. As the national blood service, it secures the nation's blood supply by ensuring a safe and adequate blood supply for public and private hospitals. It is also the provider of national expertise in forensic forensic science medicine, and analytical chemistry testing to serve the administration of justice and safeguard public health.

Public Health W



Statistics on immunisation are collected by the National Immunisation Registry in HPB from various healthcare institutions, including polyclinics, general practitioners and hospitals. Data on patient attendances at primary healthcare clinics are obtained from statistical returns.

Hospital Statistics



Data on public hospital beds, patient admissions and outpatient attendances are obtained from administrative records and the computerised patient registration systems of the hospitals. For non-public hospitals, the data are

Health • //



compiled from returns prescribed by MOH and from administrative data.

Medical Personnel



Data on registered healthcare personnel refer to the number of doctors, dentists, pharmacists, nurses and midwives, optometrists opticians, allied health professionals, well as traditional Chinese medicine practitioners registered respectively under the Medical Registration Act (Chapter 174),

the Dental Registration Act (Chapter 76), the Pharmacists Registration Act (Chapter 230), the Nurses and Midwives Act (Chapter 209), the Optometrists and Opticians Act (Chapter 213A), Allied Health Professions Act (Chapter 6B) and the Traditional Chinese Medicine Practitioners Act (Chapter 333A). Manpower registers are maintained by the respective professional bodies and the statistics pertaining to these healthcare personnel are derived from the registers.

Key Indicators Healthcare Providers Per Capita Government Health Expenditure Per 10,000 Population, 2016 \$1,618 \$ 1,556 23 Doctors \$ 1,320 \$ 1,100 Ś 910 72 Nurses 2012 2013 2014 2015 2016 Dentists

23.1 HEALTH FACILITIES

| | | | | | | | Number |
|---------------------------------------|------|------|------|------|------|------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Hospitals | | | | | | | |
| Acute Hospitals ¹ | 15 | 15 | 17 | 17 | 18 | 19 | 19 |
| Public | 8 | 8 | 8 | 8 | 8 | 9 | 9 |
| Not-for-Profit | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Private | 6 | 6 | 8 | 8 | 9 | 9 | 9 |
| Psychiatric Hospitals | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Public | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Not-for-Profit | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Community Hospitals | 6 | 6 | 6 | 6 | 6 | 7 | 8 |
| Public ² | 0 | 1 | 1 | 1 | 1 | 3 | 3 |
| Not-for-Profit ³ | 5 | 4 | 4 | 4 | 4 | 4 | 4 |
| Private ⁴ | 1 | 1 | 1 | 1 | 1 | 0 | 1 |
| Residential Long-Term Care Facilities | | | | | | | |
| Nursing Homes | 62 | 64 | 64 | 66 | 65 | 71 | 69 |
| Public | 0 | 1 | 1 | 5 | 6 | 11 | 13 |
| Not-for-Profit | 30 | 31 | 31 | 28 | 27 | 26 | 26 |
| Private | 32 | 32 | 32 | 33 | 32 | 34 | 30 |
| Inpatient Hospices | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Public | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Not-for-Profit | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Private | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(continued on the next page)

Source: Ministry of Health

Notes: Public health facilities refer to those owned or controlled by a government unit or another public corporation (where control is defined as the ability to determine the general corporate policy).

Not-for profit health facilities refer to those producing health goods and services, but are not permitted to be a source of income, profit or financial gain for the unit(s) that establish, control or finance them.

Private health facilities refer to those set up for the purpose of producing health goods and services and are capable of generating a profit or other financial gains for their owners.

A residential health facility providing more than one residential care service will be categorised based on its highest level of medical capability (LMC), provided the highest LMC beds make up at least 25 per cent of total bed capacity.

For example, a health facility providing both community hospital and chronic sick services will be categorised as a Community Hospital' if its number of community hospital beds is at least per cent of its total bed capacity.

- 1 Comprises both general hospitals and specialty centres (excluding Psychiatric Hospitals) with acute care inpatient facilities. With effect from 2010, data include Khoo Teck Puat Hospital.
 - With effect from 2012, data include Mount Elizabeth Novena Hospital and Fortis Colorectal Hospital (currently known as Concord International Hospital).
 - With effect from 2014, data include Farrer Park Hospital.
 - With effect from 2015, data include Ng Teng Fong General Hospital.
- 2 With effect from 2011, data include Bright Vision Hospital.
 - With effect from 2015, data include Jurong Community Hospital and Yishun Community Hospital.
- 3 With effect from Apr 2011, the ownership of Bright Vision Hospital was transferred to Singapore Health Services (Public).
- 4 West Point Hospital closed on Dec 2015 and re-opened in Sep 2016.

23.1 HEALTH FACILITIES (continued)

| | | | | | | | Number |
|--------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Primary Care Facilities | | | | | | | |
| Public - Polyclinics | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| Private - General Practioner Clinics | 1,651 | 1,685 | 1,743 | 1,805 | 1,868 | 1,933 | 2,017 |
| Dental Clinics | | | | | | | |
| Public (Total) | 240 | 241 | 240 | 236 | 248 | 247 | 251 |
| Polyclinic Dental Clinics | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| Hospital/Institution Dental Clinics ⁵ | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| School Dental Clinics | 225 | 226 | 225 | 221 | 233 | 232 | 236 |
| Private | 610 | 631 | 660 | 694 | 722 | 792 | 822 |
| Pharmacies | 226 | 249 | 245 | 247 | 253 | 232 | 235 |
| Public | 58 | 56 | 50 | 51 | 63 | 62 | 62 |
| Private | 168 | 193 | 195 | 196 | 190 | 170 | 173 |

Source: Ministry of Health

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For example, a health facility providing both community hospital and chronic sick services will be categorised as a Community Hospital' if its number of community hospital beds is at least 25 per cent of its total bed capacity.

⁵ Includes National Dental Centre. With effect from March 2010, data include dental clinic at Khoo Teck Puat Hospital. With effect from Jun 2015, data include dental clinic at Ng Teng Fong General Hospital.

23.2 BEDS IN INPATIENT FACILITIES

| | | | | | | | Numbe |
|------------------------------|-------|-------|-------|-------|-------|-------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| lospitals | | | | | | | |
| Acute Hospitals ¹ | 8,249 | 8,304 | 8,725 | 8,939 | 9,262 | 9,844 | 10,318 |
| Public | 6,871 | 6,925 | 7,170 | 7,377 | 7,652 | 8,128 | 8,561 |
| Not-for-Profit | 283 | 283 | 283 | 283 | 283 | 316 | 316 |
| Private | 1,095 | 1,096 | 1,272 | 1,279 | 1,327 | 1,400 | 1,441 |
| Psychiatric Hospitals | 2,010 | 2,010 | 2,010 | 2,010 | 1,950 | 1,950 | 1,950 |
| Public | 2,010 | 2,010 | 2,010 | 2,010 | 1,950 | 1,950 | 1,950 |
| Not-for-Profit | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Community Hospitals | 842 | 800 | 842 | 852 | 1,065 | 1,464 | 1,663 |
| Public ² | 0 | 100 | 100 | 110 | 142 | 503 | 690 |
| Not-for-Profit ³ | 818 | 680 | 722 | 722 | 905 | 961 | 961 |
| Private ⁴ | 24 | 20 | 20 | 20 | 18 | 0 | 12 |

(continued on the next page)

Source: Ministry of Health

Notes: Public health facilities refer to those owned or controlled by a government unit or another public corporation (where control is defined as the ability to determine the general corporate policy).

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Private health facilities refer to those set up for the purpose of producing health goods and services and are capable of generating a profit or other financial gains for their owners.

A residential health facility providing more than one residential care service will be categorised based on its highest level of medical capability (LMC), provided the highest LMC beds make up at least 25 per cent of total bed capacity.

For example, a health facility providing both community hospital and chronic sick services will be categorised as a 'Community Hospital' if its number of community hospital beds is at least 25 per cent of its total bed capacity.

Prior to 2010, hospitals were licensed for built-in bed capacity. With effect from 2010, hospitals are licensed for actual bed complement (i.e. beds that are regularly maintained and staffed).

- 1 Comprises both general hospitals and specialty centres (excluding Psychiatric Hospitals) with acute care inpatient facilities. With effect from 2010, data include Khoo Teck Puat Hospital.
 - With effect from 2012, data include Mount Elizabeth Novena Hospital and Fortis Colorectal Hospital (currently known as Concord International Hospital).
 - With effect from 2014, data include Farrer Park Hospital.
 - With effect from 2015, data include Ng Teng Fong General Hospital.
- 2 With effect from 2011, data include Bright Vision Hospital.
 - $With \ effect \ from \ 2015, \ data \ include \ Jurong \ Community \ Hospital \ and \ Yishun \ Community \ Hospital.$
- 3 With effect from Apr 2011, the ownership of Bright Vision Hospital was transferred to Singapore Health Services (Public).
- 4 West Point Hospital closed in Dec 2015 and re-opened in Sep 2016.

23.2 BEDS IN INPATIENT FACILITIES (continued)

| | | | | | | | Numb |
|---------------------------------------|-------|-------|-------|--------|--------|--------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Residential Long-Term Care Facilities | | | | | | | |
| (by services offered) ⁵ | | | | | | | |
| Nursing Homes ⁶ | 9,551 | 9,690 | 9,721 | 10,838 | 10,968 | 12,185 | 13,022 |
| Public | 0 | 250 | 202 | 1,230 | 1,372 | 2,488 | 3,110 |
| Not-for-Profit ³ | 6,293 | 6,137 | 6,119 | 5,924 | 6,021 | 5,802 | 6,058 |
| Private | 3,258 | 3,303 | 3,400 | 3,684 | 3,575 | 3,895 | 3,854 |
| Inpatient Hospices | 123 | 133 | 149 | 149 | 141 | 141 | 173 |
| Public | 0 | 32 | 48 | 48 | 40 | 40 | 24 |
| Not-for-Profit ³ | 123 | 101 | 101 | 101 | 101 | 101 | 149 |
| Private | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Source: Ministry of Health

Notes: Public health facilities refer to those owned or controlled by a government unit or another public corporation (where control

is defined as the ability to determine the general corporate policy).

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For example, a health facility providing both community hospital and chronic sick services will be categorised as a Community Hospital' if its number of community hospital beds is at least 25 per cent of its total bed capacity.

Prior to 2010, hospitals were licensed for built-in bed capacity. With effect from 2010, hospitals are licensed for actual bed complement (i.e. beds that are regularly maintained and staffed).

- 3 With effect from Apr 2011, the ownership of Bright Vision Hospital was transferred to Singapore Health Services (Public).
- 5 Beds are classified by services offered regardless of facility.
- 6 Includes beds for chronic sick services.

23.3 HOSPITAL ADMISSIONS AND PUBLIC SECTOR OUTPATIENT ATTENDANCES

| | | | | | | | Number |
|--------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Hospital Admissions ¹ | | | | | | | |
| Acute Hospitals ² | 427,305 | 446,384 | 459,902 | 474,193 | 489,574 | 499,889 | 546,256 |
| Public | 333,573 | 347,398 | 354,076 | 364,911 | 372,661 | 379,973 | 416,663 |
| Non-Public ³ | 93,732 | 98,986 | 105,826 | 109,282 | 116,913 | 119,916 | 129,593 |
| Psychiatric Hospitals | 9,759 | 9,628 | 8,382 | 8,110 | 9,050 | 8,986 | 9,028 |
| Public | 9,759 | 9,628 | 8,382 | 8,110 | 9,050 | 8,986 | 9,028 |
| Non-Public ³ | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Community Hospitals ⁴ | 7,534 | 7,679 | 7,751 | 8,702 | 9,067 | 10,670 | 13,881 |
| Public ⁵ | 0 | 572 | 688 | 1,053 | 1,467 | 2,187 | 5,432 |
| Non-Public ³ | 7,534 | 7,107 | 7,063 | 7,649 | 7,600 | 8,483 | 8,449 |
| Public Sector Outpatient Attendances | | | | | | | |
| Specialist Outpatient Clinics | 4,023,686 | 4,234,139 | 4,353,385 | 4,436,621 | 4,535,104 | 4,658,110 | 4,921,017 |
| Accident & Emergency | 050 701 | 024 405 | 005 200 | 1 000 000 | 000 271 | 005 430 | 1 000 710 |
| Departments | 858,781 | 934,485 | 985,289 | 1,006,800 | 968,371 | 965,426 | 1,008,718 |
| Polyclinics | 4,314,496 | 4,502,043 | 4,614,038 | 4,623,623 | 4,648,374 | 4,874,697 | 5,263,999 |
| Dental Clinics ⁶ | 862,874 | 875,802 | 893,058 | 943,971 | 966,240 | 996,779 | 1,048,220 |
| Day Surgeries | 229,638 | 238,071 | 246,313 | 262,381 | 272,914 | 293,107 | 321,623 |

Source: Ministry of Health

Notes: Public health facilities refer to those owned or controlled by a government unit or another public corporation (where control is defined as the ability to determine the general corporate policy).

Not-for profit health facilities refer to those producing health goods and services, but are not permitted to be a source of income, profit or financial gain for the unit(s) that establish, control or finance them

Private health facilities refer to those set up for the purpose of producing health goods and services and are capable of generating a profit or other financial gains for their owners.

A residential health facility providing more than one residential care service will be categorised based on its highest level of medical capability (LMC), provided the highest LMC beds make up at least 25 per cent of total bed capacity.

For example, a health facility providing both community hospital and chronic sick services will be categorised as a 'Community Hospital' if its number of community hospital beds is at least 25 per cent of its total bed capacity.

- 1 Refer to inpatient discharges.
- 2 Comprises both general hospitals and specialty centres (excluding Psychiatric Hospitals) with acute care inpatient facilities
- 3 "Non-Public" comprises "Private" and "Not-for-Profit" health facilities.
- 4 Refer to inpatient discharges for all services (including chronic sick and inpatient hospice) in community hospital.
- 5 With effect from Apr 2011, the ownership of Bright Vision Hospital was transferred to Singapore Health Services (Public).
- 6 Include dental services/clinics in hospitals, polyclinics, schools and National Dental Centre.

23.4 HOSPITAL ADMISSION ¹ RATE BY SEX AND AGE

Per 1,000 resident population

| | | | | | Per | 1,000 residen | nt population | |
|----------------------------------|-------|-------|-------|-------|-------|---------------|---------------|--|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | |
| Acute Hospitals ² | | | | | | | | |
| Male | 93.2 | 96.9 | 100.7 | 104.5 | 108.2 | 110.5 | 123.6 | |
| Age Group (Years) | | | | | | | | |
| 0 - 14 | 104.3 | 111.6 | 118.5 | 120.2 | 126.6 | 128.5 | 142.0 | |
| 15 - 64 | 63.8 | 65.4 | 66.7 | 70.0 | 71.0 | 71.4 | 81.4 | |
| 65 & Above | 339.6 | 345.2 | 347.6 | 343.7 | 347.7 | 347.6 | 366.5 | |
| Female | 98.3 | 102.7 | 105.5 | 107.7 | 111.0 | 111.9 | 123.3 | |
| Age Group (Years) | | | | | | | | |
| 0 - 14 | 88.0 | 95.6 | 101.2 | 102.0 | 109.4 | 112.0 | 121.4 | |
| 15 - 64 | 74.2 | 75.7 | 77.2 | 78.3 | 80.0 | 80.1 | 88.5 | |
| 65 & Above | 295.3 | 308.0 | 304.0 | 302.6 | 299.9 | 292.9 | 314.0 | |
| Psychiatric Hospitals | | | | | | | | |
| Male | 2.8 | 2.8 | 2.3 | 2.2 | 2.4 | 2.6 | 2.4 | |
| Age Group (Years) | | | | | | | | |
| 0 - 14 | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | |
| 15 - 64 | 3.5 | 3.5 | 2.8 | 2.7 | 3.0 | 3.2 | 2.9 | |
| 65 & Above | 2.9 | 2.6 | 1.8 | 1.8 | 2.0 | 2.3 | 2.0 | |
| Female | 1.7 | 1.6 | 1.4 | 1.4 | 1.4 | 1.6 | 1.3 | |
| Age Group (Years) | | | | | | | | |
| 0 - 14 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | |
| 15 - 64 | 2.0 | 1.9 | 1.7 | 1.6 | 1.7 | 1.9 | 1.5 | |
| 65 & Above | 1.8 | 1.7 | 1.4 | 1.7 | 1.5 | 1.6 | 1.4 | |
| Community Hospitals ³ | | | | | | | | |
| Male | 1.7 | 1.7 | 1.6 | 1.8 | 1.9 | 2.3 | 3.1 | |
| Age Group (Years) | | | | | | | | |
| 0 - 14 | - | - | - | - | - | - | 0.1 | |
| 15 - 64 | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 | 1.1 | |
| 65 & Above | 14.9 | 14.9 | 13.0 | 13.9 | 14.4 | 16.0 | 20.2 | |
| Female | 2.0 | 2.1 | 2.1 | 2.3 | 2.4 | 2.8 | 3.7 | |
| Age Group (Years) | | | | | | | | |
| 0 - 14 | - | - | - | - | - | - | - | |
| 15 - 64 | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 | 0.8 | |
| 65 & Above | 16.9 | 17.5 | 16.0 | 16.8 | 16.7 | 18.4 | 23.2 | |

Source : Ministry of Health

¹ Refer to inpatient discharges, excluding normal deliveries and legalised abortions.

² Comprises both general and specialised hospitals (exluding Psychiatric Hospitals) with inpatient facilities that provide acute care to nationts.

³ Refer to inpatient discharges for all services (including chronic sick and inpatient hospice) in community hospital.

23.5 REGISTERED HEALTH PERSONNEL (End of Period)

| (End of Per | iod) | | | | | | Number |
|------------------------------|-------|-------|--------|--------|--------|--------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | | | | | |
| Doctors | 9,030 | 9,646 | 10,225 | 10,953 | 11,733 | 12,459 | 12,967 |
| Public | 5,180 | 5,621 | 6,131 | 6,661 | 7,330 | 7,909 | 8,358 |
| Private | 3,310 | 3,449 | 3,515 | 3,678 | 3,790 | 3,914 | 3,979 |
| Not in active practice | 540 | 576 | 579 | 614 | 613 | 636 | 630 |
| Specialists | 3,374 | 3,635 | 3,867 | 4,124 | 4,485 | 4,788 | 5,047 |
| Public | 1,996 | 2,165 | 2,342 | 2,511 | 2,829 | 3,052 | 3,299 |
| Private | 1,151 | 1,229 | 1,293 | 1,351 | 1,411 | 1,470 | 1,485 |
| Not in active practice | 227 | 241 | 232 | 262 | 245 | 266 | 263 |
| Non-Specialists | 5,656 | 6,011 | 6,358 | 6,829 | 7,248 | 7,671 | 7,920 |
| Public | 3,184 | 3,456 | 3,789 | 4,150 | 4,501 | 4,857 | 5,059 |
| Private | 2,159 | 2,220 | 2,222 | 2,327 | 2,379 | 2,444 | 2,494 |
| Not in active practice | 313 | 335 | 347 | 352 | 368 | 370 | 367 |
| Dentists | 1,579 | 1,611 | 1,699 | 1,821 | 1,905 | 2,060 | 2,198 |
| Public | 354 | 318 | 357 | 396 | 444 | 449 | 486 |
| Private | 1,059 | 1,160 | 1,215 | 1,411 | 1,435 | 1,541 | 1,644 |
| Not in active practice | 166 | 133 | 127 | 14 | 26 | 70 | 68 |
| Dental Specialists | 286 | 285 | 303 | 309 | 313 | 324 | 333 |
| Public | 87 | 77 | 86 | 88 | 96 | 102 | 106 |
| Private | 185 | 199 | 203 | 219 | 216 | 215 | 219 |
| Not in active practice | 14 | 9 | 14 | 2 | 1 | 7 | 8 |
| General Dental Practitioners | 1,293 | 1,326 | 1,396 | 1,512 | 1,592 | 1,736 | 1,865 |
| Public | 267 | 241 | 271 | 308 | 348 | 347 | 380 |
| Private | 874 | 961 | 1,012 | 1,192 | 1,219 | 1,326 | 1,425 |
| Not in active practice | 152 | 124 | 113 | 12 | 25 | 63 | 60 |
| Oral Health Therapists | 290 | 312 | 337 | 364 | 377 | 400 | 401 |
| Public | 212 | 222 | 228 | 216 | 220 | 228 | 229 |
| Private | 64 | 77 | 88 | 129 | 128 | 144 | 128 |
| Not in active practice | 14 | 13 | 21 | 19 | 29 | 28 | 44 |
| Pharmacists | 1,814 | 2,013 | 2,172 | 2,376 | 2,563 | 2,757 | 2,875 |
| Public | 712 | 842 | 934 | 1,082 | 1,179 | 1,307 | 1,367 |
| Private | 931 | 978 | 1,048 | 1,104 | 1,174 | 1,221 | 1,248 |
| Not in active practice | 171 | 193 | 190 | 190 | 210 | 229 | 260 |
| | | | | | | | |

(continued on the next page)

Source: Ministry of Health

Notes: Registered health personnel in the public sector refer to Government, Government Restructured Hospitals, Statutory Boards and University personnel.

23.5 REGISTERED HEALTH PERSONNEL (continued)

(End of Period)

| , | | | | | | | Numbe |
|-----------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Registered Nurses | 21,575 | 23,598 | 25,971 | 27,556 | 28,864 | 29,894 | 31,615 |
| Public | 12,994 | 14,494 | 15,916 | 16,738 | 17,667 | 18,566 | 19,618 |
| Private | 5,140 | 5,661 | 6,321 | 6,716 | 6,863 | 7,356 | 7,616 |
| Not in active practice | 3,441 | 3,443 | 3,734 | 4,102 | 4,334 | 3,972 | 4,381 |
| Enrolled Nurses | 7,478 | 7,869 | 8,274 | 8,273 | 8,528 | 8,931 | 8,781 |
| Public | 4,525 | 4,661 | 4,995 | 4,890 | 5,006 | 5,305 | 5,149 |
| Private | 1,757 | 1,979 | 2,027 | 2,049 | 2,078 | 2,377 | 2,322 |
| Not in active practice | 1,196 | 1,229 | 1,252 | 1,334 | 1,444 | 1,249 | 1,310 |
| Registered Midwives | 287 | 282 | 262 | 246 | 226 | 180 | 165 |
| Public | 94 | 95 | 89 | 79 | 71 | 71 | 62 |
| Private | 68 | 69 | 65 | 61 | 61 | 51 | 47 |
| Not in active practice | 125 | 118 | 108 | 106 | 94 | 58 | 56 |
| Advanced Practice Nurses ¹ | 48 | 78 | 88 | 117 | 145 | 172 | 197 |
| Public | 46 | 74 | 82 | 110 | 137 | 166 | 189 |
| Private | 2 | 4 | 5 | 5 | 8 | 5 | 8 |
| Not in active practice | 0 | 0 | 1 | 2 | 0 | 1 | 0 |
| Optometrists and Opticians ² | 2,419 | 2,441 | 2,478 | 2,461 | 2,610 | 2,624 | 2,650 |
| Public | 113 | 133 | 155 | 159 | 159 | 156 | 166 |
| Private | 2,237 | 2,198 | 2,124 | 2,210 | 2,337 | 2,345 | 2,265 |
| Not in active practice | 69 | 110 | 199 | 92 | 114 | 123 | 219 |
| Occupational Therapists ³ | na | na | na | na | 905 | 967 | 1,067 |
| Public | na | na | na | na | 776 | 793 | 632 |
| Private | na | na | na | na | 128 | 134 | 366 |
| Not in active practice | na | na | na | na | 1 | 40 | 69 |
| Physiotherapists ³ | na | na | na | na | 1,394 | 1,550 | 1,693 |
| Public | na | na | na | na | 1,099 | 1,145 | 1,031 |
| Private | na | na | na | na | 293 | 339 | 550 |
| Not in active practice | na | na | na | na | 2 | 66 | 112 |

(continued on the next page)

Source : Ministry of Health

Notes: Registered health personnel in the public sector refer to Government, Government Restructured Hospitals, Statutory Boards and University personnel.

- 1 Advanced Practice Nurses is a subset of Registered Nurses.
- 2 Refers to those who were officially registered with the enactment of Optometrists and Opticians Act in 2008.
- 3 Registration of Allied Health professionals (Occupational Therapists, Physiotherapists and Speech Therapists) started in 2013.

23.5 REGISTERED HEALTH PERSONNEL (continued)

(End of Period)

| | | | | | | | Numbe |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Speech therapists ³ | na | na | na | na | 400 | 474 | 524 |
| Public | na | na | na | na | 287 | 324 | 229 |
| Private | na | na | na | na | 113 | 132 | 255 |
| Not in active practice | na | na | na | na | 0 | 18 | 40 |
| Traditional Chinese Medicine | 2,322 | 2,444 | 2,538 | 2,629 | 2,740 | 2,808 | 2,868 |
| (TCM) Physicians | | | | | | | |
| In Active practice | 1,974 | 2,054 | 2,133 | 2,155 | 2,199 | 2,217 | 2,241 |
| Not in Active Practice | 348 | 390 | 405 | 474 | 541 | 591 | 627 |
| Acupuncturists ⁴ | 218 | 235 | 235 | 244 | 240 | 249 | 247 |
| In Active practice | 173 | 174 | 174 | 147 | 153 | 152 | 146 |
| Not in Active Practice | 45 | 61 | 61 | 97 | 87 | 97 | 101 |
| | | | | | | | |

Source : Ministry of Health

Notes: Registered health personnel in the public sector refer to Government, Government Restructured Hospitals, Statutory Boards and University personnel.

³ Registration of Allied Health professionals (Occupational Therapists, Physiotherapists and Speech Therapists) started in 2013.

⁴ Refers to those registered only as Acupuncturists.

23.6 VISITS TO PUBLIC SECTOR DENTAL CLINICS

| | | | | | | | Number |
|-------------------------------------|---------|---------|---------|---------|---------|---------|-----------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Dental Clinics | 862,874 | 875,802 | 893,058 | 943,971 | 966,240 | 996,779 | 1,048,220 |
| Schools | 448,362 | 436,566 | 438,133 | 455,475 | 449,372 | 456,931 | 463,751 |
| Hospitals/Institutions ¹ | 291,247 | 295,016 | 319,812 | 339,319 | 357,878 | 371,888 | 405,143 |
| Polyclinics | 123,265 | 144,220 | 135,113 | 149,177 | 158,990 | 167,960 | 179,326 |

Source : Ministry of Health

With effect from March 2010, data include dental clinic at Khoo Teck Puat Hospital. With effect from June 2015, data include dental clinic at Ng Teng Fong General Hospital.

 $Download\ time\ series\ at\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=1861$

23.7 NOTIFICATIONS OF SPECIFIC NOTIFIABLE DISEASES

| | | | | | | | Numbe |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Dengue/DHF | 5,363 | 5,330 | 4,632 | 22,170 | 18,326 | 11,294 | 13,115 |
| Malaria | 192 | 149 | 143 | 111 | 62 | 47 | 31 |
| Enteric fever ¹ | 120 | 104 | 141 | 107 | 77 | 76 | 71 |
| Viral Hepatitis | 256 | 241 | 275 | 202 | 194 | 207 | 204 |
| Cholera | 4 | 2 | 2 | 2 | 2 | 3 | 2 |
| Poliomyelitis | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Diphtheria | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Viral Encephalitis | 33 | 29 | 27 | 38 | 37 | 30 | 28 |
| Legionellosis | 25 | 21 | 31 | 24 | 37 | 17 | 12 |
| Hand, Foot & Mouth Disease | 30,878 | 20,287 | 37,276 | 31,779 | 22,171 | 28,216 | 42,148 |
| Nipah Virus Infection | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SARS | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tuberculosis | 2,791 | 3,032 | 3,210 | 2,801 | 2,741 | 2,704 | 3,130 |
| Leprosy | 12 | 11 | 14 | 8 | 4 | 3 | 9 |

Source: Ministry of Health

 ${\tt Notes:} \quad {\tt No \ cases \ of \ plague, \ small pox \ and \ yellow \ fever \ were \ reported \ during \ the \ period.}$

1 Refers to typhoid and paratyphoid.

¹ Includes National Dental Centre.

23.8 IMMUNISATION 1 BY PUBLIC AND NON-PUBLIC SECTORS

| | | No of | | | | | | | | |
|-------------------------|--------|--------|--------|--------|--------|--------|--------|--|--|--|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | | |
| accination against | | | | | | | | | | |
| Tuberculosis (BCG) | | | | | | | | | | |
| National | 33,454 | 31,362 | 29,480 | 30,488 | 32,624 | 30,623 | 32,196 | | | |
| Public | 13,963 | 13,190 | 12,255 | 12,527 | 12,952 | 12,501 | 13,418 | | | |
| Non-Public ² | 19,491 | 18,172 | 17,225 | 17,961 | 19,672 | 18,122 | 18,778 | | | |
| Diphtheria | | | | | | | | | | |
| National | 32,523 | 29,981 | 28,485 | 29,471 | 31,618 | 30,388 | 31,30 | | | |
| Public | 14,541 | 16,097 | 15,268 | 15,890 | 17,299 | 19,901 | 22,20 | | | |
| Non-Public ² | 17,982 | 13,884 | 13,217 | 13,581 | 14,319 | 10,487 | 9,09 | | | |
| Poliomyelitis | | | | | | | | | | |
| National | 32,496 | 31,455 | 28,476 | 29,459 | 31,596 | 29,720 | 31,28 | | | |
| Public | 16,921 | 16,921 | 15,262 | 15,882 | 17,295 | 19,624 | 22,19 | | | |
| Non-Public ² | 15,575 | 14,534 | 13,214 | 13,577 | 14,301 | 10,096 | 9,08 | | | |
| Hepatitis B | | | | | | | | | | |
| National | 31,186 | 30,026 | 28,464 | 29,418 | 31,585 | 29,677 | 31,20 | | | |
| Public | 16,750 | 16,118 | 15,238 | 15,815 | 17,220 | 19,471 | 21,98 | | | |
| Non-Public ² | 14,436 | 13,908 | 13,226 | 13,603 | 14,365 | 10,206 | 9,22 | | | |
| Measles | | | | | | | | | | |
| National | 32,165 | 29,737 | 28,072 | 28,975 | 31,259 | 29,331 | 30,75 | | | |
| Public | 16,958 | 16,104 | 15,165 | 15,935 | 17,567 | 19,502 | 21,959 | | | |
| Non-Public ² | 15,207 | 13,633 | 12,907 | 13,040 | 13,692 | 9,829 | 8,793 | | | |

Source : Health Promotion Board

¹ Refers to immunisation given to children who are Singapore citizens or permanent residents.

^{2 &}quot;Non-Public" comprises "Private" and "Not-for-Profit" health facilities.

23.9 IMMUNISATION ¹ COVERAGE FOR CHILDREN AT 2 YEARS OF AGE

Per Cent

| | | | | | | | Per Cent |
|-----------------------|------|------|------|------|------|------|----------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Vaccination against : | | | | | | | |
| Tuberculosis (BCG) | 99 | 100 | 99 | 99 | 99 | 99 | 99 |
| Diphtheria | 96 | 96 | 97 | 97 | 96 | 98 | 96 |
| Poliomyelitis | 96 | 96 | 97 | 97 | 96 | 96 | 96 |
| Hepatitis B | 96 | 96 | 97 | 97 | 96 | 96 | 96 |
| Measles | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| | | | | | | | |

Source : Health Promotion Board

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=3393

23.10 VACCINATION AND IMMUNISATION OF SCHOOL CHILDREN

Thousand Doses

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-----------------------------------------|------|------|------|------|------|------|------|
| Diphtheria Tetanus ¹ | 48.7 | 50.8 | 44.2 | 43.2 | 41.7 | 41.7 | 41.4 |
| Poliomyelitis Immunisation ² | 89.3 | 92.0 | 85.8 | 85.9 | 47.4 | 45.0 | 44.5 |
| Measles, Mumps and Rubella ³ | 86.6 | 88.5 | 41.7 | 39.1 | 35.7 | 29.2 | 22.3 |

Source: Health Promotion Board

- 1 Booster doses were given to Primary 5 students.
- 2 Booster doses were given to Primary 1 and Primary 5 students.
 With effect from Jan 2014, School Health Service ceased to give polio vaccination for Primary 1 students due to a change in the National Childhood Immunisation Schedule.
- 3 Vaccinations were given to Primary 1 students.

¹ Refers to immunisation given to children who are Singapore citizens and permanent residents.

23.11 STUDENT MEDICAL CHECK-UP

Thousand 2010 2011 2012 2013 2014 2015 2016 Total 435.9 429.5 422.2 414.9 407.5 400.9 377.0 Primary 1 and equivalent 39.4 39.0 39.6 40.4 40.7 39.3 40.3 age groups Primary 5 and equivalent age groups 45.2 48.4 43.4 42.8 39.8 39.6 39.8 Screening of other educational levels 1 350.1 340.8 338.1 328.7 323.9 317.8 294.9 Others ² 1.3 3.0 3.0 1.2 1.1 3.1 3.2

Source: Health Promotion Board

- 1 Refers to screening for Primary 2, 3, 4 and 6, as well as Secondary 1, 2, 4 and Secondary 3 students with health problems.
- 2 Refers to general medical examination done for students in educational levels other than Primary 1 and Primary 5.

23.12 COMMON HEALTH PROBLEMS OF STUDENTS EXAMINED

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------|-------|-------|-----------|---------------|--------|-------|-------|
| | | | Per 10,0 | 000 Males Exa | mined | | |
| Incidence of : | | | | | | | |
| Defective Vision | 5,349 | 5,339 | 5,297 | 5,271 | 5,178 | 5,175 | 4,835 |
| Obesity ¹ | | | | | | | |
| Primary 1 and equivalent | | | | | | | |
| age groups | 1,218 | 1,269 | 1,121 | 1,199 | 1,089 | 1,082 | 1,166 |
| Primary 5 and equivalent | | | | | | | |
| age groups | 1,748 | 1,853 | 1,557 | 1,590 | 1,593 | 1,524 | 1,710 |
| | | | Per 10,00 | 00 Females Ex | amined | | |
| Incidence of : | | | | | | | |
| Defective Vision | 5,762 | 5,747 | 5,688 | 5,663 | 5,586 | 5,562 | 5,143 |
| Obesity ¹ | | | | | | | |
| Primary 1 and equivalent | | | | | | | |
| age groups | 1,059 | 1,126 | 921 | 979 | 929 | 917 | 962 |
| Primary 5 and equivalent | | | | | | | |
| age groups | 1,197 | 1,250 | 1,191 | 1,232 | 1,217 | 1,183 | 1,271 |

Source: Health Promotion Board

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=3384 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=1864

¹ Body Mass Index percentile replaced Nutritional Status in the calculation of overweight/obesity since July 2010. The reporting started in 2012.

24

Hawkers and Food Establishments

24

Hawkers and Food Establishments



Hawker stalls and retail food establishments are licensed by the National Environment Agency (NEA). Food factories are licensed by the Agri-Food & Veterinary Authority (AVA). Both agencies ensure that food sold in Singapore is safe for consumption.

Licensed Hawkers

Licensed hawkers refer to hawkers who are issued with the licence by NEA to operate stalls in wet markets and hawker centres, as well as itinerant street hawkers.

Licensed Hawkers by Type of Premises (End of Period) 2016



Licensed Food Establishments

Licensed food establishments are grouped under five separate categories, namely, food shops, food stalls, food factories, supermarkets and private markets.

Businesses that require a food shop license include restaurants, cake shops, eating houses, coffeeshops, food courts, pubs, bars, market produce shops, food caterers, and mobile food wagons.

A food stall refers to a compartmentalised unit housed in a food shop, such as coffeeshop, eating house, food court or canteen.

Food factories refer to AVA licensed food establishments where food is manufactured, processed, prepared or packed for the purpose of distribution to wholesalers and retailers. These food establishments include noodles and pasta

manufacturers, bakery and flour confectionery manufacturers, meat and fish processing establishments, slaughterhouses and cold stores used for the storage of meat and/or fish products.

These food establishments are subjected to regular inspections to ensure that the food produced is safe and fit for human consumption. They are also graded and classified under grade 'A', 'B', 'C' or 'D' according to their food safety and hygiene standards.

Supermarkets refer to air-conditioned retail markets that sell meat, fish, fruit, vegetable, poultry, egg or other article of food (cooked or uncooked) and other household items. They are operated on a self-service basis.

Private markets refer to markets (including any stalls therein) licensed to private operators for the sale of meat, fish, fruit, vegetable, poultry, egg or other article of food (cooked or uncooked).

Licensed Food Establishments (End of Period), 2016



24.1 LICENSED HAWKERS UNDER NATIONAL ENVIRONMENT AGENCY (End of Period)

| | | | | | | | Number |
|-------------------------------|--------|--------|--------|--------|--------|--------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total Licences Issued | 14,470 | 14,305 | 14,165 | 14,227 | 14,466 | 14,055 | 13,871 |
| T. o. of Donation | | | | | | | |
| Type of Premises | | | | | | | |
| Market/Food Centre | 13,624 | 13,508 | 13,410 | 13,537 | 13,828 | 13,440 | 13,310 |
| Street ¹ | 846 | 797 | 755 | 690 | 638 | 615 | 561 |
| Type of Goods Sold | | | | | | | |
| Market Produce | 5,879 | 5,763 | 5,694 | 5,706 | 5,857 | 5,612 | 5,485 |
| Cooked Food | 5,842 | 5,855 | 5,831 | 5,939 | 6,049 | 5,943 | 5,970 |
| Piece & Sundries ² | 2,749 | 2,687 | 2,640 | 2,582 | 2,560 | 2,500 | 2,416 |

Source: National Environment Agency

Notes: Data include MEWR and HDB Markets/Hawker Centres.

Private markets/food centres of other Statutory Boards are excluded.

1 Refers to street hawkers, who sell ice-cream, as well as not easily perishable food items and goods.

2 Includes items sold by street hawkers.

24.2 LICENSED FOOD ESTABLISHMENTS
(End of Period)

| | | | | | | | Number |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 29,509 | 30,291 | 30,691 | 31,267 | 32,166 | 33,074 | 34,032 |
| Food Shops ¹ | 13,828 | 14,377 | 14,642 | 15,307 | 15,875 | 16,490 | 17,196 |
| Food Stalls ² | 13,686 | 13,829 | 13,889 | 13,776 | 13,979 | 14,179 | 14,350 |
| Food Factories ³ | 1,348 | 1,408 | 1,476 | 1,482 | 1,548 | 1,618 | 1,664 |
| Supermarkets ⁴ | 344 | 367 | 398 | 422 | 441 | 469 | 491 |
| Private Markets ⁵ | 303 | 310 | 286 | 280 | 323 | 318 | 331 |
| | | | | | | | |

Sources : National Environment Agency (NEA)
Agri-Food & Veterinary Authority of Singapore

- Refers to establishments which are licensed to retail food.
 With effect from 2014, hawker centres under JTC Corporation are licensed by NEA as food shops.
- 2 Refers to smaller compartmentalised units which are housed within a food shop.
 With effect from 2014, licensed hawker stalls under JTC Corporation are licensed by NEA as food stalls.
- 3 Refers to food processing establishments where food is manufactured, processed, prepared or packed for the purpose of distribution to wholesalers and retailers.
- 4 Refers to larger stores or premises that sell fresh food such as meat, fish, vegetables and other prepacked foods.
- 5 Refers to private shops and stalls that sell fresh food such as meat, fish, vegetables and other prepacked foods.

25



Community Services

25 Community Services



Ministry of Social and Family Development (MSF) aims to nurture resilient individuals, strong families and a caring society. MSF oversees policies on social assistance, social services, family, child care and child development, vulnerable adults and elderly, disability, as well as the management of problem gambling. In addition to its developmental role, MSF directly administers services which include the protection of children and rehabilitation of youth delinquents, registration of civil marriages, licensing of child care centres and public education on family matters. MSF also oversees regulatory functions under the various legislations such as the Maintenance of Parents Act, the Children and Young Persons Act, the Women's Charter and the Mental Capacity Act. To address social needs, MSF works closely with its partners in the sector, which include Voluntary Welfare Organisations (VWOs), Community Development Councils (CDCs), major funders such as the Singapore Totalisator Board (or Tote Board), corporate entities as well as the public.

The Ministry of Culture, Community and Youth (MCCY) seeks to inspire Singaporeans through the arts and sports, strengthen community bonds, and promote volunteerism and philanthropy. Since its inception in November 2012, MCCY has been actively engaging the arts, heritage, sports, community and youth sectors. MCCY aims to bring into sharper focus the efforts to build a more cohesive and vibrant society, and to deepen a sense of identity and belonging to the nation. MCCY works with its stakeholders to create an environment where Singaporeans can pursue their aspirations for a better quality of life and together, build a gracious and caring society.

People's Association



The People's Association (PA) is a statutory board set up on 1 July 1960 to promote racial harmony and social cohesion. The PA also connects the people and the Government through consultation and feedback gathering to close last-mile delivery.

PA achieves its mission through a wide range of programmes offered by its network 1 of about 1,900 Grassroots Organisations (GROs) and five Community Development Councils.

Community Development Councils COMMUNITY DEVELOPMENT COUNCIL



The Community Development Councils (CDCs) were set up in 1997 under the PA to "Assist the Needy, Bond the People and Connect the Community" (in short, the "ABC" mission) to strengthen community bonding and social cohesion, and to foster the community spirit of self-help and mutual support. Guided by the mission, the CDCs develop and implement programmes that identify existing and emerging needs in the community, and work closely with public, private and people (3P) partners to develop and implement sustainable programmes that promote caring for environment, helping the elderly and vulnerable, volunteerism, self-reliance and upward social mobility.

Through the 3P partnership, the CDCs aim to rally the community to strengthen social infrastructure, build social resilience and social capital, and promote the culture of giving back so as to build a "Great Home and a Caring Community" and a "Cohesive and Compassionate Nation".

Includes Citizens' Consultative Committees, Community Club Management Committees, Residents' Committees, Neighbourhood Committees, Community Sports Clubs, Community Emergency and Engagement Committees, Women's Executive Committees, Youth Executive Committees, Senior Citizens' Executive Committees, Malay Activity Executive Committees, Indian Activity Executive Committees and Teens Network Club Management Committees.

Community Services • 🙈



"Volunteers" refer to individuals who provide services in community and welfare programmes without receiving full market rates of remuneration or allowances.

Child Care Centres and Kindergartens

The Early Childhood Development Agency (ECDA) serves as the regulatory and developmental authority for the early childhood sector in Singapore, overseeing key aspects of children's development below the age of 7 years in kindergartens and child care centres. It is jointly overseen by the Ministry of Education (MOE) and MSF.

Child care centres provide child care services for children aged 18 months to 6 years. Some centres also provide infant care services for infants aged 2 months to 18 months. Centres may offer regular full-day, half-day and flexible programmes to cater to the different needs of parents and children.

Kindergartens provide pre-school developmental programmes for children from 3 to 6 years of age. Most kindergartens run two sessions a day, with each session ranging from 3 to 4 hours, 5 days a week.

In 2016, there were 1,332 child care centres and 480 kindergartens in Singapore, located in HDB void decks, community spaces and workplaces to provide parents with ease of access and choices in meeting the early childhood needs of their children.



Student Care Centres



Student Care Centres provide care and supervision to school-going children in the Primary to lower Secondary levels outside school hours, while their parents are at work. There are currently over 400 student care centres located in the community and in schools that administer the Student Care Fee Assistance (SCFA) scheme to support lower income families in accessing the service.

MSF works with MOE in the development of student care centres within primary school premises.

ComCare Short-to-Medium Term Assistance



ComCare Short-to-Medium Term Assistance is available to low-income families and individuals who are temporarily unable to work (e.g. due to illness, caregiving responsibilities), those earning a low income and require temporary financial support, and those who are unemployed and require temporary financial support while they seek employment. A Social Assistance officer will work with the family to develop a plan of action to improve their circumstances. Beneficiaries may receive a monthly cash grant, rental and/or Service and Conservancy Assistance, medical assistance and employment assistance.

ComCare Long Term Assistance



ComCare Long Term Assistance (also known as the Public Assistance, or PA scheme) provides long-term help to persons who are unable to work due to old age, illness or disability, have limited or no means of income, and have little or no family support. Besides a monthly cash allowance, beneficiaries receive free medical treatment in polyclinics and government or restructured hospitals as well as assistance for other specialised needs such as

Community Services • 🙈

recurrent healthcare consumables and one-off purchase of essential household items. They may be referred to community-based agencies for services aid, for example, home help, befriending, and enrolment at day care centres to support their living in the community.

Student Care Fee Assistance



ComCare provides monthly fee subsidies for children from eligible families to attend student care centres while their parents are at work. These subsidies are available to children attending student care centres registered with MSF, including special student care centres for students with special needs. The families are also given a one-off Start Up Grant to offset the initial costs of placing their child in the centre.

Family Service Centres



Family Service Centres (FSCs) play a key role in building strong and stable families in Singapore. FSCs are community-based social work entities that serve low income and vulnerable individuals and families, through social work intervention, to help them achieve independence, stability and resilience. FSCs are staffed by social service practitioners providing an integrated practice of casework, group work and community work to meet the diverse and complex needs of clients. There are currently 46 FSCs serving more than 25,000 families a year island-wide.

Services for Senior Citizens



Secretariat to the Ministerial Committee on Ageing, the Ageing Planning Office (APO) in the Ministry of Health (MOH) works with government, private and public agencies to plan and develop initiatives to help Singaporeans age successfully as part of the Action Plan for Successful Ageing. This includes working with the PA, the Council for Third Age (C3A), the Health Promotion Board (HPB) and various agencies to promote active and healthy ageing. also undertakes the planning and development of aged care services for senior citizens, which includes both the health and social aspects of aged care services, ranging from home and community-based services to residential care services.

MOH's focus is to enhance the accessibility, quality and affordability of aged care services. New initiatives include the development of Active Ageing Hubs which provide active ageing services as well as integrated care services across the health and social care continuum.

MSF oversees the provision of social support for low-income and vulnerable seniors without family support. To better reach out to and support vulnerable seniors to age within the community and receive coordinated care, MSF has organised its community-based social services into networks within each Housing and Development Board (HDB) town. Each town is supported by a range of services comprising Senior Activity Centres, case management teams, assisted living options, and befriending services.



30,896 seniors had access to Senior Activity Centres in FY2016

Other References

The Singapore Social Statistics in Brief (SSIB) is an annual publication compiled by the Strategic Planning, Research and Development Division, Ministry of Social and Development. The SSIB provides updates on key social indicators and population statistics.

25.1 GRASSROOTS ORGANISATIONS

(End of Period)

| | | | | | | | Num |
|-------------------------------------|------|------|------|------|------|------|------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Community Development | | | | | | | |
| Councils | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Citizens' Consultative | | | | | | | |
| Committees (CCCs) | 84 | 87 | 87 | 87 | 87 | 89 | 89 |
| CCC-Area Sub Committees | 43 | 39 | 38 | 39 | 41 | 41 | 42 |
| Community Club | | | | | | | |
| Management Committees | 105 | 106 | 106 | 107 | 107 | 108 | 109 |
| Residents' Committees | 556 | 564 | 571 | 574 | 582 | 600 | 627 |
| Neighbourhood Committees | 115 | 121 | 134 | 149 | 161 | 174 | 197 |
| Malay Activity Executive | | | | | | | |
| Committees | 97 | 97 | 97 | 99 | 98 | 98 | 97 |
| ndian Activity Executive | | | | | | | |
| Committees | 94 | 94 | 94 | 95 | 94 | 94 | 96 |
| Senior Citizens' Executive | | | | | | | |
| Committees | 321 | 314 | 309 | 295 | 292 | 286 | 268 |
| outh Executive Committees | 99 | 99 | 100 | 101 | 102 | 102 | 102 |
| Nomen's Executive | | | | | | | |
| Committees | 104 | 104 | 104 | 105 | 104 | 105 | 104 |
| Community Emergency and | | | | | | | |
| Engagement Committees | 84 | 86 | 86 | 87 | 87 | 87 | 88 |
| Community Sports Clubs ¹ | 84 | 86 | 86 | 86 | 86 | 87 | 88 |
| -Net Club Management | | | | | | | |
| Committees | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Building Fund Committees | 28 | 38 | 44 | 50 | 53 | 53 | 51 |

Source : People's Association (PA)

 $^{1 \}quad \hbox{Constitutency Sports Clubs has been renamed to Community Sports Clubs in 2011}.$

25.2 VOLUNTEERS (End of Period)

| | | | | | | | Number |
|--------------------------------------------|--------|--------|--------|----------------|--------|--------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | | Со | mmunity Serv | vice | | |
| Total (Volunteers) | 42,778 | 44,515 | 44,616 | 46,884 | 48,486 | 49,445 | 49,848 |
| Community Development Councils | 309 | 299 | 298 | 298 | 291 | 284 | 290 |
| CCCs / CCC-Area Sub Committees | 4,617 | 4,762 | 4,796 | 4,999 | 5,153 | 5,280 | 5,477 |
| Community Club Management | | | | | | | |
| Committees | 3,631 | 3,713 | 3,723 | 3,789 | 3,804 | 3,807 | 3,858 |
| Residents' Committees (RC) 1 | 13,137 | 13,978 | 14,008 | 14,955 | 15,372 | 15,945 | 16,165 |
| Neighbourhood Committees | 2,047 | 2,324 | 2,593 | 2,908 | 3,224 | 3,454 | 3,877 |
| Malay Activity Executive Committees | 1,787 | 1,886 | 1,885 | 1,988 | 1,947 | 1,978 | 1,930 |
| Indian Activity Executive Committees | 1,681 | 1,788 | 1,733 | 1,838 | 1,882 | 1,873 | 1,902 |
| Senior Citizens' Executive Committees | 5,767 | 5,815 | 5,718 | 5,600 | 5,633 | 5,535 | 5,165 |
| Youth Executive Committees | 2,456 | 2,305 | 2,392 | 2,462 | 2,689 | 2,503 | 2,516 |
| Women's Executive Committees | 2,313 | 2,399 | 2,344 | 2,466 | 2,538 | 2,550 | 2,496 |
| Community Emergency and | | | | | | | |
| Engagement Committees | 2,319 | 2,240 | 2,160 | 2,105 | 2,131 | 2,146 | 2,156 |
| Community Sports Clubs ² | 2,046 | 2,160 | 2,073 | 2,147 | 2,137 | 2,214 | 2,178 |
| T-Net Club Management Committees | 146 | 147 | 140 | 147 | 161 | 163 | 155 |
| Building Fund Committees | 522 | 699 | 753 | 887 | 925 | 919 | 884 |
| Constituency Grassroots Member Scheme | na | na | na | 295 | 599 | 794 | 799 |
| | | | V | Velfare Servio | ce | | |
| Total (Volunteers) | 887 | 936 | 903 | 861 | 900 | 1,046 | 1,185 |
| Welfare Service Boards/Committees | 15 | 15 | 15 | 17 | 17 | 18 | 18 |
| Volunteer Probation Officers | 319 | 321 | 284 | 229 | 223 | 253 | 296 |
| Volunteers in MSF Youth Homes ³ | 295 | 315 | 256 | 258 | 238 | 238 | 192 |
| Enable-A-Family (EAF) Volunteer Scheme | 58 | 58 | 76 | 76 | 77 | 89 | 129 |
| Foster Parents ⁴ | 200 | 227 | 243 | 243 | 282 | 357 | 420 |
| Volunteer Transport Minders ⁵ | na | na | 29 | 38 | 49 | 52 | 58 |
| ProPALS ⁶ | na | na | na | na | 14 | 39 | 72 |

Sources: Ministry of Social and Family Development (MSF)

People's Association (PA)

Notes: CCCs = Citizens' Consultative Committees

The PA introduced the Grassroots Member Scheme in 2013.

Grassroots members can be appointed at the constituency level and to any grassroots organisations.

- 1 Includes RC Block Representatives.
- 2 Constituency Sports Clubs has been renamed to Community Sports Clubs in 2011.
- 3 Excludes institutions that are no longer part of the MSF Youth Homes.
- ${\bf 4} \quad {\bf Refers \ to \ the \ number \ of \ foster \ families \ under \ MSF's \ Fostering \ Scheme}.$
- 5 Volunteer Transport Minders support the routine and access to services for children and young persons under MSF's Child Protective Service. They assist to ferry children and young persons from their place of alternative care to schools, venues for contact with their families, medical appointments, counselling/therapy sessions. This scheme started in 2012.
- 6 PropALS (Promoting Pathways in Arts, Leisure and Sports) started in Aug 2014. Data refer to the number of agencies/groups.
 Through the PropALS scheme, volunteers motivate and inspire children and youths under the care of MSF in their journey towards transformation and growth through sports, arts and recreational initiatives that impart life lessons and build resilience.
 Volunteers share their expertise in sports, arts or other professional skills to increase competencies of children and youth, and also plan and implement programmes and activities.

25.3 NUMBER, CAPACITY AND ENROLMENT IN CHILD CARE CENTRES

| | | | | | | | Number |
|-------------------------------------------------------------------------|--------|--------|--------|---------|---------|---------|---------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Number of Child Care Centres | 855 | 944 | 1,002 | 1,077 | 1,148 | 1,243 | 1,332 |
| Child care centres which also provide infant care services ¹ | 198 | 253 | 285 | 324 | 361 | 418 | 471 |
| Capacity in Child Care Centres | 75,738 | 84,665 | 91,387 | 100,388 | 109,856 | 121,698 | 135,224 |
| Total Enrolment in Child Care Centres | 66,193 | 73,547 | 79,679 | 86,124 | 92,932 | 99,175 | 106,155 |
| Full-Day Programme | 55,422 | 62,649 | 69,075 | 75,986 | 82,872 | 89,855 | 97,672 |
| Anchor Operators ² | 9,513 | 12,812 | 15,879 | 19,076 | 23,668 | 28,219 | 33,105 |
| Voluntary Welfare Organisations | 9,953 | 10,309 | 10,514 | 10,793 | 10,058 | 9,945 | 7,048 |
| Private ³ | 35,956 | 39,528 | 42,682 | 46,117 | 49,146 | 51,691 | 43,059 |
| Partner Operators ⁴ | na | na | na | na | na | na | 14,460 |
| Half-Day Programme | 8,509 | 8,811 | 8,504 | 7,940 | 7,230 | 6,912 | 6,362 |
| Flexicare Programme | 2,262 | 2,087 | 2,100 | 2,198 | 2,830 | 2,408 | 2,121 |

Sources: Early Childhood Development Agency, ECDA (with effect from Apr 2013)

Ministry of Social and Family Development (between Nov 2012 to Mar 2013)

Ministry of Community Development, Youth and Sports (prior to Nov 2012)

Notes: Annual data reported are presented as at October each year as it is when enrolment in child care centres peaks for the year, which is taken into account in the planning of child care capacity.

- 1 Infant care services cater for children aged 2 to 18 months.
- 2 Refers to the 5 operators appointed by ECDA under the Anchor Operator Scheme. They include PAP Community Foundation, My First Skool, MY World Preschool, Skool4Kidz, and E-Bridge Pre-school.
- 3 With effect from 2013, Workplace figures which were reported separately are subsumed under the Private category.
- 4 Refers to the 23 operators appointed by the ECDA under the Partner Operator Scheme introduced in 2016.

 More information are available in ECDA website (https://www.ecda.gov.sg/parents/pages/POP.aspx#operators).

25.4 NUMBER AND ENROLMENT IN KINDERGARTENS

| | | | | | | | Number |
|-------------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Number of Kindergartens | 493 | 495 | 504 | 498 | 503 | 492 | 480 |
| Total Enrolment in Kindergartens | 68,720 | 67,652 | 67,734 | 68,057 | 68,999 | 66,331 | 65,306 |
| Anchor Operators ¹ | 37,506 | 37,372 | 36,447 | 35,015 | 33,302 | 30,142 | 27,943 |
| Voluntary Welfare Organisations | 20,769 | 20,155 | 20,657 | 21,398 | 24,282 | 23,899 | 23,622 |
| Private | 10,445 | 10,125 | 10,586 | 11,589 | 11,173 | 11,290 | 11,904 |
| Government / Statutory Board ² | na | na | 44 | 55 | 242 | 1,000 | 1,837 |

Source: Early Childhood Development Agency, ECDA

¹ Refers to the 5 operators appointed by ECDA under the Anchor Operator Scheme. They include PAP Community Foundation, My First Skool, MY World Preschool, Skool4Kidz, and E-Bridge Pre-school.

² Refers to the Ministry of Education Kindergartens and Preschool Learning Academy at Temasek Polytechnic.

25.5 COMCARE SCHEMES (End of Period)

Number of cases

| | | | | | | ITali | ibel of eases |
|-----------------------------------------------------------------------------|-------|-------|--------|--------|--------|--------|---------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| ComCare Long Term Assistance ¹ (also known as Public Assistance) | 2,929 | 3,034 | 3,047 | 3,164 | 3,421 | 3,832 | 3,887 |
| ComCare Short-to-Medium Term Assistance 1, 2 | 4,595 | 6,571 | 10,432 | 12,535 | 15,763 | 15,164 | 16,917 |
| Student Care Fee Assistance ³ | 2,598 | 2,549 | 3,797 | 5,030 | 5,723 | 7,192 | 6,552 |

Source: Ministry of Social and Family Development

- 1 Refers to the number of active households under the Scheme.
- 2 ComCare Short-to-Medium Term Assistance comprises schemes that were previously known as Work Support Programme and ComCare Transitions.
- 3 Refers to the number of active individual beneficiaries under the Scheme.

25.6 SENIOR ACTIVITY CENTRES

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|---------------------------------------------------------------|--------|--------|--------|--------|--------|--------|
| Number of Senior Activity Centres | 43 | 52 | 53 | 59 | 61 | 67 |
| Number of Seniors Having Access to Senior Activity Centres | 23,000 | 25,531 | 27,546 | 28,995 | 28,415 | 30,896 |

Source: Ministry of Social and Family Development

Notes: Senior Activity Centres are drop-in centres which provide social and recreational activities for seniors.

Data refer to the Government's financial year which begins in April of the current year and ends in March of the following year.

25.7 RESIDENTS IN OLD FOLKS' HOMES BY TYPE OF ORGANISATION AND SEX (End of Period)

| | | | | | | | Number |
|---------------------------------------|-------|-------|--------|--------|--------|--------|--------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 9,755 | 9,904 | 10,016 | 10,410 | 10,547 | 11,078 | 11,712 |
| Males | 4,603 | 4,765 | 4,848 | 5,130 | 5,198 | 5,606 | 6,089 |
| Females | 5,152 | 5,139 | 5,168 | 5,280 | 5,349 | 5,472 | 5,623 |
| Government Welfare Homes ¹ | 1,173 | 1,189 | 1,221 | 1,147 | 1,146 | 1,251 | 1,263 |
| Males | 923 | 938 | 963 | 885 | 875 | 980 | 995 |
| Females | 250 | 251 | 258 | 262 | 271 | 271 | 268 |
| Sheltered Homes | 670 | 697 | 689 | 698 | 685 | 673 | 666 |
| Males | 330 | 343 | 341 | 354 | 350 | 338 | 341 |
| Females | 340 | 354 | 348 | 344 | 335 | 335 | 325 |
| Voluntary Nursing Homes | 5,033 | 4,979 | 4,978 | 5,295 | 5,418 | 5,903 | 6,253 |
| Males | 2,173 | 2,142 | 2,155 | 2,386 | 2,475 | 2,819 | 3,060 |
| Females | 2,860 | 2,837 | 2,823 | 2,909 | 2,943 | 3,084 | 3,193 |
| Commercial Nursing Homes | 2,879 | 3,039 | 3,128 | 3,270 | 3,298 | 3,251 | 3,530 |
| Males | 1,177 | 1,342 | 1,389 | 1,505 | 1,498 | 1,469 | 1,693 |
| Females | 1,702 | 1,697 | 1,739 | 1,765 | 1,800 | 1,782 | 1,837 |
| | | | | | | | |

Sources : Government Welfare Homes and Sheltered Homes

Ministry of Social and Family Development (with effect from Nov 2012)

Ministry of Community Development, Youth and Sports (prior to Nov 2012)

Voluntary Nursing Homes and Commercial Nursing Homes - Ministry of Health

 $^{1 \;\;}$ Data include only those aged 60 years and above.

25.8 FAMILY SERVICE CENTRES

| | Unit | FY2010 | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 |
|--------------------------|-------|--------|--------|--------|--------|--------|--------|--------|
| Number of Centres | No. | 36 | 38 | 39 | 43 | 43 | 46 | 46 |
| Casework and Counselling | Cases | 24,983 | 26,386 | 28,695 | 31,074 | 32,844 | 28,486 | 25,050 |
| Information and Referral | No. | 36,941 | 38,655 | 36,091 | 38,054 | 40,707 | 37,036 | 27,198 |

Source: Ministry of Social and Family Development

Notes: Data refer to the Government's financial year which begins in April of the current year and ends in March of the following year.



Culture and Recreation

26 Culture and Recreation



Singapore aims to be a vibrant city of the arts, culture and media, and a sporting and learning nation, so as to provide a better quality of life for all.

Cinema 6



Data on cinema attendances are compiled by the Singapore Department of Statistics from returns submitted by cinema organisations. Prior to April 1994, they were obtained from the Singapore Customs. Total attendances are based on the number of tickets sold.



21.9 million cinema attendances in 2016

Library Library



The National Library Board (NLB) aims to nurture the learning needs of a Knowledgeable Society, where all Singaporeans are Readers for Life and are actively engaged in Learning Communities. NLB has a membership of around 2.4 million. In addition to the National Library, there are 26 public libraries located conveniently across Singapore. This consists of 13 libraries located in shopping malls, 10 stand-alone public libraries and 3 regional libraries. NLB also manages 7 libraries belonging to government agencies and institutions.

NLB has a physical collection totalling 7.5 million books, serials and special materials. Out of this collection, some 2.8 million fiction items and 3.7 million non-fiction items are in the lending collection. Over 32 million loans were made on them.

The reference collection offered the Lee Kong Chian Reference Library at the National Library Building consists of over 730,000 items covering social sciences and humanities, science and technology, business arts, and management.

NLB also provides library users with on-site remote access to a digital library at www.nlb.gov.sg. Its eResources site offers more than 4 million copies of eBooks, over 80 databases with more than 5,000 titles of electronic newspapers in 60 languages, and approximately 1.9 million music tracks.



Sports Sport

As the national sports agency, Sport Singapore recognises the value of sport to transform the nation by advancing the national priorities of developing our people, bonding our communities and strengthening national identity and pride.

In line with Vision 2030: Live Better Through Sport recommendations, Sport Singapore uses sport to create greater sporting opportunities and access, more inclusivity and integration, as well as broader development of capabilities. Sport Singapore collaborates with a vast network of public, private and people sector partners to enable individuals to live better through sport.

Through its Sport Facilities Master Plan & ActiveSG, the national movement for sport and physical activity, Sport Singapore creates opportunities for Singaporeans of all ages and abilities to conveniently participate in sport within their communities anytime and anywhere.

Culture and Recreation



SportCares activates sport as a force for social good, enabling Persons With Disabilities (PWDs) and vulnerable groups to lead more enriched and fulfilling lives through personal empowerment, social inclusion and bridging communities through sport.

Team Nila, the national volunteer movement, empowers individuals to give back to society through sport and to contribute to the nation as One Team Singapore.



Lifeskills and Lifestyle Courses and **Interest Groups**



The People's Association (PA) and its grassroots network promote friendship and trust amongst residents of all races and backgrounds through its wide range of community activities and courses pertaining to arts and lifestyle, education and lifeskills, performing arts and sports. These are held at Community Clubs, Resident's Committee Centres, Water Venture Centres and other community spaces. The PA also encourages the formation of interest groups for residents to deepen their friendships through the pursuit of common interests.

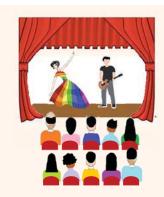
The Arts

The Ministry of Culture, Community and Youth (MCCY)'s publication "Singapore Cultural Statistics", published annually since 2008, provides an update on the state of the arts and cultural landscape in Singapore. The statistics reported in this publication include data on arts and cultural performance, heritage events and museum exhibitions.

Definitions



Performing arts: Refers to folk, traditional, classical, contemporary and popular forms of dance, music and theatre performances. Community arts and cultural events such as cultural festivals and district arts festivals are included.



3.323 ticketed performing arts Performances in 2015

1.9 million ticketed performing arts attendances in 2015

Visual arts: Refers to public exhibitions of abstract or representational art objects such as paintings, prints, sculpture, pottery, ceramics, creative photography, installation art and multi-media art. Applied arts like film, video, graphic design, fashion design, jewellery design and handicrafts are excluded.



1.041 visual arts exhibitions In 2015

26.1 CINEMAS, SEATING CAPACITY AND ATTENDANCES

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|------------------|----------------|------|------|------|------|------|------|------|
| Cinemas | No. of Screens | 167 | 186 | 187 | 207 | 220 | 231 | 241 |
| Seating Capacity | '000 | 33 | 36 | 35 | 38 | 38 | 40 | 41 |
| Attendances | Million | 20.3 | 22.1 | 21.2 | 22.1 | 21.6 | 21.9 | 21.9 |

26.2 NATIONAL LIBRARY BOARD LIBRARY MEMBERSHIP, COLLECTIONS AND LOANS

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-------------------------------------------------|------|----------|----------|----------|----------|----------|----------|----------|
| National Library | No. | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Public Library | No. | 22 | 24 | 24 | 25 | 25 | 26 | 26 |
| Membership ¹ | '000 | 2,043.2 | 2,056.0 | 2,109.0 | 2,213.5 | 2,259.8 | 2,315.9 | 2,378.1 |
| Persons Aged 13 years and Over | '000 | 1,741.5 | 1,750.6 | 1,815.6 | 1,932.9 | 1,989.0 | 2,052.1 | 2,105.7 |
| Children Under 13 Years | '000 | 301.7 | 305.4 | 293.4 | 280.5 | 270.8 | 263.8 | 272.4 |
| Total Physical Collections ² | '000 | 8,446.7 | 8,657.7 | 8,303.0 | 8,090.7 | 8,726.2 | 7,899.8 | 7,549.9 |
| Total eBooks Collections ³ | '000 | 1,218.7 | 2,338.3 | 3,155.6 | 3,225.6 | 3,522.0 | 4,145.1 | 4,579.7 |
| Loan of Physical Library Materials ⁴ | '000 | 33,150.2 | 36,504.2 | 38,082.6 | 35,537.4 | 34,034.7 | 31,824.4 | 32,061.7 |
| Persons Aged 13 Years and Over | '000 | 21,785.4 | 26,310.4 | 26,802.9 | 25,606.8 | 22,411.0 | 20,868.8 | 20,965.4 |
| Children Under 13 Years | '000 | 11,364.8 | 10,193.8 | 11,279.7 | 9,930.5 | 11,623.8 | 10,955.6 | 11,096.3 |
| eBook Usage ⁵ | '000 | 3,485.9 | 4,406.2 | 7,483.7 | 10,611.7 | 10,758.4 | 11,504.3 | 11,680.2 |

Source: National Library Board

- 1 Includes membership from public libraries only and excludes members who have no library transactions in the past 5 years.
- 2 Includes books, serials and special materials (namely, Art Print, Compact disc, Compact disc interactive, Computer File, CD-ROMs, DVD, VCD, Filmstrip, Kit, Map, Microfiche, Microfilm, Music score, Recorded disc, Talking books, Tape recording, Tape slide, Videocassette, Videodisc and Laserdisc, braille, game, motion picture, wall chart, picture collection, ephemera and manuscript).
- 3 Refers to the total number of eBooks copies made available on e-resources website such as Apabi, Overdrive and Tumblebooks.
- 4 Includes loans of physical books, magazines and AV materials (such as Video Tapes, VCDs, CDs, CD-Roms, DVDs and music scores) borrowed from public libraries only.
- 5 Includes different types of usage such as loans, page views, downloads and checkouts.

26.3 **VISITORS TO PLACES OF INTEREST**

| т | h | ^ | Sa | n | Ы |
|---|---|---|----|---|---|
| | | | | | |

| | | | | | | | IIIOusanu | |
|--------------------------------------------|----------|----------|----------|----------|----------|----------|-----------|--|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | |
| 1.2 | 777.0 | 24.4.4 | 504.0 | 450.4 | 400.0 | 242.5 | 524.2 | |
| Asian Civilisations Museum ^{1, 2} | 777.3 | 814.4 | 524.0 | 452.4 | 423.2 | 349.6 | 534.3 | |
| Chinese/Japanese Gardens | 874.5 | 963.0 | 911.0 | 693.1 | 951.0 | 939.5 | 1,314.4 | |
| Gardens by the Bay ³ | na | na | 2,920.1 | 4,555.8 | 6,375.1 | 8,514.5 | 8,763.4 | |
| Indian Heritage Centre ⁴ | na | na | na | na | na | 195.0 | na | |
| Jurong BirdPark | 882.2 | 909.0 | 901.4 | 777.6 | 717.4 | 810.1 | 772.1 | |
| Malay Heritage Centre ⁵ | na | 14.0 | 185.8 | 152.3 | 166.5 | 445.2 | na | |
| National Gallery Singapore ⁶ | 40.0 | na | na | na | na | 275.6 | 1,585.3 | |
| National Museum of Singapore ¹ | 847.1 | 932.6 | 898.9 | 1,199.0 | 902.1 | 774.6 | 777.4 | |
| Night Safari | 1,129.5 | 1,098.5 | 1,163.4 | 1,168.0 | 1,179.8 | 1,159.0 | 1,150.5 | |
| Sentosa ^{7, 8} | 19,100.0 | 19,000.0 | 20,500.0 | 18,600.0 | 19,400.0 | 19,500.0 | 19,300.0 | |
| Singapore Art Museum 1,9 | 639.7 | 636.6 | 656.1 | 729.1 | 743.7 | 903.4 | 732.9 | |
| Singapore Discovery Centre ⁷ | 165.0 | 195.0 | 194.8 | 212.3 | 209.8 | 270.0 | 210.0 | |
| Singapore Philatelic Museum ¹ | 105.1 | 115.9 | 123.0 | 117.5 | 142.1 | 152.7 | 160.2 | |
| Science Centre Singapore | 1,125.5 | 1,053.8 | 969.2 | 899.5 | 952.3 | 1,046.0 | 955.8 | |
| Singapore Zoological Gardens | 1,630.5 | 1,670.1 | 1,756.4 | 1,804.1 | 1,678.2 | 1,833.4 | 1,797.0 | |
| The Peranakan Museum ¹ | 224.8 | 234.4 | 272.0 | 373.9 | 415.3 | 475.7 | 508.4 | |
| River Safari ¹⁰ | na | na | na | 703.2 | 1,144.6 | 843.1 | 842.9 | |
| | | | | | | | | |

Sources: National Heritage Board National Gallery Singapore

Science Centre Singapore

Singapore Discovery Centre Singapore Art Museum Jurong Gardens Pte Ltd Singapore Zoological Gardens River Safari

Jurong BirdPark Pte Ltd Night Safari

Sentosa Development Corporation

Gardens by the Bay

- 1 Visitorship to the museums is counted using an automatic tracking system, a device which is fixed at entrances to the museums. All visitors who access the museum premises are captured in the count, regardless of whether the entries are based on paid admissions or those not requiring payment.
- 2 Includes visitors to Asian Civilisations Museum at Empress Place Building.
- $\,$ 3 Gardens by the Bay was officially opened on 29 June 2012.
- 4 The Indian Heritage Centre opened on 7 May 2015.
- 5 Visitorship to the Malay Heritage Centre prior to 2015 is not directly comparable to future years due to updates in the data collection method.
- 6 Visitorship to the National Gallery Singapore in 2010 was due to the Open House held at the former Supreme Court building. The National Gallery Singapore opened officially on 24 November 2015.
- 7 Refers to the financial year which begins in April of the current year and ends in March of the following year.
- 8 From April 2009, Southern Island arrivals have been excluded from Sentosa visitorship. From February 2010, Sentosa's visitorship includes arrivals to Resorts World Sentosa.
- 9 Singapore Art Museum (SAM) had been incorporated as an independent company limited by guarantee in Nov 2013. From Jan 2014, visitorship data are provided by SAM. Visitorship data include visitors to SAM at 8Q.
- 10 River Safari was officially opened on 3 April 2013.

26.4 UTILISATION OF SPORTS FACILITIES

| | | | | | | | Number |
|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Attendances | | | | | | | |
| Swimming pool | 7,163,669 | 6,939,334 | 7,034,166 | 6,724,546 | 6,870,183 | 6,898,517 | 7,081,651 |
| Gymnasium | 1,823,321 | 1,984,865 | 2,298,340 | 2,523,844 | 2,562,218 | 2,554,524 | 2,451,235 |
| Bookings | | | | | | | |
| Total | 699,973 | 836,591 | 933,687 | 933,589 | 1,041,967 | 1,162,779 | 1,161,428 |
| Badminton ¹ | 401,390 | 472,852 | 538,381 | 526,660 | 579,431 | 638,485 | 669,217 |
| Tennis | 115,900 | 129,244 | 141,621 | 133,227 | 161,888 | 168,182 | 155,931 |
| Table-tennis ¹ | 61,081 | 72,710 | 86,706 | 84,104 | 96,274 | 105,218 | 116,237 |
| Basketball ¹ | 19,726 | 27,977 | 27,646 | 39,362 | 41,883 | 34,661 | 33,978 |
| Squash | 25,119 | 32,902 | 34,479 | 37,610 | 41,742 | 54,973 | 54,704 |
| Soccer | 19,687 | 24,122 | 29,487 | 27,944 | 29,074 | 28,470 | 27,133 |
| Volleyball ¹ | 9,895 | 13,116 | 14,182 | 13,988 | 21,188 | 29,418 | 29,540 |
| Netball | 6,728 | 6,702 | 7,549 | 7,651 | 7,339 | 9,427 | 6,380 |
| Hockey | 3,748 | 4,449 | 4,800 | 5,345 | 5,268 | 6,601 | 5,933 |
| Rugby | 444 | 401 | 608 | 533 | 399 | 521 | 638 |
| Athletics | 509 | 411 | 324 | 277 | 642 | 2,358 | 2,939 |
| Others ² | 35,746 | 51,705 | 47,904 | 56,888 | 56,839 | 84,465 | 58,798 |

Source: Sport Singapore

Notes: Refers to sports facilities provided by Sport Singapore.

Prior to Apr 2014, data were from Singapore Sports Council. With effect from Apr 2014, data are from Sport Singapore.

- 1 Refers to bookings of sports hall facilities managed by Sport Singapore.
- 2 Refers to other bookings at sports hall facilities managed by Sport Singapore, eg floorball etc.

26.5 INTEREST GROUPS IN COMMUNITY CLUBS AND RESIDENTS' COMMITTEES (End of Period)

| | | | | | | Number | | |
|----------------------------------------|---------------------------|--------|----------------|----------------|----------------|----------------|--|--|
| Type of Interest Groups | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | |
| _ | Number of Interest Groups | | | | | | | |
| Sports | 2,507 | 2,810 | 2,856 | 3,820 | 3,999 | 4,291 | | |
| Adventure | 20 | 25 | 32 | 40 | 43 | 45 | | |
| Ball Games | 545 | 573 | 557 | 651 | 656 | 709 | | |
| Health & Fitness | 833 | 931 | 958 | 1,099 | 1,114 | 1,163 | | |
| Hobby | na | na | na | 294 | 315 | 356 | | |
| Lifestyle | na | na | na | 77 | 136 | 151 | | |
| Martial Arts | 734 | 858 | 860 | 974 | 981 | 1,018 | | |
| Mind Games | na | na | na | 121 | 129 | 138 | | |
| Precision Sports | 26 | 27 | 24 | 26 | 29 | 32 | | |
| Racket Games | 248 | 277 | 274 | 324 | 338 | 351 | | |
| Recreational Sports | 35 | 51 | 82 | 133 | 173 | 213 | | |
| Water Sports | 66 | 68 | 69 | 81 | 85 | 115 | | |
| Performing Arts | 1,733 | 1,888 | 1,999 | 2,406 | 2,495 | 2,622 | | |
| Band | 50 | 52 | 53 | 73 | 74 | 73 | | |
| Culture Appreciation Club ¹ | 102 | 114 | 117 | 61 | 66 | 50 | | |
| Dance | 531 | 623 | 680 | 906 | 963 | 1,030 | | |
| Music | 158 | 169 | 238 | 294 | 300 | 313 | | |
| Theatre | 113 | 107 | 104 | 137 | 140 | 150 | | |
| Vocal | 779 | 823 | 807 | 935 | 952 | 1,006 | | |
| | Number of Members | | | | | | | |
| Sports | 82,774 | 98,395 | 100,924 | 127,981 | 132,967 | 130,916 | | |
| Adventure | 198 | 312 | 407 | 603 | 686 | 710 | | |
| Ball Games | 4,898 | 6,196 | 6,014 | 8,626 | 9,057 | 9,729 | | |
| Health & Fitness | 61,775 | 73,231 | 75,024 | 84,369 | 85,444 | 80,016 | | |
| Hobby | na | na | na | 4,499 | 4,981 | 5,732 | | |
| Lifestyle | na | na | na | 2,061 | 3,191 | 3,402 | | |
| Martial Arts | 10,867 | 13,993 | 14,655 | 18,621 | 18,915 | 18,998 | | |
| Mind Games | na | na | na | 1,682 | 1,913 | 1,998 | | |
| Precision Sports | 451 | 346 | 340 | 558 | 596 | 718 | | |
| Racket Games | 2,305 | 2,825 | 2,810 | 4,313 | 4,803 | 5,250 | | |
| Recreational Sports | 360 | 688 | 993 | 1,712 | 2,249 | 2,860 | | |
| Water Sports | 1,920 | 804 | 681 | 937 | 1,132 | 1,503 | | |
| Performing Arts | 16,706 | 22,898 | 24,767 | 36,766 | 39,666 | 41,975 | | |
| Band | 386 | 482 | 472 | 872 | 973 | 964 | | |
| Culture Appreciation Club ¹ | 819 | 1,161 | 1,078 | 701 | 745 | 516 | | |
| P.P | | 8,905 | 10,004 | 16,090 | 18,035 | 19,764 | | |
| Dance | 5,519 | 0,903 | | | | -, | | |
| Dance Music | 5,519 1,703 | 1,987 | | | 4,078 | 4,463 | | |
| | | | 2,569 1,057 | 3,932 1,928 | 4,078 2,012 | 4,463 2,110 | | |

Source : People's Association (PA)

¹ With effect from 2014, some interest groups and members that were previously classified under "Culture Appreciation Club" have been re-classified into other categories.

26.6 SPORTS AND PERFORMING ARTS COURSES CONDUCTED BY COMMUNITY CLUBS, RESIDENTS' COMMITTEES AND PA WATER-VENTURE

Number Type of Course 2013 2010 2011 2012 2014 2015 2016 Classes 13,957 14,654 14,310 12,667 14,648 15,674 14,466 Sports 591 349 258 **Ball Games** 572 411 318 415 Board / Intellectual Games 106 42 41 115 96 103 105 Keep Fit 6,029 5,793 5,496 5,940 7,437 7,814 7,759 Martial Arts 4,976 4,793 4,220 3,408 3,939 4,533 3,895 **Performing Sports** 674 618 518 448 529 530 417 1,600 2,817 3,624 2,438 2,298 2,279 2,032 Water Sports 20,385 20,433 19,578 17,269 19,039 19,316 18,403 **Performing Arts** 8,910 9,022 9,055 8,507 9,634 9,776 9,976 Dance Drama ¹ 272 250 207 173 214 242 235 Music 7,748 7,439 7,015 6,162 6,304 6,376 5,367 Vocal 3,455 3,722 3,301 2,427 2,887 2,922 2,825 **Participants** Sports 231,361 224,675 211,700 196,102 228,279 246,264 225,116 **Ball Games** 7,138 7,184 4,080 3,331 3,378 4,343 2,987 1,466 388 449 1,175 1,041 532 Board / Intellectual Games 657 108,022 89,943 129,772 125,749 Keep Fit 96,835 104,921 137,832 Martial Arts 86,256 83,495 76,226 62,804 70,444 77,608 75,051 **Performing Sports** 7,542 7,480 5,514 4,114 5,125 5,446 4,268 20,937 29,293 35,488 19,757 18,903 19,994 16,529 Water Sports 190,143 150,262 163,777 158,708 **Performing Arts** 190,625 176,849 167,317 Dance 108,474 107,581 104,412 92,793 100,456 101,748 98,178 Drama 1 4,022 3,598 2,951 2,665 3,010 3,042 2,831 25,527 25,847 22,263 18,212 18,283 20,344 15,120 Music 52,120 53,599 47,223 36,592 42,028 42,183 42,579 Vocal

Source: People's Association (PA)

1 Excludes playgroup.

26.7 THE ARTS

| | | | | | | | Number |
|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Art Form | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| | | | | | | | |
| Performing Arts | | | | | | | |
| Ticketed Performances | 2,295 | 2,267 | 3,416 | 3,497 | 3,006 | 3,256 | 3,323 |
| Ticketed Attendances ¹ | 1,169,352 | 1,577,737 | 2,311,313 | 2,062,124 | 1,897,162 | 1,876,922 | 1,946,322 |
| | | | | | | | |
| Visual Arts Exhibitions | | | | | | | |
| VISUAL ALLS EXHIBILIONS | | | | | | | |
| Number | 915 | 999 | 858 | 675 | 559 | 973 | 1,041 |
| Days | 21,479 | 26,266 | 22,867 | 17,883 | 16,115 | 31,678 | 26,271 |
| | | | | | | | |

Sources : National Arts Council People's Association

¹ Refers to attendance at performing arts events that require a ticket for entry. Includes tickets sold and complimentary tickets issued.

26.8 REGISTERED ARTS SOCIETIES AND COMPANIES (End of Period)

| N | п | m | ıh | ρ |
|---|---|---|----|---|
| | | | | |

| | | | NI |
|---------------------|-------|------------------------|-------|
| Art Forms | 2013 | 2014 | 2015 |
| _ | | Societies ¹ | |
| Total | 478 | 487 | 502 |
| Music | 147 | 152 | 160 |
| Dance | 45 | 45 | 48 |
| Theatre | 92 | 94 | 95 |
| Visual Arts | 80 | 81 | 81 |
| Craft | 5 | 5 | 5 |
| Literary Arts | 58 | 58 | 59 |
| Others ² | 51 | 52 | 54 |
| _ _ | | Companies ³ | |
| Total | 5,486 | 5,412 | 5,749 |
| Music | 1,555 | 1,671 | 1,787 |
| Dance | 369 | 438 | 476 |
| Theatre | 481 | 493 | 513 |
| Visual Arts | 1,171 | 1,161 | 1,243 |
| Craft | 666 | 565 | 600 |
| Literary Arts | 1,187 | 1,015 | 1,038 |
| Others ⁴ | 57 | 69 | 92 |

Source: National Arts Council

- 1 Includes arts societies registered under the Registry of Societies.
- ${\bf 2} \quad \text{Includes cultural societies and societies that are multi-disciplinary or cover multiple art forms.}$
- 3 Refers to commercial (for-profit) and non-profit companies registered with the Accounting and Corporate Regulatory Authority. The number of arts companies include companies that (i) play a role in content creation/distribution such as sound recording production companies, publishing companies, (ii) deal with retailed musical instruments and photographic equipments, photographic equipments, (iii) conduct classes/courses in the arts (e.g. dance, music schools) as well as new categories of arts companies involved in crafts and literary arts.

4 Includes companies such as artist management companies and educational companies that do not fit in neatly into a certain art form

27

Miscellaneous

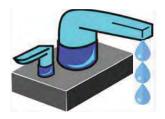
Miscellaneous





PUB, the national water agency, is responsible for managing Singapore's water supply, water catchment and used water in an integrated way. To ensure sustainability of Singapore's water supply, efforts are taken to diversify the supply sources and manage demand.

Singapore's water supply is diversified through the four National Taps, namely, water from local catchments, imported water from Johor, NEWater and desalinated water. Potable water is supplied to all parts of Singapore and treated to a quality well within the World Health Organisation's Guidelines for Drinking Water Quality. PUB works with the community and various sectors to adopt water conservation measures, such as promoting good water habits and improving efficient use of water as part of water demand management.



517.0 million m³/year of portable water was sold in 2016

Electricity



The Energy Market Authority (EMA) was formed in April 2001 to ensure a reliable and secure energy supply, promote effective competition in the energy market, and develop a dynamic energy sector in Singapore.

There are currently 15 power generation companies in the electricity market, with 7 of them generating electricity using mainly natural gas:

- Keppel Merlimau Cogen Pte Ltd
- PacificLight Power Pte Ltd
- Sembcorp Cogen Pte Ltd

- Senoko Energy Pte Ltd
- Tuas Power Generation Pte Ltd
- Tuaspring Pte Ltd
 - YTL PowerSeraya Pte Ltd

The National Environment Agency (NEA), Keppel Seghers Tuas Waste-To-Energy Plant Pte Ltd and Senoko Waste-To-Energy Pte Ltd operate incineration plants and sell the electricity generated from these plants. TP Utilities Pte Ltd generates electricity using mainly coal-biomass. ExxonMobil Asia Pacific Pte Ltd and Shell Eastern Petroleum Pte Ltd generate electricity mainly for their own use. Singapore Refinery Company Pte Ltd and TuasOne Pte Ltd plan to start generating electricity in 2017 and 2018 respectively.

The power generation companies bid to sell electricity every half hour through the National Electricity Market of Singapore (NEMS), a real-time electricity trading pool operated and administered by the Energy Market Company.

As at end December 2016, there was a 126.1 MWp (megawatt-peak) of grid-connected solar photovoltaic capacity. The total registered power generation capacity was 13,348 MW. The total amount of electricity produced in 2016 was 51,586.6 GWh and the peak demand was 7,149 MW.



51,586.6 gigawatt hours of electricity was generated in 2016

Since 2001, EMA has progressively opened the electricity retail market to competition. Today, commercial and industrial consumers with an average monthly electricity consumption of at least 2,000 kWh can buy electricity from electricity retailers of their choice instead of at the regulated tariff from SP Group. EMA is working towards empowering the remaining 1.3 million small consumers consisting mainly of households, to enjoy the choice of buying electricity from retailers at market prices or remain on the regulated tariff.

There are currently 25 licensed electricity retailers competing to sell electricity to contestable consumers, namely:

- Best Electricity Supply Pte Ltd
- Buri Energy Pte Ltd
- Charis Electric Pte Ltd
- Cleantech Solar Management Company Pte Ltd
- Diamond Energy Merchants Pte Ltd
- **Energy Supply Solutions Pte Ltd**
- Environmental Solutions (Asia) Pte Ltd
- Hyflux Energy Pte Ltd
- I Switch Pte Ltd
- Just Electric Pte Ltd
- Keppel Electric Pte Ltd
- MyElectric Pte Ltd
- PacificLight Energy Pte Ltd
- Red Dot Power Pte Ltd
- SembCorp Power Pte Ltd
- Senoko Energy Supply Pte Ltd
- Seraya Energy Pte Ltd
- SilverCloud Energy Pte Ltd
- SmartCity Electric Pte Ltd
- Sun Electric Power Pte Ltd
- Sunseap Energy Pte Ltd
- Tuas Power Supply Pte Ltd
- Union Power Pte Ltd
- ValuElectric Pte Ltd
- Virtuse Group Lte Ltd

Piped Gas Industry



The gas industry in Singapore consists of two separate gas networks - the town gas network and the natural gas network.

The town gas network serves about 59% of households in Singapore and is used mainly for cooking and water heating by domestic and commercial customers. Total town gas sold in 2016 was 1,740 million kWh.



1,740.6 million units of town gas was sold in

Natural gas is used mainly for power generation. In 2016, natural gas contributed to about 95% of the total electricity generated.

To diversify our energy sources and meet the rising demand for energy, Singapore imports Liquefied Natural Gas (LNG) from across the world. The LNG terminal currently has a throughput capacity of 6 million tonnes per annum.

Waste Management



Over the last four decades, Singapore has seen an increase in the amount of solid waste generated.

Waste generated in Singapore is broadly classified into two categories. They are:

- Domestic waste: Collected from i) residential premises, markets, food retail outlets, schools and trade premises; and
- ii) Non-domestic waste: Collected from commercial and industrial premises.



3.05 million tonnes of waste was disposed of in 2016.

With limited land resources available for waste disposal, the National Environment Agency (NEA) has adopted the following strategies

to manage the growth in solid waste generation:

- Minimise and segregate waste at source:
- cost-effective Develop collection. recycling and disposal systems;
- Build a resource-efficient society; and c)
- Maximise lifespan of landfill. d)



4.77 million tonnes of waste was recycled in 2016.

Today, Singapore has in place an integrated solid waste management system. Waste that is not segregated at source for recycling is collected and sent to disposal facilities. Incinerable waste is disposed of safely waste-to-energy plants, while non-incinerable waste and ash residue from the incineration process are disposed of at the offshore Semakau Landfill.

Fire Occurrences



The mission of the Singapore Civil Defence Force (SCDF) is to protect and save lives and property for a safe and secure Singapore. SCDF compiles data on fire occurrences.



4,114 fire occurrences in 2016.

Definitions



Residential buildings: Refers to all buildings, either permanent or temporary, used for residential purposes only, such as bungalows, private and public housing, semi-detached and terrace houses. They do not include boarding houses, hostels and hotels.

Non-residential buildings: Refers to all either permanent or temporary, buildings, used for other than residential purposes, commercial, industrial, social such as and communal.

Non-building structures: Refers to all properties or structures other than buildings, such as discarded materials, electrical cables, vegetation, vehicles and vessels.

Criminal Offences



Singapore's crime statistics are compiled from offences reported to the police during the reference period and not at the time the offences were actually committed.



Crime rate was **588** per 100,000 population.

Bankruptcy Applications, Orders Made and Discharges



A bankruptcy application is filed with the High Court by the creditor or the debtor himself.

Upon hearing the bankruptcy application, the High Court may make a bankruptcy order declaring the individual a bankrupt.

A bankruptcy discharge refers to the conclusion of the bankruptcy of an individual. The individual is no longer subject to the restrictions and disabilities of a bankrupt after his discharge.

Bankruptcy Statistics, 2016



2,704 bankruptcy applications



1.797 bankruptcy orders made



bankruptcy discharges

27.1 WATER SALES AND WATER PRICES 1

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-------------------------------------|-----------------------------------|------------|------------|------------|--------------|--------------|--------------|--------------|
| | | 2010 | 2011 | 2012 | 2013 | 202-1 | 2013 | 2010 |
| Sales of Potable Water | Million m³ per year | 476.1 | 478.4 | 490.9 | 498.6 | 506.3 | 514.7 | 517.0 |
| Domestic | Million m ³ per year | 281.0 | 281.3 | 284.4 | 286.7 | 291.2 | 297.1 | 301.4 |
| Non-domestic | Million m ³ per year | 195.1 | 197.2 | 206.5 | 211.9 | 215.1 | 217.6 | 215.6 |
| Sales of NEWater | Million m ³ per year | 96.4 | 102.4 | 111.4 | 114.1 | 117.1 | 124.8 | 126.6 |
| Sales of Industrial Water | Million m ³ per year | 24.5 | 23.1 | 25.3 | 27.6 | 27.6 | 25.0 | 21.0 |
| Potable Water Price for | | | | | | | | |
| Domestic Users, 0-40m ² | \$ per m ³ | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 |
| Tariff | \$ per m ³ | 1.17 | 1.17 | 1.17 | 1.17 | 1.17 | 1.17 | 1.17 |
| Water Conservation Tax | \$ | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 |
| Waterborne Fee | \$ | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 |
| Sanitary Appliance Fee ² | \$ per fitting | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| Potable Water Price for | | | | | | | | |
| Domestic Users, > 40m ² | \$ per m ³ | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 |
| Tariff | \$ per m ³ | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 |
| Water Conservation Tax | \$ | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 |
| Waterborne Fee | \$ | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 |
| Sanitary Appliance Fee ² | \$ per fitting | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| Potable Water Price for | | | | | | | | |
| Non-domestic Users | \$ per m ³ | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 |
| Tariff | \$ per m ³ | 1.17 | 1.17 | 1.17 | 1.17 | 1.17 | 1.17 | 1.17 |
| Water Conservation Tax | \$ | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 |
| Waterborne Fee | \$ | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 |
| Sanitary Appliance Fee ² | \$ per fitting | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| Potable Water Price for | | | | | | | | |
| Shipping Customers | \$ per m ³ | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 |
| Tariff | \$ per m ³ | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 |
| Water Conservation Tax | \$ | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 |
| Waterborne Fee | \$ | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 |
| NEWater Price | \$ per m ³ | 1.66 | 1.66 | 1.78 | 1.78 | 1.78 | 1.78 | 1.78 |
| Tariff | \$ per m ³ | 1.10 | 1.10 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 |
| Waterborne Fee | \$ | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 |
| Industrial Water Price | \$ per m ³ | 0.46 | 0.53 | 0.59 | 1 21 | 1 21 | 1 21 | 1 21 |
| Industrial Water Price | \$ per m \$ per m ³ | | 0.52 | 0.58 | 1.21 | 1.21 | 1.21 | 1.21 |
| Tariff Waterborne Fee | \$ per m \$ | 0.46 na | 0.52 na | 0.58 na | 0.65 0.56 | 0.65 0.56 | 0.65 0.56 | 0.65 0.56 |
| | | | | | | | | |

Sources : Ministry of the Environment and Water Resources PUB, Singapore's national water agency

Notes: Data on water prices are as at end of December of each year.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=1889 http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=14539

¹ Water is charged by per cubic metre (m³), which is equivalent to 1,000 litres. Excludes Goods and Services Tax.

² For the calculation of total price, the Sanitary Appliance Fee is converted to its volumetric equivalent.

27.2 ELECTRICITY GENERATION, CONSUMPTION AND TARIFFS

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|---------------------------------------|------|----------|----------|----------|----------|----------|----------|----------|
| | 0 | 2010 | 2011 | 2012 | 2013 | 2011 | 2013 | 2010 |
| Electricity Generation ¹ | GWh | 45,366.5 | 45,999.4 | 46,936.2 | 47,963.5 | 49,309.7 | 50,271.6 | 51,586.6 |
| Electricity Consumption ² | GWh | 42,251.8 | 43,007.2 | 44,200.6 | 44,948.7 | 46,402.9 | 47,513.8 | 48,626.4 |
| Industrial-related | GWh | 17,662.5 | 18,077.4 | 18,572.4 | 18,842.7 | 19,753.2 | 20,088.0 | 20,418.4 |
| Manufacturing | GWh | 16,452.8 | 16,756.6 | 17,116.7 | 17,241.9 | 17,993.7 | 18,279.7 | 18,370.8 |
| Construction | GWh | 337.8 | 363.0 | 443.7 | 490.5 | 527.1 | 531.0 | 551.6 |
| Utilities | GWh | 843.4 | 928.5 | 978.9 | 1,074.8 | 1,198.0 | 1,235.1 | 1,450.2 |
| Other Industrial-related | GWh | 28.5 | 29.3 | 33.1 | 35.5 | 34.4 | 42.2 | 45.9 |
| Commerce and Service-related | GWh | 15,469.7 | 15,876.3 | 16,366.1 | 16,718.6 | 17,046.6 | 17,481.0 | 17,699.0 |
| Wholesale and Retail Trade | GWh | 1,923.0 | 1,898.8 | 1,909.4 | 1,967.1 | 2,020.5 | 2,107.4 | 2,073.4 |
| Accommodation and Food Services | GWh | 1,219.6 | 1,251.4 | 1,275.1 | 1,326.6 | 1,332.3 | 1,350.2 | 1,453.2 |
| Information and Communications | GWh | 925.5 | 988.6 | 1,084.4 | 1,149.1 | 1,294.5 | 1,426.7 | 1,848.0 |
| Financial and Insurance Activities | GWh | 1,927.0 | 2,003.2 | 2,204.2 | 2,257.9 | 2,574.1 | 2,718.1 | 2,361.7 |
| Real Estate Activities | GWh | 4,346.2 | 4,454.7 | 4,522.6 | 4,532.4 | 4,485.7 | 4,454.6 | 4,496.5 |
| Professional, Scientific & Technical, | | | | | | | | |
| Administration & Support Activities | GWh | 885.8 | 934.1 | 930.8 | 932.7 | 681.0 | 713.7 | 683.5 |
| Other Commerce and Service-related | GWh | 4,242.7 | 4,345.5 | 4,439.6 | 4,552.8 | 4,658.5 | 4,710.3 | 4,782.8 |
| Transport-related | GWh | 2,098.7 | 2,224.2 | 2,328.6 | 2,369.1 | 2,441.0 | 2,444.8 | 2,639.5 |
| Households | GWh | 6,636.0 | 6,482.7 | 6,629.5 | 6,754.9 | 6,924.4 | 7,220.9 | 7,589.4 |
| Others | GWh | 384.9 | 346.6 | 304.0 | 263.4 | 237.7 | 279.1 | 280.0 |

(continued on the next page)

Source: Energy Market Authority

Notes: Data on industries are classified according to the Singapore Standard Industrial Classification 2015.

¹ Data reflect the gross generation in the system. From Jan 2016, data include output from solar generation.

² Refers to the total electricity consumption by end users, including (embedded) consumption by autoproducers. From Jan 2016, data include consumption of output from solar generation.

27.2 ELECTRICITY GENERATION, CONSUMPTION AND TARIFFS (continued)

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| Electricity Tariff ³ | | | | | | | | |
| Low Tension Supplies | | | | | | | | |
| Domestic | ¢ per kWh | na | na | 27.93 | 26.25 | 25.59 | 21.73 | 18.90 |
| Non-Domestic | ¢ per kWh | na | na | 27.93 | 26.25 | 25.59 | 21.73 | 18.90 |
| High Tension Small Supplies | | | | | | | | |
| Contracted Capacity Charge | \$ per kW per month | na | na | 6.96 | 7.36 | 7.49 | 7.99 | 8.31 |
| Uncontracted Capacity Charge | \$ per chargeable kW per month | na | na | 10.44 | 11.04 | 11.24 | 11.98 | 12.46 |
| Peak period (7.00 am to 11.00 pm) | ¢ per kWh | na | na | 26.54 | 24.39 | 23.58 | 19.09 | 15.85 |
| Off-peak period (11.00 pm to 7.00 am | ¢ per kWh | na | na | 16.25 | 14.96 | 14.35 | 11.69 | 9.66 |
| Reactive Power Charge | ¢ per chargeable kVARh | na | na | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 |
| High Tension Large Supplies | | | | | | | | |
| Contracted Capacity Charge | \$ per kW per month | na | na | 6.96 | 7.36 | 7.49 | 7.99 | 8.31 |
| Uncontracted Capacity Charge | \$ per chargeable kW per month | na | na | 10.44 | 11.04 | 11.24 | 11.98 | 12.46 |
| Peak period (7.00 am to 11.00 pm) | ¢ per kWh | na | na | 26.32 | 24.17 | 23.36 | 18.87 | 15.63 |
| Off-peak period (11.00 pm to 7.00 am | ¢ per kWh | na | na | 16.24 | 14.95 | 14.34 | 11.68 | 9.65 |
| Reactive Power Charge | ¢ per chargeable kVARh | na | na | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 |
| Extra High Tension Supplies | | | | | | | | |
| Contracted Capacity Charge | \$ per kW per month | na | na | 6.52 | 6.81 | 6.90 | 7.26 | 7.50 |
| Uncontracted Capacity Charge | \$ per chargeable kW per month | na | na | 9.78 | 10.21 | 10.35 | 10.89 | 11.25 |
| Peak period (7.00 am to 11.00 pm) | ¢ per kWh | na | na | 25.36 | 23.22 | 22.41 | 17.99 | 14.79 |
| Off-peak period (11.00 pm to 7.00 am | ¢ per kWh | na | na | 16.14 | 14.84 | 14.23 | 11.59 | 9.56 |
| Reactive Power Charge | ¢ per chargeable kVARh | na | na | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 |

Source : SP Group

³ Excludes Goods and Services Tax.

27.3 GAS SALES AND TARIFFS

| | Unit | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-------------------------------------------|---------------|-----------|-----------|-----------|-----------|----------|----------|----------|
| Piped Gas Sales (Town Gas) | Million Units | 1,535.2 | 1,599.4 | 1,641.3 | 1,662.7 | 1,666.2 | 1,695.4 | 1,740.6 |
| Domestic | Million Units | 627.6 | 642.2 | 663.6 | 671.2 | 687.9 | 711.7 | 730.3 |
| Non-Domestic | Million Units | 907.6 | 957.2 | 977.7 | 991.6 | 978.4 | 983.9 | 1,010.3 |
| Liquefied Petroleum Gas Sales | Net Tonnes | 113,653.1 | 104,582.0 | 103,610.5 | 105,601.5 | 95,396.9 | 96,820.2 | 93,551.2 |
| Piped Gas Tariffs ¹ (Town Gas) | | | | | | | | |
| General Tariff | ¢ per kWh | 18.73 | 18.93 | 21.61 | 21.11 | 21.02 | 18.37 | 16.62 |
| Bulk Tariff A ² | ¢ per kWh | 17.73 | 17.92 | 20.61 | 20.11 | 20.02 | 17.36 | 15.61 |
| Bulk Tariff B ³ | ¢ per kWh | 17.23 | 17.42 | 20.12 | 19.61 | 19.52 | 16.86 | 15.10 |

Sources: Liquefied Petroleum Gas Sales - Singapore Department of Statistics

Piped Gas Sales - City Gas Pte Ltd

Notes: One unit is equivalent to one kilowatt hour.

Piped Gas Tariffs - Annual data are the average of the monthly tariff from January to December of that year.

- 1 Data excludes Goods and Services Tax.

 Historical town gas tariffs are available from CityGas's Website (http://www.citygas.com.sg/forhome/useful-info-2/gas-tariffs/
- 2 The minimum consumption is 1,000 kWh of gas per month.
- 3 The minimum consumption is 50,000 kWh of gas per month.

Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=1887 Download time series at http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=14833

27.4 WASTE DISPOSED OF AND RECYCLED

Million Tonnes

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|---------------------------|------|------|------|------|------|------|------|
| Waste Disposed of | 2.76 | 2.86 | 2.93 | 3.02 | 3.04 | 3.02 | 3.05 |
| Domestic ¹ | 1.60 | 1.64 | 1.65 | 1.64 | 1.65 | 1.65 | 1.66 |
| Non-domestic ¹ | 1.16 | 1.22 | 1.28 | 1.39 | 1.39 | 1.37 | 1.39 |
| Waste Recycled | 3.76 | 4.04 | 4.34 | 4.83 | 4.47 | 4.65 | 4.77 |

Sources: Ministry of the Environment and Water Resources

National Environment Agency

Notes: Data exclude metals recovered from incineration bottom ash in a new metal recovery facility commissioned in 2015.

1 Data from 2013 are revised due to a waste vehicle reclassification exercise.

27.5 FIRE OCCURRENCES

| | | | | | | | Number |
|-------------------------|-------|-------|-------|-------|-------|-------|--------|
| Type of Property | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Total | 4,600 | 4,470 | 4,485 | 4,136 | 4,724 | 4,604 | 4,114 |
| Building | 3,857 | 3,819 | 3,766 | 3,485 | 3,453 | 3,403 | 3,324 |
| Residential | 3,267 | 3,254 | 3,184 | 2,952 | 2,888 | 2,898 | 2,818 |
| Non-residential | 590 | 565 | 582 | 533 | 565 | 505 | 506 |
| Non-Building Structures | 743 | 651 | 719 | 651 | 1,271 | 1,201 | 790 |

Source : Singapore Civil Defence Force

27.6 CRIME CASES RECORDED

| Type of Offence | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|------------------------------------------------|--------|--------|--------|----------------|--------|--------|--------|
| | | | Numbe | er of Cases Re | corded | | |
| Overall Crime | 33,152 | 31,508 | 31,015 | 29,984 | 32,315 | 33,839 | 32,964 |
| Crimes Against Persons | 4,177 | 3,969 | 3,824 | 3,822 | 4,269 | 4,139 | 4,374 |
| Violent / Serious Property Crimes ¹ | 567 | 443 | 389 | 418 | 535 | 299 | 248 |
| Housebreaking and Related Crimes | 896 | 706 | 598 | 543 | 360 | 340 | 285 |
| Theft and Related Crimes | 19,560 | 18,314 | 18,476 | 17,075 | 16,722 | 15,615 | 14,127 |
| Commercial Crimes | 3,804 | 3,880 | 3,507 | 3,947 | 5,687 | 8,426 | 8,379 |
| Miscellaneous Crimes | 4,148 | 4,196 | 4,221 | 4,179 | 4,742 | 5,020 | 5,551 |
| | | | Per 1 | 00,000 popul | ation | | |
| Overall Crime Rate | 653 | 608 | 584 | 555 | 591 | 611 | 588 |
| Crimes Against Persons | 82 | 77 | 72 | 71 | 78 | 75 | 78 |
| Violent / Serious Property Crimes ¹ | 11 | 9 | 7 | 8 | 10 | 5 | 4 |
| Housebreaking and Related Crimes | 18 | 14 | 11 | 10 | 7 | 6 | 5 |
| Theft and Related Crimes | 385 | 353 | 348 | 316 | 306 | 282 | 252 |
| Commercial Crimes | 75 | 75 | 66 | 73 | 104 | 152 | 149 |
| Miscellaneous Crimes | 82 | 81 | 79 | 77 | 87 | 91 | 99 |

Source : Singapore Police Force

 $Download\ time\ series\ at\ http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=1886$

27.7 NUMBER OF BANKRUPTCY APPLICATIONS, ORDERS MADE AND DISCHARGES

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|
| Applications For Bankruptcy | 2,202 | 2,314 | 3,019 | 2,824 | 2,587 | 2,612 | 2,704 |
| Bankruptcy Orders Made | 1,537 | 1,527 | 1,748 | 1,992 | 1,758 | 1,776 | 1,797 |
| Bankruptcy Discharges | 2,252 | 1,391 | 1,881 | 2,584 | 3,546 | 3,499 | 4,359 |

Source: Insolvency Office

¹ Refers to crimes which involve the taking of money or property by force or means of threat against the victims.

These include crimes where physical violence may not necessarily be involved e.g. cyber-extortion cases.





Statistics Singapore Website

The *Statistics Singapore Website* was launched by the Singapore Department of Statistics (DOS) in January 1995.

Internet users can access the website by connecting to http://www.singstat.gov.sg/

Key Singapore statistics are available via the following sections:

Statistics

which provides access to the latest statistical findings of DOS as well as statistics compiled by Research and Statistics Units (RSUs) in ministries and statutory boards.

News

which provides a listing of the news released by DOS and RSUs.

Publications

which presents the latest editions of DOS' publications, papers and articles.

Browse by Themes

which presents official statistics compiled by DOS and RSUs in the various ministries and statutory boards according to themes. Within each theme, relevant statistics and related press releases, publications and references are provided.

Statistical resources are available via:

Publication and Papers

which lists the latest editions of publications released by DOS according to statistical domains at http://www.singstat.gov.sg/publications/publications-and-papers.

All softcopy DOS publications are available for free downloading. Statistical tables of DOS publications in Excel format are also available.

❖ Advance Release Calendar

which provides a six months ahead advance release calendar of key statistical indicators.

The website also provides a convenient gateway to international statistical websites under the "Methodologies & Standards" section:

Guide to International Statistics

which provides hyperlinks to international databases and classifications, as well as websites of international bodies and other national statistical offices.

IMF Dissemination Standards Bulletin Board

which provides metadata about Singapore's key indicators in the real, fiscal, financial and external sectors, including dissemination practices and information about pre-release access of current indicators.



SingStat Express

SingStat Express is a personalised data delivery service which sends the latest press releases, notices of publication, newsletter, occasional and information papers to subscribers via email. SMS alert service is also available to local users. Subscription details are available from the Statistics Singapore Website (http://www.singstat.gov.sg/express).

INFORMATION DISSEMINATION SERVICES

(cont'd)



Really Simple Syndication

Really Simple Syndication (RSS) is an easy way to stay updated on the latest statistical news released via the Statistics Singapore Website. The SingStat RSS feed delivers statistical news highlights and hyperlinks to the source documents whenever the updates are posted. More information is available at http://www.singstat.gov.sg/services/really-simple-syndication-(rss).



SingStat Mobile App

SingStat Mobile App provides users ready access to the latest key Singapore official statistics through their mobile devices while on the go. Users may visualize data for the latest periods with some 200 charts of commonly used statistics from 25 data categories. The app is available for downloading in iOS and Android devices. More information is available at http://www.singstat.gov.sg/services/singstat-mobile-app



SingStat Table Builder

The SingStat Table Builder contains statistical data series on the Singapore economy and population for users to create customised data tables, plot graphs and charts and export them in different file formats. Explore data trends with this e-service at http://www.singstat.gov.sg/tablebuilder.



E-survey

The *E-survey* enables business organisations to complete and submit their survey forms through the internet. Using secured encryption protocols, the *E-survey* ensures that the information transmitted through the net is secured and protected. The system features online helps and validation checks to assist respondents in completing their survey forms. With the *E-survey*, respondents do away with the tedious paper work and manual tasks of mailing or faxing their survey returns to the Department.

Statistical Enquiries and Feedback

If you have any statistical enquiries or comment or suggestions on our statistical publications and electronic services, you are welcomed to:

E-mail us

info@singstat.gov.sg

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Fax to us

(65) 6332-7689

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Call us

1800-3238118* (local callers) (65) 6332-7738 (overseas callers)

^{*} Calls from mobile telephone lines to 1800 local toll free number may be subject to mobile airtime charges as imposed by the relevant mobile service provider.



We appreciate your views on the Yearbook of Statistics. Kindly spend a few minutes of your time to answer the following questions, and return the form to the address provided below. Alternatively, you may complete the form online through

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