



# Yearbook of Statistics Singapore 2019

YEARBOOK OF STATISTICS SINGAPORE, 2019  
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# PREFACE

The “Yearbook of Statistics Singapore 2019” is the fifty-second 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 275 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 2019

# Our Vision

National Statistical Service of Quality, Integrity and Expertise












# Our Mission

We deliver Insightful Statistics and Trusted Statistical Services that  
Empower Decision Making

# Our Guiding Principles

|  |  |
|--|--|
| <b>Professionalism<br/>&amp; Expertise</b> | <i>We adhere to professional ethics and develop statistical competency to produce quality statistics that comply with international concepts and best practices.</i> |
| <b>Relevance<br/>&amp; Reliability</b>     | <i>We produce statistics that users need and trust.</i>  |
| <b>Accessibility</b>                       | <i>We make our statistics readily available through user-friendly platforms.</i>   |
| <b>Confidentiality</b>                     | <i>We protect the confidentiality of information collected by us.</i>  |
| <b>Timeliness</b>                          | <i>We disseminate statistics at the earliest possible date while maintaining data quality.</i>   |
| <b>Innovation</b>                          | <i>We constantly seek ways to improve our processes, leveraging on new technology where feasible, to deliver better products and services to users.</i>              |
| <b>Collaboration</b>                       | <i>We engage users on data needs, data providers and respondents on supply of data, and undertake the role of national statistical coordination.</i>                 |
| <b>Effectiveness</b>                       | <i>We optimise resource utilisation, leveraging on administrative and alternative data sources to ease respondent burden.</i>  |

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## NOTATIONS

|     |                          |
|-----|--------------------------|
| na  | not available            |
| nec | not elsewhere classified |
| no  | number                   |
| -   | nil or negligible        |
| ..  | not significant          |

## NOTES

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:



## Addition of New Table

Table 26.8 Ticket Sales for Performing Arts Events



## Addition of New Series

Table 6.1 Balance of Payments  
Table 13.13 Gross Allocation, Returns, Total Allocated, Supply and Occupancy Rate of JTC's Ready-Built Facilities by Product Segment  
Table 15.12 Exports of Services by Services Category  
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Table 21.6 Singapore Manufactured Products Price Index  
Table 22.14 Intake of Students/Trainees Under the Full-time Institutional Training and Traineeship Programmes and Students/Trainees Who Completed the Programmes, 2018  
Table 25.5 Comcare Schemes  
Table 26.7 The Arts



## Replacement of Existing Series

Table 4.16 Indices of Unit Labour Cost By Industry  
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Table 5.4 Private Consumption Expenditure  
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Table 10.6 Cessation of Companies by Industry  
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Table 12.10 Unit Business Cost Index of Manufacturing  
Table 13.6 Supply of Commercial and Industrial Properties in the Pipeline by Development Status  
Table 14.1 Principal Statistics of Services  
Table 21.5 Domestic Supply Price Index  
Table 21.6 Singapore Manufactured Products Price Index

# Notes on Changes & Revisions (cont'd)



## Other Changes

Selected data series have been discontinued in the following tables:

|            |   |
|------------|---|
| Table 6.1  | Balance of Payments   |
| Table 13.7 | Approval, Construction Commencement and Completion of Commercial Developments |
| Table 19.7 | Number of Financial Institutions in Singapore                                 |
| Table 21.5 | Domestic Supply Price Index   |
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| Table 21.7 | Import Price Index  |
| Table 21.8 | Export Price Index  |
| Table 24.2 | Licensed Food Establishments  |

# Economy

**GDP 2018**  
At Current Market Prices

**S\$ 491 Bil**

Per Capita GDP  
**\$87,108**

Find out more at [www.singstat.gov.sg/modules/infographics/economy](http://www.singstat.gov.sg/modules/infographics/economy)

# Population

Total Population<sup>1</sup>  
**5.64 Mil**  
at end-June 2018

**7,804**  
persons<sup>1</sup>/sq km



Population  
Density

<sup>1</sup> Refers to total population comprising residents and non-residents.

Find out more at [www.singstat.gov.sg/modules/infographics/population](http://www.singstat.gov.sg/modules/infographics/population)

1



# Climate and Air Quality

# 1

# Climate and Air Quality



## Geography



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 main island of Singapore is about 49km from east to west and 25km from north to south with a coastline of 203km. The total land area of Singapore is approximately 722.5km<sup>2</sup> as at end June 2018. Among the smaller islands, the larger ones are Pulau Tekong (25.5km<sup>2</sup>), Pulau Ubin (10.2km<sup>2</sup>) and Sentosa (4.8km<sup>2</sup>). The figures are based on 2.515m High Water Mark cadastral survey boundaries.



Singapore is generally flat, with much of the island lying within 15 m of sea level. The highest point of the island's surface reaches 163 m.

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



Singapore has a tropical climate, with relatively uniform temperature, abundant rainfall and high humidity. The climate is characterised by two monsoon seasons – the Northeast Monsoon (December to early March) and the Southwest Monsoon (June to September) separated by inter-monsoonal periods.

The early part of the Northeast Monsoon is the wetter period of the year when monsoon surges occur. Afternoon thunderstorms are common throughout the year, especially during the inter-monsoonal periods.

During the Southwest Monsoon and inter-monsoonal periods, widespread heavy rain and gusty winds associated with Sumatra squalls occur occasionally.

Singapore's 1981-2010 long-term average daily temperature is 27.5°C, with an average daily maximum and minimum of 31.5°C and 24.7°C respectively. The long-term average annual rainfall is 2,166mm.

## 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.

The air quality can be described as 'Good', 'Moderate', 'Unhealthy', 'Very unhealthy' or 'Hazardous' from the Pollutant Standards Index (PSI) reading. The PSI is computed based on six key air pollutant parameters: Sulphur Dioxide (SO<sub>2</sub>), Particulate Matter (PM<sub>10</sub> and PM<sub>2.5</sub>), Nitrogen Dioxide (NO<sub>2</sub>), Carbon Monoxide (CO) and Ozone (O<sub>3</sub>).

Air quality in 2018 was not affected by transboundary haze and was in the 'Good' and 'Moderate' range throughout the year.

An annual summary of Singapore's air quality is available in the "Key Environmental Statistics" report, published by the Ministry of the Environment and Water Resources (MEWR).

## 1.1 AIR TEMPERATURE AND SUNSHINE

|                   | Unit | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|-------------------|------|------|------|------|------|------|------|------|
| Air Temperature   |      |      |      |      |      |      |      |      |
| Means             |      |      |      |      |      |      |      |      |
| Daily Maximum     | °C   | 31.2 | 31.3 | 31.6 | 31.9 | 32.0 | 31.1 | 31.6 |
| Daily Minimum     | °C   | 25.0 | 25.0 | 25.3 | 25.8 | 25.8 | 25.2 | 25.4 |
| Absolute Extremes |      |      |      |      |      |      |      |      |
| Maximum           | °C   | 33.7 | 35.2 | 34.5 | 34.4 | 35.0 | 34.6 | 35.0 |
| Minimum           | °C   | 21.1 | 20.9 | 21.1 | 21.9 | 21.6 | 21.8 | 21.3 |
| Bright Sunshine   |      |      |      |      |      |      |      |      |
| Daily Mean        | Hour | 5.5  | 5.4  | 6.0  | 6.2  | 6.0  | 5.8  | 5.7  |

Source : National Environment Agency

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

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15309](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15309)

## 1.2 RELATIVE HUMIDITY AND RAINFALL

|                                 | Unit     | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
|---------------------------------|----------|---------|---------|---------|---------|---------|---------|---------|
| Minimum Relative Humidity       | Per Cent | 48      | 36      | 37      | 35      | 33      | 44      | 33      |
| 24 Hours Mean Relative Humidity | Per Cent | 83.5    | 81.7    | 78.5    | 76.9    | 76.0    | 82.6    | 79.6    |
| Rainfall                        |          |         |         |         |         |         |         |         |
| Total                           | mm       | 2,159.9 | 2,748.4 | 1,538.4 | 1,266.8 | 1,955.7 | 2,045.6 | 1,708.2 |
| Highest Daily Total             | mm       | 92.3    | 139.8   | 64.4    | 63.2    | 75.4    | 69.8    | 60.6    |
| Rainy Days                      | No.      | 191     | 206     | 152     | 125     | 179     | 204     | 188     |

Source : National Environment Agency

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

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15309](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15309)



## 1.3 AIR POLLUTION LEVELS

|   | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|------|------|------|------|------|------|------|
| $\mu\text{g}/\text{m}^3$                |      |      |      |      |      |      |      |
| Sulphur Dioxide                         |      |      |      |      |      |      |      |
| Annual mean                             | 13   | 14   | 12   | 12   | 13   | 12   | 9    |
| Maximum 24-hour mean                    | 98   | 75   | 83   | 75   | 61   | 59   | 65   |
| Nitrogen Dioxide                        |      |      |      |      |      |      |      |
| Annual mean                             | 25   | 25   | 24   | 22   | 26   | 25   | 26   |
| Maximum 1-hour mean                     | 154  | 132  | 121  | 99   | 123  | 158  | 147  |
| Particulate Matter (PM <sub>10</sub> )  |      |      |      |      |      |      |      |
| Annual mean                             | 29   | 31   | 30   | 37   | 26   | 25   | 29   |
| 99th percentile 24-hour mean            | 57   | 215  | 75   | 186  | 61   | 57   | 59   |
| Particulate Matter (PM <sub>2.5</sub> ) |      |      |      |      |      |      |      |
| Annual mean                             | 19   | 20   | 18   | 24   | 15   | 14   | 15   |
| 99th percentile 24-hour mean            | 42   | 176  | 51   | 145  | 40   | 34   | 32   |
| Carbon Monoxide                         |      |      |      |      |      |      |      |
| Maximum 8-hour mean                     | 1.9  | 5.5  | 1.8  | 3.3  | 2.2  | 1.7  | 2.0  |
| Maximum 1-hour mean                     | 2.4  | 7.5  | 2.7  | 3.5  | 2.7  | 2.3  | 2.5  |
| Ozone                                   |      |      |      |      |      |      |      |
| Maximum 8-hour mean                     | 122  | 139  | 135  | 152  | 115  | 191  | 150  |

Source : National Environment Agency

Notes : Singapore's Air Quality Targets by 2020

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

World Health Organisation (WHO) Interim Target-2: Sulphur Dioxide  $\leq 50 \mu\text{g}/\text{m}^3$  (24-hour mean)

WHO Air Quality Guideline: Nitrogen Dioxide  $\leq 40 \mu\text{g}/\text{m}^3$  (annual mean)

$\leq 200 \mu\text{g}/\text{m}^3$  (1-hour mean)

WHO Air Quality Guideline: PM<sub>10</sub> (Particulate Matter  $\leq 10$  microns)  $\leq 20 \mu\text{g}/\text{m}^3$  (annual mean)

$\leq 50 \mu\text{g}/\text{m}^3$  (99th Percentile 24-hour mean)

Singapore Sustainable Blueprint Target: PM<sub>2.5</sub> (Particulate Matter  $\leq 2.5$  microns)  $\leq 12 \mu\text{g}/\text{m}^3$  (annual mean)

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

WHO Air Quality Guideline: Carbon Monoxide  $\leq 10 \text{mg}/\text{m}^3$  (8-hour mean)

$\leq 30 \text{mg}/\text{m}^3$  (1-hour mean)

WHO Air Quality Guideline: Ozone  $\leq 100 \mu\text{g}/\text{m}^3$  (Maximum 8-hour mean)

PM<sub>10</sub>, PM<sub>2.5</sub> 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 [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14589](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14589)

2



# 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 were carried out since 1947. The 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.

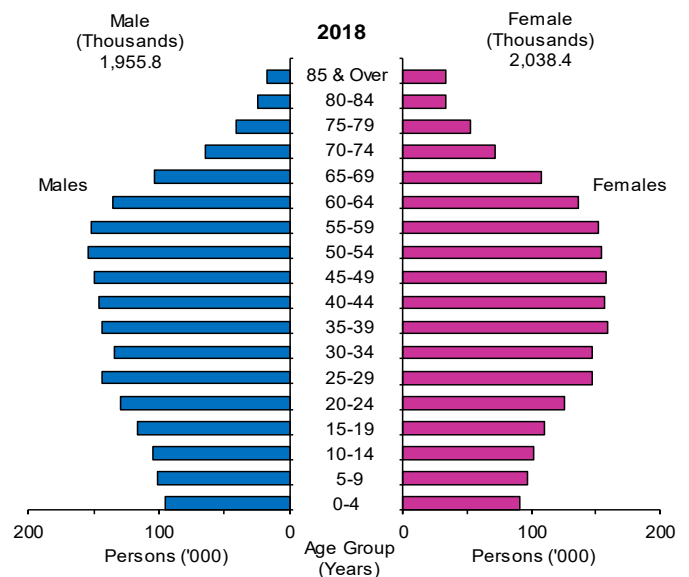
Singapore conducted the first mid-decade mini-census (General Household Survey) in 1995. Subsequent General Household Surveys were conducted in 2005 and 2015.

### 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 2018



### 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

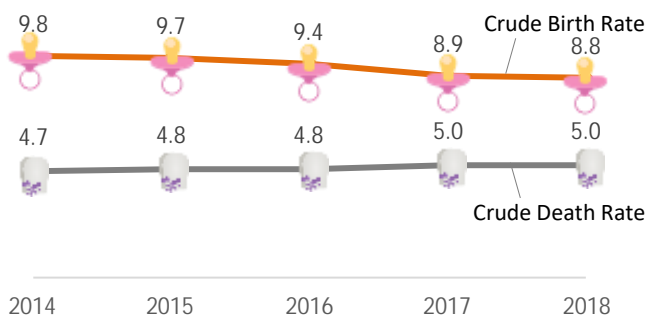


classified separately from births and deaths, must be registered within 14 days of their occurrence.

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 the nearest Police Divisional Headquarter, Neighbourhood Police Centre or Neighbourhood Police Post. The registration system is 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)



## 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, 2018



## Divorces and Annulments



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

Statistics on divorces under the Administration of Muslim Law Act 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 relating to divorces and annulments found in this publication, 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, 2018



## 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 subject to the prevailing age-specific fertility rates in the population in a given year. 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 subject to the prevailing age-specific fertility rates in the population in a given year.

**Net reproduction rate:** Refers to the average number of daughters each female would have during her reproductive years if she were subject to the prevailing age-specific fertility and mortality rates in the population in a given year. 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. Statistical analyses of Singapore's changing population profiles can also be found in the publication.

## Key Indicators in 2018



**Total Fertility Rate** was **1.14** per female



**Infant Mortality Rate** was **2.1** per 1,000 live-births

**Life Expectancy at Birth** was ...

**81.0** years for male residents



**85.4** years for female residents

**83.2** years for total residents

## 2.1 SINGAPORE POPULATION SIZE AND GROWTH BY RESIDENTIAL STATUS

| Year  | Total Population <sup>1</sup> | Singapore Residents   |                    |                               | Non-Residents |
|---|-------------------------------|-----------------------|--------------------|-------------------------------|---------------|
|   |                               | Total                 | Singapore Citizens | Singapore Permanent Residents |               |
|   |                               | Number as at end-June |                    |                               |               |
| 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     |
| 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     |
| 2017  | 5,612,253                     | 3,965,796             | 3,439,177          | 526,619                       | 1,646,457     |
| 2018  | 5,638,676                     | 3,994,283             | 3,471,936          | 522,347                       | 1,644,393     |
| Average Annual Growth <sup>2</sup> (Per Cent) |                               |                       |                    |                               |               |
| 1990 (Census)                                 | 2.3 <sup>3</sup>              | 1.7 <sup>3</sup>      | 1.7 <sup>3</sup>   | 2.3 <sup>3</sup>              | 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           |
| 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           |
| 2017  | 0.1                           | 0.8                   | 0.9                | 0.4                           | -1.6          |
| 2018  | 0.5                           | 0.7                   | 1.0                | -0.8                          | -0.1          |

Notes : Data from 1990 onwards are based on de jure concept (i.e. the person's place of usual residence).

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, 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 [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14912](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14912)

## 2.2 VITAL RATES

| Year | Rate of Natural Increase | Crude Birth Rate | Crude Death Rate | Age-Standardised Death Rate <sup>1</sup> | Infant Mortality Rate | Total Fertility Rate | Gross Reproduction Rate | Net Reproduction 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                  |
| 2017 | 4.0                      | 8.9              | 5.0              | 3.0                                      | 2.2                   | 1.16                 | 0.56                    | 0.56                  |
| 2018 | 3.7                      | 8.8              | 5.0              | 2.9                                      | 2.1                   | 1.14                 | 0.56                    | 0.55                  |

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).

- 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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=14912](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=14912)  
[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=13274](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=13274)  
[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=13273](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=13273)

## 2.3 SINGAPORE RESIDENTS BY AGE GROUP AND SEX, END-JUNE

| Age Group (Years) | Number    |           |           |           |           |           |           |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                   | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
| Males             |           |           |           |           |           |           |           |
| Total             | 1,880,046 | 1,891,504 | 1,902,410 | 1,916,628 | 1,929,526 | 1,943,545 | 1,955,838 |
| 0 - 4             | 94,924    | 93,520    | 92,528    | 93,852    | 95,678    | 96,041    | 94,916    |
| 5 - 9             | 105,033   | 104,586   | 104,588   | 103,861   | 102,426   | 102,010   | 101,636   |
| 10 - 14           | 119,697   | 116,000   | 112,959   | 109,401   | 105,589   | 104,885   | 105,026   |
| 15 - 19           | 132,106   | 129,989   | 126,514   | 124,287   | 122,911   | 119,500   | 116,102   |
| 20 - 24           | 132,675   | 134,034   | 132,902   | 133,493   | 132,046   | 131,825   | 129,956   |
| 25 - 29           | 123,056   | 124,013   | 129,304   | 132,504   | 137,243   | 142,427   | 143,758   |
| 30 - 34           | 140,686   | 141,262   | 138,954   | 137,847   | 135,596   | 132,378   | 133,775   |
| 35 - 39           | 152,252   | 147,408   | 144,959   | 143,795   | 143,553   | 142,776   | 143,661   |
| 40 - 44           | 151,213   | 152,691   | 154,320   | 154,460   | 152,466   | 150,641   | 145,974   |
| 45 - 49           | 161,122   | 158,312   | 153,194   | 149,607   | 147,517   | 148,095   | 149,811   |
| 50 - 54           | 156,561   | 157,789   | 158,734   | 158,465   | 158,202   | 156,386   | 153,908   |
| 55 - 59           | 136,379   | 140,813   | 144,316   | 147,860   | 150,315   | 151,320   | 152,528   |
| 60 - 64           | 105,781   | 110,241   | 115,217   | 119,660   | 125,130   | 130,589   | 134,928   |
| 65 - 69           | 62,372    | 70,525    | 78,285    | 88,697    | 96,349    | 99,351    | 103,758   |
| 70 - 74           | 47,890    | 48,663    | 49,438    | 47,779    | 48,691    | 56,463    | 64,029    |
| 75 - 79           | 29,715    | 31,164    | 33,753    | 36,126    | 38,976    | 40,524    | 41,288    |
| 80 - 84           | 17,496    | 18,572    | 19,515    | 20,932    | 21,884    | 22,400    | 23,779    |
| 85 & Over         | 11,088    | 11,922    | 12,930    | 14,002    | 14,954    | 15,934    | 17,005    |
| Females           |           |           |           |           |           |           |           |
| Total             | 1,938,159 | 1,953,247 | 1,968,329 | 1,986,062 | 2,004,033 | 2,022,251 | 2,038,445 |
| 0 - 4             | 91,749    | 89,775    | 88,841    | 89,723    | 91,482    | 91,612    | 90,612    |
| 5 - 9             | 101,291   | 101,118   | 101,202   | 100,591   | 99,083    | 98,565    | 97,430    |
| 10 - 14           | 113,623   | 110,244   | 107,837   | 104,987   | 101,906   | 101,368   | 101,504   |
| 15 - 19           | 126,755   | 125,077   | 120,823   | 118,615   | 116,860   | 113,473   | 110,418   |
| 20 - 24           | 131,831   | 132,855   | 131,016   | 130,634   | 128,808   | 127,247   | 125,560   |
| 25 - 29           | 131,526   | 131,602   | 136,355   | 138,526   | 142,745   | 147,771   | 147,873   |
| 30 - 34           | 154,710   | 155,608   | 153,333   | 152,772   | 149,948   | 146,962   | 147,622   |
| 35 - 39           | 161,718   | 158,095   | 157,070   | 157,272   | 158,445   | 158,180   | 160,059   |
| 40 - 44           | 157,610   | 159,890   | 161,703   | 162,295   | 160,979   | 160,843   | 157,666   |
| 45 - 49           | 159,803   | 158,024   | 155,339   | 153,806   | 153,666   | 155,362   | 158,027   |
| 50 - 54           | 153,815   | 155,199   | 156,769   | 156,626   | 157,396   | 156,428   | 155,057   |
| 55 - 59           | 135,438   | 140,256   | 144,076   | 147,203   | 149,276   | 150,358   | 151,862   |
| 60 - 64           | 108,215   | 111,913   | 116,285   | 120,833   | 126,723   | 132,062   | 136,760   |
| 65 - 69           | 66,507    | 75,292    | 82,913    | 93,728    | 101,671   | 104,618   | 108,343   |
| 70 - 74           | 56,524    | 57,083    | 57,377    | 54,852    | 55,105    | 63,031    | 71,517    |
| 75 - 79           | 37,960    | 39,455    | 42,541    | 45,085    | 48,979    | 51,429    | 52,039    |
| 80 - 84           | 26,619    | 27,627    | 28,903    | 30,853    | 31,672    | 31,941    | 33,324    |
| 85 & Over         | 22,465    | 24,134    | 25,946    | 27,661    | 29,289    | 31,001    | 32,772    |

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

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14911](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14911)

## 2.4 SINGAPORE RESIDENTS BY AGE GROUP, ETHNIC GROUP AND SEX, END-JUNE 2018

| Ethnic Group / Sex | Total     | Number  |         |         |         |         |         |         |         |
|--------------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
|                    |           | 0 - 4   | 5 - 9   | 10 - 14 | 15 - 19 | 20 - 24 | 25 - 29 | 30 - 34 | 35 - 39 |
| Total              | 3,994,283 | 185,528 | 199,066 | 206,530 | 226,520 | 255,516 | 291,631 | 281,397 | 303,720 |
| Males              | 1,955,838 | 94,916  | 101,636 | 105,026 | 116,102 | 129,956 | 143,758 | 133,775 | 143,661 |
| Females            | 2,038,445 | 90,612  | 97,430  | 101,504 | 110,418 | 125,560 | 147,873 | 147,622 | 160,059 |
| Chinese            | 2,969,281 | 126,229 | 137,097 | 136,796 | 154,198 | 180,656 | 213,123 | 206,873 | 221,887 |
| Males              | 1,445,375 | 64,571  | 70,539  | 70,044  | 79,286  | 92,077  | 105,003 | 98,895  | 105,120 |
| Females            | 1,523,906 | 61,658  | 66,558  | 66,752  | 74,912  | 88,579  | 108,120 | 107,978 | 116,767 |
| Malays             | 535,824   | 36,169  | 30,930  | 33,438  | 40,170  | 45,986  | 48,796  | 41,104  | 34,512  |
| Males              | 266,486   | 18,624  | 15,878  | 17,117  | 20,922  | 23,682  | 24,921  | 20,661  | 16,955  |
| Females            | 269,338   | 17,545  | 15,052  | 16,321  | 19,248  | 22,304  | 23,875  | 20,443  | 17,557  |
| Indians            | 360,528   | 16,689  | 22,990  | 26,758  | 23,655  | 22,268  | 23,361  | 24,723  | 33,661  |
| Males              | 184,496   | 8,571   | 11,518  | 13,329  | 11,849  | 11,058  | 11,510  | 11,541  | 16,330  |
| Females            | 176,032   | 8,118   | 11,472  | 13,429  | 11,806  | 11,210  | 11,851  | 13,182  | 17,331  |
| Others             | 128,650   | 6,441   | 8,049   | 9,538   | 8,497   | 6,606   | 6,351   | 8,697   | 13,660  |
| Males              | 59,481    | 3,150   | 3,701   | 4,536   | 4,045   | 3,139   | 2,324   | 2,678   | 5,256   |
| Females            | 69,169    | 3,291   | 4,348   | 5,002   | 4,452   | 3,467   | 4,027   | 6,019   | 8,404   |

| Ethnic Group / Sex | Number  |         |         |         |         |         |         |         |         |           |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|
|                    | 40 - 44 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | 75 - 79 | 80 - 84 | 85 & Over |
| Total              | 303,640 | 307,838 | 308,965 | 304,390 | 271,688 | 212,101 | 135,546 | 93,327  | 57,103  | 49,777    |
| Males              | 145,974 | 149,811 | 153,908 | 152,528 | 134,928 | 103,758 | 64,029  | 41,288  | 23,779  | 17,005    |
| Females            | 157,666 | 158,027 | 155,057 | 151,862 | 136,760 | 108,343 | 71,517  | 52,039  | 33,324  | 32,772    |
| Chinese            | 224,416 | 229,736 | 229,401 | 232,490 | 216,752 | 174,682 | 113,955 | 80,247  | 48,056  | 42,687    |
| Males              | 105,892 | 109,048 | 112,715 | 115,822 | 107,316 | 85,687  | 53,792  | 35,684  | 20,059  | 13,825    |
| Females            | 118,524 | 120,688 | 116,686 | 116,668 | 109,436 | 88,995  | 60,163  | 44,563  | 27,997  | 28,862    |
| Malays             | 29,543  | 32,821  | 41,235  | 40,637  | 31,742  | 20,922  | 12,011  | 7,193   | 5,131   | 3,484     |
| Males              | 14,169  | 15,807  | 20,212  | 20,185  | 15,577  | 9,762   | 5,518   | 3,023   | 2,107   | 1,366     |
| Females            | 15,374  | 17,014  | 21,023  | 20,452  | 16,165  | 11,160  | 6,493   | 4,170   | 3,024   | 2,118     |
| Indians            | 34,181  | 30,480  | 27,280  | 23,858  | 18,500  | 13,432  | 7,788   | 4,838   | 3,178   | 2,888     |
| Males              | 18,881  | 17,731  | 15,181  | 12,572  | 9,365   | 6,543   | 3,652   | 2,052   | 1,280   | 1,533     |
| Females            | 15,300  | 12,749  | 12,099  | 11,286  | 9,135   | 6,889   | 4,136   | 2,786   | 1,898   | 1,355     |
| Others             | 15,500  | 14,801  | 11,049  | 7,405   | 4,694   | 3,065   | 1,792   | 1,049   | 738     | 718       |
| Males              | 7,032   | 7,225   | 5,800   | 3,949   | 2,670   | 1,766   | 1,067   | 529     | 333     | 281       |
| Females            | 8,468   | 7,576   | 5,249   | 3,456   | 2,024   | 1,299   | 725     | 520     | 405     | 437       |

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

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## 2.5 RESIDENT AGE-SPECIFIC FERTILITY RATES

| Age Group (Years) | Per Thousand Females |      |      |      |      |      |      |
|-------------------|----------------------|------|------|------|------|------|------|
|                   | 2012                 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| 15 - 19           | 4.3                  | 3.8  | 3.3  | 2.7  | 2.7  | 2.6  | 2.5  |
| 20 - 24           | 22.2                 | 19.7 | 19.5 | 18.7 | 17.0 | 15.1 | 14.4 |
| 25 - 29           | 76.7                 | 70.5 | 71.1 | 68.7 | 65.8 | 62.2 | 60.6 |
| 30 - 34           | 99.5                 | 90.2 | 99.3 | 98.5 | 96.2 | 93.3 | 92.9 |
| 35 - 39           | 46.3                 | 44.7 | 48.3 | 49.9 | 49.7 | 48.6 | 48.4 |
| 40 - 44           | 8.0                  | 8.0  | 8.3  | 8.9  | 8.8  | 9.0  | 8.8  |
| 45 - 49           | 0.3                  | 0.3  | 0.3  | 0.4  | 0.3  | 0.5  | 0.5  |

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

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=13273](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=13273)

## 2.6 LIVE-BIRTHS BY ETHNIC GROUP AND SEX

| Ethnic Group / Sex  | Number |        |        |        |        |        |        |
|---------------------|--------|--------|--------|--------|--------|--------|--------|
|                     | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
| Total               | 42,663 | 39,720 | 42,232 | 42,185 | 41,251 | 39,615 | 39,039 |
| Males               | 22,102 | 20,528 | 21,679 | 21,755 | 21,315 | 20,408 | 20,093 |
| Females             | 20,561 | 19,191 | 20,552 | 20,430 | 19,936 | 19,207 | 18,945 |
| Chinese             | 26,760 | 23,890 | 25,958 | 25,412 | 24,749 | 23,360 | 22,650 |
| Males               | 13,998 | 12,388 | 13,446 | 13,054 | 12,750 | 11,985 | 11,642 |
| Females             | 12,762 | 11,502 | 12,512 | 12,358 | 11,999 | 11,375 | 11,008 |
| Malays              | 5,908  | 6,067  | 6,468  | 6,961  | 7,143  | 7,315  | 7,592  |
| Males               | 3,047  | 3,130  | 3,265  | 3,608  | 3,701  | 3,784  | 3,895  |
| Females             | 2,861  | 2,937  | 3,202  | 3,353  | 3,442  | 3,531  | 3,696  |
| Indians             | 4,672  | 4,648  | 4,678  | 4,895  | 4,499  | 4,421  | 4,349  |
| Males               | 2,311  | 2,398  | 2,347  | 2,564  | 2,355  | 2,250  | 2,240  |
| Females             | 2,361  | 2,250  | 2,331  | 2,331  | 2,144  | 2,171  | 2,109  |
| Other Ethnic Groups | 5,323  | 5,115  | 5,128  | 4,917  | 4,860  | 4,519  | 4,448  |
| Males               | 2,746  | 2,612  | 2,621  | 2,529  | 2,509  | 2,389  | 2,316  |
| Females             | 2,577  | 2,502  | 2,507  | 2,388  | 2,351  | 2,130  | 2,132  |

Source : Registry of Births and Deaths

Notes : 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 [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15162](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15162)



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

|                          | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   | Number |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Total                    | 42,663 | 39,720 | 42,232 | 42,185 | 41,251 | 39,615 | 39,039 |        |
| Birth Order <sup>1</sup> |        |        |        |        |        |        |        |        |
| 1st                      | 20,755 | 19,292 | 20,327 | 20,248 | 19,392 | 18,570 | 18,211 |        |
| 2nd                      | 15,082 | 13,924 | 15,262 | 14,857 | 14,913 | 14,206 | 13,937 |        |
| 3rd                      | 4,988  | 4,651  | 4,859  | 5,099  | 4,927  | 4,721  | 4,804  |        |
| 4th                      | 1,299  | 1,294  | 1,243  | 1,394  | 1,378  | 1,380  | 1,413  |        |
| 5th                      | 352    | 360    | 357    | 388    | 434    | 473    | 417    |        |
| 6th & over               | 187    | 199    | 184    | 199    | 207    | 265    | 257    |        |
| Place of Occurrence      |        |        |        |        |        |        |        |        |
| Public Sector Hospitals  | 16,403 | 15,646 | 17,066 | 17,730 | 17,895 | 17,911 | 18,375 |        |
| Private Sector Hospitals | 26,149 | 23,919 | 25,029 | 24,300 | 23,191 | 21,497 | 20,476 |        |
| Other Locations          | 111    | 155    | 137    | 155    | 165    | 207    | 188    |        |

Source : Registry of Births and Deaths

Notes : Data are based on date of occurrence.

1 Includes birth order not stated.

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[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=13250](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=13250)

## 2.8 RESIDENT AGE-SEX SPECIFIC DEATH RATES

| Age Group (Years)    | Per Thousand Residents |       |       |       |       |       |       |
|----------------------|------------------------|-------|-------|-------|-------|-------|-------|
|                      | 2012                   | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|                      | Total                  |       |       |       |       |       |       |
| Total                | 4.5                    | 4.6   | 4.7   | 4.8   | 4.8   | 5.0   | 5.0   |
| Under 1 <sup>1</sup> | 1.8                    | 2.0   | 1.8   | 1.7   | 2.4   | 2.2   | 2.1   |
| 1 - 4                | 0.2                    | 0.2   | 0.1   | 0.1   | 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              | 0.2                    | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   |
| 20 - 24              | 0.3                    | 0.3   | 0.3   | 0.2   | 0.2   | 0.2   | 0.3   |
| 25 - 29              | 0.3                    | 0.3   | 0.2   | 0.3   | 0.3   | 0.3   | 0.3   |
| 30 - 34              | 0.4                    | 0.4   | 0.4   | 0.4   | 0.3   | 0.4   | 0.4   |
| 35 - 39              | 0.6                    | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 40 - 44              | 0.9                    | 0.9   | 0.9   | 0.9   | 0.9   | 0.8   | 0.7   |
| 45 - 49              | 1.6                    | 1.5   | 1.5   | 1.5   | 1.4   | 1.4   | 1.4   |
| 50 - 54              | 2.5                    | 2.7   | 2.5   | 2.5   | 2.4   | 2.6   | 2.3   |
| 55 - 59              | 4.6                    | 4.3   | 4.5   | 4.2   | 4.1   | 3.9   | 3.9   |
| 60 - 64              | 7.3                    | 7.0   | 6.4   | 6.5   | 6.2   | 6.3   | 6.3   |
| 65 - 69              | 11.9                   | 11.0  | 10.6  | 10.4  | 10.1  | 9.9   | 9.5   |
| 70 - 74              | 20.0                   | 19.6  | 18.5  | 18.2  | 16.7  | 16.9  | 16.5  |
| 75 - 79              | 33.3                   | 33.8  | 32.6  | 31.8  | 30.1  | 28.9  | 28.3  |
| 80 - 84              | 55.7                   | 55.7  | 56.3  | 51.6  | 53.0  | 53.7  | 51.4  |
| 85 & Over            | 116.2                  | 116.4 | 115.4 | 113.8 | 108.2 | 112.1 | 109.8 |

*(continued on the next page)*

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).

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## 2.8 RESIDENT AGE-SEX SPECIFIC DEATH RATES *(continued)*

| Age Group (Years)    | Per Thousand Residents |       |       |       |       |       |       |
|----------------------|------------------------|-------|-------|-------|-------|-------|-------|
|                      | 2012                   | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|                      | Males                  |       |       |       |       |       |       |
| Total                | 5.0                    | 5.1   | 5.2   | 5.2   | 5.3   | 5.5   | 5.6   |
| Under 1 <sup>1</sup> | 2.0                    | 1.8   | 1.9   | 2.2   | 2.3   | 2.0   | 2.3   |
| 1 - 4                | 0.2                    | 0.1   | 0.1   | 0.2   | 0.2   | 0.1   | 0.1   |
| 5 - 9                | 0.1                    | 0.1   | -     | 0.1   | 0.1   | 0.1   | -     |
| 10 - 14              | 0.2                    | 0.1   | -     | 0.1   | 0.2   | 0.1   | 0.1   |
| 15 - 19              | 0.2                    | 0.3   | 0.3   | 0.2   | 0.3   | 0.3   | 0.3   |
| 20 - 24              | 0.5                    | 0.4   | 0.4   | 0.3   | 0.3   | 0.3   | 0.4   |
| 25 - 29              | 0.4                    | 0.3   | 0.3   | 0.4   | 0.4   | 0.3   | 0.3   |
| 30 - 34              | 0.4                    | 0.6   | 0.5   | 0.5   | 0.4   | 0.5   | 0.5   |
| 35 - 39              | 0.6                    | 0.6   | 0.7   | 0.7   | 0.6   | 0.7   | 0.6   |
| 40 - 44              | 1.2                    | 1.2   | 1.3   | 1.1   | 1.1   | 1.1   | 0.9   |
| 45 - 49              | 1.9                    | 2.0   | 1.7   | 1.9   | 1.7   | 1.7   | 1.8   |
| 50 - 54              | 3.1                    | 3.4   | 3.0   | 3.1   | 3.1   | 3.1   | 2.8   |
| 55 - 59              | 5.8                    | 5.7   | 5.8   | 5.4   | 5.3   | 4.8   | 5.0   |
| 60 - 64              | 9.7                    | 8.8   | 8.4   | 8.5   | 8.2   | 8.2   | 8.2   |
| 65 - 69              | 15.2                   | 14.5  | 13.8  | 13.9  | 13.3  | 12.9  | 12.5  |
| 70 - 74              | 26.5                   | 26.0  | 24.4  | 23.9  | 22.5  | 22.9  | 22.4  |
| 75 - 79              | 42.3                   | 43.3  | 41.0  | 41.0  | 38.4  | 37.4  | 35.9  |
| 80 - 84              | 69.9                   | 68.2  | 70.6  | 63.7  | 66.6  | 65.5  | 62.8  |
| 85 & Over            | 132.3                  | 131.0 | 128.5 | 124.8 | 124.2 | 128.9 | 123.4 |

*(continued on the next page)*

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).

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## 2.8 RESIDENT AGE-SEX SPECIFIC DEATH RATES *(continued)*

| Age Group (Years)    | Per Thousand Residents |       |       |       |       |       |       |
|----------------------|------------------------|-------|-------|-------|-------|-------|-------|
|                      | 2012                   | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|                      | Females                |       |       |       |       |       |       |
| Total                | 4.1                    | 4.2   | 4.3   | 4.3   | 4.3   | 4.5   | 4.5   |
| Under 1 <sup>1</sup> | 1.6                    | 2.1   | 1.7   | 1.2   | 2.5   | 2.4   | 1.9   |
| 1 - 4                | 0.1                    | 0.2   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   |
| 5 - 9                | 0.1                    | -     | -     | -     | 0.1   | -     | 0.1   |
| 10 - 14              | 0.1                    | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   |
| 15 - 19              | 0.2                    | 0.2   | 0.2   | 0.2   | 0.1   | 0.1   | 0.1   |
| 20 - 24              | 0.2                    | 0.2   | 0.1   | 0.2   | 0.2   | 0.1   | 0.2   |
| 25 - 29              | 0.2                    | 0.2   | 0.1   | 0.2   | 0.2   | 0.2   | 0.2   |
| 30 - 34              | 0.4                    | 0.3   | 0.2   | 0.3   | 0.2   | 0.3   | 0.3   |
| 35 - 39              | 0.5                    | 0.4   | 0.3   | 0.4   | 0.3   | 0.3   | 0.4   |
| 40 - 44              | 0.7                    | 0.7   | 0.7   | 0.6   | 0.8   | 0.5   | 0.5   |
| 45 - 49              | 1.3                    | 1.1   | 1.2   | 1.1   | 1.1   | 1.1   | 1.0   |
| 50 - 54              | 2.0                    | 2.0   | 1.9   | 1.9   | 1.8   | 2.0   | 1.8   |
| 55 - 59              | 3.3                    | 3.0   | 3.2   | 3.1   | 3.0   | 3.0   | 2.7   |
| 60 - 64              | 5.1                    | 5.1   | 4.4   | 4.5   | 4.3   | 4.5   | 4.4   |
| 65 - 69              | 8.7                    | 7.8   | 7.5   | 7.1   | 7.0   | 7.0   | 6.6   |
| 70 - 74              | 14.5                   | 14.2  | 13.5  | 13.2  | 11.5  | 11.6  | 11.3  |
| 75 - 79              | 26.3                   | 26.3  | 25.9  | 24.4  | 23.5  | 22.2  | 22.3  |
| 80 - 84              | 46.4                   | 47.2  | 46.6  | 43.4  | 43.7  | 45.4  | 43.2  |
| 85 & Over            | 108.3                  | 109.1 | 108.8 | 108.2 | 100.0 | 103.4 | 102.7 |

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).

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## 2.9 DEATHS BY BROAD GROUP OF CAUSES

| Causes of Death                               | Number |        |        |        |        |        |        |
|---|--------|--------|--------|--------|--------|--------|--------|
|   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
| Total   | 18,481 | 18,938 | 19,393 | 19,862 | 20,017 | 20,905 | 21,282 |
| Infective & Parasitic Diseases                | 233    | 211    | 217    | 194    | 174    | 189    | 199    |
| of which : Tuberculosis                       | 65     | 51     | 60     | 41     | 41     | 32     | 28     |
| Neoplasms                                     | 5,651  | 5,849  | 5,790  | 5,986  | 5,993  | 6,237  | 6,243  |
| of which : Malignant                          | 5,565  | 5,775  | 5,701  | 5,903  | 5,925  | 6,077  | 6,132  |
| Endocrine, Nutritional & Metabolic Diseases   | 279    | 253    | 296    | 270    | 363    | 340    | 296    |
| of which : Diabetes                           | 268    | 247    | 277    | 250    | 343    | 321    | 281    |
| Diseases of the Blood & Blood-Forming Organs  | 20     | 14     | 23     | 10     | 14     | 17     | 25     |
| Diseases of the Nervous System & Sense Organs | 166    | 137    | 144    | 210    | 226    | 185    | 215    |
| Diseases of the Circulatory System            | 5,747  | 5,765  | 5,987  | 6,101  | 6,107  | 6,541  | 6,457  |
| of which : Heart & Hypertensive Diseases      | 3,848  | 3,914  | 4,165  | 4,534  | 4,576  | 4,970  | 4,939  |
| Cerebrovascular Disease                       | 1,714  | 1,680  | 1,620  | 1,357  | 1,317  | 1,310  | 1,277  |
| Diseases of the Respiratory System            | 3,708  | 4,061  | 4,232  | 4,417  | 4,440  | 4,757  | 4,909  |
| of which : Pneumonia                          | 3,096  | 3,512  | 3,680  | 3,859  | 3,855  | 4,212  | 4,380  |
| Diseases of the Digestive System              | 414    | 418    | 482    | 477    | 467    | 485    | 518    |
| Diseases of the Genito-Urinary System         | 934    | 967    | 951    | 928    | 913    | 925    | 1,092  |
| Congenital Anomalies                          | 54     | 47     | 50     | 62     | 72     | 49     | 61     |
| of which : Congenital Anomalies of Heart      | 25     | 21     | 26     | 32     | 38     | 22     | 27     |
| Certain Causes of Perinatal Mortality         | 44     | 43     | 42     | 30     | 36     | 39     | 35     |
| Accidents, Poisonings & Violence              | 1,030  | 933    | 909    | 895    | 890    | 840    | 909    |
| of which : Transport Accidents                | 192    | 176    | 183    | 168    | 164    | 141    | 140    |
| Suicides                                      | 467    | 422    | 415    | 409    | 429    | 361    | 397    |
| Other Diseases & Causes                       | 201    | 240    | 270    | 282    | 322    | 301    | 323    |

Source : Registry of Births and Deaths

Notes : Causes of death are classified according to the Tenth Revision of the International Classification of Diseases (ICD).

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=13247](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=13247)

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

| Year | Years    |       |         |                 |       |         |
|------|----------|-------|---------|-----------------|-------|---------|
|      | At Birth |       |         | At Age 65 Years |       |         |
|      | 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 | 83.0     | 80.7  | 85.1    | 20.8            | 19.0  | 22.4    |
| 2017 | 83.2     | 80.9  | 85.4    | 21.0            | 19.2  | 22.6    |
| 2018 | 83.2     | 81.0  | 85.4    | 21.1            | 19.3  | 22.6    |

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

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=13276](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=13276)

## 2.11 AGE AT FIRST MARRIAGE AND DIVORCE

|                                    | Years |      |      |      |      |      |      |
|------------------------------------|-------|------|------|------|------|------|------|
|                                    | 2012  | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Median Age at First Marriage       |       |      |      |      |      |      |      |
| Grooms                             | 30.1  | 30.2 | 30.2 | 30.3 | 30.3 | 30.0 | 30.2 |
| Brides                             | 28.0  | 28.1 | 28.2 | 28.2 | 28.3 | 28.4 | 28.5 |
| Median Age at Divorce <sup>1</sup> |       |      |      |      |      |      |      |
| Male Divorcees                     | 41.6  | 42.4 | 42.6 | 42.9 | 42.8 | 43.2 | 43.2 |
| Female Divorcees                   | 38.0  | 38.2 | 38.4 | 38.8 | 38.5 | 39.1 | 38.9 |

1 Excludes annulments.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14164](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14164)  
[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14107](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14107)

## 2.12 RESIDENT AGE-SEX SPECIFIC MARRIAGE RATES

| Age Group (Years)  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|--|-------|-------|-------|-------|-------|-------|-------|
| Males (per thousand unmarried resident males)  |       |       |       |       |       |       |       |
| 15 - 19  | 0.6   | 0.6   | 0.5   | 0.6   | 0.4   | 0.4   | 0.3   |
| 20 - 24  | 12.2  | 10.9  | 10.7  | 10.1  | 9.2   | 9.3   | 9.0   |
| 25 - 29  | 77.8  | 71.5  | 77.0  | 76.4  | 78.2  | 81.7  | 74.6  |
| 30 - 34  | 117.8 | 109.9 | 127.2 | 132.5 | 131.2 | 130.1 | 120.3 |
| 35 - 39  | 96.5  | 86.2  | 89.1  | 90.6  | 88.8  | 90.9  | 91.7  |
| 40 - 44  | 65.2  | 56.0  | 61.0  | 54.6  | 58.3  | 59.8  | 52.3  |
| 45 - 49  | 39.8  | 36.0  | 35.7  | 36.3  | 35.5  | 37.1  | 33.3  |
| 50 - 54  | 27.0  | 26.8  | 26.6  | 23.4  | 21.4  | 24.4  | 22.2  |
| 55 - 59  | 21.0  | 16.1  | 17.6  | 17.3  | 14.5  | 16.1  | 15.9  |
| 60 - 64  | 15.6  | 11.9  | 12.4  | 12.5  | 12.5  | 10.6  | 10.7  |
| 65 & Over  | 5.1   | 4.1   | 3.9   | 4.0   | 4.0   | 3.9   | 3.8   |
| General Marriage Rate<br>(per thousand unmarried<br>resident males aged 15-49 years)   | 43.8  | 40.5  | 44.4  | 44.2  | 44.4  | 45.7  | 43.3  |
| Females (per thousand unmarried resident females)                                      |       |       |       |       |       |       |       |
| 15 - 19  | 2.3   | 2.2   | 1.7   | 1.7   | 1.7   | 1.5   | 1.2   |
| 20 - 24  | 24.4  | 21.3  | 22.3  | 20.9  | 19.9  | 19.8  | 18.4  |
| 25 - 29  | 106.7 | 97.4  | 103.8 | 107.2 | 106.8 | 108.8 | 99.8  |
| 30 - 34  | 96.2  | 89.2  | 105.3 | 106.5 | 105.8 | 101.6 | 100.0 |
| 35 - 39  | 43.2  | 44.6  | 44.3  | 48.2  | 48.9  | 51.2  | 48.0  |
| 40 - 44  | 21.0  | 19.4  | 19.5  | 21.1  | 21.3  | 22.4  | 22.0  |
| 45 - 49  | 10.5  | 10.2  | 11.7  | 10.4  | 11.7  | 12.0  | 12.1  |
| 50 - 54  | 5.7   | 5.2   | 5.4   | 6.7   | 5.5   | 5.6   | 6.3   |
| 55 - 59  | 2.7   | 2.7   | 2.8   | 2.6   | 2.4   | 2.9   | 2.8   |
| 60 - 64  | 1.3   | 0.9   | 1.0   | 1.3   | 1.4   | 1.3   | 1.5   |
| 65 & Over  | 0.2   | 0.2   | 0.1   | 0.2   | 0.2   | 0.2   | 0.2   |
| General Marriage Rate<br>(per thousand unmarried<br>resident females aged 15-49 years) | 39.4  | 36.9  | 40.8  | 41.1  | 41.6  | 42.8  | 40.8  |

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

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14168](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14168)



## 2.13 GROOMS BY AGE GROUP

| Age Group (Years)                       |        |        |        |        |        |        | Number |
|---|--------|--------|--------|--------|--------|--------|--------|
|   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
| <b>Women's Charter</b>                  |        |        |        |        |        |        |        |
| Total                                   | 23,134 | 21,180 | 22,863 | 22,544 | 22,017 | 22,162 | 21,308 |
| Under 20                                | 46     | 53     | 37     | 24     | 25     | 25     | 20     |
| 20 - 24                                 | 1,297  | 1,097  | 1,034  | 921    | 824    | 769    | 718    |
| 25 - 29                                 | 7,323  | 6,568  | 7,390  | 7,191  | 7,111  | 7,707  | 7,130  |
| 30 - 34                                 | 7,066  | 6,681  | 7,171  | 7,242  | 7,091  | 6,888  | 6,728  |
| 35 - 39                                 | 3,303  | 3,062  | 3,284  | 3,208  | 3,205  | 3,093  | 3,078  |
| 40 - 44                                 | 1,661  | 1,533  | 1,756  | 1,741  | 1,629  | 1,618  | 1,482  |
| 45 - 49                                 | 1,025  | 898    | 872    | 891    | 872    | 825    | 891    |
| 50 - 54                                 | 671    | 635    | 626    | 578    | 532    | 534    | 525    |
| 55 - 59                                 | 384    | 345    | 376    | 396    | 351    | 366    | 364    |
| 60 & Over                               | 358    | 308    | 317    | 352    | 377    | 337    | 372    |
| <b>Administration of Muslim Law Act</b> |        |        |        |        |        |        |        |
| Total                                   | 4,802  | 5,074  | 5,544  | 5,778  | 5,954  | 6,050  | 5,699  |
| Under 20                                | 38     | 28     | 33     | 48     | 27     | 33     | 20     |
| 20 - 24                                 | 610    | 578    | 591    | 613    | 591    | 607    | 577    |
| 25 - 29                                 | 2,106  | 2,177  | 2,444  | 2,507  | 2,727  | 2,787  | 2,592  |
| 30 - 34                                 | 946    | 1,084  | 1,273  | 1,282  | 1,268  | 1,214  | 1,163  |
| 35 - 39                                 | 441    | 446    | 413    | 481    | 476    | 530    | 501    |
| 40 - 44                                 | 246    | 293    | 297    | 283    | 312    | 307    | 275    |
| 45 - 49                                 | 176    | 196    | 218    | 215    | 204    | 222    | 208    |
| 50 - 54                                 | 123    | 131    | 138    | 169    | 168    | 156    | 174    |
| 55 - 59                                 | 54     | 80     | 80     | 90     | 88     | 98     | 101    |
| 60 & Over                               | 62     | 61     | 57     | 90     | 93     | 96     | 88     |

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 [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=10059](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=10059)  
[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14156](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14156)

## 2.14 BRIDES BY AGE GROUP

| Age Group (Years)                |        |        |        |        |        |        | Number |
|----------------------------------|--------|--------|--------|--------|--------|--------|--------|
|                                  | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
| Women's Charter                  |        |        |        |        |        |        |        |
| Total                            | 23,134 | 21,180 | 22,863 | 22,544 | 22,017 | 22,162 | 21,308 |
| Under 20                         | 222    | 206    | 152    | 133    | 119    | 93     | 62     |
| 20 - 24                          | 3,343  | 2,785  | 2,658  | 2,427  | 2,155  | 1,937  | 1,790  |
| 25 - 29                          | 10,244 | 9,296  | 10,403 | 10,269 | 10,213 | 10,604 | 9,891  |
| 30 - 34                          | 5,667  | 5,423  | 5,884  | 5,857  | 5,739  | 5,619  | 5,631  |
| 35 - 39                          | 2,074  | 2,003  | 2,097  | 2,150  | 2,141  | 2,204  | 2,175  |
| 40 - 44                          | 877    | 813    | 914    | 914    | 893    | 916    | 886    |
| 45 - 49                          | 382    | 378    | 417    | 437    | 415    | 433    | 470    |
| 50 - 54                          | 172    | 165    | 212    | 199    | 188    | 195    | 226    |
| 55 - 59                          | 91     | 74     | 80     | 85     | 88     | 100    | 102    |
| 60 & Over                        | 62     | 37     | 46     | 73     | 66     | 61     | 75     |
| Administration of Muslim Law Act |        |        |        |        |        |        |        |
| Total                            | 4,802  | 5,074  | 5,544  | 5,778  | 5,954  | 6,050  | 5,699  |
| Under 20                         | 164    | 149    | 134    | 145    | 125    | 111    | 97     |
| 20 - 24                          | 1,279  | 1,245  | 1,384  | 1,345  | 1,293  | 1,322  | 1,207  |
| 25 - 29                          | 1,969  | 2,132  | 2,417  | 2,494  | 2,732  | 2,757  | 2,576  |
| 30 - 34                          | 641    | 711    | 820    | 856    | 835    | 871    | 833    |
| 35 - 39                          | 284    | 344    | 293    | 351    | 370    | 391    | 380    |
| 40 - 44                          | 194    | 214    | 213    | 269    | 248    | 229    | 233    |
| 45 - 49                          | 160    | 139    | 149    | 145    | 180    | 190    | 185    |
| 50 - 54                          | 72     | 76     | 75     | 111    | 104    | 100    | 101    |
| 55 - 59                          | 24     | 40     | 37     | 36     | 38     | 44     | 52     |
| 60 & Over                        | 15     | 24     | 22     | 26     | 29     | 35     | 35     |

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.

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[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=10040](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=10040)

## 2.15 MARRIAGES REGISTERED BY ETHNIC GROUP OF COUPLE

| Ethnic Group                     |        |        |        |        |        |        | Number |
|----------------------------------|--------|--------|--------|--------|--------|--------|--------|
|                                  | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
| Women's Charter                  |        |        |        |        |        |        |        |
| Total                            | 23,134 | 21,180 | 22,863 | 22,544 | 22,017 | 22,162 | 21,308 |
| Chinese                          | 16,387 | 14,948 | 16,750 | 16,237 | 15,944 | 16,116 | 15,556 |
| Indians                          | 950    | 960    | 978    | 940    | 916    | 1,054  | 994    |
| Others <sup>1</sup>              | 1,614  | 1,407  | 1,244  | 1,225  | 1,150  | 1,067  | 918    |
| Inter-ethnic <sup>2</sup>        | 4,183  | 3,865  | 3,891  | 4,142  | 4,007  | 3,925  | 3,840  |
| Administration of Muslim Law Act |        |        |        |        |        |        |        |
| Total                            | 4,802  | 5,074  | 5,544  | 5,778  | 5,954  | 6,050  | 5,699  |
| Malays                           | 2,803  | 3,001  | 3,221  | 3,377  | 3,408  | 3,172  | 2,903  |
| Indians                          | 189    | 217    | 198    | 216    | 243    | 246    | 226    |
| Others <sup>3</sup>              | 199    | 226    | 223    | 232    | 286    | 332    | 368    |
| Inter-ethnic <sup>4</sup>        | 1,611  | 1,630  | 1,902  | 1,953  | 2,017  | 2,300  | 2,202  |

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.  
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.

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## 2.16 RESIDENT AGE-SEX SPECIFIC DIVORCE RATES

| Age Group (Years)   | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|------|------|------|------|------|------|------|
| Males (per thousand married resident males)   |      |      |      |      |      |      |      |
| 20 - 24   | 28.4 | 25.8 | 25.3 | 30.8 | 27.6 | 25.9 | 28.6 |
| 25 - 29   | 21.7 | 21.7 | 20.2 | 17.8 | 16.7 | 16.8 | 15.6 |
| 30 - 34   | 13.3 | 13.1 | 13.1 | 12.5 | 12.6 | 12.5 | 12.1 |
| 35 - 39   | 11.9 | 12.0 | 11.6 | 11.7 | 12.8 | 11.5 | 11.8 |
| 40 - 44   | 9.4  | 9.8  | 9.9  | 10.1 | 9.6  | 10.2 | 9.7  |
| 45 - 49   | 7.6  | 8.5  | 7.7  | 8.3  | 8.4  | 7.7  | 8.5  |
| 50 & Over   | 3.3  | 3.6  | 3.5  | 3.7  | 3.6  | 3.7  | 3.4  |
| General Divorce Rate<br>(per thousand married resident<br>males aged 20 years and over)   | 7.1  | 7.3  | 7.0  | 7.1  | 7.1  | 6.9  | 6.7  |
| Females (per thousand married resident females)   |      |      |      |      |      |      |      |
| 20 - 24   | 29.1 | 26.7 | 23.5 | 26.3 | 28.6 | 27.9 | 27.7 |
| 25 - 29   | 15.8 | 17.5 | 16.0 | 15.3 | 15.1 | 14.3 | 14.7 |
| 30 - 34   | 12.0 | 12.4 | 11.7 | 11.6 | 11.9 | 12.1 | 11.8 |
| 35 - 39   | 10.0 | 10.3 | 10.1 | 9.6  | 10.1 | 9.9  | 10.2 |
| 40 - 44   | 8.2  | 8.0  | 8.3  | 8.8  | 8.4  | 8.3  | 8.2  |
| 45 - 49   | 5.6  | 6.3  | 6.1  | 6.4  | 6.2  | 6.9  | 6.5  |
| 50 & Over   | 2.4  | 2.5  | 2.4  | 2.6  | 2.6  | 2.6  | 2.4  |
| General Divorce Rate<br>(per thousand married resident<br>females aged 20 years and over) | 6.7  | 6.9  | 6.5  | 6.6  | 6.6  | 6.5  | 6.3  |

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

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14172](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14172)

## 2.17 DIVORCES AND ANNULMENTS BY AGE GROUP OF MALES

| Age Group (Years)                                   | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | Number |
|---|-------|-------|-------|-------|-------|-------|-------|--------|
| Divorces under the Women's Charter                  |       |       |       |       |       |       |       |        |
| Total   | 5,306 | 5,471 | 5,172 | 5,450 | 5,505 | 5,570 | 5,308 |        |
| Under 25  | 24    | 28    | 34    | 40    | 24    | 32    | 27    |        |
| 25 - 29   | 256   | 274   | 227   | 234   | 247   | 266   | 219   |        |
| 30 - 34   | 785   | 740   | 730   | 725   | 692   | 707   | 598   |        |
| 35 - 39   | 1,149 | 1,051 | 997   | 1,020 | 1,113 | 1,014 | 1,054 |        |
| 40 - 44   | 952   | 980   | 946   | 1,039 | 1,022 | 1,039 | 932   |        |
| 45 - 49   | 798   | 892   | 769   | 826   | 825   | 798   | 863   |        |
| 50 - 54   | 606   | 705   | 648   | 664   | 664   | 668   | 642   |        |
| 55 - 59   | 372   | 408   | 419   | 446   | 447   | 509   | 452   |        |
| 60 & Over   | 357   | 393   | 351   | 436   | 456   | 526   | 508   |        |
| Unknown   | 7     | 0     | 51    | 20    | 15    | 11    | 13    |        |
| Divorces under the Administration of Muslim Law Act |       |       |       |       |       |       |       |        |
| Total   | 1,587 | 1,662 | 1,689 | 1,667 | 1,702 | 1,637 | 1,682 |        |
| Under 25  | 49    | 40    | 33    | 41    | 40    | 23    | 31    |        |
| 25 - 29   | 172   | 180   | 159   | 162   | 191   | 174   | 179   |        |
| 30 - 34   | 286   | 290   | 293   | 288   | 305   | 275   | 328   |        |
| 35 - 39   | 275   | 310   | 265   | 279   | 284   | 281   | 292   |        |
| 40 - 44   | 265   | 257   | 295   | 249   | 234   | 261   | 244   |        |
| 45 - 49   | 235   | 257   | 229   | 231   | 229   | 204   | 220   |        |
| 50 - 54   | 157   | 172   | 210   | 222   | 191   | 195   | 171   |        |
| 55 - 59   | 87    | 85    | 121   | 94    | 119   | 115   | 124   |        |
| 60 & Over   | 60    | 71    | 84    | 101   | 109   | 109   | 93    |        |
| Unknown   | 1     | 0     | 0     | 0     | 0     | 0     | 0     |        |
| Annulments under the Women's Charter                |       |       |       |       |       |       |       |        |
| Total   | 344   | 392   | 446   | 405   | 407   | 371   | 354   |        |
| Under 25  | 18    | 21    | 14    | 14    | 13    | 11    | 9     |        |
| 25 - 29   | 84    | 88    | 109   | 105   | 87    | 98    | 85    |        |
| 30 - 34   | 99    | 111   | 132   | 117   | 137   | 126   | 123   |        |
| 35 - 39   | 65    | 63    | 75    | 68    | 82    | 73    | 69    |        |
| 40 & Over   | 78    | 109   | 116   | 101   | 88    | 63    | 68    |        |
| Unknown   | 0     | 0     | 0     | 0     | 0     | 0     | 0     |        |

Sources : Family Justice Courts  
Syariah Court  
Registry of Muslim Marriages

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=10084](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=10084)  
[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14087](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14087)  
[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14101](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14101)

## 2.18 DIVORCES AND ANNULMENTS BY AGE GROUP OF FEMALES

| Age Group (Years)                                   | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | Number |
|---|-------|-------|-------|-------|-------|-------|-------|--------|
| Divorces under the Women's Charter                  |       |       |       |       |       |       |       |        |
| Total   | 5,306 | 5,471 | 5,172 | 5,450 | 5,505 | 5,570 | 5,308 |        |
| Under 25  | 126   | 106   | 97    | 109   | 88    | 89    | 78    |        |
| 25 - 29   | 574   | 584   | 537   | 544   | 538   | 524   | 473   |        |
| 30 - 34   | 1,164 | 1,189 | 1,090 | 1,160 | 1,158 | 1,120 | 1,017 |        |
| 35 - 39   | 1,166 | 1,135 | 1,127 | 1,102 | 1,213 | 1,152 | 1,170 |        |
| 40 - 44   | 908   | 938   | 894   | 1,011 | 941   | 938   | 933   |        |
| 45 - 49   | 565   | 647   | 589   | 620   | 661   | 736   | 692   |        |
| 50 - 54   | 401   | 450   | 391   | 448   | 399   | 473   | 434   |        |
| 55 - 59   | 215   | 260   | 239   | 207   | 286   | 265   | 240   |        |
| 60 & Over   | 179   | 161   | 165   | 234   | 214   | 261   | 256   |        |
| Unknown   | 8     | 1     | 43    | 15    | 7     | 12    | 15    |        |
| Divorces under the Administration of Muslim Law Act |       |       |       |       |       |       |       |        |
| Total   | 1,587 | 1,662 | 1,689 | 1,667 | 1,702 | 1,637 | 1,682 |        |
| Under 25  | 120   | 107   | 84    | 95    | 100   | 81    | 82    |        |
| 25 - 29   | 281   | 289   | 253   | 272   | 301   | 249   | 282   |        |
| 30 - 34   | 318   | 337   | 345   | 326   | 332   | 340   | 345   |        |
| 35 - 39   | 252   | 295   | 270   | 273   | 236   | 277   | 290   |        |
| 40 - 44   | 229   | 232   | 273   | 250   | 250   | 231   | 218   |        |
| 45 - 49   | 188   | 190   | 205   | 191   | 173   | 178   | 186   |        |
| 50 - 54   | 123   | 130   | 142   | 150   | 172   | 138   | 145   |        |
| 55 - 59   | 49    | 53    | 66    | 63    | 85    | 76    | 77    |        |
| 60 & Over   | 26    | 29    | 51    | 47    | 53    | 67    | 57    |        |
| Unknown   | 1     | 0     | 0     | 0     | 0     | 0     | 0     |        |
| Annulments under the Women's Charter                |       |       |       |       |       |       |       |        |
| Total   | 344   | 392   | 446   | 405   | 407   | 371   | 354   |        |
| Under 25  | 49    | 49    | 59    | 45    | 45    | 44    | 25    |        |
| 25 - 29   | 143   | 175   | 170   | 166   | 160   | 147   | 146   |        |
| 30 - 34   | 97    | 110   | 133   | 119   | 122   | 115   | 115   |        |
| 35 - 39   | 33    | 36    | 50    | 48    | 47    | 43    | 45    |        |
| 40 & Over   | 22    | 22    | 34    | 27    | 32    | 22    | 23    |        |
| Unknown   | 0     | 0     | 0     | 0     | 1     | 0     | 0     |        |

Sources : Family Justice Courts  
Syariah Court  
Registry of Muslim Marriages

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[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14087](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14087)  
[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14101](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14101)

## 2.19 DIVORCES AND ANNULMENTS BY ETHNIC GROUP OF COUPLE

| Ethnic Group  | Number |       |       |       |       |       |       |
|---|--------|-------|-------|-------|-------|-------|-------|
|   | 2012   | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
| Divorces under the Women's Charter                  |        |       |       |       |       |       |       |
| Total   | 5,306  | 5,471 | 5,172 | 5,450 | 5,505 | 5,570 | 5,308 |
| Chinese   | 4,240  | 4,331 | 4,018 | 4,121 | 4,123 | 4,090 | 3,972 |
| Indians   | 336    | 373   | 352   | 387   | 380   | 436   | 383   |
| Others <sup>1</sup>                                 | 91     | 86    | 89    | 118   | 119   | 125   | 112   |
| Inter-ethnic <sup>2</sup>                           | 628    | 658   | 701   | 802   | 853   | 881   | 804   |
| Divorces under the Administration of Muslim Law Act |        |       |       |       |       |       |       |
| Total   | 1,587  | 1,662 | 1,689 | 1,667 | 1,702 | 1,637 | 1,682 |
| Malays  | 1,209  | 1,211 | 1,254 | 1,177 | 1,181 | 1,145 | 1,183 |
| Indians   | 95     | 74    | 70    | 77    | 98    | 94    | 87    |
| Others <sup>3</sup>                                 | 15     | 22    | 20    | 21    | 14    | 8     | 12    |
| Inter-ethnic <sup>4</sup>                           | 268    | 355   | 345   | 392   | 409   | 390   | 400   |
| Annulments under the Women's Charter                |        |       |       |       |       |       |       |
| Total   | 344    | 392   | 446   | 405   | 407   | 371   | 354   |
| Chinese   | 236    | 226   | 266   | 259   | 262   | 234   | 246   |
| Indians   | 28     | 37    | 40    | 38    | 50    | 38    | 26    |
| Others <sup>1</sup>                                 | 5      | 7     | 8     | 2     | 8     | 4     | 3     |
| Inter-ethnic <sup>2</sup>                           | 75     | 122   | 131   | 106   | 85    | 94    | 79    |

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.

- 1 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.

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[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=10087](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=10087)

3



# Households



# 3

## Households



### Households

**Household:** Refers to (i) a group of two or more persons living together in the same house and sharing common food or other essential arrangements for living; or (ii) a person living alone or a person living with others but having his own food or other essential arrangements for living. 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 the temporary unemployment of a household member, before moving up the deciles when the member resumes work in the subsequent year.

It is therefore notable that, in comparing the performance of any particular decile group over time, the comparison may not pertain to the same group of households within the particular decile.

### Household Income Distribution

**Percentile ratio:** A measure of the spread of incomes across the population. P90 refers to the income level at the 90<sup>th</sup> percentile. P10 refers to the income level at the 10<sup>th</sup> 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 the Gini coefficient 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 and international organisations.

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. Commonly used equivalence scales include the modified Organisation of Economic Co-operation and Development (OECD) scale and the square root 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).

## 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 contains data on households and housing, among other demographic statistics. Statistical analyses of Singapore's changing population profiles are also included in the publication.

Data on household income from work are 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.

View an explanatory video on 'Understanding the Gini Coefficient':



### 3.1 RESIDENT HOUSEHOLDS <sup>1</sup> BY HOUSEHOLD SIZE

|                             | Unit    | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total                       | '000    | 1,152.0 | 1,174.5 | 1,200.0 | 1,225.3 | 1,263.6 | 1,289.9 | 1,325.3 |
| Household Size <sup>2</sup> |         |         |         |         |         |         |         |         |
| 1-Person                    | '000    | 109.5   | 124.4   | 134.8   | 146.0   | 156.2   | 167.9   | 185.4   |
| 2-Person                    | '000    | 230.9   | 234.1   | 252.2   | 259.2   | 276.1   | 289.2   | 306.3   |
| 3-Person                    | '000    | 238.3   | 243.7   | 251.5   | 256.2   | 266.2   | 277.0   | 276.9   |
| 4-Person                    | '000    | 281.1   | 290.9   | 280.1   | 282.2   | 286.2   | 278.1   | 284.5   |
| 5-Person                    | '000    | 170.5   | 165.5   | 162.9   | 164.0   | 161.2   | 161.4   | 160.7   |
| 6-Person or Larger          | '000    | 121.8   | 116.0   | 118.4   | 117.6   | 117.6   | 116.3   | 111.6   |
| Average Household Size      | Persons | 3.53    | 3.47    | 3.43    | 3.39    | 3.35    | 3.30    | 3.24    |

Notes : Data for 2015 are from the General Household Survey 2015.

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

1 Refers to households headed by a resident (i.e. Singapore citizen or permanent resident).

2 Refers to the total number of members in the household, including domestic workers.

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## 3.2 RESIDENT HOUSEHOLDS <sup>1</sup> BY TYPE OF DWELLING

|                                  | Thousand |         |         |         |         |         |         |
|----------------------------------|----------|---------|---------|---------|---------|---------|---------|
|                                  | 2012     | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
| Total                            | 1,152.0  | 1,174.5 | 1,200.0 | 1,225.3 | 1,263.6 | 1,289.9 | 1,325.3 |
| Total HDB Dwellings <sup>2</sup> | 939.5    | 961.8   | 965.2   | 981.1   | 1,011.5 | 1,018.6 | 1,043.3 |
| 1- and 2-Room Flats <sup>3</sup> | 54.0     | 59.1    | 64.0    | 68.8    | 74.1    | 75.4    | 81.4    |
| 3-Room Flats                     | 214.5    | 223.2   | 220.1   | 223.4   | 230.3   | 229.1   | 233.9   |
| 4-Room Flats                     | 375.4    | 382.4   | 386.0   | 392.3   | 407.4   | 409.9   | 420.8   |
| 5-Room and Executive Flats       | 293.3    | 294.3   | 292.8   | 295.8   | 298.6   | 302.9   | 307.2   |
| Condominiums & Other Apartments  | 139.9    | 143.7   | 161.8   | 170.8   | 182.4   | 201.7   | 210.3   |
| Landed Properties                | 69.0     | 65.0    | 69.4    | 69.2    | 66.2    | 66.5    | 67.9    |
| Others                           | 3.6      | 4.0     | 3.6     | 4.2     | 3.5     | 3.1     | 3.8     |

Notes : Data for 2015 are from the General Household Survey 2015.

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

- 1 Refers to households headed by a resident (i.e. Singapore citizen or permanent resident).
- 2 Prior to 2018, data include non-privatised Housing and Urban Development Corporation (HUDC) flats.
- 3 Includes HDB studio apartments.

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### 3.3 AVERAGE HOUSEHOLD SIZE <sup>1</sup> OF RESIDENT HOUSEHOLDS <sup>2</sup> BY TYPE OF DWELLING

|                                  | Persons |      |      |      |      |      |      |
|----------------------------------|---------|------|------|------|------|------|------|
|                                  | 2012    | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Total                            | 3.53    | 3.47 | 3.43 | 3.39 | 3.35 | 3.30 | 3.24 |
| Total HDB Dwellings <sup>3</sup> | 3.48    | 3.42 | 3.37 | 3.34 | 3.30 | 3.25 | 3.18 |
| 1- and 2-Room Flats <sup>4</sup> | 2.36    | 2.38 | 2.32 | 2.24 | 2.16 | 2.19 | 2.08 |
| 3-Room Flats                     | 2.79    | 2.74 | 2.70 | 2.69 | 2.67 | 2.63 | 2.58 |
| 4-Room Flats                     | 3.63    | 3.58 | 3.53 | 3.49 | 3.46 | 3.42 | 3.34 |
| 5-Room and Executive Flats       | 3.98    | 3.94 | 3.88 | 3.89 | 3.84 | 3.77 | 3.71 |
| Condominiums & Other Apartments  | 3.48    | 3.42 | 3.40 | 3.34 | 3.30 | 3.24 | 3.26 |
| Landed Properties                | 4.35    | 4.33 | 4.32 | 4.30 | 4.28 | 4.29 | 4.17 |
| Others                           | 2.99    | 3.38 | 3.02 | 2.92 | 2.65 | 2.85 | 2.67 |

Notes : Data for 2015 are from the General Household Survey 2015.

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

- 1 Refers to the total number of members in the household, including domestic workers.
- 2 Refers to households headed by a resident (i.e. Singapore citizen or permanent resident).
- 3 Prior to 2018, data include non-privatised Housing and Urban Development Corporation (HUDC) flats.
- 4 Includes HDB studio apartments.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12305](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12305)

### 3.4 RESIDENT HOUSEHOLDS <sup>1</sup> BY TENANCY <sup>2</sup> OF HOUSEHOLD

|   | Unit     | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
|---|----------|---------|---------|---------|---------|---------|---------|---------|
| Total <sup>3</sup>                            | '000     | 1,152.0 | 1,174.5 | 1,200.0 | 1,225.3 | 1,263.6 | 1,289.9 | 1,325.3 |
| Owner <sup>4</sup>                            | '000     | 1,038.2 | 1,062.5 | 1,083.4 | 1,112.4 | 1,149.1 | 1,170.2 | 1,205.8 |
| Tenant <sup>5</sup>                           | '000     | 106.8   | 105.7   | 109.8   | 106.2   | 107.6   | 109.8   | 112.4   |
| Home Ownership Rate Among Resident Households | Per Cent | 90.1    | 90.5    | 90.3    | 90.8    | 90.9    | 90.7    | 91.0    |

Notes : Data for 2015 are from the General Household Survey 2015.

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

- 1 Refers to households headed by a resident (i.e. Singapore citizen or permanent resident).
- 2 Refers to the tenure status of the household with respect to the dwellings in which the household members live in.
- 3 Includes resident households in dwellings provided free by employers/others.
- 4 Refers to a household where the household head or any other member owns the house.
- 5 Refers to a household which rents the dwelling or part of it.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12309](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12309)

### 3.5 HOME OWNERSHIP RATES AMONG RESIDENT HOUSEHOLDS <sup>1</sup> BY TYPE OF DWELLING

|   | Per Cent |      |      |      |      |      |      |
|---|----------|------|------|------|------|------|------|
|   | 2012     | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Home Ownership Rate Among Resident Households | 90.1     | 90.5 | 90.3 | 90.8 | 90.9 | 90.7 | 91.0 |
| Total HDB Dwellings <sup>2</sup>              | 91.7     | 91.8 | 91.6 | 92.0 | 92.2 | 92.1 | 92.2 |
| 1- and 2-Room Flats <sup>3</sup>              | 23.1     | 22.3 | 23.9 | 33.9 | 35.9 | 36.7 | 39.8 |
| 3-Room Flats                                  | 93.3     | 94.1 | 94.4 | 94.8 | 94.2 | 94.4 | 95.3 |
| 4-Room Flats                                  | 96.6     | 97.0 | 96.8 | 96.8 | 97.5 | 97.3 | 97.1 |
| 5-Room and Executive Flats                    | 97.0     | 97.2 | 97.4 | 97.2 | 97.4 | 97.3 | 97.1 |
| Condominiums & Other Apartments               | 80.3     | 82.5 | 83.3 | 84.1 | 84.1 | 83.6 | 84.9 |
| Landed Properties                             | 89.5     | 91.2 | 90.9 | 92.0 | 92.8 | 92.0 | 92.8 |
| Others  | 65.1     | 47.7 | 47.1 | 54.9 | 51.5 | 57.1 | 58.4 |

Notes : Data for 2015 are from the General Household Survey 2015.

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

- 1 Refers to households headed by a resident (i.e. Singapore citizen or permanent resident).
- 2 Prior to 2018, data include non-privatised Housing and Urban Development Corporation (HUDC) flats.
- 3 Includes HDB studio apartments.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12309](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12309)

### 3.6 MONTHLY HOUSEHOLD INCOME FROM WORK PER HOUSEHOLD MEMBER <sup>1</sup> AMONG RESIDENT EMPLOYED HOUSEHOLDS <sup>2</sup>

|                                      | Dollars |       |       |       |       |       |       |
|--------------------------------------|---------|-------|-------|-------|-------|-------|-------|
|                                      | 2012    | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
| Median (50 <sup>th</sup> Percentile) | 2,127   | 2,247 | 2,380 | 2,500 | 2,584 | 2,699 | 2,792 |
| 20 <sup>th</sup> Percentile          | 1,020   | 1,083 | 1,167 | 1,242 | 1,280 | 1,311 | 1,359 |

Notes : Data 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 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 Refers to a household headed by a resident (i.e. Singapore citizen or permanent resident) and with at least one working person.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12307](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12307)

### 3.7 AVERAGE MONTHLY HOUSEHOLD INCOME FROM WORK PER HOUSEHOLD MEMBER <sup>1</sup> AMONG RESIDENT EMPLOYED HOUSEHOLDS <sup>2</sup> BY DECILES

|                                      | Dollars |        |        |        |        |        |        |
|--------------------------------------|---------|--------|--------|--------|--------|--------|--------|
| Deciles <sup>3</sup>                 | 2012    | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
| Total                                | 3,142   | 3,204  | 3,418  | 3,624  | 3,688  | 3,835  | 3,969  |
| 1 <sup>st</sup> - 10 <sup>th</sup>   | 440     | 463    | 494    | 541    | 543    | 554    | 570    |
| 11 <sup>th</sup> - 20 <sup>th</sup>  | 856     | 896    | 971    | 1,040  | 1,064  | 1,093  | 1,124  |
| 21 <sup>st</sup> - 30 <sup>th</sup>  | 1,200   | 1,268  | 1,353  | 1,446  | 1,483  | 1,528  | 1,583  |
| 31 <sup>st</sup> - 40 <sup>th</sup>  | 1,547   | 1,633  | 1,747  | 1,857  | 1,892  | 1,958  | 2,033  |
| 41 <sup>st</sup> - 50 <sup>th</sup>  | 1,917   | 2,033  | 2,155  | 2,274  | 2,339  | 2,434  | 2,522  |
| 51 <sup>st</sup> - 60 <sup>th</sup>  | 2,355   | 2,483  | 2,627  | 2,780  | 2,864  | 2,994  | 3,082  |
| 61 <sup>st</sup> - 70 <sup>th</sup>  | 2,893   | 3,039  | 3,217  | 3,409  | 3,521  | 3,670  | 3,804  |
| 71 <sup>st</sup> - 80 <sup>th</sup>  | 3,658   | 3,837  | 4,060  | 4,276  | 4,438  | 4,629  | 4,833  |
| 81 <sup>st</sup> - 90 <sup>th</sup>  | 5,004   | 5,192  | 5,524  | 5,804  | 5,958  | 6,279  | 6,559  |
| 91 <sup>st</sup> - 100 <sup>th</sup> | 11,552  | 11,198 | 12,032 | 12,816 | 12,773 | 13,215 | 13,581 |

Notes : Data 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 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 Refers to a household headed by a resident (i.e. 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 (including employer CPF contributions).

It is notable, for example, that some resident employed households in the lowest 10% owned a car (11.3%), employed a maid (11.8%), lived in private property (7.0%) or were headed by persons aged 60 years and over (44.8%) in 2018.

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, an employed household may move down from a higher decile in a particular year due to the 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 the comparison may not pertain to the same group of households.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12307](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12307)



### 3.8 RATIO OF MONTHLY HOUSEHOLD INCOME FROM WORK PER HOUSEHOLD MEMBER<sup>1</sup> AT THE 90TH PERCENTILE (P90) TO 10TH PERCENTILE (P10) AMONG RESIDENT EMPLOYED HOUSEHOLDS<sup>2</sup>

|   | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|------|------|------|------|------|------|------|
| P90/P10 Ratio of Household Income from Work Per Household Member <sup>3</sup>   | 9.14 | 9.00 | 8.92 | 8.65 | 8.67 | 8.97 | 9.14 |
| P90/P10 Ratio of Household Income from Work Per Household Member After Accounting for Government Transfers and Taxes <sup>4,5</sup> | 6.37 | 5.91 | 5.98 | 5.78 | 5.71 | 5.82 | 5.98 |

Notes : Data 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 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 Refers to a household headed by a resident (i.e. Singapore citizen or permanent resident) and with at least one working person.
- 3 Based on ranking of all resident employed households by their monthly household income from work per household member (including employer CPF contributions).
- 4 Based on ranking of all resident employed households by their monthly household income from work per household member (including employer CPF contributions) after accounting for Government transfers and taxes.
- 5 Updated as at 20 Feb 2020. As more administrative data on transfers or taxes become available, the coverage for Government transfers and taxes has been expanded to include them.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createSpecialTable.action?refId=15772](http://www.tablebuilder.singstat.gov.sg/publicfacing/createSpecialTable.action?refId=15772)

### 3.9 GINI COEFFICIENT<sup>1</sup> AMONG RESIDENT EMPLOYED HOUSEHOLDS<sup>2</sup>

|  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|--|---|-------|-------|-------|-------|-------|-------|
|  | Household Income from Work  |       |       |       |       |       |       |
| Based on Per Household Member <sup>3</sup>   | 0.478   | 0.463 | 0.464 | 0.463 | 0.458 | 0.459 | 0.458 |
| Based on Modified OECD Scale <sup>4</sup>    | 0.457   | 0.442 | 0.444 | 0.440 | 0.435 | 0.437 | 0.435 |
| Based on Square Root Scale <sup>5</sup>      | 0.435   | 0.421 | 0.425 | 0.415 | 0.410 | 0.417 | 0.412 |
|  | Household Income from Work<br>After Accounting for Government Transfers and Taxes |       |       |       |       |       |       |
| Based on Per Household Member <sup>3,6</sup> | 0.432   | 0.409 | 0.411 | 0.409 | 0.401 | 0.402 | 0.403 |
| Based on Modified OECD Scale <sup>4,6</sup>  | 0.410   | 0.388 | 0.392 | 0.386 | 0.379 | 0.382 | 0.380 |
| Based on Square Root Scale <sup>5,6</sup>    | 0.383   | 0.363 | 0.369 | 0.357 | 0.350 | 0.357 | 0.354 |

Notes : Data 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 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 with different sizes and compositions are comparable. There are different scales used by different countries and international organisations.
- 2 Refers to a household headed by a resident (i.e. Singapore citizen or permanent resident) and with at least one working person.
- 3 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 2015 report "Income Inequality: The Gap between Rich and Poor".  
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.
- 6 Updated as at 20 Feb 2020. As more administrative data on transfers or taxes become available, the coverage for Government transfers and taxes has been expanded to include them.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12307](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12307)

4

# 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.

**Persons Outside The Labour Force:** Refer 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.

Labour Force,  
2018

3.68 mil



Total Unemployment Rate  
(Seasonally Adjusted) in June 2018



2.1%

### Definitions



**Employed Persons:** Refer 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:** Refer 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:** Refer to persons aged fifteen years and over who are either employed or unemployed during the reference period.

**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 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.

**Average Monthly Recruitment Rate during a quarter:** Refers to the average number of persons recruited in a month during the quarter divided by the average number of employees in the establishment. The annual figures are the simple averages of the quarterly figures.

## Labour and Productivity ■



**Average Monthly Resignation Rate during a quarter:** Refers to the average number of persons who resigned in a month during the quarter divided by the average number of employees in the establishment. The annual figures are the simple averages of the quarterly figures.

### Hours Worked

Statistics on weekly hours worked are compiled from the Labour Market Survey conducted by MOM. Prior to 2006, the survey covered private establishments with at least 25 employees. From 2006 onwards, the survey also includes the public sector comprising government ministries, organs of state and statutory boards.

### Definitions

**Weekly Paid Hours:** Refer 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

The Singapore Workforce Skills Qualifications (WSQ) is a national credential system that trains, develops, assesses and certifies skills and competencies for the workforce. As a continuing education and training (CET) system, WSQ supports the SkillsFuture movement in (i) promoting recognition of skills and competencies to facilitate progression, mastery and mobility; (ii) promoting holistic development of the workforce through technical and generic skills and competencies; (iii) supporting economic development by professionalising skills and competencies to drive industry transformation, productivity and innovation efforts; and (iv) encouraging lifelong learning.

Training programmes developed under WSQ are based on skills and competencies

validated by employers, unions and professional bodies. This process ensures existing and emerging skills and competencies that are in demand are used for training and development. With the roll-out of the Skills Frameworks in 2016, the WSQ also adopts the skills and competencies covered in the Skills Frameworks. The WSQ programmes are funded and quality-assured by SkillsFuture Singapore, which awards the WSQ certifications.

### 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.

### Unit Labour Cost

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

## Labour and Productivity ■



employers. Wage subsidies reduce labour costs to employers, and are netted off from total labour cost.

### Central Provident Fund



The Central Provident Fund (CPF) is a comprehensive social security system that enables Singapore Citizens and Permanent Residents to set aside funds for retirement. It also addresses members' housing and healthcare needs.

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<sup>1</sup>, are as follows:

| <u>Employee's Age</u> | <u>Employer</u>           | <u>Employee</u> | <u>Total</u> |
|-----------------------|---------------------------|-----------------|--------------|
|                       | (Percent of Monthly Wage) |                 |              |
| ≤ 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 insurance premiums (namely the Dependants' Protection Scheme and Home Protection Scheme), or withdrawn for investment and education. MediSave savings can be used for

<sup>1</sup> For employees earning \$750 and above in monthly wages

Hospitalization expenses, approved medical insurance and certain outpatient treatments while savings in the Special Account are reserved for retirement needs.

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

### Labour Relations



#### 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) on industrial matters.



**Collective Agreement:** Refers to an agreement between employers and employees on 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

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

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.

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".

## 4.1 LABOUR FORCE

|   | Unit | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
|---|------|---------|---------|---------|---------|---------|---------|---------|
| Labour Force                                |      |         |         |         |         |         |         |         |
| Total                                       | '000 | 3,361.8 | 3,443.7 | 3,530.8 | 3,610.6 | 3,672.8 | 3,657.0 | 3,675.6 |
| Residents                                   | '000 | 2,119.6 | 2,138.8 | 2,185.2 | 2,232.3 | 2,257.6 | 2,269.7 | 2,292.7 |
| Employed                                    |      |         |         |         |         |         |         |         |
| Total                                       | '000 | 3,274.7 | 3,352.9 | 3,440.2 | 3,516.0 | 3,570.0 | 3,550.1 | 3,575.3 |
| Residents                                   | '000 | 2,040.6 | 2,056.1 | 2,103.5 | 2,147.8 | 2,165.3 | 2,175.3 | 2,203.7 |
| Unemployed                                  |      |         |         |         |         |         |         |         |
| Total                                       | '000 | 87.1    | 90.7    | 90.7    | 94.6    | 102.8   | 106.9   | 100.2   |
| Residents                                   | '000 | 79.0    | 82.6    | 81.8    | 84.5    | 92.3    | 94.4    | 89.0    |
| Unemployment Rate<br>(Seasonally Adjusted)  |      |         |         |         |         |         |         |         |
| Total                                       | %    | 1.9     | 2.0     | 1.9     | 2.0     | 2.1     | 2.2     | 2.1     |
| Residents                                   | %    | 2.8     | 2.9     | 2.8     | 2.8     | 3.0     | 3.1     | 2.9     |
| Resident Labour Force<br>Participation Rate |      |         |         |         |         |         |         |         |
| Male  | %    | 76.0    | 75.8    | 75.9    | 76.7    | 76.2    | 76.0    | 75.6    |
| Female                                      | %    | 57.7    | 58.1    | 58.6    | 60.4    | 60.4    | 59.8    | 60.2    |

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 [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14821](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14821)  
[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12371](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12371)  
[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14825](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14825)  
[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12374](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12374)



## 4.2 AGE-SPECIFIC RESIDENT LABOUR FORCE PARTICIPATION RATES

| Age Group (Years) | Per Cent |      |      |      |      |      |      |
|-------------------|----------|------|------|------|------|------|------|
|                   | 2012     | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Total             | 66.6     | 66.7 | 67.0 | 68.3 | 68.0 | 67.7 | 67.7 |
| 15 - 19           | 12.4     | 11.8 | 12.3 | 15.8 | 15.3 | 14.2 | 15.2 |
| 20 - 24           | 63.6     | 61.7 | 61.8 | 65.3 | 62.3 | 62.2 | 61.3 |
| 25 - 29           | 88.3     | 88.5 | 89.0 | 90.3 | 90.3 | 90.2 | 90.0 |
| 30 - 34           | 89.8     | 90.1 | 89.9 | 90.2 | 90.8 | 91.8 | 91.0 |
| 35 - 39           | 88.0     | 88.0 | 88.8 | 89.1 | 89.7 | 89.8 | 89.0 |
| 40 - 44           | 85.4     | 85.7 | 87.1 | 87.6 | 88.2 | 87.7 | 88.8 |
| 45 - 49           | 84.4     | 84.5 | 84.7 | 85.9 | 86.3 | 86.8 | 86.5 |
| 50 - 54           | 79.5     | 80.0 | 81.8 | 82.4 | 81.4 | 82.8 | 82.0 |
| 55 - 59           | 72.4     | 73.2 | 74.3 | 75.5 | 75.8 | 74.9 | 75.1 |
| 60 - 64           | 58.1     | 59.7 | 61.2 | 62.4 | 62.8 | 63.6 | 62.2 |
| 65 - 69           | 38.6     | 40.2 | 41.2 | 42.2 | 43.2 | 43.4 | 45.3 |
| 70 - 74           | 21.9     | 24.2 | 25.7 | 24.9 | 26.8 | 28.0 | 28.3 |
| 75 & Over         | 6.7      | 7.6  | 8.4  | 8.8  | 8.4  | 9.1  | 9.4  |

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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12374](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12374)

## 4.3 AGE-SPECIFIC RESIDENT MALE LABOUR FORCE PARTICIPATION RATES

| Age Group (Years) | Per Cent |      |      |      |      |      |      |
|-------------------|----------|------|------|------|------|------|------|
|                   | 2012     | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Total             | 76.0     | 75.8 | 75.9 | 76.7 | 76.2 | 76.0 | 75.6 |
| 15 - 19           | 13.8     | 13.2 | 14.9 | 18.3 | 18.0 | 18.0 | 18.4 |
| 20 - 24           | 64.5     | 63.2 | 63.6 | 64.4 | 62.6 | 62.7 | 60.3 |
| 25 - 29           | 89.9     | 89.0 | 89.4 | 90.9 | 90.0 | 90.7 | 90.7 |
| 30 - 34           | 97.2     | 97.2 | 97.5 | 97.4 | 97.0 | 97.4 | 97.8 |
| 35 - 39           | 98.2     | 97.5 | 97.2 | 97.5 | 97.8 | 97.6 | 97.2 |
| 40 - 44           | 97.1     | 97.1 | 96.8 | 97.1 | 97.2 | 97.0 | 97.2 |
| 45 - 49           | 95.6     | 96.1 | 96.4 | 96.9 | 96.3 | 96.6 | 95.4 |
| 50 - 54           | 93.8     | 94.0 | 93.8 | 94.2 | 92.9 | 94.4 | 92.8 |
| 55 - 59           | 88.5     | 87.6 | 87.5 | 88.2 | 88.7 | 88.0 | 88.0 |
| 60 - 64           | 74.6     | 75.0 | 77.0 | 77.2 | 76.9 | 77.8 | 75.7 |
| 65 - 69           | 52.6     | 53.4 | 54.1 | 54.5 | 55.7 | 54.8 | 57.3 |
| 70 - 74           | 32.1     | 35.8 | 37.3 | 34.5 | 35.4 | 39.3 | 37.3 |
| 75 & Over         | 11.5     | 12.5 | 13.6 | 13.8 | 13.4 | 14.9 | 14.4 |

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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12374](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12374)

## 4.4 AGE-SPECIFIC RESIDENT FEMALE LABOUR FORCE PARTICIPATION RATES

| Age Group (Years) | Per Cent |      |      |      |      |      |      |
|-------------------|----------|------|------|------|------|------|------|
|                   | 2012     | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Total             | 57.7     | 58.1 | 58.6 | 60.4 | 60.4 | 59.8 | 60.2 |
| 15 - 19           | 10.9     | 10.2 | 9.6  | 13.1 | 12.4 | 10.2 | 11.6 |
| 20 - 24           | 62.6     | 59.9 | 59.8 | 66.3 | 62.0 | 61.6 | 62.4 |
| 25 - 29           | 86.8     | 88.0 | 88.6 | 89.7 | 90.6 | 89.6 | 89.4 |
| 30 - 34           | 83.3     | 83.7 | 83.3 | 83.9 | 85.3 | 86.9 | 84.9 |
| 35 - 39           | 78.9     | 79.4 | 80.9 | 81.7 | 82.3 | 82.9 | 81.8 |
| 40 - 44           | 74.8     | 75.4 | 78.1 | 78.9 | 80.2 | 78.9 | 81.0 |
| 45 - 49           | 73.4     | 73.1 | 73.7 | 75.5 | 77.2 | 77.7 | 78.1 |
| 50 - 54           | 65.6     | 66.5 | 70.4 | 70.6 | 70.3 | 71.2 | 71.5 |
| 55 - 59           | 56.2     | 59.1 | 61.4 | 62.8 | 63.1 | 61.8 | 62.1 |
| 60 - 64           | 41.7     | 44.2 | 45.5 | 47.7 | 48.8 | 49.9 | 49.4 |
| 65 - 69           | 26.3     | 27.9 | 29.5 | 31.1 | 31.4 | 32.9 | 33.7 |
| 70 - 74           | 13.4     | 14.1 | 15.6 | 16.5 | 19.3 | 18.1 | 20.3 |
| 75 & Over         | 3.4      | 4.2  | 4.7  | 5.5  | 5.1  | 5.0  | 6.1  |

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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12374](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12374)

## 4.5 EMPLOYED RESIDENTS AGED 15 YEARS AND OVER BY OCCUPATION

| Occupation                                 | Thousand |         |         |         |         |         |         |
|--|----------|---------|---------|---------|---------|---------|---------|
|  | 2012     | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
| Total                                      | 2,040.6  | 2,056.1 | 2,103.5 | 2,147.8 | 2,165.3 | 2,175.3 | 2,203.7 |
| Legislators, Senior Officials & Managers   | 346.3    | 349.6   | 342.3   | 345.3   | 324.8   | 333.4   | 322.8   |
| Professionals                              | 367.3    | 366.9   | 373.5   | 392.9   | 412.9   | 435.7   | 449.7   |
| Associate Professionals and Technicians    | 352.8    | 373.6   | 408.9   | 428.8   | 455.2   | 451.0   | 481.5   |
| Clerical Support Workers                   | 262.2    | 268.0   | 265.3   | 264.5   | 241.1   | 244.2   | 237.7   |
| Service and Sales Workers                  | 257.7    | 249.4   | 248.3   | 255.9   | 267.8   | 252.1   | 266.1   |
| Craftsmen and Related Trades Workers       | 90.6     | 82.2    | 82.2    | 83.9    | 79.2    | 76.0    | 70.0    |
| Plant and Machine Operators and Assemblers | 149.8    | 147.7   | 146.4   | 146.2   | 152.1   | 153.6   | 149.7   |
| Cleaners, Labourers and Related Workers    | 145.3    | 150.2   | 166.0   | 160.3   | 160.7   | 160.5   | 156.4   |
| Others <sup>1</sup>                        | 68.6     | 68.7    | 70.8    | 70.0    | 71.6    | 68.9    | 69.8    |

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.

<sup>1</sup> Includes Agricultural & Fishery Workers and Workers Not Classifiable by Occupation.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12385](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12385)

## 4.6 EMPLOYED RESIDENTS AGED 15 YEARS AND OVER BY INDUSTRY

| Industry                                   | Thousand |         |         |         |         |         |         |
|--|----------|---------|---------|---------|---------|---------|---------|
|  | 2012     | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
| Total                                      | 2,040.6  | 2,056.1 | 2,103.5 | 2,147.8 | 2,165.3 | 2,175.3 | 2,203.7 |
| Manufacturing                              | 288.2    | 280.0   | 249.3   | 238.7   | 227.5   | 223.6   | 228.2   |
| Construction                               | 104.5    | 101.9   | 98.2    | 110.4   | 100.9   | 100.6   | 104.0   |
| Services                                   | 1,621.4  | 1,647.5 | 1,731.2 | 1,775.4 | 1,816.8 | 1,829.4 | 1,849.9 |
| Wholesale & Retail Trade                   | 306.3    | 302.2   | 346.3   | 364.1   | 364.1   | 356.2   | 352.5   |
| Transportation and Storage                 | 189.5    | 192.6   | 188.9   | 187.6   | 188.4   | 195.9   | 199.0   |
| Accommodation and Food Services Activities | 129.3    | 135.1   | 137.1   | 139.1   | 138.2   | 134.4   | 134.4   |
| Information & Communications               | 85.8     | 92.1    | 87.8    | 83.5    | 84.6    | 88.7    | 92.1    |
| Financial and Insurance Activities         | 150.6    | 147.8   | 165.6   | 167.3   | 190.7   | 189.6   | 196.0   |
| Business Services <sup>1</sup>             | 289.7    | 291.6   | 311.3   | 333.4   | 334.7   | 345.6   | 348.3   |
| Community, Social & Personal Services      | 470.1    | 486.1   | 494.3   | 500.5   | 516.1   | 519.1   | 527.6   |
| Others <sup>2</sup>                        | 26.5     | 26.8    | 24.8    | 23.3    | 20.2    | 21.7    | 21.6    |

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 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.

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

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12385](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12385)

## 4.7 GOVERNMENT EMPLOYEES IN THE PUBLIC SERVICE

(End of Period)

|                                |         |         |         |         |         |         |         | Number |
|--------------------------------|---------|---------|---------|---------|---------|---------|---------|--------|
|                                | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |        |
| Total                          | 136,027 | 138,720 | 140,865 | 143,183 | 144,980 | 145,218 | 145,622 |        |
| Ministries and Organs of State | 80,210  | 81,508  | 82,291  | 83,713  | 84,393  | 84,626  | 84,953  |        |
| Statutory Boards               | 55,817  | 57,212  | 58,574  | 59,470  | 60,587  | 60,592  | 60,669  |        |

Source : Public Service Division, Prime Minister's Office

Notes : Data exclude Daily-Rated Employees.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14357](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14357)

## 4.8 GOVERNMENT EMPLOYEES IN THE CIVIL SERVICE <sup>1</sup> BY SEX

(End of Period)

|                          |        |        |        |        |        |        |        | Number |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
|                          | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |        |
| Total                    | 80,210 | 81,508 | 82,291 | 83,713 | 84,393 | 84,626 | 84,953 |        |
| Males                    | 34,584 | 35,162 | 35,659 | 36,653 | 37,087 | 37,138 | 37,364 |        |
| Females                  | 45,626 | 46,346 | 46,632 | 47,060 | 47,306 | 47,488 | 47,589 |        |
| Senior Executive & above | 44,720 | 46,656 | 48,747 | 55,020 | 56,072 | 56,691 | 62,114 |        |
| Males                    | 16,432 | 17,072 | 17,790 | 19,492 | 20,102 | 20,383 | 24,623 |        |
| Females                  | 28,288 | 29,584 | 30,957 | 35,528 | 35,970 | 36,308 | 37,491 |        |
| Junior Executive         | 35,490 | 34,852 | 33,544 | 28,693 | 28,321 | 27,935 | 22,839 |        |
| Males                    | 18,152 | 18,090 | 17,869 | 17,161 | 16,985 | 16,755 | 12,741 |        |
| Females                  | 17,338 | 16,762 | 15,675 | 11,532 | 11,336 | 11,180 | 10,098 |        |

Source : Public Service Division, Prime Minister's Office

Notes : Data exclude Daily-Rated Employees.

1 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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14356](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14356)

## 4.9

## GOVERNMENT EMPLOYEES IN THE STATUTORY BOARDS BY SEX

(End of Period)

|                          | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | Number<br>2018 |
|--------------------------|--------|--------|--------|--------|--------|--------|----------------|
| Total                    | 55,817 | 57,212 | 58,574 | 59,470 | 60,587 | 60,592 | 60,669         |
| Males                    | 27,480 | 28,304 | 28,952 | 29,429 | 30,117 | 30,191 | 30,292         |
| Females                  | 28,337 | 28,908 | 29,622 | 30,041 | 30,470 | 30,401 | 30,377         |
| Senior Executive & above | 37,043 | 38,634 | 40,699 | 42,098 | 42,483 | 44,305 | 45,040         |
| Males                    | 19,293 | 20,027 | 21,093 | 21,693 | 21,786 | 22,830 | 23,196         |
| Females                  | 17,750 | 18,607 | 19,606 | 20,405 | 20,697 | 21,475 | 21,844         |
| Junior Executive         | 18,774 | 18,578 | 17,875 | 17,372 | 18,104 | 16,287 | 15,629         |
| Males                    | 8,187  | 8,277  | 7,859  | 7,736  | 8,331  | 7,361  | 7,096          |
| Females                  | 10,587 | 10,301 | 10,016 | 9,636  | 9,773  | 8,926  | 8,533          |

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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14354](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14354)

## 4.10 CENTRAL PROVIDENT FUND MEMBERS <sup>1</sup> BY AGE GROUP

(End of Period)

| Age Group (Years) | Thousand |         |         |         |         |         |         |
|-------------------|----------|---------|---------|---------|---------|---------|---------|
|                   | 2012     | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
| Total             | 3,418.6  | 3,507.6 | 3,593.3 | 3,685.9 | 3,761.5 | 3,835.2 | 3,907.7 |
| Up to 20          | 112.8    | 117.6   | 123.1   | 126.2   | 119.7   | 114.9   | 113.7   |
| > 20 - 25         | 236.6    | 234.4   | 241.0   | 248.0   | 249.2   | 248.0   | 242.4   |
| > 25 - 30         | 252.6    | 260.9   | 266.5   | 273.9   | 285.0   | 292.1   | 288.6   |
| > 30 - 35         | 303.7    | 302.6   | 299.8   | 298.8   | 291.1   | 287.1   | 298.1   |
| > 35 - 40         | 326.8    | 320.3   | 318.5   | 320.6   | 318.5   | 321.0   | 320.2   |
| > 40 - 45         | 346.6    | 346.7   | 347.0   | 342.6   | 341.3   | 333.8   | 327.7   |
| > 45 - 50         | 407.3    | 392.0   | 373.5   | 360.4   | 351.2   | 348.2   | 347.8   |
| > 50 - 55         | 390.5    | 396.9   | 399.8   | 398.1   | 393.5   | 383.8   | 371.0   |
| > 55 - 60         | 328.9    | 339.4   | 348.4   | 357.6   | 364.1   | 369.7   | 375.5   |
| Over 60           | 689.2    | 734.9   | 779.0   | 825.7   | 875.6   | 927.6   | 978.5   |
| Not specified     | 23.7     | 62.2    | 96.7    | 133.9   | 172.3   | 209.0   | 244.3   |

Source : Central Provident Fund (CPF) Board

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

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=5304](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=5304)

## 4.11 ACTIVE CENTRAL PROVIDENT FUND MEMBERS <sup>1</sup> BY AGE GROUP

(End of Period)

| Age Group (Years) | Thousand |         |         |         |         |         |         |
|-------------------|----------|---------|---------|---------|---------|---------|---------|
|                   | 2012     | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
| Total             | 1,788.8  | 1,854.3 | 1,951.0 | 1,959.3 | 1,974.3 | 1,990.4 | 2,014.4 |
| Up to 20          | 45.7     | 49.3    | 56.8    | 49.7    | 45.0    | 43.2    | 43.5    |
| > 20 - 25         | 122.4    | 122.1   | 129.4   | 120.1   | 115.7   | 112.2   | 107.4   |
| > 25 - 30         | 199.8    | 208.2   | 217.6   | 221.0   | 228.4   | 232.0   | 228.1   |
| > 30 - 35         | 232.2    | 233.9   | 235.7   | 233.5   | 226.9   | 223.9   | 233.4   |
| > 35 - 40         | 233.2    | 232.4   | 236.6   | 237.5   | 235.8   | 237.9   | 238.6   |
| > 40 - 45         | 220.9    | 228.7   | 237.4   | 236.7   | 237.2   | 233.4   | 231.0   |
| > 45 - 50         | 212.6    | 214.6   | 217.2   | 215.4   | 216.4   | 220.1   | 225.4   |
| > 50 - 55         | 194.4    | 201.1   | 209.9   | 210.6   | 211.2   | 208.8   | 207.4   |
| > 55 - 60         | 153.9    | 165.3   | 178.3   | 182.9   | 185.4   | 187.1   | 189.3   |
| Over 60           | 173.5    | 198.6   | 232.1   | 251.8   | 272.2   | 291.8   | 310.4   |
| Not specified     | 0.0      | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

Source : Central Provident Fund Board

1 Refers 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.Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14609](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14609)



## 4.12 ACTIVE CENTRAL PROVIDENT FUND MEMBERS <sup>1</sup> BY INDUSTRY

(End of Period)

| Industry  | Thousand |         |         |         |         |         |         |
|---|----------|---------|---------|---------|---------|---------|---------|
|   | 2012     | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
| Total   | 1,788.8  | 1,854.3 | 1,951.0 | 1,959.3 | 1,974.3 | 1,990.4 | 2,014.4 |
| Manufacturing                                   | 254.6    | 253.1   | 252.7   | 246.8   | 244.5   | 239.8   | 238.5   |
| Construction                                    | 105.4    | 110.2   | 113.3   | 113.2   | 111.8   | 105.6   | 103.8   |
| Services  |          |         |         |         |         |         |         |
| Wholesale & Retail Trade                        | 273.9    | 286.0   | 305.0   | 298.1   | 293.0   | 295.8   | 295.8   |
| Transport & Storage                             | 114.7    | 119.1   | 123.4   | 124.3   | 126.1   | 129.0   | 131.6   |
| Accommodation & Food Service Activities         | 108.9    | 116.9   | 125.9   | 129.3   | 133.0   | 134.5   | 137.2   |
| Information & Communications                    | 66.5     | 69.2    | 74.0    | 75.0    | 78.5    | 82.1    | 85.2    |
| Financial & Insurance Activities                | 142.7    | 147.6   | 156.3   | 159.5   | 160.3   | 162.7   | 167.5   |
| Real Estate Activities                          | 45.8     | 46.8    | 53.9    | 49.7    | 48.8    | 48.3    | 48.2    |
| Professional, Scientific & Technical Activities | 137.0    | 146.0   | 159.6   | 162.4   | 163.7   | 164.9   | 169.1   |
| Administrative & Support Service Activities     | 160.5    | 166.1   | 173.5   | 177.8   | 179.7   | 185.3   | 188.3   |
| Other Service Activities                        | 363.4    | 377.2   | 397.2   | 407.2   | 417.6   | 424.9   | 431.8   |
| Others <sup>2</sup>                             | 15.5     | 16.2    | 16.3    | 16.0    | 17.3    | 17.5    | 17.5    |

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 Refers 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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14515](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14515)

## 4.13 EMPLOYMENT SERVICES

|                              | 2014   | 2015   | 2016   | 2017   | Number<br>2018 |
|------------------------------|--------|--------|--------|--------|----------------|
| New Registrants <sup>1</sup> | 34,709 | 30,223 | 23,770 | 25,322 | 28,804         |
| Males                        | 16,201 | 16,070 | 12,857 | 13,294 | 15,710         |
| Females                      | 18,508 | 14,153 | 10,913 | 12,028 | 13,094         |
| Placements <sup>2</sup>      | 14,814 | 13,278 | 14,428 | 15,380 | 19,214         |
| Males                        | 8,067  | 7,437  | 8,022  | 8,331  | 10,827         |
| Females                      | 6,747  | 5,841  | 6,406  | 7,049  | 8,387          |

Source : Workforce Singapore (WSG)

Notes : Data are based on date of data entry.

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

Career services were delivered through WSG's Career Matching Service (CMS) physical touch points 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 CMS physical touch points 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 CMS physical touch points and NTUC's e2i centres.

This includes those who found their own jobs after receiving services from WSG's CMS physical touch points and NTUC's e2i centres. Data are based on unique counts of jobseekers within the reference period.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15264](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15264)

## 4.14 CHANGES IN VALUE ADDED PER WORKER BY INDUSTRY

| Industry                                    | Per Cent |      |      |      |      |      |      |
|---|----------|------|------|------|------|------|------|
|   | 2012     | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Total <sup>1</sup>                          | 0.5      | 0.7  | 0.1  | 0.7  | 1.9  | 3.9  | 2.4  |
| Total (excluding Construction) <sup>1</sup> | 0.8      | 1.6  | 0.2  | 0.5  | 2.1  | 3.5  | 1.9  |
| Goods Producing Industries <sup>2</sup>     | -2.2     | -3.2 | 1.2  | -2.1 | 4.0  | 10.8 | 7.9  |
| Manufacturing                               | -1.1     | 0.1  | 2.6  | -2.7 | 7.0  | 13.8 | 8.3  |
| Construction                                | 2.1      | -6.5 | 3.0  | 4.2  | -1.5 | -5.2 | 0.7  |
| Services Producing Industries <sup>2</sup>  | 1.6      | 3.1  | 0.0  | 0.8  | 0.2  | 1.2  | 0.9  |
| Wholesale & Retail Trade                    | 3.6      | 3.6  | 0.9  | 2.0  | 0.2  | 1.7  | 1.5  |
| Transportation & Storage                    | 1.4      | -1.1 | -1.4 | 0.0  | 0.0  | 2.5  | -2.0 |
| Accommodation & Food Services               | 0.3      | -0.8 | -2.0 | -2.6 | 0.9  | 0.0  | 2.0  |
| Information & Communications                | 3.0      | 2.5  | 1.3  | -5.5 | 1.8  | 3.0  | 0.7  |
| Finance & Insurance                         | 1.2      | 12.7 | 3.9  | 0.3  | -2.5 | 2.9  | 3.4  |
| Business Services                           | -0.2     | 0.9  | -3.1 | 4.2  | 2.4  | -0.8 | 0.5  |
| Other Services Industries                   | -0.4     | -0.9 | -0.8 | -1.3 | 0.5  | 0.4  | -0.5 |

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 in Chained (2015) Dollars.

2 Based on Gross Value Added at in Chained (2015) Dollars.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=16039](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=16039)

## 4.15 MULTIFACTOR PRODUCTIVITY : CONTRIBUTIONS TO GROWTH IN REAL GDP <sup>1</sup>

|  | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|------|------|------|------|------|------|------|
| Percentage Change in Real GDP                      | 4.4  | 4.7  | 3.8  | 2.9  | 2.9  | 3.6  | 3.1  |
| Percentage Contribution to Growth in Real GDP of : |      |      |      |      |      |      |      |
| Capital Input                                      | 3.2  | 3.2  | 3.2  | 2.8  | 2.5  | 2.6  | 2.1  |
| Labour Input                                       | 1.6  | 1.7  | 1.7  | 1.0  | 0.5  | -0.1 | 0.3  |
| Multifactor Productivity Growth                    | -0.5 | -0.3 | -1.0 | -0.9 | -0.1 | 1.1  | 0.7  |

1 All growth rates are expressed in log terms.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=16091](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=16091)

## 4.16 INDICES OF UNIT LABOUR COST BY INDUSTRY (2015 = 100)

|                                     | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Unit Labour Cost Index of           |       |       |       |       |       |       |       |
| Overall Economy                     | 93.3  | 94.5  | 97.4  | 100.0 | 101.5 | 101.5 | 101.9 |
| Goods Producing Industries          | 85.8  | 91.1  | 94.7  | 100.0 | 98.1  | 91.7  | 88.0  |
| Manufacturing                       | 88.6  | 91.2  | 94.1  | 100.0 | 95.5  | 87.1  | 83.8  |
| Construction                        | 86.5  | 97.1  | 99.6  | 100.0 | 104.5 | 112.0 | 112.4 |
| Utilities                           | 81.7  | 90.2  | 95.5  | 100.0 | 101.0 | 104.6 | 108.7 |
| Other Goods Industries <sup>1</sup> | 98.8  | 95.2  | 96.6  | 100.0 | 104.5 | 123.2 | 129.6 |
| Services Producing Industries       | 96.2  | 95.7  | 98.4  | 100.0 | 102.6 | 104.8 | 106.7 |
| Wholesale & Retail Trade            | 98.1  | 96.5  | 97.9  | 100.0 | 104.8 | 106.0 | 108.8 |
| Transportation & Storage            | 90.3  | 92.4  | 97.8  | 100.0 | 104.9 | 104.3 | 107.5 |
| Accommodation & Food Services       | 89.9  | 92.7  | 96.2  | 100.0 | 102.5 | 102.7 | 101.5 |
| Information & Communications        | 92.7  | 90.8  | 93.9  | 100.0 | 101.8 | 103.5 | 106.5 |
| Finance & Insurance                 | 112.2 | 100.8 | 101.0 | 100.0 | 99.8  | 103.6 | 103.5 |
| Business Services                   | 96.2  | 97.7  | 101.2 | 100.0 | 100.8 | 103.1 | 104.9 |
| Other Services Industries           | 87.4  | 92.5  | 95.9  | 100.0 | 102.7 | 105.1 | 107.6 |

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

1 Comprises agriculture, fishing and quarrying.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=16082](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=16082)

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

|                                      | Dollars |       |       |       |       |       |       |
|--------------------------------------|---------|-------|-------|-------|-------|-------|-------|
|                                      | 2012    | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
| Median (50 <sup>th</sup> Percentile) | 3,480   | 3,705 | 3,770 | 3,949 | 4,056 | 4,232 | 4,437 |
| 20 <sup>th</sup> Percentile          | 1,740   | 1,885 | 1,972 | 2,012 | 2,106 | 2,200 | 2,340 |

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

Notes : Data are for mid-year. As data are captured from a sample survey, year-on-year income changes are prone to fluctuations and hence should always be interpreted with caution. Income growth studied over longer periods (e.g. 5 or 10 years) smooths out these fluctuations and hence provides a more direct indication of income growth.

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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14603](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14603)

## 4.18 AVERAGE WEEKLY PAID HOURS WORKED PER EMPLOYEE BY INDUSTRY

|                                       | Hours |      |      |      |      |      |      |
|---------------------------------------|-------|------|------|------|------|------|------|
| Industry                              | 2012  | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Total                                 | 46.2  | 46.2 | 46.0 | 45.6 | 45.5 | 45.1 | 44.8 |
| Manufacturing                         | 50.2  | 50.1 | 49.7 | 49.3 | 48.9 | 48.5 | 48.3 |
| Construction                          | 53.0  | 53.2 | 52.9 | 52.1 | 52.0 | 50.8 | 50.4 |
| Services                              | 43.5  | 43.4 | 43.2 | 43.1 | 43.2 | 43.1 | 42.9 |
| Wholesale & Retail Trade              | 43.6  | 43.2 | 43.1 | 43.0 | 42.7 | 42.8 | 42.9 |
| Transportation & Storage              | 46.1  | 45.7 | 45.8 | 45.7 | 45.9 | 45.5 | 45.6 |
| Accommodation & Food Services         | 42.1  | 43.0 | 42.0 | 41.5 | 42.0 | 42.2 | 41.5 |
| Information & Communications          | 41.5  | 41.7 | 41.5 | 41.5 | 41.4 | 41.5 | 41.7 |
| Financial & Insurance Services        | 41.2  | 41.2 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 |
| Real Estate Services                  | 44.5  | 44.6 | 44.5 | 44.8 | 45.0 | 44.6 | 44.0 |
| Professional Services                 | 43.6  | 43.6 | 43.1 | 42.9 | 43.3 | 43.1 | 43.0 |
| Administrative & Support Services     | 48.5  | 47.5 | 47.3 | 46.4 | 46.6 | 46.7 | 46.0 |
| Community, Social & Personal Services | 42.1  | 42.1 | 42.0 | 42.1 | 42.1 | 41.9 | 41.8 |
| Others <sup>1</sup>                   | 45.7  | 45.7 | 45.6 | 45.6 | 45.7 | 45.4 | 45.4 |

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

Notes : Data pertain to private sector establishments (with at least 25 employees each) and the public sector.  
Data are based on Singapore Standard Industrial Classification 2015.

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

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14598](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14598)

## 4.19 AVERAGE MONTHLY RECRUITMENT RATE BY INDUSTRY AND OCCUPATIONAL GROUP

|  | Per Cent |      |      |      |      |      |      |
|--|----------|------|------|------|------|------|------|
|  | 2012     | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Total  | 2.8      | 2.7  | 2.6  | 2.4  | 2.2  | 2.1  | 2.3  |
| Industry   |          |      |      |      |      |      |      |
| Manufacturing  | 1.9      | 1.9  | 1.8  | 1.6  | 1.6  | 1.8  | 1.9  |
| Construction   | 3.4      | 3.3  | 2.6  | 2.5  | 2.1  | 1.7  | 2.0  |
| Services   | 2.9      | 2.8  | 2.8  | 2.6  | 2.4  | 2.3  | 2.4  |
| Wholesale & Retail Trade                               | 3.4      | 3.5  | 3.1  | 2.7  | 2.5  | 2.4  | 2.4  |
| Transportation & Storage                               | 2.3      | 2.3  | 2.1  | 2.0  | 1.8  | 1.7  | 1.8  |
| Accommodation & Food Services                          | 4.6      | 4.6  | 4.7  | 4.5  | 3.9  | 3.7  | 3.7  |
| Information & Communications                           | 2.8      | 2.7  | 3.0  | 2.6  | 2.2  | 2.0  | 2.3  |
| Financial & Insurance Services                         | 1.9      | 2.1  | 2.2  | 2.0  | 1.9  | 1.8  | 2.1  |
| Real Estate Services                                   | 4.1      | 3.6  | 3.8  | 3.5  | 3.5  | 3.4  | 3.3  |
| Professional Services                                  | 2.9      | 2.5  | 2.3  | 2.2  | 2.3  | 2.0  | 2.5  |
| Administrative & Support Services                      | 4.6      | 4.8  | 5.2  | 4.7  | 4.4  | 4.6  | 4.5  |
| Community, Social & Personal Services                  | 1.8      | 1.6  | 1.6  | 1.6  | 1.4  | 1.3  | 1.5  |
| Others <sup>1</sup>                                    | 2.4      | 2.2  | 2.1  | 1.6  | 1.3  | 1.4  | 1.8  |
| Occupational Group                                     |          |      |      |      |      |      |      |
| Professionals, Managers, Executives & Technicians      | 1.9      | 1.9  | 1.9  | 1.8  | 1.6  | 1.5  | 1.7  |
| Clerical, Sales & Service Workers                      | 3.7      | 3.8  | 3.8  | 3.5  | 3.1  | 3.1  | 3.2  |
| Production & Transport Operators, Cleaners & Labourers | 3.1      | 3.1  | 2.9  | 2.6  | 2.5  | 2.4  | 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 each) and the public sector.  
Data are based on Singapore Standard Industrial Classification 2015.

<sup>1</sup> Includes Agriculture, Fishing, Quarrying, Utilities and Sewage & Waste Management.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15682](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15682)

## 4.20 AVERAGE MONTHLY RESIGNATION RATE BY INDUSTRY AND OCCUPATIONAL GROUP

|  | 2012     | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|----------|------|------|------|------|------|------|
|  | Per Cent |      |      |      |      |      |      |
| Total  | 2.1      | 2.0  | 2.0  | 1.9  | 1.8  | 1.8  | 1.8  |
| Industry   |          |      |      |      |      |      |      |
| Manufacturing  | 1.6      | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.6  |
| Construction   | 1.8      | 2.0  | 1.9  | 1.8  | 1.7  | 1.8  | 1.8  |
| Services   | 2.3      | 2.2  | 2.2  | 2.0  | 1.9  | 1.9  | 1.9  |
| Wholesale & Retail Trade                               | 2.9      | 2.9  | 2.6  | 2.2  | 2.2  | 2.0  | 2.0  |
| Transportation & Storage                               | 1.6      | 1.7  | 1.7  | 1.5  | 1.4  | 1.3  | 1.3  |
| Accommodation & Food Services                          | 4.3      | 4.1  | 4.3  | 4.0  | 3.6  | 3.6  | 3.3  |
| Information & Communications                           | 2.0      | 2.0  | 1.8  | 1.8  | 1.7  | 1.6  | 1.6  |
| Financial & Insurance Services                         | 1.2      | 1.4  | 1.4  | 1.3  | 1.2  | 1.3  | 1.4  |
| Real Estate Services                                   | 3.3      | 3.0  | 3.4  | 3.1  | 2.9  | 2.7  | 2.5  |
| Professional Services                                  | 1.8      | 1.8  | 1.8  | 1.8  | 1.6  | 1.5  | 1.6  |
| Administrative & Support Services                      | 4.1      | 3.8  | 4.0  | 3.4  | 3.5  | 3.6  | 3.4  |
| Community, Social & Personal Services                  | 1.2      | 1.1  | 1.1  | 1.1  | 1.0  | 1.0  | 1.1  |
| Others <sup>1</sup>                                    | 1.7      | 1.5  | 1.5  | 1.4  | 1.2  | 1.4  | 1.4  |
| Occupational Group                                     |          |      |      |      |      |      |      |
| Professionals, Managers, Executives & Technicians      | 1.3      | 1.3  | 1.3  | 1.3  | 1.2  | 1.2  | 1.3  |
| Clerical, Sales & Service Workers                      | 3.1      | 3.1  | 3.1  | 2.8  | 2.7  | 2.6  | 2.5  |
| Production & Transport Operators, Cleaners & Labourers | 2.2      | 2.2  | 2.3  | 2.1  | 2.1  | 2.2  | 2.2  |

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

Notes : Data pertain to private sector establishments (with at least 25 employees each) and the public sector.  
Data are based on Singapore Standard Industrial Classification 2015.

<sup>1</sup> Includes Agriculture, Fishing, Quarrying, Utilities and Sewage & Waste Management.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15684](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15684)

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

|   | Number  |         |         |         |         |         |         |
|---|---------|---------|---------|---------|---------|---------|---------|
|   | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
| Total   | 198,322 | 231,009 | 267,423 | 267,655 | 289,699 | 310,491 | 327,996 |
| Age Group                                       |         |         |         |         |         |         |         |
| Below 20  | 11,575  | 13,641  | 14,221  | 16,016  | 13,515  | 18,597  | 21,607  |
| 20 - 29   | 40,260  | 45,947  | 52,170  | 54,876  | 56,649  | 65,219  | 61,703  |
| 30 - 39   | 46,722  | 52,223  | 56,622  | 56,326  | 57,849  | 56,487  | 56,205  |
| 40 - 49   | 43,950  | 50,793  | 56,065  | 53,375  | 58,179  | 58,635  | 60,570  |
| 50 - 59   | 37,916  | 45,233  | 54,096  | 50,673  | 56,543  | 58,822  | 63,575  |
| 60 - 69   | 14,812  | 18,990  | 27,614  | 29,108  | 36,787  | 40,638  | 47,828  |
| 70 & Over                                       | 3,087   | 4,182   | 6,635   | 7,281   | 10,177  | 12,093  | 16,508  |
| Highest Qualification Attained <sup>1</sup>     |         |         |         |         |         |         |         |
| Below Primary                                   | 5,531   | 8,863   | 12,074  | 16,136  | 16,454  | 16,993  | 21,309  |
| Primary   | 28,516  | 26,391  | 33,538  | 25,031  | 25,732  | 24,546  | 24,872  |
| Lower Secondary                                 | 22,120  | 26,606  | 30,313  | 27,975  | 31,491  | 34,274  | 36,776  |
| Secondary                                       | 55,977  | 60,134  | 64,020  | 60,786  | 64,041  | 67,141  | 70,332  |
| Post-Secondary                                  | 17,318  | 20,601  | 21,856  | 25,276  | 27,755  | 32,080  | 29,183  |
| Professional Qualification<br>and Other Diploma | 9,620   | 10,744  | 14,030  | 11,839  | 14,634  | 15,057  | 14,963  |
| Polytechnic Diploma                             | 19,790  | 24,144  | 26,612  | 31,610  | 32,133  | 41,764  | 42,125  |
| Degree and Above                                | 27,144  | 34,032  | 45,011  | 48,395  | 56,295  | 57,893  | 59,478  |
| Others / Not Reported                           | 12,306  | 19,494  | 19,969  | 20,607  | 21,164  | 20,743  | 28,958  |
| Sex   |         |         |         |         |         |         |         |
| Female  | 101,438 | 109,391 | 120,818 | 122,291 | 133,816 | 134,715 | 142,266 |
| Male  | 95,154  | 119,170 | 144,166 | 143,142 | 153,730 | 173,394 | 183,670 |
| Not Reported                                    | 1,730   | 2,448   | 2,439   | 2,222   | 2,153   | 2,382   | 2,060   |

Source : SkillsFuture Singapore (SSG)

Notes : Prior to October 2016, data were from the Singapore Workforce Development Agency (WDA). With effect from October 2016, data are from the 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 October 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. With the roll-out of the Skills Frameworks in 2016, the WSQ adopted the skills and competencies covered in the Skills Frameworks.

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

<sup>1</sup> Data are classified according to the Singapore Standard Educational Classification 2015.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=5333](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=5333)



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

|                                      | Number  |         |         |         |         |         |         |
|--------------------------------------|---------|---------|---------|---------|---------|---------|---------|
|                                      | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
| Number of WSQ trainees               | 198,322 | 231,009 | 267,423 | 267,655 | 289,699 | 310,491 | 327,996 |
| Level of WSQ Statement of Attainment |         |         |         |         |         |         |         |
| Certificate                          | 155,148 | 164,867 | 188,700 | 190,680 | 203,627 | 220,810 | 226,721 |
| Higher Certificate                   | 7,294   | 11,146  | 10,728  | 13,457  | 15,743  | 17,478  | 26,856  |
| Advanced Certificate                 | 31,628  | 45,699  | 55,944  | 50,727  | 60,041  | 61,907  | 71,782  |
| Diploma                              | 19,771  | 32,873  | 36,117  | 35,887  | 41,918  | 46,436  | 52,796  |
| Specialist Diploma                   | 5,760   | 7,604   | 8,790   | 7,902   | 9,514   | 10,986  | 14,664  |
| Graduate Certificate                 | 751     | 784     | 756     | 483     | 580     | 488     | 594     |
| Graduate Diploma                     | 393     | 550     | 738     | 847     | 980     | 1,007   | 653     |

Source : SkillsFuture Singapore (SSG)

Notes : Prior to October 2016, data were from the Singapore Workforce Development Agency (WDA). With effect from October 2016, data are from the 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 October 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. With the roll-out of the Skills Frameworks in 2016, the WSQ adopted the skills and competencies covered in the Skills Frameworks.

Data are based on calendar year and 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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14580](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14580)

## 4.23 TRADE UNIONS AND MEMBERSHIP

(End of Period)

|                | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | Number<br>2018 |
|----------------|---------|---------|---------|---------|---------|---------|----------------|
| Employee Class |         |         |         |         |         |         |                |
| Unions         | 66      | 64      | 65      | 64      | 63      | 61      | 63             |
| Members        | 613,418 | 655,126 | 686,676 | 718,723 | 740,750 | 755,217 | 763,677        |
| Employer Class |         |         |         |         |         |         |                |
| Unions         | 3       | 3       | 3       | 3       | 3       | 3       | 3              |
| Members        | 2,288   | 3,074   | 3,312   | 3,365   | 3,489   | 3,570   | 3,486          |

Source : Ministry of Manpower

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=3398](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=3398)

## 4.24 LABOUR RELATIONS

|  | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | Number<br>2018 |
|--|------|------|------|------|------|------|----------------|
| Trade Disputes <sup>1</sup>                | 164  | 136  | 106  | 119  | 112  | 110  | 105            |
| Wage Increase and<br>Conditions of Service | 92   | 83   | 66   | 72   | 62   | 44   | 64             |
| Retrenchment Benefits                      | 11   | 18   | 15   | 18   | 27   | 28   | 16             |
| Bonus or Gratuity                          | 19   | 10   | 5    | 11   | 6    | 5    | 11             |
| Other Industrial Matters <sup>2</sup>      | 42   | 25   | 20   | 18   | 17   | 33   | 14             |
| Cases Referred to IAC <sup>3,4</sup>       | 7    | 4    | 8    | 0    | 2    | 1    | 1              |
| IAC Awards <sup>4</sup>                    | 4    | 2    | 1    | 0    | 0    | 1    | 0              |
| Industrial Stoppages <sup>5</sup>          | 1    | 0    | 0    | 0    | 0    | 0    | 0              |

Source : Ministry of Manpower (MOM)

1 From 2018, data exclude disputes involving individual union members.

2 Examples include sales, commission and shift allowances.

From 1 April 2017, includes appeals under the Retirement and Re-employment Act from union members working in unionised companies.

3 IAC refers to the Industrial Arbitration Court.

4 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.

5 Refers to cases reported to and handled by the Labour Relations & Workplaces Division of MOM. Data include both strikes and lockouts.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14617](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14617)

5



# National Accounts

# 5

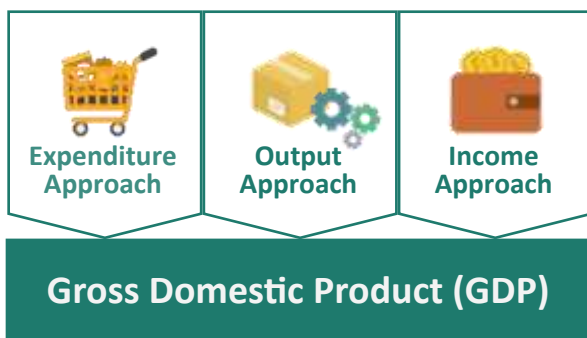
# National Accounts



## National Income Estimates



Singapore adopts the output, expenditure and income approaches for compiling the national income aggregates. 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) 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, government consumption expenditure, gross capital formation and net exports of goods and services.

**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.

**Real GDP:** GDP adjusted for price changes to reflect the real value of output or expenditure over time. Real GDP is compiled in chained (2015) dollars.

**GDP Deflators:** A broad measure of the change in the overall level of prices of the goods and services that make up GDP. The deflators are derived as the ratio of the current price value of a component of GDP to its corresponding real value, with the index at reference year 2015 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](#)".

## National Accounts



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”](#).

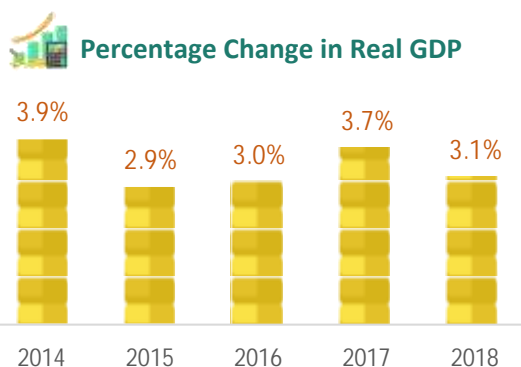
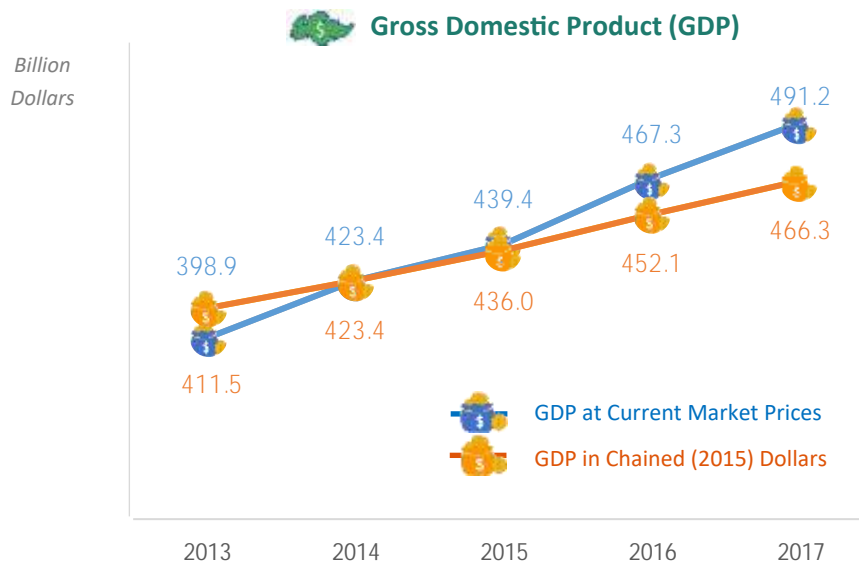
The adoption of the United Nations System of National Accounts (SNA) recommendation to compile annually reweighted chain volume measures (CVM) of GDP is explained in the information paper [“Benchmarking of Singapore’s National Accounts to Reference Year 2015”](#).

View video on ‘Introduction to Chain-Linking of Real Gross Domestic Product’:



Analyses on Singapore’s national income may be found in the [“Economic Survey of Singapore”](#), published by the Ministry of Trade and Industry.

### Key Indicators



## 5.1 OUTPUT, SAVING AND INVESTMENT

(At Current Prices)

Million Dollars

|  | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Gross National Income</b>   |           |           |           |           |           |           |           |
| Gross National Income  | 352,372.1 | 364,140.4 | 385,070.0 | 394,551.3 | 408,820.3 | 434,805.5 | 457,982.8 |
| Gross Domestic Product   | 368,770.5 | 384,870.3 | 398,947.9 | 423,444.1 | 439,411.6 | 467,305.5 | 491,174.5 |
| Net Income from Abroad   | -16,398.4 | -20,729.9 | -13,877.9 | -28,892.8 | -30,591.3 | -32,500.0 | -33,191.7 |
| <b>Generation of Gross National Saving</b>   |           |           |           |           |           |           |           |
| Gross National Saving  | 172,976.3 | 175,834.5 | 189,022.4 | 180,254.1 | 194,330.0 | 208,116.3 | 218,474.6 |
| Gross Domestic Saving  | 197,252.4 | 204,340.4 | 210,922.8 | 222,947.7 | 234,459.2 | 248,474.9 | 261,171.9 |
| Gross Domestic Product   | 368,770.5 | 384,870.3 | 398,947.9 | 423,444.1 | 439,411.6 | 467,305.5 | 491,174.5 |
| Less : Private & Government<br>Consumption Expenditure                             | 170,239.0 | 181,188.0 | 188,365.0 | 200,496.4 | 205,469.9 | 215,188.5 | 223,379.8 |
| Statistical Discrepancy  | -1,279.1  | 658.1     | 339.9     | 0.0       | 517.5     | -3,642.1  | -6,622.8  |
| Net Income from Abroad   | -16,398.4 | -20,729.9 | -13,877.9 | -28,892.8 | -30,591.3 | -32,500.0 | -33,191.7 |
| Net Current Transfers from Abroad  | -7,877.7  | -7,776.0  | -8,022.5  | -13,800.8 | -9,537.9  | -7,858.6  | -9,505.6  |
| <b>Finance of Gross Capital Formation</b>  |           |           |           |           |           |           |           |
| Gross Capital Formation  | 107,913.1 | 115,382.2 | 117,410.4 | 107,356.7 | 117,433.3 | 131,606.2 | 130,702.6 |
| Gross National Saving  | 172,976.3 | 175,834.5 | 189,022.4 | 180,254.1 | 194,330.0 | 208,116.3 | 218,474.6 |
| Net Borrowing from/Lending (-)<br>to Abroad & Net Capital<br>Transfers from Abroad | -65,063.2 | -60,452.3 | -71,612.0 | -72,897.4 | -76,896.7 | -76,510.0 | -87,772.0 |

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## 5.2 GROSS DOMESTIC PRODUCT BY INDUSTRY

Million Dollars

| Industry                            | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|-------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| At Current Prices                   |           |           |           |           |           |           |           |
| GDP at Current Market Prices        | 368,770.5 | 384,870.3 | 398,947.9 | 423,444.1 | 439,411.6 | 467,305.5 | 491,174.5 |
| Goods Producing Industries          | 92,399.6  | 90,366.2  | 96,561.8  | 102,986.0 | 102,846.1 | 110,401.5 | 123,907.9 |
| Manufacturing                       | 70,497.2  | 67,885.0  | 71,809.7  | 76,598.2  | 77,399.3  | 88,184.9  | 102,251.6 |
| Construction                        | 16,425.0  | 17,127.3  | 19,183.8  | 20,433.8  | 19,707.5  | 16,668.8  | 15,962.9  |
| Utilities                           | 5,354.5   | 5,221.4   | 5,430.3   | 5,815.9   | 5,603.4   | 5,425.8   | 5,571.3   |
| Other Goods Industries <sup>1</sup> | 122.9     | 132.5     | 138.0     | 138.1     | 135.9     | 122.0     | 122.1     |
| Services Producing Industries       | 239,469.3 | 255,082.3 | 262,839.8 | 278,101.3 | 292,459.1 | 310,637.1 | 323,589.8 |
| Wholesale & Retail Trade            | 67,637.6  | 68,495.3  | 64,724.5  | 65,584.5  | 73,937.0  | 79,782.6  | 81,774.5  |
| Transportation & Storage            | 23,702.9  | 24,756.6  | 27,092.7  | 30,014.6  | 27,680.0  | 31,113.3  | 31,360.1  |
| Accommodation & Food Services       | 7,847.4   | 8,208.9   | 8,665.3   | 8,763.0   | 9,224.7   | 9,358.8   | 9,735.3   |
| Information & Communications        | 13,695.4  | 14,774.3  | 15,798.6  | 15,779.4  | 17,084.4  | 18,109.1  | 19,061.3  |
| Finance & Insurance                 | 37,722.1  | 42,892.6  | 45,968.7  | 49,874.5  | 51,127.2  | 55,802.4  | 60,222.3  |
| Business Services                   | 51,304.5  | 55,661.5  | 57,934.4  | 63,122.4  | 65,632.7  | 66,010.7  | 69,045.7  |
| Other Services Industries           | 37,559.4  | 40,293.2  | 42,655.3  | 44,963.1  | 47,773.1  | 50,460.2  | 52,390.5  |
| Ownership of Dwellings              | 15,749.3  | 17,251.0  | 17,797.2  | 18,100.1  | 17,589.4  | 17,436.3  | 17,172.4  |
| Gross Value Added at Basic Prices   | 347,618.2 | 362,699.5 | 377,198.8 | 399,187.4 | 412,894.6 | 438,474.9 | 464,670.1 |
| Add : Taxes on Products             | 21,152.3  | 22,170.8  | 21,749.1  | 24,256.7  | 26,517.0  | 28,830.6  | 26,504.4  |
| In Chained (2015) Dollars           |           |           |           |           |           |           |           |
| GDP in Chained (2015) Dollars       | 377,894.7 | 396,090.5 | 411,540.3 | 423,444.1 | 435,987.9 | 452,118.5 | 466,312.6 |
| Goods Producing Industries          | 99,894.7  | 101,758.7 | 105,644.5 | 102,986.0 | 105,714.2 | 111,638.4 | 117,243.7 |
| Manufacturing                       | 77,335.8  | 78,628.4  | 80,737.9  | 76,598.2  | 79,432.7  | 87,698.7  | 93,862.6  |
| Construction                        | 17,292.4  | 17,727.6  | 19,280.0  | 20,433.8  | 20,226.2  | 17,897.7  | 17,241.3  |
| Utilities                           | 5,441.8   | 5,572.1   | 5,705.8   | 5,815.9   | 5,917.8   | 5,910.7   | 5,865.0   |
| Other Goods Industries <sup>1</sup> | 129.9     | 134.4     | 138.8     | 138.1     | 137.4     | 121.9     | 120.2     |
| Services Producing Industries       | 239,864.4 | 256,254.1 | 267,190.8 | 278,101.3 | 283,938.0 | 291,861.7 | 300,259.8 |
| Wholesale & Retail Trade            | 57,805.9  | 61,331.3  | 63,588.8  | 65,584.5  | 65,504.3  | 66,170.9  | 67,313.7  |
| Transportation & Storage            | 27,892.6  | 28,766.7  | 29,300.2  | 30,014.6  | 30,528.1  | 31,861.7  | 32,267.4  |
| Accommodation & Food Services       | 8,274.6   | 8,565.7   | 8,756.2   | 8,763.0   | 9,039.3   | 9,207.5   | 9,468.2   |
| Information & Communications        | 13,782.9  | 14,783.4  | 15,844.5  | 15,779.4  | 16,505.7  | 17,364.2  | 18,308.3  |
| Finance & Insurance                 | 37,110.8  | 43,656.9  | 47,653.8  | 49,874.5  | 50,106.2  | 53,363.5  | 56,467.4  |
| Business Services                   | 53,855.4  | 56,775.0  | 58,279.6  | 63,122.4  | 65,587.8  | 66,092.1  | 67,936.4  |
| Other Services Industries           | 41,587.0  | 42,460.4  | 43,790.1  | 44,963.1  | 46,666.6  | 47,947.8  | 48,733.5  |
| Ownership of Dwellings              | 16,109.9  | 16,662.8  | 17,304.7  | 18,100.1  | 18,944.6  | 19,805.7  | 20,754.5  |
| Gross Value Added at Basic Prices   | 355,245.7 | 374,281.6 | 389,762.7 | 399,187.4 | 408,596.9 | 423,168.1 | 437,950.0 |
| Add : Taxes on Products             | 22,756.1  | 21,819.1  | 21,829.2  | 24,256.7  | 27,391.1  | 28,974.1  | 28,325.3  |

Notes : The industries are classified according to the Singapore Standard Industrial Classification 2015.  
Disaggregated chain-linked data generally do not add up to the total.

1 Comprises Agriculture, Fishing and Quarrying.

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[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=16034](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=16034)

## 5.3 EXPENDITURE ON GROSS DOMESTIC PRODUCT

Million Dollars

|                                    | 2012                           | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|------------------------------------|--------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                    | At Current Prices <sup>1</sup> |           |           |           |           |           |           |
| Total                              | 368,770.5                      | 384,870.3 | 398,947.9 | 423,444.1 | 439,411.6 | 467,305.5 | 491,174.5 |
| Private Consumption Expenditure    | 137,573.7                      | 143,685.4 | 149,942.1 | 157,343.7 | 160,034.3 | 166,460.9 | 171,646.2 |
| Government Consumption Expenditure | 32,665.2                       | 37,502.6  | 38,422.8  | 43,152.8  | 45,435.6  | 48,727.7  | 51,733.6  |
| Gross Fixed Capital Formation      | 97,466.0                       | 106,024.9 | 112,216.9 | 115,271.1 | 115,387.1 | 122,419.0 | 118,514.6 |
| Changes in Inventories             | 10,447.1                       | 9,357.3   | 5,193.5   | -7,914.5  | 2,046.2   | 9,187.2   | 12,188.1  |
| Net Exports of Goods & Services    | 89,339.3                       | 88,958.2  | 93,512.4  | 115,591.0 | 117,025.9 | 116,868.6 | 130,469.3 |
| Exports of Goods & Services        | 725,443.9                      | 750,796.5 | 765,794.6 | 755,359.1 | 727,469.8 | 801,059.1 | 866,327.2 |
| Less : Imports of Goods & Services | 636,104.6                      | 661,838.3 | 672,282.2 | 639,768.1 | 610,443.9 | 684,190.5 | 735,857.9 |
| Statistical Discrepancy            | 1,279.1                        | -658.1    | -339.9    | 0.0       | -517.5    | 3,642.1   | 6,622.8   |
|                                    | In Chained (2015) Dollars      |           |           |           |           |           |           |
| Total                              | 377,894.7                      | 396,090.5 | 411,540.3 | 423,444.1 | 435,987.9 | 452,118.5 | 466,312.6 |
| Private Consumption Expenditure    | 140,475.5                      | 144,430.3 | 149,636.9 | 157,343.7 | 161,642.6 | 167,107.1 | 171,701.1 |
| Government Consumption Expenditure | 35,245.3                       | 39,379.6  | 39,625.3  | 43,152.8  | 44,734.1  | 46,725.6  | 48,621.7  |
| Gross Fixed Capital Formation      | 102,183.8                      | 108,477.2 | 113,055.2 | 115,271.1 | 116,538.3 | 123,955.0 | 119,020.5 |
| Changes in Inventories             | 8,869.8                        | 7,996.6   | 4,351.9   | -7,914.5  | 1,808.6   | 8,119.2   | 10,297.5  |
| Net Exports of Goods & Services    | 88,942.5                       | 92,296.2  | 100,764.5 | 115,591.0 | 115,381.7 | 110,431.0 | 119,528.1 |
| Exports of Goods & Services        | 654,298.5                      | 694,471.4 | 719,611.0 | 755,359.1 | 755,726.9 | 799,082.6 | 840,223.9 |
| Less : Imports of Goods & Services | 565,356.0                      | 602,175.2 | 618,846.5 | 639,768.1 | 640,345.2 | 688,651.6 | 720,695.8 |
| Statistical Discrepancy            | 734.7                          | 2,734.3   | 3,390.8   | 0.0       | -4,117.5  | -4,836.0  | -3,984.8  |

Notes: Disaggregated chain-linked data generally do not add up to the total.

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## 5.4 PRIVATE CONSUMPTION EXPENDITURE

Million Dollars

|   | 2012                           | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|   | At Current Prices <sup>1</sup> |           |           |           |           |           |           |
| Total   | 137,573.7                      | 143,685.4 | 149,942.1 | 157,343.7 | 160,034.3 | 166,460.9 | 171,646.2 |
| Food & Non-Alcoholic Beverages                                      | 9,533.7                        | 10,041.7  | 10,247.5  | 10,495.5  | 10,756.9  | 11,114.4  | 11,418.3  |
| Alcoholic Beverages & Tobacco                                       | 2,729.4                        | 2,784.5   | 2,983.1   | 3,081.2   | 3,089.3   | 2,982.2   | 3,072.4   |
| Clothing & Footwear   | 4,042.1                        | 4,321.0   | 4,423.5   | 4,498.0   | 4,639.8   | 4,908.6   | 5,243.5   |
| Housing & Utilities   | 24,789.4                       | 26,437.6  | 27,338.2  | 27,402.1  | 26,985.5  | 26,739.8  | 27,179.5  |
| Furnishings, Household Equipment &<br>Routine Household Maintenance | 7,282.1                        | 7,194.2   | 7,120.4   | 7,137.3   | 7,245.4   | 7,360.8   | 7,459.3   |
| Health  | 8,599.4                        | 9,243.3   | 9,673.9   | 10,362.9  | 11,221.2  | 11,987.9  | 12,766.9  |
| Transport   | 17,799.8                       | 17,120.3  | 17,988.4  | 20,822.1  | 22,962.0  | 24,205.5  | 22,925.7  |
| Communication   | 6,801.9                        | 6,696.7   | 6,795.1   | 6,777.2   | 6,714.7   | 6,797.7   | 6,902.2   |
| Recreation & Culture  | 16,730.9                       | 16,700.6  | 17,062.7  | 16,406.2  | 15,992.7  | 17,159.0  | 17,501.9  |
| Education   | 5,057.4                        | 5,607.5   | 5,992.5   | 6,133.7   | 6,471.0   | 6,699.7   | 7,084.5   |
| Food Serving Services   | 10,261.0                       | 10,872.4  | 11,538.8  | 11,827.9  | 12,389.7  | 12,664.1  | 13,031.9  |
| Accommodation Services  | 3,699.4                        | 3,809.4   | 4,043.8   | 4,034.3   | 4,202.6   | 4,362.5   | 4,661.6   |
| Miscellaneous Goods & Services                                      | 21,133.8                       | 23,050.3  | 23,706.7  | 25,774.9  | 27,550.8  | 30,116.6  | 32,847.4  |
| Add : Residents' Expenditure Abroad                                 | 22,728.1                       | 23,999.2  | 25,436.0  | 25,569.9  | 26,120.3  | 26,967.4  | 27,228.3  |
| Less : Non-residents' Expenditure<br>Locally                        | 23,614.9                       | 24,193.3  | 24,408.6  | 22,979.5  | 26,307.6  | 27,605.5  | 27,677.1  |
|   | In Chained (2015) Dollars      |           |           |           |           |           |           |
| Total   | 140,475.5                      | 144,430.3 | 149,636.9 | 157,343.7 | 161,642.6 | 167,107.1 | 171,701.1 |
| Food & Non-Alcoholic Beverages                                      | 10,084.6                       | 10,391.9  | 10,365.0  | 10,495.5  | 10,568.7  | 10,790.3  | 10,980.8  |
| Alcoholic Beverages & Tobacco                                       | 2,908.9                        | 2,957.1   | 3,006.0   | 3,081.2   | 3,083.4   | 2,978.7   | 2,978.0   |
| Clothing & Footwear   | 4,019.0                        | 4,285.1   | 4,410.0   | 4,498.0   | 4,613.8   | 4,859.8   | 5,135.8   |
| Housing & Utilities   | 24,869.3                       | 25,555.3  | 26,328.8  | 27,402.1  | 28,654.5  | 29,583.7  | 30,802.4  |
| Furnishings, Household Equipment &<br>Routine Household Maintenance | 7,468.3                        | 7,326.2   | 7,138.0   | 7,137.3   | 7,121.1   | 7,239.6   | 7,347.9   |
| Health  | 9,085.9                        | 9,429.6   | 9,678.7   | 10,362.9  | 11,092.0  | 11,557.4  | 12,018.6  |
| Transport   | 17,662.5                       | 16,637.5  | 17,580.7  | 20,822.1  | 23,791.3  | 24,882.9  | 24,843.9  |
| Communication   | 6,731.6                        | 6,720.7   | 6,828.7   | 6,777.2   | 6,732.5   | 6,787.2   | 6,978.0   |
| Recreation & Culture  | 17,165.9                       | 16,890.7  | 17,048.6  | 16,406.2  | 16,001.4  | 17,178.5  | 17,409.2  |
| Education   | 5,619.2                        | 5,982.0   | 6,239.7   | 6,133.7   | 6,241.5   | 6,277.3   | 6,473.9   |
| Food Serving Services   | 11,025.8                       | 11,444.0  | 11,804.0  | 11,827.9  | 12,156.5  | 12,244.5  | 12,420.5  |
| Accommodation Services  | 3,734.1                        | 3,906.7   | 4,032.1   | 4,034.3   | 4,196.2   | 4,381.5   | 4,619.3   |
| Miscellaneous Goods & Services                                      | 22,058.7                       | 24,225.1  | 24,903.2  | 25,774.9  | 26,827.3  | 28,368.0  | 29,924.9  |
| Add : Residents' Expenditure Abroad                                 | 22,257.2                       | 23,392.2  | 24,751.1  | 25,569.9  | 26,774.6  | 27,411.1  | 27,054.7  |
| Less : Non-residents' Expenditure<br>Locally                        | 24,172.4                       | 24,591.9  | 24,394.1  | 22,979.5  | 26,212.2  | 27,432.3  | 27,335.3  |

Notes: Disaggregated chain-linked data generally do not add up to the total.

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## 5.5 GROSS FIXED CAPITAL FORMATION

(At Current Prices)

Million Dollars

|                                | 2012     | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|--------------------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                | Total    |           |           |           |           |           |           |
| Total                          | 97,466.0 | 106,024.9 | 112,216.9 | 115,271.1 | 115,387.1 | 122,419.0 | 118,514.6 |
| Construction & Works           | 50,763.7 | 56,061.3  | 57,151.4  | 57,702.4  | 55,328.5  | 47,613.9  | 45,983.1  |
| Residential Buildings          | 24,727.8 | 28,707.8  | 28,615.2  | 27,766.5  | 23,625.3  | 19,810.9  | 18,010.2  |
| Non-residential Buildings      | 18,519.8 | 19,872.6  | 19,850.2  | 19,896.6  | 20,922.0  | 18,216.9  | 18,286.3  |
| Other Construction & Works     | 7,516.0  | 7,480.9   | 8,686.0   | 10,039.3  | 10,781.2  | 9,586.1   | 9,686.6   |
| Transport Equipment            | 9,109.8  | 7,605.5   | 7,142.0   | 8,894.7   | 11,029.9  | 15,535.3  | 15,030.2  |
| Machinery & Equipment          | 22,722.2 | 21,780.9  | 21,162.7  | 21,555.8  | 22,328.6  | 21,885.5  | 22,972.0  |
| Intellectual Property Products | 14,870.3 | 20,577.3  | 26,760.8  | 27,118.3  | 26,700.1  | 37,384.4  | 34,529.2  |
|                                | Public   |           |           |           |           |           |           |
| Total                          | 16,499.2 | 16,822.3  | 19,454.7  | 21,716.5  | 23,772.1  | 22,425.7  | 20,890.9  |
| Construction & Works           | 13,790.5 | 14,228.8  | 16,440.7  | 17,692.0  | 19,180.9  | 17,569.9  | 16,349.6  |
| Residential Buildings          | 4,198.7  | 4,932.5   | 5,544.5   | 5,777.4   | 4,890.7   | 3,744.3   | 3,716.3   |
| Non-residential Buildings      | 3,615.8  | 3,566.2   | 4,371.0   | 4,389.6   | 5,825.2   | 6,181.1   | 5,085.4   |
| Other Construction & Works     | 5,976.0  | 5,730.2   | 6,525.1   | 7,524.9   | 8,464.9   | 7,644.5   | 7,547.9   |
| Transport Equipment            | 88.5     | 114.4     | 299.8     | 454.7     | 1,015.4   | 1,209.1   | 380.3     |
| Machinery & Equipment          | 1,178.9  | 969.6     | 1,084.3   | 1,719.3   | 1,637.8   | 1,557.3   | 1,965.6   |
| Intellectual Property Products | 1,441.3  | 1,509.4   | 1,630.0   | 1,850.5   | 1,938.0   | 2,089.3   | 2,195.4   |
|                                | Private  |           |           |           |           |           |           |
| Total                          | 80,966.8 | 89,202.7  | 92,762.2  | 93,554.7  | 91,615.0  | 99,993.3  | 97,623.7  |
| Construction & Works           | 36,973.2 | 41,832.4  | 40,710.8  | 40,010.4  | 36,147.7  | 30,043.9  | 29,633.5  |
| Residential Buildings          | 20,529.1 | 23,775.3  | 23,070.7  | 21,989.1  | 18,734.6  | 16,066.6  | 14,293.9  |
| Non-residential Buildings      | 14,904.1 | 16,306.4  | 15,479.2  | 15,507.0  | 15,096.8  | 12,035.8  | 13,200.9  |
| Other Construction & Works     | 1,540.0  | 1,750.7   | 2,160.9   | 2,514.4   | 2,316.3   | 1,941.5   | 2,138.7   |
| Transport Equipment            | 9,021.3  | 7,491.1   | 6,842.2   | 8,440.0   | 10,014.4  | 14,326.2  | 14,650.0  |
| Machinery & Equipment          | 21,543.3 | 20,811.3  | 20,078.4  | 19,836.5  | 20,690.8  | 20,328.2  | 21,006.4  |
| Intellectual Property Products | 13,429.0 | 19,067.8  | 25,130.8  | 25,267.8  | 24,762.1  | 35,295.0  | 32,333.8  |

*(continued on the next page)*Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=16031](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=16031)

## 5.5 GROSS FIXED CAPITAL FORMATION (continued)

(In Chained (2015) Dollars)

Million Dollars

|                                | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|--------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                | Total     |           |           |           |           |           |           |
| Total                          | 102,183.8 | 108,477.2 | 113,055.2 | 115,271.1 | 116,538.3 | 123,955.0 | 119,020.5 |
| Construction & Works           | 54,447.6  | 57,471.0  | 56,988.1  | 57,702.4  | 56,887.1  | 50,238.3  | 47,878.2  |
| Residential Buildings          | 26,394.7  | 28,874.8  | 28,330.9  | 27,766.5  | 24,150.5  | 20,294.0  | 17,847.2  |
| Non-residential Buildings      | 19,904.9  | 20,715.2  | 19,905.8  | 19,896.6  | 21,620.2  | 19,595.3  | 19,660.4  |
| Other Construction & Works     | 8,128.1   | 7,848.4   | 8,736.2   | 10,039.3  | 11,116.4  | 10,359.1  | 10,457.6  |
| Transport Equipment            | 9,481.8   | 7,925.1   | 7,340.8   | 8,894.7   | 11,085.9  | 15,538.6  | 15,083.5  |
| Machinery & Equipment          | 22,074.4  | 21,928.6  | 21,611.5  | 21,555.8  | 22,577.7  | 22,242.3  | 23,670.6  |
| Intellectual Property Products | 15,940.6  | 21,117.8  | 27,092.0  | 27,118.3  | 25,987.6  | 35,440.1  | 32,039.7  |
|                                | Public    |           |           |           |           |           |           |
| Total                          | 17,535.6  | 17,650.5  | 19,607.9  | 21,716.5  | 24,464.9  | 24,204.4  | 22,603.6  |
| Construction & Works           | 14,716.9  | 14,982.7  | 16,547.1  | 17,692.0  | 19,920.4  | 19,391.3  | 18,110.5  |
| Residential Buildings          | 4,490.0   | 5,184.7   | 5,569.2   | 5,777.4   | 5,126.4   | 4,316.6   | 4,285.8   |
| Non-residential Buildings      | 3,853.2   | 3,757.9   | 4,404.1   | 4,389.6   | 6,041.0   | 6,732.7   | 5,569.4   |
| Other Construction & Works     | 6,371.1   | 6,039.3   | 6,573.3   | 7,524.9   | 8,753.0   | 8,335.4   | 8,263.6   |
| Transport Equipment            | 87.6      | 115.8     | 306.2     | 454.7     | 1,008.7   | 1,198.0   | 400.9     |
| Machinery & Equipment          | 1,182.9   | 1,006.8   | 1,096.1   | 1,719.3   | 1,644.0   | 1,606.2   | 2,037.2   |
| Intellectual Property Products | 1,539.8   | 1,546.4   | 1,654.8   | 1,850.5   | 1,891.8   | 1,992.8   | 2,053.7   |
|                                | Private   |           |           |           |           |           |           |
| Total                          | 84,629.7  | 90,791.0  | 93,446.4  | 93,554.7  | 92,073.5  | 99,708.0  | 96,327.5  |
| Construction & Works           | 39,656.3  | 42,412.6  | 40,428.7  | 40,010.4  | 36,966.7  | 30,874.5  | 29,768.5  |
| Residential Buildings          | 21,874.3  | 23,657.9  | 22,755.8  | 21,989.1  | 19,024.1  | 15,977.7  | 13,628.9  |
| Non-residential Buildings      | 16,038.5  | 16,946.0  | 15,501.8  | 15,507.0  | 15,579.3  | 12,868.7  | 14,075.4  |
| Other Construction & Works     | 1,751.8   | 1,811.7   | 2,163.1   | 2,514.4   | 2,363.4   | 2,026.1   | 2,190.0   |
| Transport Equipment            | 9,405.2   | 7,816.3   | 7,035.0   | 8,440.0   | 10,077.2  | 14,343.4  | 14,693.3  |
| Machinery & Equipment          | 20,900.9  | 20,925.6  | 20,522.4  | 19,836.5  | 20,933.7  | 20,636.3  | 21,638.6  |
| Intellectual Property Products | 14,398.7  | 19,570.4  | 25,436.6  | 25,267.8  | 24,095.8  | 33,445.4  | 29,986.0  |

Notes : Disaggregated chain-linked data generally do not add up to the total.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=16027](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=16027)

## 5.6 GROSS DOMESTIC PRODUCT DEFLATORS BY INDUSTRY

(2015 = 100)

| Industry                            | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| GDP at Market Prices                | 97.6  | 97.2  | 96.9  | 100.0 | 100.8 | 103.4 | 105.3 |
| Goods Producing Industries          | 92.5  | 88.8  | 91.4  | 100.0 | 97.3  | 98.9  | 105.7 |
| Manufacturing                       | 91.2  | 86.3  | 88.9  | 100.0 | 97.4  | 100.6 | 108.9 |
| Construction                        | 95.0  | 96.6  | 99.5  | 100.0 | 97.4  | 93.1  | 92.6  |
| Utilities                           | 98.4  | 93.7  | 95.2  | 100.0 | 94.7  | 91.8  | 95.0  |
| Other Goods Industries <sup>1</sup> | 94.6  | 98.6  | 99.4  | 100.0 | 98.9  | 100.1 | 101.6 |
| Services Producing Industries       | 99.8  | 99.5  | 98.4  | 100.0 | 103.0 | 106.4 | 107.8 |
| Wholesale & Retail Trade            | 117.0 | 111.7 | 101.8 | 100.0 | 112.9 | 120.6 | 121.5 |
| Transportation & Storage            | 85.0  | 86.1  | 92.5  | 100.0 | 90.7  | 97.7  | 97.2  |
| Accommodation & Food Services       | 94.8  | 95.8  | 99.0  | 100.0 | 102.1 | 101.6 | 102.8 |
| Information & Communications        | 99.4  | 99.9  | 99.7  | 100.0 | 103.5 | 104.3 | 104.1 |
| Finance & Insurance                 | 101.6 | 98.2  | 96.5  | 100.0 | 102.0 | 104.6 | 106.6 |
| Business Services                   | 95.3  | 98.0  | 99.4  | 100.0 | 100.1 | 99.9  | 101.6 |
| Other Services Industries           | 90.3  | 94.9  | 97.4  | 100.0 | 102.4 | 105.2 | 107.5 |
| Ownership of Dwellings              | 97.8  | 103.5 | 102.8 | 100.0 | 92.8  | 88.0  | 82.7  |
| Gross Value Added at Basic Prices   | 97.9  | 96.9  | 96.8  | 100.0 | 101.1 | 103.6 | 106.1 |
| Add : Taxes on Products             | 93.0  | 101.6 | 99.6  | 100.0 | 96.8  | 99.5  | 93.6  |

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

1 Comprises Agriculture, Fishing and Quarrying.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=16086](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=16086)

## 5.7 EXPENDITURE ON GROSS DOMESTIC PRODUCT DEFLATORS

(2015 = 100)

|                                 | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|
| GDP                             | 97.6  | 97.2  | 96.9  | 100.0 | 100.8 | 103.4 | 105.3 |
| Total Consumption Expenditure   | 96.9  | 98.6  | 99.5  | 100.0 | 99.6  | 100.6 | 101.4 |
| Private Consumption Expenditure | 97.9  | 99.5  | 100.2 | 100.0 | 99.0  | 99.6  | 100.0 |
| Government Consumption          | 92.7  | 95.2  | 97.0  | 100.0 | 101.6 | 104.3 | 106.4 |
| Gross Fixed Capital Formation   | 95.4  | 97.7  | 99.3  | 100.0 | 99.0  | 98.8  | 99.6  |
| Exports of Goods & Services     | 110.9 | 108.1 | 106.4 | 100.0 | 96.3  | 100.2 | 103.1 |
| Imports of Goods & Services     | 112.5 | 109.9 | 108.6 | 100.0 | 95.3  | 99.4  | 102.1 |

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=16023](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=16023)

## 5.8 INCOME COMPONENTS OF GROSS DOMESTIC PRODUCT

(At Current Prices)

Million Dollars

|  | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| GDP  | 368,770.5 | 384,870.3 | 398,947.9 | 423,444.1 | 439,411.6 | 467,305.5 | 491,174.5 |
| Compensation of Employees                    | 145,680.0 | 155,779.7 | 167,539.5 | 177,686.9 | 183,899.8 | 189,908.8 | 197,216.8 |
| Gross Operating Surplus                      | 196,270.3 | 199,586.5 | 201,053.2 | 214,469.0 | 222,756.2 | 243,240.7 | 264,136.3 |
| Taxes Less Subsidies on Production & Imports | 28,215.2  | 29,685.6  | 29,546.5  | 31,288.2  | 34,698.0  | 37,653.2  | 35,835.1  |
| Other Taxes Less Subsidies on Production     | 7,062.9   | 7,514.8   | 7,797.4   | 7,031.5   | 8,181.0   | 8,822.6   | 9,330.7   |
| Taxes on Products                            | 21,152.3  | 22,170.8  | 21,749.1  | 24,256.7  | 26,517.0  | 28,830.6  | 26,504.4  |
| Statistical Discrepancy                      | -1,395.0  | -181.5    | 808.7     | 0.0       | -1,942.4  | -3,497.2  | -6,013.7  |

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## 5.9 GROSS OPERATING SURPLUS BY INDUSTRY

(At Current Prices)

Million Dollars

|                                     | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|-------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total                               | 196,270.3 | 199,586.5 | 201,053.2 | 214,469.0 | 222,756.2 | 243,240.7 | 264,136.3 |
| Manufacturing                       | 47,120.3  | 43,110.6  | 45,635.6  | 50,641.8  | 51,721.6  | 61,416.7  | 76,728.1  |
| Construction                        | 5,349.0   | 5,014.7   | 4,861.5   | 5,041.0   | 4,555.8   | 3,565.2   | 3,640.2   |
| Utilities                           | 4,048.3   | 3,791.8   | 3,854.9   | 4,230.4   | 3,924.8   | 3,681.4   | 3,767.0   |
| Other Goods Industries <sup>1</sup> | 51.7      | 59.9      | 62.1      | 61.7      | 59.4      | 63.0      | 64.5      |
| Wholesale & Retail Trade            | 46,009.9  | 45,323.4  | 39,948.0  | 39,531.4  | 46,784.0  | 52,650.8  | 53,725.3  |
| Transportation & Storage            | 13,117.5  | 13,526.8  | 15,089.2  | 17,434.4  | 14,951.9  | 17,394.9  | 17,376.1  |
| Accommodation & Food Services       | 3,441.7   | 3,402.5   | 3,563.7   | 3,495.0   | 3,722.4   | 3,714.1   | 3,944.0   |
| Information & Communications        | 5,964.8   | 6,588.6   | 6,739.3   | 6,137.0   | 7,084.2   | 7,241.5   | 7,384.7   |
| Finance & Insurance                 | 18,097.4  | 22,254.5  | 23,174.8  | 26,533.8  | 27,961.6  | 30,816.5  | 33,720.4  |
| Business Services                   | 29,472.5  | 31,525.5  | 32,452.1  | 35,422.2  | 36,520.6  | 36,839.7  | 38,249.9  |
| Other Services Industries           | 8,609.8   | 8,607.3   | 8,853.0   | 8,827.7   | 8,842.1   | 9,369.3   | 9,320.2   |
| Ownership of Dwellings              | 14,987.4  | 16,380.9  | 16,819.0  | 17,112.6  | 16,627.8  | 16,487.6  | 16,215.9  |

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

1 Comprises Agriculture, Fishing and Quarrying.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12391](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12391)

## 5.10 COMPENSATION OF EMPLOYEES BY INDUSTRY

(At Current Prices)

Million Dollars

|                                     | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|-------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total                               | 145,680.0 | 155,779.7 | 167,539.5 | 177,686.9 | 183,899.8 | 189,908.8 | 197,216.8 |
| Manufacturing                       | 22,034.6  | 23,020.4  | 24,427.4  | 24,856.6  | 24,538.5  | 24,648.8  | 25,292.7  |
| Construction                        | 9,565.3   | 10,745.2  | 11,809.3  | 12,535.7  | 12,915.3  | 12,232.8  | 11,890.1  |
| Utilities                           | 1,119.8   | 1,270.1   | 1,373.6   | 1,479.4   | 1,504.3   | 1,552.4   | 1,598.5   |
| Other Goods Industries <sup>1</sup> | 62.5      | 61.1      | 63.8      | 66.3      | 68.1      | 70.3      | 73.0      |
| Wholesale & Retail Trade            | 22,010.4  | 22,932.5  | 24,228.5  | 25,788.7  | 26,828.6  | 27,442.2  | 28,573.7  |
| Transportation & Storage            | 9,961.9   | 10,574.8  | 11,506.0  | 12,214.3  | 12,760.3  | 13,167.7  | 13,745.0  |
| Accommodation & Food Services       | 4,217.6   | 4,526.9   | 4,821.7   | 5,044.6   | 5,257.8   | 5,324.2   | 5,398.9   |
| Information & Communications        | 7,666.8   | 8,102.1   | 8,984.2   | 9,560.0   | 10,187.4  | 10,785.7  | 11,583.1  |
| Finance & Insurance                 | 19,274.1  | 20,460.2  | 22,408.9  | 23,412.8  | 23,450.2  | 25,337.3  | 26,718.3  |
| Business Services                   | 21,632.9  | 23,390.1  | 24,959.5  | 27,123.3  | 28,328.6  | 29,108.7  | 30,374.8  |
| Other Services Industries           | 28,134.1  | 30,696.3  | 32,956.6  | 35,605.2  | 38,060.7  | 40,238.7  | 41,968.7  |

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

<sup>1</sup> Comprises Agriculture, Fishing and Quarrying.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12389](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12389)

## 5.11 OTHER TAXES LESS SUBSIDIES ON PRODUCTION BY INDUSTRY

(At Current Prices)

Million Dollars

|                                     | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
|-------------------------------------|---------|---------|---------|---------|---------|---------|---------|
| Total                               | 7,062.9 | 7,514.8 | 7,797.4 | 7,031.5 | 8,181.0 | 8,822.6 | 9,330.7 |
| Manufacturing                       | 901.9   | 986.8   | 1,070.2 | 898.1   | 990.6   | 1,077.7 | 1,149.7 |
| Construction                        | 1,051.5 | 1,500.1 | 1,866.8 | 2,026.9 | 2,186.9 | 2,129.5 | 1,993.5 |
| Utilities                           | 174.2   | 205.1   | 188.6   | 208.9   | 213.5   | 206.1   | 210.1   |
| Other Goods Industries <sup>1</sup> | 9.4     | 11.2    | 11.3    | 10.2    | 11.6    | 12.5    | 12.6    |
| Wholesale & Retail Trade            | 441.3   | 331.0   | 279.4   | 72.7    | 281.2   | 431.0   | 541.1   |
| Transportation & Storage            | 701.7   | 607.1   | 567.8   | 404.7   | 569.2   | 694.3   | 743.7   |
| Accommodation & Food Services       | 325.9   | 316.3   | 248.0   | 209.2   | 331.5   | 387.3   | 422.4   |
| Information & Communications        | 229.4   | 199.1   | 212.7   | 176.4   | 200.0   | 233.9   | 275.1   |
| Finance & Insurance                 | 148.9   | 126.5   | 124.2   | 30.4    | 62.4    | 105.7   | 175.1   |
| Business Services                   | 1,384.9 | 1,510.0 | 1,593.7 | 1,603.9 | 1,713.9 | 1,875.8 | 2,019.8 |
| Other Services Industries           | 931.9   | 851.5   | 656.5   | 402.8   | 658.6   | 720.1   | 831.1   |
| Ownership of Dwellings              | 761.9   | 870.1   | 978.2   | 987.5   | 961.6   | 948.7   | 956.5   |

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

1 Comprises Agriculture, Fishing and Quarrying.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12393](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12393)

6



# International Accounts



# 6

## 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 used to assess the external performance of an economy and to formulate policies associated with it.

Transactions recorded in the balance of payments fall under three broad categories:



- Current Account:** Consists of transactions relating to Singapore's current national income and expenditure. These include exports and imports of goods and services, primary income receipts and payments, as well as net secondary income (current transfers).
- Capital and Financial Account:** Covers transactions affecting the foreign financial assets and liabilities of 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 and 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, 2018

(Million Dollars)

|  |                 |
|--|-----------------|
| <b>Overall Balance</b>   | <b>16,924.5</b> |
|  <b>Current Account Balance</b>               | <b>87,772.0</b> |
|  <b>Capital and Financial Account Balance</b> | <b>66,696.7</b> |
| <b>Reserve Assets</b>  | <b>16,924.5</b> |

### Sources of Data



The balance of payments estimates are compiled mainly from trade and shipping 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.

**Current Account Balance:** Refers to the balance of transactions in goods, services,

## International Accounts ■



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, or the net worth of an economy, is the difference between its external financial assets and its liabilities, plus the value of non-financial assets.

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 this relationship, both the IIP and financial account of the balance of payments use 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, are described in the occasional paper "[Implementation of IMF Balance of Payments and International Investment Position Manual, Sixth Edition in Singapore's balance of payments](#)" and the information papers "[Singapore's International Accounts: Methodological Updates and Recent Developments](#)" and "[Methodological Improvements to the Current Account of Singapore's Balance of Payments](#)".

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 |           |           |           |           |           |           |
|------------------------------------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                    | 2012            | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
| <b>A Current Account Balance</b>   | 65,063.2        | 60,452.3  | 71,612.0  | 72,897.4  | 76,896.7  | 76,510.1  | 87,772.0  |
| Goods Balance                      | 93,667.2        | 98,574.6  | 109,846.8 | 127,267.9 | 120,395.9 | 127,732.6 | 132,688.8 |
| Exports of Goods                   | 563,674.7       | 573,077.2 | 570,951.4 | 544,736.4 | 513,108.8 | 564,163.1 | 620,116.5 |
| Imports of Goods                   | 470,007.5       | 474,502.6 | 461,104.6 | 417,468.5 | 392,712.9 | 436,430.5 | 487,427.7 |
| Services Balance                   | -4,327.9        | -9,616.4  | -16,334.4 | -11,676.9 | -3,370.0  | -10,863.9 | -2,219.5  |
| Exports of Services                | 161,769.2       | 177,719.3 | 194,843.2 | 210,622.7 | 214,361.0 | 236,896.1 | 246,210.7 |
| Manufacturing Services On Physical |                 |           |           |           |           |           |           |
| Inputs Owned By Others             | 249.6           | 283.2     | 424.4     | 346.5     | 284.8     | 243.2     | 260.2     |
| Maintenance & Repair Services      | 9,053.1         | 10,767.2  | 9,853.1   | 9,315.2   | 8,742.4   | 8,493.1   | 9,176.9   |
| Transport                          | 55,586.3        | 57,830.9  | 63,918.8  | 64,097.1  | 57,313.2  | 66,895.1  | 69,865.9  |
| Freight                            | 42,864.3        | 45,929.4  | 50,917.2  | 50,798.1  | 43,741.7  | 50,646.5  | 52,161.6  |
| Others                             | 12,722.0        | 11,901.5  | 13,001.6  | 13,299.0  | 13,571.5  | 16,248.6  | 17,704.3  |
| Travel                             | 23,487.3        | 24,063.3  | 24,277.4  | 22,845.5  | 26,171.6  | 27,467.9  | 27,537.5  |
| Insurance                          | 3,396.6         | 3,634.5   | 4,241.5   | 5,312.7   | 6,114.7   | 6,456.8   | 7,195.8   |
| Government Goods & Services        | 382.8           | 391.5     | 395.3     | 397.0     | 405.0     | 408.7     | 412.0     |
| Construction                       | 1,922.3         | 2,135.6   | 1,474.4   | 1,172.2   | 1,363.2   | 1,058.3   | 1,015.7   |
| Financial                          | 20,694.6        | 23,611.1  | 26,664.5  | 28,879.7  | 30,105.6  | 34,396.1  | 36,579.7  |
| Telecommunications,                |                 |           |           |           |           |           |           |
| Computer & Information             | 8,403.2         | 9,552.3   | 10,094.6  | 12,199.0  | 16,154.5  | 17,603.6  | 17,804.7  |
| Charges for the Use of             |                 |           |           |           |           |           |           |
| Intellectual Property              | 3,514.6         | 4,272.5   | 4,953.5   | 11,894.1  | 10,074.3  | 11,086.5  | 11,759.9  |
| Personal, Cultural & Recreational  | 598.6           | 636.5     | 801.4     | 852.8     | 837.3     | 708.9     | 710.4     |
| Other Business Services            | 34,480.2        | 40,540.7  | 47,744.3  | 53,310.9  | 56,794.4  | 62,077.9  | 63,892.0  |
| Accounting                         | 407.3           | 400.3     | 332.2     | 307.3     | 332.9     | 323.9     | 340.2     |
| Advertising And Market Research    | 2,859.9         | 4,770.1   | 7,954.3   | 10,231.9  | 14,016.3  | 18,827.6  | 19,441.7  |
| Architectural                      | 354.1           | 312.5     | 389.6     | 382.0     | 442.0     | 389.6     | 398.4     |
| Business Management                | 16,451.4        | 20,139.2  | 21,122.2  | 23,455.8  | 23,971.8  | 24,679.9  | 25,248.9  |
| Engineering And Technical          | 4,195.5         | 5,059.4   | 6,021.0   | 5,183.1   | 4,974.0   | 3,970.1   | 4,102.8   |
| Legal                              | 600.1           | 643.4     | 676.8     | 766.8     | 870.8     | 977.5     | 1,079.6   |
| Research And Development           | 749.9           | 1,148.6   | 914.6     | 1,054.5   | 944.4     | 1,059.9   | 1,305.9   |
| Operating Leasing                  | 3,117.9         | 3,738.2   | 4,902.5   | 5,883.3   | 5,686.9   | 5,479.7   | 5,506.9   |
| Trade-Related                      | 5,489.9         | 3,928.1   | 4,899.9   | 5,469.1   | 4,890.2   | 5,543.4   | 5,624.2   |
| Others                             | 254.2           | 400.9     | 531.2     | 577.1     | 665.1     | 826.3     | 843.4     |
| Imports of Services                | 166,097.1       | 187,335.7 | 211,177.6 | 222,299.6 | 217,731.0 | 247,760.0 | 248,430.2 |
| Manufacturing Services On Physical |                 |           |           |           |           |           |           |
| Inputs Owned By Others             | 5,349.2         | 6,500.5   | 7,846.8   | 8,341.2   | 7,730.1   | 8,162.0   | 8,735.4   |
| Maintenance & Repair Services      | 837.0           | 845.2     | 880.7     | 929.3     | 950.0     | 917.7     | 923.5     |
| Transport                          | 44,508.4        | 49,280.7  | 57,822.3  | 65,611.6  | 60,334.4  | 72,784.8  | 73,266.5  |
| Freight                            | 26,273.1        | 29,938.6  | 36,584.5  | 43,581.5  | 38,343.2  | 49,017.7  | 48,210.1  |
| Others                             | 18,235.3        | 19,342.1  | 21,237.8  | 22,030.1  | 21,991.2  | 23,767.1  | 25,056.4  |
| Travel                             | 28,915.8        | 30,540.3  | 32,368.7  | 32,524.9  | 33,097.7  | 33,954.7  | 34,188.0  |
| Insurance                          | 3,498.3         | 4,257.3   | 3,609.4   | 4,376.7   | 6,057.2   | 5,522.6   | 6,057.2   |
| Government Goods & Services        | 256.8           | 287.0     | 295.1     | 274.7     | 310.5     | 293.4     | 306.5     |
| Construction                       | 648.8           | 679.8     | 497.6     | 466.9     | 514.1     | 509.0     | 565.8     |
| Financial                          | 4,034.2         | 4,647.2   | 5,502.0   | 6,194.0   | 6,374.2   | 7,752.6   | 8,831.5   |
| Telecommunications,                |                 |           |           |           |           |           |           |
| Computer & Information             | 9,515.9         | 11,792.6  | 20,311.2  | 14,932.2  | 17,883.2  | 20,393.0  | 20,634.5  |
| Charges for the Use of             |                 |           |           |           |           |           |           |
| Intellectual Property              | 28,874.5        | 28,769.9  | 26,452.9  | 26,672.0  | 21,458.9  | 20,609.8  | 20,473.2  |
| Personal, Cultural & Recreational  | 557.9           | 584.1     | 625.3     | 685.2     | 540.5     | 583.2     | 615.0     |
| Other Business Services            | 39,100.3        | 49,151.1  | 54,965.6  | 61,290.9  | 62,480.2  | 76,277.2  | 73,833.1  |
| Accounting                         | 270.8           | 260.1     | 290.8     | 331.0     | 395.4     | 763.8     | 784.6     |
| Advertising And Market Research    | 3,057.0         | 3,101.4   | 3,418.6   | 3,808.8   | 4,268.1   | 4,666.1   | 4,717.9   |
| Architectural                      | 84.6            | 78.8      | 56.9      | 46.9      | 85.2      | 43.6      | 45.0      |
| Business Management                | 14,672.4        | 15,750.8  | 17,318.3  | 18,749.9  | 19,300.6  | 20,741.9  | 21,351.9  |
| Engineering And Technical          | 2,340.1         | 2,755.6   | 3,336.6   | 3,286.9   | 3,377.7   | 3,718.4   | 3,870.6   |
| Legal                              | 663.9           | 262.6     | 298.7     | 315.4     | 336.9     | 361.7     | 373.0     |
| Research And Development           | 5,949.2         | 11,677.6  | 10,651.6  | 17,126.5  | 15,359.5  | 24,878.5  | 21,071.1  |
| Operating Leasing                  | 3,109.3         | 4,437.6   | 7,581.7   | 5,177.4   | 5,000.3   | 6,068.2   | 6,095.5   |
| Trade-Related                      | 8,792.7         | 10,573.2  | 11,747.5  | 12,097.0  | 13,940.5  | 14,658.0  | 15,138.4  |
| Others                             | 160.3           | 253.4     | 264.9     | 351.1     | 416.0     | 377.0     | 385.1     |

(continued on the next page)

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

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## 6.1 BALANCE OF PAYMENTS (continued)

|   | Million Dollars |           |           |           |           |           |           |
|---|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
|   | 2012            | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
| <b>A Current Account Balance (continued)</b>                | 65,063.2        | 60,452.3  | 71,612.0  | 72,897.4  | 76,896.7  | 76,510.1  | 87,772.0  |
| Primary Income Balance                                      | -16,398.4       | -20,729.9 | -13,877.9 | -28,892.8 | -30,591.3 | -32,500.0 | -33,191.7 |
| Primary Income Receipts                                     | 81,023.2        | 84,661.7  | 90,129.7  | 98,544.7  | 106,168.5 | 126,252.6 | 141,214.4 |
| Primary Income Payments                                     | 97,421.6        | 105,391.6 | 104,007.6 | 127,437.5 | 136,759.8 | 158,752.6 | 174,406.1 |
| Secondary Income Balance                                    | -7,877.7        | -7,776.0  | -8,022.5  | -13,800.8 | -9,537.9  | -7,858.6  | -9,505.6  |
| Secondary Income Receipts                                   | 10,632.8        | 12,548.7  | 12,431.1  | 14,934.1  | 14,791.4  | 13,688.5  | 13,585.3  |
| Secondary Income Payments                                   | 18,510.5        | 20,324.7  | 20,453.6  | 28,734.9  | 24,329.3  | 21,547.1  | 23,090.9  |
| <b>B Capital and Financial Account Balance <sup>1</sup></b> | 30,405.9        | 40,184.5  | 59,919.4  | 70,857.7  | 78,121.4  | 35,891.5  | 66,696.7  |
| Financial Account (Net)                                     | 30,405.9        | 40,184.5  | 59,919.4  | 70,857.7  | 78,121.4  | 35,891.5  | 66,696.7  |
| Direct Investment   | -43,526.7       | -23,913.2 | -20,552.8 | -33,753.8 | -46,655.8 | -70,586.2 | -61,654.0 |
| Assets  | 25,593.9        | 56,657.4  | 66,491.6  | 62,174.0  | 54,960.6  | 60,340.9  | 49,004.4  |
| Liabilities   | 69,120.6        | 80,570.6  | 87,044.4  | 95,927.8  | 101,616.4 | 130,927.1 | 110,658.4 |
| Portfolio Investment  | 98,586.5        | 80,128.2  | 58,961.1  | 84,760.1  | 26,748.9  | 46,297.2  | 32,224.3  |
| Assets  | 104,138.5       | 77,737.7  | 62,383.9  | 76,187.0  | 32,399.0  | 66,163.7  | 27,752.3  |
| Deposit-Taking Corporations, except the Central Bank        | 38,125.7        | 21,614.5  | 21,227.4  | 2,389.6   | -14,309.5 | 22,612.5  | -14,981.9 |
| Official  | 13,929.9        | 15,413.5  | 20,108.5  | 25,023.9  | 26,237.3  | 33,943.9  | 38,875.3  |
| Others  | 52,082.9        | 40,709.7  | 21,048.0  | 48,773.5  | 20,471.2  | 9,607.3   | 3,858.9   |
| Liabilities   | 5,552.0         | -2,390.5  | 3,422.8   | -8,573.1  | 5,650.1   | 19,866.5  | -4,472.0  |
| Deposit-Taking Corporations, except the Central Bank        | -4,814.6        | 6,704.6   | 11,447.5  | -5,462.5  | 14,047.6  | 10,695.0  | 318.6     |
| Others  | 10,366.6        | -9,095.1  | -8,024.7  | -3,110.6  | -8,397.5  | 9,171.5   | -4,790.6  |
| Financial Derivatives                                       | -21,753.3       | -16,409.3 | -3,616.3  | -7,582.7  | 19,137.9  | 11,325.0  | 22,501.8  |
| Assets  | -50,331.4       | -13,204.0 | 5,156.4   | -11,227.7 | 9,795.4   | -7,274.2  | -3,565.5  |
| Liabilities   | -28,578.1       | 3,205.3   | 8,772.7   | -3,645.0  | -9,342.5  | -18,599.2 | -26,067.3 |
| Other Investment  | -2,900.6        | 378.8     | 25,127.4  | 27,434.1  | 78,890.4  | 48,855.5  | 73,624.6  |
| Assets  | 21,724.3        | 122,472.6 | 93,189.1  | 36,082.1  | 138,253.4 | 96,402.4  | 146,940.1 |
| Deposit-Taking Corporations, except the Central Bank        | -16,433.3       | 80,780.8  | 50,392.5  | 22,100.2  | 33,901.8  | 19,182.7  | 81,495.3  |
| Official  | 19,290.5        | 37,030.3  | 22,029.4  | 14,679.3  | 59,684.0  | 68,528.2  | 60,289.3  |
| Others  | 18,867.1        | 4,661.5   | 20,767.2  | -697.4    | 44,667.6  | 8,691.5   | 5,155.5   |
| Liabilities   | 24,624.9        | 122,093.8 | 68,061.7  | 8,648.0   | 59,363.0  | 47,546.9  | 73,315.5  |
| Deposit-Taking Corporations, except the Central Bank        | 7,198.3         | 108,742.1 | 52,241.7  | -1,340.2  | 13,786.0  | 33,194.8  | 68,037.3  |
| Others  | 17,426.6        | 13,351.7  | 15,820.0  | 9,988.2   | 45,577.0  | 14,352.1  | 5,278.2   |
| <b>C Net Errors and Omissions</b>                           | -2,051.4        | 2,463.1   | -3,074.8  | -539.0    | -1,230.6  | -2,777.4  | -4,150.8  |
| <b>D Overall Balance (A-B+C)</b>                            | 32,605.9        | 22,730.9  | 8,617.8   | 1,500.7   | -2,455.3  | 37,841.2  | 16,924.5  |
| <b>E Reserves Assets</b>                                    | 32,605.9        | 22,730.9  | 8,617.8   | 1,500.7   | -2,455.3  | 37,841.2  | 16,924.5  |
| Special Drawing Rights                                      | -91.8           | 56.6      | -19.8     | 39.8      | -271.2    | -23.1     | 11.0      |
| Reserve Position in the IMF                                 | 35.1            | 181.0     | -212.6    | -231.6    | 589.1     | -358.5    | 363.8     |
| Foreign Exchanges Assets                                    | 32,662.6        | 22,493.3  | 8,850.2   | 1,692.5   | -2,773.2  | 38,222.8  | 16,549.7  |

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.

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## 6.2 SINGAPORE INTERNATIONAL INVESTMENT POSITION

(End of Period)

|                                       | Million Dollars |             |             |             |             |             |             |
|---------------------------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                       | 2012            | 2013        | 2014        | 2015        | 2016        | 2017        | 2018        |
| Net International Investment Position | 716,030.6       | 767,047.1   | 781,174.7   | 914,909.5   | 1,042,840.1 | 1,081,918.5 | 1,108,209.7 |
| External Assets                       | 3,363,523.0     | 3,706,455.6 | 4,042,111.6 | 4,354,513.3 | 4,628,151.9 | 4,980,435.2 | 5,236,251.8 |
| Direct Investment                     | 701,038.3       | 787,907.2   | 899,906.6   | 1,046,666.9 | 1,150,027.8 | 1,287,607.0 | 1,394,966.4 |
| Equity And Investment Fund Shares     | 497,846.5       | 554,805.8   | 659,619.8   | 752,986.1   | 853,054.5   | 901,396.2   | 980,273.5   |
| Debt Instruments                      | 203,191.8       | 233,101.4   | 240,286.8   | 293,680.8   | 296,973.3   | 386,210.8   | 414,692.9   |
| Portfolio Investment                  | 981,244.5       | 1,154,112.1 | 1,264,242.9 | 1,368,941.2 | 1,481,005.1 | 1,675,600.1 | 1,665,664.0 |
| Equity And Investment Fund Shares     | 521,340.3       | 592,231.9   | 636,568.8   | 692,311.0   | 743,778.9   | 853,280.1   | 822,316.2   |
| Debt Securities                       | 459,904.2       | 561,880.2   | 627,674.1   | 676,630.2   | 737,226.2   | 822,320.0   | 843,347.8   |
| Financial Derivatives                 | 113,431.8       | 110,404.2   | 147,167.9   | 134,603.2   | 131,518.5   | 112,137.9   | 122,306.7   |
| Other Investment                      | 1,251,064.2     | 1,309,302.9 | 1,390,356.1 | 1,453,311.2 | 1,509,346.6 | 1,531,096.2 | 1,661,218.9 |
| Trade Credits And Advances            | 173,974.4       | 176,719.8   | 185,538.9   | 177,250.2   | 186,683.9   | 188,714.2   | 205,189.1   |
| Loans                                 | 291,168.3       | 342,060.5   | 397,430.3   | 415,744.7   | 407,606.7   | 465,203.3   | 500,137.5   |
| Currency And Deposits                 | 652,101.9       | 679,060.0   | 668,372.3   | 703,111.7   | 758,020.1   | 749,073.0   | 791,697.7   |
| Insurance Technical Reserves          | 12,936.1        | 10,672.7    | 14,977.3    | 16,292.9    | 19,492.8    | 20,408.2    | 24,203.9    |
| Other Accounts Receivable             | 120,883.5       | 100,789.9   | 124,037.3   | 140,911.7   | 137,543.1   | 107,697.5   | 139,990.7   |
| Reserve Assets <sup>1</sup>           | 316,744.2       | 344,729.2   | 340,438.1   | 350,990.8   | 356,253.9   | 373,994.0   | 392,095.8   |
| Special Drawing Rights                | 1,641.1         | 1,697.7     | 1,677.9     | 1,717.7     | 1,446.4     | 1,423.3     | 1,434.2     |
| Reserve Position In The IMF           | 1,115.8         | 1,296.7     | 1,084.1     | 852.6       | 1,441.7     | 1,083.3     | 1,447.1     |
| Foreign Exchange Assets               | 313,987.3       | 341,734.8   | 337,676.1   | 348,420.5   | 353,365.8   | 371,487.4   | 389,214.5   |
| External Liabilities                  | 2,647,492.4     | 2,939,408.5 | 3,260,936.9 | 3,439,603.8 | 3,585,311.8 | 3,898,516.7 | 4,128,042.1 |
| Direct Investment                     | 1,014,603.8     | 1,135,746.1 | 1,358,654.1 | 1,543,357.5 | 1,610,598.6 | 1,863,725.7 | 2,022,650.4 |
| Equity And Investment Fund Shares     | 844,676.9       | 952,899.5   | 1,129,391.8 | 1,290,573.3 | 1,342,311.6 | 1,568,652.7 | 1,737,105.2 |
| Debt Instruments                      | 169,926.9       | 182,846.6   | 229,262.3   | 252,784.2   | 268,287.0   | 295,073.0   | 285,545.2   |
| Portfolio Investment                  | 201,986.9       | 248,067.2   | 274,827.5   | 248,072.9   | 275,153.7   | 327,828.9   | 298,545.5   |
| Equity And Investment Fund Shares     | 174,705.4       | 207,951.9   | 228,760.3   | 203,933.6   | 210,669.0   | 255,710.9   | 222,358.4   |
| Debt Securities                       | 27,281.5        | 40,115.3    | 46,067.2    | 44,139.3    | 64,484.7    | 72,118.0    | 76,187.1    |
| Financial Derivatives                 | 103,442.4       | 100,445.8   | 123,238.5   | 127,941.0   | 126,407.4   | 110,004.8   | 122,586.2   |
| Other Investment                      | 1,327,459.3     | 1,455,149.4 | 1,504,216.8 | 1,520,232.4 | 1,573,152.1 | 1,596,957.3 | 1,684,260.0 |
| Trade Credits And Advances            | 150,352.1       | 151,598.2   | 143,958.2   | 143,898.2   | 163,230.6   | 174,274.4   | 184,393.7   |
| Loans                                 | 93,513.7        | 109,781.2   | 115,500.7   | 127,556.1   | 149,025.0   | 132,741.1   | 134,469.2   |
| Currency And Deposits                 | 991,308.1       | 1,099,725.5 | 1,138,588.3 | 1,121,692.9 | 1,128,672.9 | 1,177,518.8 | 1,224,919.0 |
| Insurance Technical Reserves          | 13,871.9        | 12,982.6    | 14,042.7    | 14,763.2    | 15,597.4    | 15,005.8    | 22,574.4    |
| Special Drawing Rights Allocation     | 1,399.4         | 1,446.8     | 1,428.8     | 1,462.2     | 1,445.8     | 1,417.3     | 1,416.5     |
| Other Accounts Payable                | 77,014.1        | 79,615.1    | 90,698.1    | 110,859.8   | 115,180.4   | 95,999.9    | 116,487.2   |

1 Assets held by the Monetary Authority of Singapore.

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## 6.3 EXTERNAL DEBT

(End of Period)

Million Dollars

|                                       | 2012        | 2013        | 2014        | 2015        | 2016        | 2017        | 2018        |
|---------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Gross External Debt                   | 1,524,667.9 | 1,678,111.3 | 1,779,546.3 | 1,817,155.6 | 1,905,923.8 | 1,964,148.0 | 2,045,992.3 |
| Direct Investment: Intercompany Loans | 169,926.9   | 182,846.5   | 229,262.3   | 252,784.2   | 268,287.0   | 295,073.0   | 285,545.3   |
| Debt Liabilities Of DIE <sup>1</sup>  |             |             |             |             |             |             |             |
| To Direct Investors                   | 104,237.6   | 104,687.2   | 128,997.1   | 140,049.8   | 170,700.3   | 198,871.0   | 186,655.9   |
| Debt Liabilities Of Direct Investors  |             |             |             |             |             |             |             |
| To DIE <sup>1</sup>                   | 13,606.6    | 20,094.0    | 21,440.1    | 26,879.4    | 30,590.7    | 36,198.0    | 37,243.2    |
| Debt Liabilities Between              |             |             |             |             |             |             |             |
| Fellow Enterprises                    | 52,082.7    | 58,065.3    | 78,825.1    | 85,855.0    | 66,996.0    | 60,004.0    | 61,646.2    |
| Other Liabilities                     | 1,354,741.0 | 1,495,264.8 | 1,550,284.0 | 1,564,371.4 | 1,637,636.8 | 1,669,075.0 | 1,760,447.0 |
| General Government                    | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| Central Bank                          | 1,399.4     | 1,446.8     | 1,428.8     | 1,462.2     | 1,445.8     | 1,417.3     | 1,416.5     |
| 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 <sup>2</sup>    | ..          | ..          | ..          | ..          | ..          | ..          | ..          |
| Others                                | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| Long-term                             | 1,399.4     | 1,446.8     | 1,428.8     | 1,462.2     | 1,445.8     | 1,417.3     | 1,416.5     |
| Special Drawing Rights                |             |             |             |             |             |             |             |
| (Allocations)                         | 1,399.4     | 1,446.8     | 1,428.8     | 1,462.2     | 1,445.8     | 1,417.3     | 1,416.5     |
| 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           | 1,070,379.4 | 1,188,696.9 | 1,242,602.5 | 1,239,125.3 | 1,253,913.5 | 1,292,363.4 | 1,361,181.8 |
| Short-term                            | 998,801.0   | 1,113,891.9 | 1,155,988.0 | 1,133,983.4 | 1,146,492.7 | 1,204,137.0 | 1,252,335.1 |
| Loans                                 | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| Debt Securities                       | 3,591.3     | 10,238.5    | 13,474.6    | 7,522.5     | 12,018.3    | 20,394.7    | 21,418.9    |
| Currency And Deposits                 | 990,715.3   | 1,099,077.2 | 1,137,726.2 | 1,120,889.7 | 1,127,737.6 | 1,176,332.4 | 1,223,681.8 |
| Others                                | 4,494.4     | 4,576.2     | 4,787.2     | 5,571.2     | 6,736.8     | 7,409.9     | 7,234.4     |
| Long-term                             | 71,578.4    | 74,805.0    | 86,614.5    | 105,141.9   | 107,420.8   | 88,226.4    | 108,846.7   |
| Loans                                 | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| Debt Securities                       | 1,020.0     | 2,178.3     | 2,232.7     | 2,314.8     | 1,483.2     | 870.6       | 846.8       |
| Others                                | 70,558.4    | 72,626.7    | 84,381.8    | 102,827.1   | 105,937.6   | 87,355.8    | 107,999.9   |

(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.

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## 6.3 EXTERNAL DEBT *(continued)*

(End of Period)

Million Dollars

|                                 | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|---------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Gross External Debt (continued) |           |           |           |           |           |           |           |
| Other Liabilities (continued)   |           |           |           |           |           |           |           |
| Other Sector                    | 282,962.2 | 305,121.1 | 306,252.7 | 323,783.9 | 382,277.5 | 375,294.3 | 397,848.7 |
| Short-term                      | 205,298.1 | 219,659.1 | 216,139.2 | 234,003.8 | 267,686.9 | 267,113.1 | 278,576.4 |
| Trade Credits And Advances      | 150,352.1 | 151,598.2 | 143,958.2 | 143,898.2 | 163,230.6 | 174,274.4 | 184,393.7 |
| Loans                           | 52,692.8  | 65,067.7  | 69,273.6  | 87,503.1  | 101,786.4 | 90,504.9  | 91,965.8  |
| Debt Securities                 | 846.7     | 1,052.6   | 864.8     | 760.7     | 680.1     | 645.6     | 505.0     |
| Others                          | 1,406.5   | 1,940.6   | 2,042.6   | 1,841.8   | 1,989.8   | 1,688.2   | 1,711.9   |
| Long-term                       | 77,664.1  | 85,462.0  | 90,113.5  | 89,780.1  | 114,590.6 | 108,181.2 | 119,272.3 |
| Loans                           | 40,820.9  | 44,713.6  | 46,227.1  | 40,052.9  | 47,238.6  | 42,236.2  | 42,503.3  |
| Debt Securities                 | 21,823.6  | 26,645.9  | 29,495.1  | 33,541.2  | 50,303.1  | 50,207.0  | 53,416.5  |
| Others                          | 15,019.6  | 14,102.5  | 14,391.3  | 16,186.0  | 17,048.9  | 15,738.0  | 23,352.5  |

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".

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7



# Investment



# 7

# Investment



## Direct Investment

Data on foreign direct investment are sourced from financial accounts which companies file with the Accounting and Corporate Regulatory Authority (ACRA) and other government agencies, as well as the Survey of Foreign Debt and Financial Derivative Transactions and Survey of Singapore's Investment Abroad.



## Definitions

**Foreign Direct Investment (FDI):** Refers to an investment in which a direct investor owns 10 per cent or more of the ordinary shares or voting power in an enterprise in another country.

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

**Foreign Direct Equity Investment (FDEI):** Refers to equity capital in the direct investment enterprise attributable to its 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. For 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 the direct investors less distributed earnings, proportionate to the percentage of shares held by the direct investors.

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

## Investment Commitments

Investment commitments refer to investment projects in terms of fixed assets which companies commit to invest in Singapore. Projects are only recorded as commitments if the company has made a firm undertaking to implement the project.

## Other References

Annual statistics on direct investment are available in the reports "[Foreign Direct Investment in Singapore](#)" and "[Singapore's Direct Investment Abroad](#)" published by the Singapore Department of Statistics.

## 7.1 STOCK OF FOREIGN DIRECT INVESTMENT IN SINGAPORE BY INDUSTRY

(End of Period)

Million Dollars

| Industry                              | 2011      | 2012      | 2013      | 2014        | 2015        | 2016        | 2017        |
|---------------------------------------|-----------|-----------|-----------|-------------|-------------|-------------|-------------|
| Total                                 | 702,495.2 | 808,461.3 | 905,760.4 | 1,112,348.1 | 1,267,981.0 | 1,354,820.8 | 1,567,974.0 |
| Manufacturing                         | 140,037.6 | 127,709.5 | 159,819.5 | 156,995.7   | 166,793.2   | 170,148.0   | 181,581.9   |
| Construction                          | 2,516.1   | 2,570.3   | 3,448.3   | 3,944.5     | 3,541.0     | 4,424.7     | 5,297.9     |
| Wholesale & Retail Trade              | 125,001.9 | 166,702.4 | 189,014.9 | 240,617.4   | 286,022.1   | 296,385.2   | 289,754.2   |
| Accommodation & Food                  |           |           |           |             |             |             |             |
| Service Activities                    | 4,610.5   | 4,906.7   | 4,049.7   | 5,313.6     | 6,365.9     | 6,513.8     | 6,708.8     |
| Transport & Storage                   | 30,287.8  | 34,699.5  | 33,137.5  | 38,409.3    | 40,505.0    | 28,866.3    | 31,322.1    |
| Information & Communications          | 7,011.4   | 11,307.5  | 12,516.6  | 18,642.7    | 21,553.7    | 20,314.1    | 30,537.9    |
| Financial & Insurance Services        | 312,087.0 | 375,899.4 | 404,292.3 | 516,664.7   | 582,933.4   | 668,853.9   | 853,807.3   |
| Real Estate Activities                | 25,760.4  | 29,551.2  | 31,892.0  | 37,127.8    | 34,274.1    | 38,587.8    | 40,420.5    |
| Professional, Scientific & Technical, |           |           |           |             |             |             |             |
| Administrative & Support Services     | 45,984.4  | 46,245.0  | 57,622.0  | 81,908.4    | 111,170.5   | 105,656.3   | 112,457.3   |
| Others                                | 9,198.3   | 8,869.8   | 9,967.5   | 12,724.0    | 14,822.1    | 15,070.8    | 16,086.2    |

Notes : The activities are classified according to Singapore Standard Industrial Classification 2015 (Version 2018).

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## 7.2 STOCK OF SINGAPORE'S DIRECT INVESTMENT ABROAD BY ACTIVITY ABROAD

(End of Period)

Million Dollars

| Industry                              | 2011      | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      |
|---------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total                                 | 449,376.1 | 498,027.9 | 545,751.3 | 650,037.7 | 724,368.3 | 836,861.4 | 850,258.0 |
| Manufacturing                         | 90,878.4  | 97,137.0  | 104,452.8 | 115,450.6 | 135,715.0 | 156,908.9 | 163,127.3 |
| Construction                          | 1,298.2   | 1,474.4   | 1,643.8   | 1,881.9   | 1,889.3   | 2,208.3   | 2,168.2   |
| Wholesale & Retail Trade              | 31,846.9  | 38,444.7  | 43,550.0  | 51,445.5  | 61,259.2  | 68,103.0  | 69,472.5  |
| Accommodation & Food                  |           |           |           |           |           |           |           |
| Service Activities                    | 3,825.3   | 4,087.4   | 3,826.6   | 3,831.7   | 4,380.1   | 4,764.2   | 4,841.3   |
| Transport & Storage                   | 11,224.3  | 13,329.7  | 15,208.4  | 18,409.7  | 20,460.5  | 18,819.0  | 17,480.4  |
| Information & Communications          | 21,116.0  | 22,423.9  | 22,553.3  | 27,836.5  | 31,240.3  | 38,392.0  | 41,452.9  |
| Financial & Insurance Services        | 211,425.8 | 235,194.3 | 263,195.6 | 332,677.3 | 356,242.1 | 390,541.4 | 398,662.4 |
| Real Estate Activities                | 38,919.9  | 39,444.3  | 42,225.0  | 46,805.7  | 56,331.8  | 66,660.3  | 67,161.7  |
| Professional, Scientific & Technical, |           |           |           |           |           |           |           |
| Administrative & Support Services     | 8,404.3   | 9,496.6   | 11,591.2  | 14,586.1  | 21,344.0  | 24,429.9  | 21,716.2  |
| Others                                | 30,436.9  | 36,995.5  | 37,504.6  | 37,112.6  | 35,505.8  | 66,034.3  | 64,174.9  |

Notes : The activities abroad are classified according to Singapore Standard Industrial Classification 2015 (Version 2018).

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15513](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15513)

## 7.3 STOCK OF FOREIGN DIRECT INVESTMENT IN SINGAPORE BY REGION/COUNTRY

(End of Period)

Million Dollars

| Region/Country                              | 2011      | 2012      | 2013      | 2014        | 2015        | 2016        | 2017        |
|---|-----------|-----------|-----------|-------------|-------------|-------------|-------------|
| Total                                       | 702,495.2 | 808,461.3 | 905,760.4 | 1,112,348.1 | 1,267,981.0 | 1,354,820.8 | 1,567,974.0 |
| Asia  | 170,941.3 | 197,698.3 | 220,160.7 | 283,770.4   | 299,221.6   | 292,470.9   | 325,865.4   |
| Brunei Darussalam                           | 338.2     | 369.7     | 389.5     | 341.2       | 324.8       | 353.0       | 371.6       |
| Cambodia                                    | 22.8      | 22.6      | 23.1      | 21.0        | 21.7        | 15.9        | 20.2        |
| Mainland China                              | 15,096.8  | 16,306.2  | 17,846.2  | 16,002.0    | 22,688.7    | 23,939.4    | 36,294.0    |
| Hong Kong                                   | 21,801.0  | 30,393.2  | 33,490.1  | 50,218.2    | 48,713.0    | 56,149.0    | 61,033.7    |
| India                                       | 23,104.1  | 23,861.8  | 25,443.9  | 25,759.3    | 23,903.7    | 18,911.0    | 20,686.6    |
| Indonesia                                   | 2,054.7   | 3,819.1   | 2,798.6   | 2,347.6     | 3,119.5     | 4,349.9     | 5,802.5     |
| Israel                                      | 4,747.4   | 4,534.1   | 4,667.7   | 4,503.3     | 1,931.5     | 1,772.7     | 1,558.8     |
| Japan                                       | 55,338.2  | 60,068.8  | 72,246.2  | 110,106.2   | 115,247.2   | 92,794.6    | 99,944.5    |
| Republic of Korea                           | 4,143.3   | 3,306.0   | 4,680.9   | 7,576.1     | 10,680.5    | 13,926.0    | 16,670.8    |
| Lao People's Democratic Republic            | 3.8       | 3.7       | 37.6      | 36.0        | 36.9        | 45.7        | 48.6        |
| Malaysia                                    | 23,739.1  | 31,370.3  | 30,941.4  | 32,518.2    | 32,394.9    | 35,272.3    | 37,109.0    |
| Myanmar                                     | 19.4      | 9.0       | 34.2      | 91.1        | 147.7       | 236.9       | 493.6       |
| Philippines                                 | 2,419.9   | 2,958.6   | 3,730.7   | 3,060.1     | 3,760.3     | 3,369.9     | 4,086.3     |
| Taiwan                                      | 7,127.8   | 7,252.1   | 8,433.7   | 12,383.2    | 14,553.4    | 16,780.2    | 15,790.1    |
| Thailand                                    | 4,153.1   | 3,806.2   | 4,175.9   | 4,533.6     | 5,263.2     | 6,671.2     | 7,956.2     |
| Viet Nam                                    | 60.6      | 24.2      | 107.8     | 181.3       | 380.9       | 496.9       | 513.2       |
| Europe                                      | 260,406.4 | 280,778.4 | 302,759.4 | 326,556.6   | 385,152.0   | 413,211.5   | 471,181.7   |
| Denmark                                     | 8,973.9   | 10,027.5  | 10,496.0  | 10,722.0    | 14,339.6    | 15,823.2    | 14,141.9    |
| France                                      | 10,609.2  | 12,595.3  | 12,874.5  | 14,893.0    | 15,622.9    | 15,781.4    | 15,934.3    |
| Germany                                     | 14,242.2  | 14,701.6  | 15,810.6  | 17,755.1    | 18,597.2    | 17,472.3    | 21,678.0    |
| Ireland                                     | 7,131.5   | 7,897.9   | 7,321.8   | 10,259.3    | 22,234.3    | 26,805.7    | 24,657.8    |
| Luxembourg                                  | 23,797.5  | 21,256.5  | 24,413.9  | 42,591.4    | 48,712.7    | 65,642.4    | 68,089.5    |
| Netherlands                                 | 71,651.1  | 90,555.8  | 84,902.2  | 70,062.5    | 99,820.6    | 102,391.8   | 123,399.7   |
| Norway                                      | 22,056.9  | 20,731.7  | 21,118.2  | 21,475.9    | 22,339.8    | 20,175.4    | 16,564.4    |
| Switzerland                                 | 28,545.8  | 32,349.4  | 39,635.6  | 44,348.3    | 48,403.8    | 40,071.5    | 40,005.3    |
| United Kingdom                              | 55,899.8  | 49,092.4  | 59,016.3  | 62,181.3    | 60,141.8    | 66,740.8    | 85,028.8    |
| North America                               | 79,091.4  | 110,316.1 | 136,907.5 | 200,855.2   | 253,387.7   | 290,327.4   | 355,803.6   |
| United States                               | 74,644.7  | 105,145.3 | 129,927.8 | 192,312.1   | 243,060.3   | 279,723.4   | 339,270.0   |
| Canada                                      | 4,446.7   | 5,170.8   | 6,979.7   | 8,543.1     | 10,327.3    | 10,603.8    | 16,533.4    |
| Oceania                                     | 14,582.6  | 15,719.5  | 17,504.7  | 23,641.9    | 25,184.2    | 25,683.7    | 22,108.2    |
| Australia                                   | 10,052.7  | 10,220.2  | 10,424.6  | 15,216.8    | 15,805.5    | 15,576.8    | 16,558.5    |
| New Zealand                                 | 3,081.5   | 3,472.6   | 4,288.2   | 3,570.6     | 3,868.7     | 4,462.6     | 3,179.6     |
| South and Central America and the Caribbean | 163,568.7 | 186,679.3 | 208,880.0 | 255,026.9   | 277,754.7   | 303,286.1   | 363,676.1   |
| Africa                                      | 13,761.4  | 16,844.4  | 19,272.7  | 21,984.3    | 25,307.6    | 28,660.4    | 28,154.2    |
| ASEAN <sup>1</sup>                          | 32,811.5  | 42,383.4  | 42,238.8  | 43,130.2    | 45,449.9    | 50,811.6    | 56,401.3    |
| European Union (EU 28) <sup>2</sup>         | 201,166.9 | 217,725.3 | 227,445.8 | 244,837.8   | 297,773.2   | 332,949.9   | 376,878.9   |

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)

Million Dollars

| Region/Country                                 | 2011      | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total  | 449,376.1 | 498,027.9 | 545,751.3 | 650,037.7 | 724,368.3 | 836,861.4 | 850,258.0 |
| Asia   | 259,231.1 | 277,116.8 | 294,556.4 | 334,965.5 | 384,879.1 | 437,707.1 | 451,364.2 |
| Brunei Darussalam                              | 149.5     | 207.6     | 227.6     | 243.4     | 268.2     | 186.3     | 187.5     |
| Cambodia                                       | 216.5     | 225.7     | 240.7     | 247.6     | 346.0     | 412.7     | 452.4     |
| Mainland China                                 | 85,231.9  | 92,047.0  | 102,624.8 | 114,454.7 | 123,418.5 | 136,966.0 | 139,974.0 |
| Hong Kong                                      | 39,429.5  | 40,241.3  | 41,845.8  | 51,134.6  | 51,950.1  | 55,358.5  | 57,394.2  |
| India  | 11,242.1  | 12,909.4  | 16,000.2  | 21,163.3  | 34,206.3  | 43,100.2  | 48,535.8  |
| Indonesia                                      | 35,084.2  | 39,910.8  | 40,777.5  | 46,350.4  | 55,993.9  | 65,956.4  | 65,746.1  |
| Japan  | 14,079.0  | 9,963.8   | 9,772.8   | 9,715.4   | 14,083.1  | 18,111.0  | 19,576.5  |
| Republic of Korea                              | 2,734.8   | 2,856.5   | 3,389.2   | 3,990.5   | 6,669.3   | 9,415.6   | 9,594.2   |
| Lao People's Democratic Republic               | 225.2     | 226.3     | 163.9     | 262.1     | 293.1     | 197.8     | 193.9     |
| Malaysia                                       | 33,116.9  | 36,486.3  | 36,700.0  | 40,526.3  | 43,726.8  | 44,596.1  | 44,952.2  |
| Myanmar  | 174.3     | 291.8     | 332.2     | 1,941.5   | 3,253.4   | 4,649.8   | 4,890.1   |
| Philippines                                    | 5,393.1   | 5,330.4   | 5,226.6   | 5,421.8   | 7,270.0   | 7,616.8   | 7,553.9   |
| Taiwan   | 6,182.2   | 7,557.9   | 7,785.7   | 7,318.0   | 7,975.1   | 8,250.2   | 7,021.9   |
| Thailand                                       | 19,810.6  | 19,669.0  | 18,982.0  | 20,067.4  | 21,026.8  | 24,474.5  | 26,066.5  |
| Viet Nam                                       | 3,101.4   | 3,745.4   | 4,333.0   | 5,331.5   | 7,027.7   | 8,807.6   | 9,074.9   |
| Europe   | 62,073.8  | 79,949.4  | 93,402.8  | 106,553.9 | 111,249.4 | 182,022.2 | 154,446.9 |
| Germany  | 1,652.8   | 1,576.9   | 1,369.2   | 1,407.7   | 1,529.1   | 1,327.1   | 2,069.6   |
| Luxembourg                                     | 1,607.3   | 12,172.6  | 15,988.7  | 28,282.8  | 30,189.0  | 62,210.6  | 29,987.6  |
| Netherlands                                    | 7,765.5   | 7,855.0   | 10,368.7  | 14,800.3  | 20,331.4  | 24,859.5  | 26,864.1  |
| Norway   | 2,057.1   | 2,811.9   | 3,155.5   | 3,831.2   | 4,385.4   | 3,207.4   | 2,683.7   |
| Switzerland                                    | 3,435.5   | 3,661.4   | 4,431.1   | 5,257.7   | 5,770.5   | 6,168.0   | 5,763.6   |
| United Kingdom                                 | 37,254.8  | 43,713.6  | 49,153.1  | 42,429.8  | 38,035.1  | 45,751.2  | 54,503.3  |
| North America                                  | 8,125.5   | 9,691.8   | 10,256.1  | 15,622.7  | 17,415.4  | 32,080.5  | 31,922.6  |
| United States                                  | 7,334.0   | 8,296.7   | 9,695.5   | 13,536.8  | 17,056.0  | 31,774.6  | 31,489.0  |
| Canada   | 791.4     | 1,395.1   | 560.7     | 2,085.9   | 359.4     | 305.9     | 433.5     |
| Oceania  | 40,038.8  | 45,659.4  | 48,041.9  | 44,574.5  | 47,344.7  | 52,783.4  | 52,882.9  |
| Australia                                      | 36,106.5  | 41,943.5  | 43,694.8  | 39,729.8  | 42,469.4  | 48,248.7  | 48,749.4  |
| New Zealand                                    | 1,565.6   | 1,710.4   | 2,137.1   | 2,275.5   | 2,400.0   | 2,244.1   | 2,079.7   |
| South and Central America<br>and the Caribbean | 59,191.2  | 65,134.3  | 78,803.2  | 126,223.5 | 139,900.0 | 106,708.4 | 133,205.6 |
| Africa   | 20,715.8  | 20,476.3  | 20,690.9  | 22,097.6  | 23,579.8  | 25,559.8  | 26,435.8  |
| ASEAN <sup>1</sup>                             | 97,271.7  | 106,093.1 | 106,983.6 | 120,392.2 | 139,205.9 | 156,898.0 | 159,117.7 |
| European Union (EU 28) <sup>2</sup>            | 54,664.7  | 71,187.8  | 83,602.9  | 95,081.5  | 97,484.4  | 143,094.8 | 122,029.6 |

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 AND SERVICES (FIXED ASSETS INVESTMENTS) BY INDUSTRY

|  | Million Dollars |          |          |          |         |         |          |
|--|-----------------|----------|----------|----------|---------|---------|----------|
|  | 2012            | 2013     | 2014     | 2015     | 2016    | 2017    | 2018     |
| Total                                    | 16,007.8        | 12,135.2 | 11,840.2 | 11,494.9 | 9,389.0 | 9,449.1 | 10,873.3 |
| Manufacturing <sup>1</sup>               | 14,299.4        | 7,956.8  | 6,762.4  | 8,299.7  | 5,876.3 | 6,200.6 | 5,304.4  |
| Food, Beverage & Tobacco                 | ..              | 97.0     | 482.2    | ..       | 173.8   | ..      | 152.8    |
| Petroleum & Chemical Products            | 5,726.6         | 2,508.5  | 2,635.8  | 3,560.7  | 1,259.1 | 1,316.9 | 201.1    |
| Pharmaceutical & Biological Products     | 196.7           | 593.9    | 721.6    | 471.7    | 177.8   | 439.5   | 652.1    |
| Rubber & Plastic Products                | ..              | ..       | ..       | ..       | ..      | ..      | ..       |
| Fabricated Metal Products                | ..              | 91.6     | ..       | ..       | ..      | 93.0    | 53.2     |
| Machinery & Equipment                    | 432.3           | 518.2    | 345.7    | 7.7      | 351.0   | 502.2   | 131.1    |
| Computers, Electronic & Optical Products | 6,313.5         | 3,293.9  | 1,746.2  | 3,266.1  | 2,322.3 | 2,263.7 | 3,095.1  |
| Transport Equipment                      | 310.4           | 591.8    | 703.5    | 484.9    | 1,090.2 | 238.0   | 666.9    |
| Other Manufacturing Industries           | 1,319.9         | 261.9    | 127.4    | 508.6    | 502.1   | 1,347.3 | 352.1    |
| Services Industries                      | 1,708.4         | 4,178.4  | 5,077.8  | 3,195.2  | 3,512.7 | 3,248.5 | 5,568.9  |

Source : Economic Development Board

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

1 Includes servicing, engineering and R&D.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14517](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14517)

## 7.6 INVESTMENT COMMITMENTS IN MANUFACTURING <sup>1</sup> AND SERVICES (FIXED ASSETS INVESTMENTS) BY COUNTRY OF ORIGIN

|                       | 2012     | 2013     | 2014     | 2015     | 2016    | 2017    | 2018     |
|-----------------------|----------|----------|----------|----------|---------|---------|----------|
| Total                 | 16,007.8 | 12,135.2 | 11,840.2 | 11,494.9 | 9,389.0 | 9,449.1 | 10,873.3 |
| Local                 | 1,837.5  | 3,144.6  | 1,942.2  | 1,058.6  | 2,171.5 | 931.7   | 1,719.7  |
| Foreign               | 14,170.3 | 8,990.6  | 9,898.0  | 10,436.3 | 7,217.5 | 8,517.4 | 9,153.6  |
| United States         | 5,654.5  | 3,725.4  | 1,838.4  | 6,969.3  | 3,460.2 | 3,575.1 | 5,469.1  |
| Europe                | 3,134.3  | 3,281.2  | 3,117.8  | 1,510.1  | 1,248.9 | 2,722.9 | 2,430.6  |
| Japan                 | 967.8    | 670.4    | 317.2    | 422.9    | 680.6   | 892.8   | 318.2    |
| Asia Pacific & Others | 4,413.7  | 1,313.6  | 4,624.6  | 1,534.0  | 1,827.8 | 1,326.6 | 935.7    |

Source : Economic Development Board

<sup>1</sup> Includes servicing, engineering and R&D.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14564](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14564)

8



# Research and Development

# 8

# 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's (OECD) "Frascati Manual: Guidelines on Collecting and Reporting Data on Research and Experimental Development" (Sixth Edition).

## Definitions



## R&D Manpower



**Researchers:** Refer to professionals who are engaged in the conception or creation of new knowledge, products, processes, methods and systems, or in the 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:

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

**Technicians:** Refer to persons whose main tasks require 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 or are directly associated with R&D projects.



R&D Manpower, 2017

**49,297**

## 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, 2017

**\$9,085.9 mil**



## Patents



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, 2017



**9,784**

Patents  
Owned



**2,852**

Patents  
Applied



**1,290**

Patents  
Awarded



## 8.1 ORGANISATIONS PERFORMING R&D BY SECTOR

| Sector                     | Number |      |      |      |      |      |      |
|----------------------------|--------|------|------|------|------|------|------|
|                            | 2011   | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
| Total                      | 862    | 755  | 872  | 948  | 878  | 843  | 922  |
| Private                    | 803    | 696  | 811  | 881  | 807  | 774  | 853  |
| Higher Education           | 11     | 12   | 13   | 11   | 12   | 13   | 13   |
| Government                 | 29     | 28   | 29   | 31   | 34   | 31   | 31   |
| Public Research Institutes | 19     | 19   | 19   | 25   | 25   | 25   | 25   |

Source : Agency for Science, Technology and Research

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14632](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14632)

## 8.2 R&D MANPOWER BY OCCUPATION AND SEX

|                    | Number |        |        |        |        |        |        |
|--------------------|--------|--------|--------|--------|--------|--------|--------|
|                    | 2011   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   |
| Total              | 44,846 | 44,986 | 47,246 | 47,867 | 50,484 | 49,964 | 49,297 |
| Male               | 29,934 | 29,966 | 31,588 | 31,858 | 33,467 | 33,004 | 32,476 |
| Female             | 14,912 | 15,020 | 15,658 | 16,009 | 17,017 | 16,960 | 16,821 |
| Researchers        |        |        |        |        |        |        |        |
| RSE <sup>1</sup>   | 29,480 | 30,105 | 31,924 | 32,816 | 34,972 | 35,289 | 35,334 |
| Male               | 21,343 | 21,644 | 22,853 | 23,311 | 24,713 | 24,759 | 24,737 |
| Female             | 8,137  | 8,461  | 9,071  | 9,505  | 10,259 | 10,530 | 10,597 |
| FPGRS <sup>2</sup> | 5,990  | 5,924  | 6,012  | 5,800  | 5,862  | 5,734  | 5,367  |
| Male               | 3,752  | 3,710  | 3,852  | 3,703  | 3,803  | 3,763  | 3,516  |
| Female             | 2,238  | 2,214  | 2,160  | 2,097  | 2,059  | 1,971  | 1,851  |
| Non-Degree         | 2,536  | 2,392  | 2,422  | 2,083  | 2,325  | 2,154  | 2,068  |
| Male               | 1,808  | 1,702  | 1,704  | 1,448  | 1,588  | 1,420  | 1,407  |
| Female             | 728    | 690    | 718    | 635    | 737    | 734    | 661    |
| Technicians        | 3,089  | 3,022  | 3,115  | 3,083  | 2,962  | 2,737  | 2,489  |
| Male               | 1,872  | 1,807  | 1,900  | 1,921  | 1,803  | 1,596  | 1,407  |
| Female             | 1,217  | 1,215  | 1,215  | 1,162  | 1,159  | 1,141  | 1,082  |
| Supporting Staff   | 3,751  | 3,543  | 3,773  | 4,085  | 4,363  | 4,050  | 4,039  |
| Male               | 1,159  | 1,103  | 1,279  | 1,475  | 1,560  | 1,466  | 1,409  |
| Female             | 2,592  | 2,440  | 2,494  | 2,610  | 2,803  | 2,584  | 2,630  |

Source : Agency for Science, Technology and Research

1 Refers to Research scientists and engineers. Data exclude postgraduate students.

2 Refers to Full-time postgraduate research students.

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## 8.3 R&D EXPENDITURE BY AREA OF RESEARCH, 2017

| Area of Research                            | Million Dollars |                |                         |                   |                            |
|---|-----------------|----------------|-------------------------|-------------------|----------------------------|
|   | Total           | Private Sector | Higher Education Sector | Government Sector | Public Research Institutes |
| Total                                       | 9,085.9         | 5,423.4        | 1,703.5                 | 996.6             | 962.3                      |
| Agricultural & Food Sciences                | 291.9           | 258.2          | 16.0                    | 16.8              | 0.9                        |
| Engineering & Technology                    | 5,688.5         | 4,167.3        | 509.1                   | 547.6             | 464.5                      |
| Biomedical & Related Sciences               | 1,725.2         | 447.3          | 531.0                   | 332.3             | 414.7                      |
| Natural Sciences (excl Biological Sciences) | 900.0           | 440.7          | 293.3                   | 88.4              | 77.6                       |
| Energy                                      | 139.4           | 22.3           | 116.9                   | 0.0               | 0.1                        |
| Others                                      | 340.9           | 87.6           | 237.3                   | 11.6              | 4.5                        |

Source : Agency for Science, Technology and Research

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14600](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14600)

## 8.4 R&D EXPENDITURE BY TYPE OF COSTS, 2017

| Type of Costs                           | Million Dollars |                |                         |                   |                            |
|---|-----------------|----------------|-------------------------|-------------------|----------------------------|
|   | Total           | Private Sector | Higher Education Sector | Government Sector | Public Research Institutes |
| Total                                   | 9,085.9         | 5,423.4        | 1,703.5                 | 996.6             | 962.3                      |
| Capital Costs                           | 904.0           | 589.4          | 183.5                   | 66.0              | 65.1                       |
| Land, Buildings & Other Structures      | 137.4           | 80.7           | 17.4                    | 35.8              | 3.5                        |
| Vehicles, Plants, Machinery & Equipment | 766.6           | 508.7          | 166.1                   | 30.3              | 61.6                       |
| Manpower Costs                          | 4,462.7         | 2,458.0        | 1,020.6                 | 492.5             | 491.6                      |
| Researchers                             | 3,981.2         | 2,226.8        | 932.5                   | 391.0             | 430.9                      |
| RSE <sup>1</sup>                        | 3,616.1         | 2,058.1        | 776.0                   | 375.7             | 406.2                      |
| FPGRS <sup>2</sup>                      | 152.1           | 0.0            | 152.1                   | 0.0               | 0.0                        |
| Non-Degree                              | 213.0           | 168.7          | 4.4                     | 15.3              | 24.7                       |
| Technicians                             | 162.0           | 91.1           | 14.0                    | 26.1              | 30.8                       |
| Others                                  | 319.5           | 140.1          | 74.1                    | 75.5              | 29.9                       |
| Other Operating Costs                   | 3,719.2         | 2,376.0        | 499.5                   | 438.1             | 405.6                      |

Source : Agency for Science, Technology and Research

1 Refers to Research scientists and engineers.

2 Refers to Full-time postgraduate research students.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14547](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14547)

## 8.5 R&D EXPENDITURE BY SECTOR

| Sector                     | Million Dollars |         |         |         |         |         |         |
|----------------------------|-----------------|---------|---------|---------|---------|---------|---------|
|                            | 2011            | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    |
| Total                      | 7,275.6         | 7,078.1 | 7,402.4 | 8,316.6 | 9,239.5 | 9,140.2 | 9,085.9 |
| Private                    | 4,456.4         | 4,249.3 | 4,333.5 | 5,006.9 | 5,511.9 | 5,342.4 | 5,423.4 |
| Higher Education           | 1,085.3         | 1,192.0 | 1,310.5 | 1,348.2 | 1,572.8 | 1,648.0 | 1,703.5 |
| Government                 | 758.3           | 725.0   | 857.6   | 972.1   | 1,027.9 | 1,024.0 | 996.6   |
| Public Research Institutes | 975.6           | 911.9   | 900.9   | 989.4   | 1,126.9 | 1,125.8 | 962.3   |

Source : Agency for Science, Technology and Research

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14593](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14593)

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

|               | Million Dollars |         |         |         |         |         |         |
|---------------|-----------------|---------|---------|---------|---------|---------|---------|
|               | 2011            | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    |
| Total         | 4,456.4         | 4,249.3 | 4,333.5 | 5,006.9 | 5,511.9 | 5,342.4 | 5,423.4 |
| Manufacturing | 2,026.8         | 2,439.2 | 2,382.0 | 2,624.8 | 2,973.2 | 2,766.3 | 2,782.6 |
| Services      | 2,412.1         | 1,795.7 | 1,929.1 | 2,359.1 | 2,521.1 | 2,548.4 | 2,611.5 |
| Others        | 17.5            | 14.4    | 22.3    | 23.0    | 17.6    | 27.8    | 29.3    |

Source : Agency for Science, Technology and Research

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

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14556](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14556)

## 8.7 R&D OUTPUT

|                            | 2011  | 2012  | 2013  | 2014  | 2015  | 2016   | Number<br>2017 |
|----------------------------|-------|-------|-------|-------|-------|--------|----------------|
| Patents Owned <sup>1</sup> | 4,763 | 5,048 | 5,275 | 6,579 | 8,575 | 11,534 | 9,784          |
| Public Sector              | 1,208 | 1,251 | 1,295 | 1,356 | 1,463 | 1,612  | 1,679          |
| Private Sector             | 3,555 | 3,797 | 3,980 | 5,223 | 7,112 | 9,922  | 8,105          |
| Patents Applied            | 1,913 | 1,722 | 2,144 | 1,965 | 2,090 | 1,997  | 2,852          |
| Public Sector              | 608   | 698   | 821   | 834   | 857   | 912    | 682            |
| Private Sector             | 1,305 | 1,024 | 1,323 | 1,131 | 1,233 | 1,085  | 2,170          |
| Patents Awarded            | 855   | 817   | 934   | 911   | 988   | 988    | 1,290          |
| Public Sector              | 176   | 155   | 217   | 204   | 254   | 267    | 272            |
| Private Sector             | 679   | 662   | 717   | 707   | 734   | 721    | 1,018          |

Source : Agency for Science, Technology and Research

1 As at end of period.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14634](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14634)

9



# The Corporate Sector

# 9

## The Corporate Sector

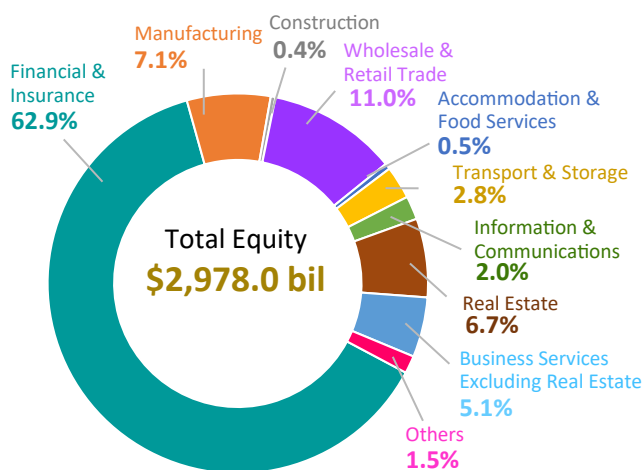


Data on the corporate sector cover companies incorporated or registered in Singapore, including branches of foreign companies. They are sourced from financial accounts which companies file with the Accounting and Corporate Regulatory Authority (ACRA) or other government agencies.

### Definitions

**Total Equity:** Comprises mainly share capital, retained earnings and other reserves. For Singapore branches of foreign-incorporated companies, the net amounts owed by Singapore branches to the foreign head offices are used as proxies for their equity.

**Total Equity by Industry, (End of Period), 2017**



**Equity Ratio:** Refers to the ratio of total equity to total assets. It measures the dependence of the company on external funding, i.e. funding which is not from its shareholders or its overseas

headquarters (for the local branch of a foreign-incorporated company). The higher the company's dependence on external funding, the lower the ratio.

**Current Ratio:** Refers to the ratio of current assets to current liabilities. It measures the liquidity of the company, i.e. its ability to meet current debt payments when due. A ratio of 1 indicates that the company has balanced exactly 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 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. It measures the efficiency of the company in using its available resources.

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

### Other References

The "Singapore's Corporate Sector" report, published by the Singapore Department of Statistics, contains analysis and detailed tables on the aggregated balance sheets and financial ratios of the corporate sector.

## 9.1 TOTAL EQUITY BY INDUSTRY

(End of Period)

| Industry                                | Billion Dollars |         |         |         |         |         |         |
|---|-----------------|---------|---------|---------|---------|---------|---------|
|   | 2011            | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    |
| Total                                   | 1,340.4         | 1,541.0 | 1,845.1 | 2,227.1 | 2,472.8 | 2,591.6 | 2,978.0 |
| Financial & Insurance                   | 705.0           | 856.3   | 1,079.7 | 1,322.4 | 1,428.1 | 1,523.2 | 1,872.7 |
| Non-Financial & Insurance               | 635.4           | 684.7   | 765.4   | 904.7   | 1,044.7 | 1,068.4 | 1,105.3 |
| Manufacturing                           | 158.4           | 146.5   | 168.1   | 165.6   | 199.6   | 199.5   | 212.4   |
| Construction                            | 8.9             | 9.3     | 10.7    | 12.2    | 11.5    | 11.9    | 12.7    |
| Wholesale & Retail Trade                | 159.3           | 186.0   | 200.9   | 264.0   | 307.3   | 326.9   | 327.1   |
| Accommodation & Food Services           | 8.2             | 10.1    | 10.6    | 12.5    | 13.5    | 13.7    | 15.2    |
| Transport & Storage                     | 69.6            | 75.5    | 87.3    | 88.3    | 89.7    | 85.7    | 83.7    |
| Information & Communications            | 19.5            | 27.2    | 32.9    | 39.7    | 45.6    | 46.9    | 58.1    |
| Real Estate                             | 124.2           | 135.4   | 146.8   | 178.6   | 188.9   | 192.5   | 199.7   |
| Business Services Excluding Real Estate | 57.7            | 63.7    | 72.8    | 105.0   | 147.2   | 148.7   | 152.4   |
| Others                                  | 29.6            | 30.8    | 35.2    | 38.7    | 41.4    | 42.6    | 44.0    |

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=13511](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=13511)

## 9.2 TOTAL ASSETS BY INDUSTRY

(End of Period)

| Industry                                | Billion Dollars |         |         |         |         |         |         |
|---|-----------------|---------|---------|---------|---------|---------|---------|
|   | 2011            | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    |
| Total                                   | 4,888.2         | 5,305.6 | 5,993.6 | 6,729.9 | 7,216.3 | 7,501.1 | 8,329.3 |
| Financial & Insurance                   | 3,304.6         | 3,605.6 | 4,098.2 | 4,617.0 | 4,923.6 | 5,116.3 | 5,804.1 |
| Non-Financial & Insurance               | 1,583.6         | 1,700.0 | 1,895.4 | 2,112.9 | 2,292.7 | 2,384.8 | 2,525.2 |
| Manufacturing                           | 299.7           | 286.3   | 305.9   | 306.6   | 340.5   | 356.7   | 400.6   |
| Construction                            | 33.0            | 34.1    | 36.1    | 34.6    | 36.6    | 37.9    | 39.1    |
| Wholesale & Retail Trade                | 498.9           | 577.7   | 668.8   | 712.0   | 754.6   | 830.0   | 860.9   |
| Accommodation & Food Services           | 18.7            | 20.2    | 21.5    | 26.5    | 29.4    | 31.2    | 34.6    |
| Transport & Storage                     | 172.6           | 182.8   | 201.9   | 242.1   | 253.8   | 245.1   | 245.1   |
| Information & Communications            | 62.1            | 68.8    | 74.4    | 86.4    | 98.2    | 106.5   | 124.1   |
| Real Estate                             | 275.0           | 293.0   | 315.5   | 385.8   | 403.5   | 397.0   | 413.0   |
| Business Services Excluding Real Estate | 136.7           | 134.3   | 164.4   | 212.0   | 263.2   | 267.3   | 293.8   |
| Others                                  | 86.9            | 102.8   | 106.8   | 107.0   | 113.0   | 113.2   | 114.0   |

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## 9.3 RETURNS ON EQUITY BY INDUSTRY

(End of Period)

| Industry                                | Per Cent |      |      |      |      |      |      |
|---|----------|------|------|------|------|------|------|
|   | 2011     | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
| Total                                   | 13.3     | 14.5 | 11.8 | 11.5 | 9.3  | 10.0 | 10.9 |
| Financial & Insurance                   | 8.9      | 10.8 | 8.7  | 8.8  | 6.2  | 8.9  | 8.7  |
| Non-Financial & Insurance               | 18.6     | 18.8 | 16.0 | 15.4 | 13.7 | 11.6 | 14.3 |
| Manufacturing                           | 20.6     | 25.0 | 19.8 | 24.4 | 20.3 | 22.7 | 24.0 |
| Construction                            | 35.3     | 25.3 | 16.0 | 12.2 | 10.0 | 7.3  | 8.2  |
| Wholesale & Retail Trade                | 23.9     | 21.7 | 20.3 | 17.5 | 15.5 | 13.2 | 14.7 |
| Accommodation & Food Services           | 17.0     | 11.6 | 11.0 | 16.3 | 10.9 | 7.3  | 9.9  |
| Transport & Storage                     | 4.4      | 5.0  | 5.8  | 6.4  | 9.6  | -0.2 | 8.1  |
| Information & Communications            | 32.9     | 47.6 | 17.4 | 18.2 | 12.5 | 4.5  | 13.7 |
| Real Estate                             | 17.6     | 15.2 | 15.1 | 12.2 | 9.3  | 7.6  | 8.4  |
| Business Services Excluding Real Estate | 12.2     | 9.6  | 9.8  | 7.3  | 9.4  | 8.3  | 12.9 |
| Others                                  | 18.5     | 15.5 | 14.7 | 15.3 | 16.6 | 10.7 | 13.3 |

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=13754](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=13754)

## 9.4 RETURNS ON ASSETS BY INDUSTRY

(End of Period)

| Industry                                | Per Cent |      |      |      |      |      |      |
|---|----------|------|------|------|------|------|------|
|   | 2011     | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
| Total                                   | 4.3      | 4.6  | 4.0  | 4.2  | 3.7  | 4.0  | 4.5  |
| Financial & Insurance                   | 2.6      | 3.0  | 2.7  | 2.9  | 2.3  | 3.1  | 3.3  |
| Non-Financial & Insurance               | 8.0      | 8.0  | 7.0  | 7.0  | 6.6  | 5.8  | 6.9  |
| Manufacturing                           | 11.0     | 13.3 | 10.8 | 13.6 | 11.7 | 13.4 | 13.5 |
| Construction                            | 9.8      | 7.2  | 4.9  | 4.3  | 3.7  | 2.7  | 3.0  |
| Wholesale & Retail Trade                | 7.8      | 7.4  | 6.9  | 6.5  | 6.6  | 5.8  | 6.2  |
| Accommodation & Food Services           | 8.3      | 6.0  | 5.9  | 8.4  | 5.6  | 4.0  | 5.1  |
| Transport & Storage                     | 2.4      | 2.6  | 3.2  | 3.2  | 4.2  | 0.7  | 3.6  |
| Information & Communications            | 12.1     | 17.7 | 7.9  | 8.7  | 6.4  | 2.6  | 6.7  |
| Real Estate                             | 8.5      | 7.6  | 7.7  | 6.2  | 4.9  | 4.2  | 4.7  |
| Business Services Excluding Real Estate | 5.6      | 4.7  | 4.9  | 4.0  | 5.5  | 5.2  | 7.4  |
| Others                                  | 7.0      | 5.9  | 5.4  | 6.2  | 7.2  | 5.2  | 6.3  |

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## 9.5 EQUITY RATIOS OF COMPANIES BY INDUSTRY

(End of Period)

| Industry                                | Ratio |      |      |      |      |      |      |
|---|-------|------|------|------|------|------|------|
|   | 2011  | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
| Total                                   | 0.27  | 0.29 | 0.31 | 0.33 | 0.34 | 0.35 | 0.36 |
| Financial & Insurance                   | 0.21  | 0.24 | 0.26 | 0.29 | 0.29 | 0.30 | 0.32 |
| Non-Financial & Insurance               | 0.40  | 0.40 | 0.40 | 0.43 | 0.46 | 0.45 | 0.44 |
| Manufacturing                           | 0.53  | 0.51 | 0.55 | 0.54 | 0.59 | 0.56 | 0.53 |
| Construction                            | 0.27  | 0.27 | 0.30 | 0.35 | 0.31 | 0.31 | 0.32 |
| Wholesale & Retail Trade                | 0.32  | 0.32 | 0.30 | 0.37 | 0.41 | 0.39 | 0.38 |
| Accommodation & Food Services           | 0.44  | 0.50 | 0.49 | 0.47 | 0.46 | 0.44 | 0.44 |
| Transport & Storage                     | 0.40  | 0.41 | 0.43 | 0.36 | 0.35 | 0.35 | 0.34 |
| Information & Communications            | 0.31  | 0.40 | 0.44 | 0.46 | 0.46 | 0.44 | 0.47 |
| Real Estate                             | 0.45  | 0.46 | 0.47 | 0.46 | 0.47 | 0.48 | 0.48 |
| Business Services Excluding Real Estate | 0.42  | 0.47 | 0.44 | 0.50 | 0.56 | 0.56 | 0.52 |
| Others                                  | 0.34  | 0.30 | 0.33 | 0.36 | 0.37 | 0.38 | 0.39 |

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=13526](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=13526)

## 9.6 CURRENT RATIOS OF COMPANIES BY INDUSTRY

(End of Period)

| Industry                                | Ratio |      |      |      |      |      |      |
|---|-------|------|------|------|------|------|------|
|   | 2011  | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
| Total                                   | 1.04  | 1.06 | 1.06 | 1.15 | 1.13 | 1.13 | 1.13 |
| Financial & Insurance                   | 0.96  | 0.98 | 0.98 | 1.10 | 1.07 | 1.07 | 1.07 |
| Non-Financial & Insurance               | 1.28  | 1.29 | 1.29 | 1.31 | 1.31 | 1.31 | 1.31 |
| Manufacturing                           | 1.68  | 1.66 | 1.85 | 1.69 | 1.89 | 1.75 | 1.65 |
| Construction                            | 1.15  | 1.18 | 1.21 | 1.33 | 1.26 | 1.24 | 1.23 |
| Wholesale & Retail Trade                | 1.26  | 1.27 | 1.24 | 1.30 | 1.30 | 1.30 | 1.34 |
| Accommodation & Food Services           | 0.65  | 0.86 | 0.95 | 1.07 | 0.87 | 0.73 | 0.76 |
| Transport & Storage                     | 0.99  | 1.05 | 1.07 | 0.88 | 0.76 | 0.82 | 0.82 |
| Information & Communications            | 1.02  | 0.96 | 1.06 | 1.07 | 1.15 | 1.03 | 1.06 |
| Real Estate                             | 1.36  | 1.69 | 1.51 | 1.63 | 1.43 | 1.46 | 1.36 |
| Business Services Excluding Real Estate | 1.20  | 1.18 | 1.14 | 1.20 | 1.37 | 1.40 | 1.33 |
| Others                                  | 1.16  | 0.87 | 0.98 | 1.10 | 1.16 | 1.20 | 1.06 |

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=13539](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=13539)

10

# Formation and Cessation of Business Entities



# 10

## Formation and Cessation of Business Entities



### Coverage and Sources of Data



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

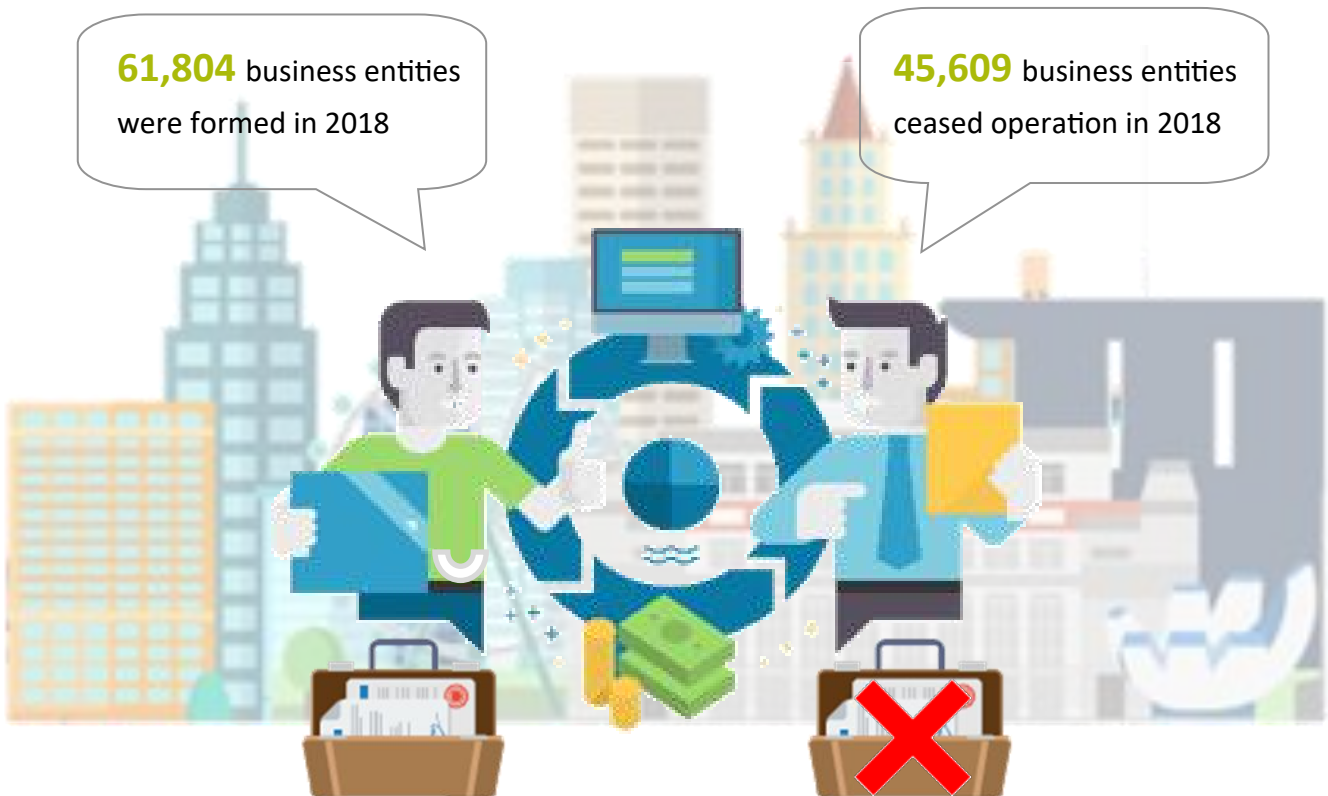


**Formation:** Refers to business entities incorporated or registered with ACRA.

**Cessation:** Refers to business entities which have ceased operations. Examples of cessation status include ceased registration, struck off, amalgamated, cancelled and dissolved.

**61,804** business entities were formed in 2018

**45,609** business entities ceased operation in 2018



## 10.1 FORMATION OF ALL BUSINESS ENTITIES BY TYPE

|  | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | Number<br>2018 |
|--|--------|--------|--------|--------|--------|--------|----------------|
| Total                                  | 56,749 | 60,201 | 77,380 | 64,903 | 64,933 | 62,113 | 61,804         |
| Companies                              | 31,741 | 34,976 | 38,484 | 34,241 | 35,225 | 37,394 | 43,240         |
| Sole-proprietorships<br>& Partnerships | 22,727 | 22,835 | 35,676 | 28,479 | 27,120 | 22,148 | 16,366         |
| Limited Liability Partnerships         | 2,211  | 2,312  | 3,104  | 2,100  | 2,431  | 2,373  | 2,058          |
| Limited Partnerships                   | 53     | 56     | 98     | 66     | 142    | 189    | 131            |
| Public Accounting Firms                | 17     | 22     | 18     | 17     | 15     | 9      | 9              |

Source : Accounting and Corporate Regulatory Authority (ACRA)

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14764](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14764)

## 10.2 CESSATION OF ALL BUSINESS ENTITIES BY TYPE

|  | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | Number<br>2018 |
|--|--------|--------|--------|--------|--------|--------|----------------|
| Total                                  | 42,414 | 41,775 | 42,648 | 52,150 | 60,739 | 48,294 | 45,609         |
| Companies                              | 18,938 | 18,134 | 19,303 | 21,473 | 23,204 | 22,389 | 24,046         |
| Sole-proprietorships<br>& Partnerships | 22,413 | 22,578 | 22,138 | 29,364 | 35,826 | 24,114 | 19,966         |
| Limited Liability Partnerships         | 1,014  | 1,011  | 1,150  | 1,240  | 1,612  | 1,733  | 1,446          |
| Limited Partnerships                   | 33     | 32     | 39     | 54     | 72     | 37     | 136            |
| Public Accounting Firms                | 16     | 20     | 18     | 19     | 25     | 21     | 15             |

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 and 2017, 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.

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## 10.3 FORMATION OF ALL BUSINESS ENTITIES BY INDUSTRY

|   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | Number<br>2018 |
|---|--------|--------|--------|--------|--------|--------|----------------|
| Total   | 56,749 | 60,201 | 77,380 | 64,903 | 64,933 | 62,113 | 61,804         |
| Manufacturing   | 2,214  | 2,389  | 2,666  | 2,247  | 2,079  | 2,013  | 1,922          |
| Construction  | 3,305  | 3,438  | 3,603  | 3,268  | 3,031  | 2,848  | 2,713          |
| Wholesale Trade   | 10,192 | 10,472 | 12,868 | 9,695  | 9,388  | 9,786  | 10,166         |
| Retail Trade  | 6,047  | 6,571  | 12,037 | 6,529  | 5,827  | 5,418  | 5,216          |
| Transportation & Storage                                      | 2,280  | 2,486  | 3,381  | 8,673  | 11,472 | 7,739  | 3,014          |
| Accommodation   | 130    | 120    | 91     | 91     | 83     | 95     | 103            |
| Food & Beverage Service Activities                            | 2,905  | 2,879  | 3,367  | 3,034  | 2,968  | 3,298  | 3,341          |
| Information & Communications                                  | 4,097  | 4,968  | 7,095  | 5,342  | 5,209  | 5,425  | 8,130          |
| Financial & Insurance Activities                              | 5,331  | 5,309  | 4,923  | 4,749  | 4,526  | 5,015  | 5,866          |
| Real Estate Activities  | 1,019  | 934    | 665    | 633    | 598    | 747    | 692            |
| Professional, Scientific &<br>Technical Activities            | 9,007  | 9,902  | 12,443 | 9,862  | 9,347  | 9,719  | 10,725         |
| Administrative & Support<br>Service Activities                | 3,154  | 3,274  | 4,399  | 3,243  | 3,146  | 2,828  | 2,798          |
| Education, Health & Social Services                           | 3,318  | 3,716  | 4,564  | 3,678  | 3,325  | 3,504  | 3,400          |
| Arts, Entertainment, Recreation<br>& Other Service Activities | 3,377  | 3,406  | 4,870  | 3,500  | 3,479  | 3,324  | 3,353          |
| Others  | 373    | 337    | 408    | 359    | 455    | 354    | 365            |

Source : Accounting and Corporate Regulatory Authority (ACRA)

Notes : The industries are classified according to the Singapore Standard Industrial Classification 2015 (Version 2018).  
Business entities refer to companies, sole-proprietorships, partnerships, limited liability partnerships, limited partnerships and public accounting firms.

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## 10.4 CESSATION OF ALL BUSINESS ENTITIES BY INDUSTRY

|   | Number |        |        |        |        |        |        |
|---|--------|--------|--------|--------|--------|--------|--------|
|   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
| Total   | 42,414 | 41,775 | 42,648 | 52,150 | 60,739 | 48,294 | 45,609 |
| Manufacturing   | 1,988  | 1,872  | 1,806  | 2,099  | 2,325  | 1,762  | 1,756  |
| Construction  | 2,464  | 2,460  | 2,429  | 2,590  | 2,648  | 2,277  | 2,253  |
| Wholesale Trade   | 8,941  | 8,560  | 8,468  | 9,861  | 10,768 | 8,011  | 7,909  |
| Retail Trade  | 4,804  | 4,918  | 5,224  | 7,920  | 8,632  | 5,153  | 4,601  |
| Transportation & Storage  | 1,770  | 1,848  | 1,786  | 2,345  | 5,522  | 7,101  | 6,087  |
| Accommodation   | 60     | 83     | 78     | 48     | 83     | 66     | 69     |
| Food & Beverage Service Activities                                | 2,472  | 2,360  | 2,300  | 2,514  | 2,774  | 2,117  | 2,159  |
| Information & Communications                                      | 2,722  | 2,621  | 3,000  | 3,858  | 4,642  | 3,530  | 3,452  |
| Financial & Insurance Activities                                  | 2,679  | 2,691  | 2,836  | 3,038  | 3,315  | 3,040  | 3,139  |
| Real Estate Activities  | 805    | 712    | 791    | 765    | 764    | 652    | 651    |
| Professional, Scientific &<br>Technical Activities                | 5,836  | 5,777  | 6,072  | 7,672  | 8,827  | 6,849  | 6,470  |
| Administrative & Support<br>Service Activities                    | 2,526  | 2,514  | 2,474  | 2,994  | 3,185  | 2,296  | 2,187  |
| Education, Health & Social Services<br>& Other Service Activities | 1,951  | 2,097  | 2,177  | 2,614  | 3,100  | 2,346  | 2,078  |
| Arts, Entertainment, Recreation<br>& Other Service Activities     | 3,177  | 3,026  | 2,965  | 3,553  | 3,840  | 2,820  | 2,540  |
| Others  | 219    | 236    | 242    | 279    | 314    | 274    | 258    |

Source : Accounting and Corporate Regulatory Authority (ACRA)

Notes : The industries are classified according to the Singapore Standard Industrial Classification 2015 (Version 2018). Business entities refer to 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 and 2017, 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.

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## 10.5 FORMATION OF COMPANIES BY INDUSTRY

|   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | Number<br>2018 |
|---|--------|--------|--------|--------|--------|--------|----------------|
| Total   | 31,741 | 34,976 | 38,484 | 34,241 | 35,225 | 37,394 | 43,240         |
| Manufacturing   | 1,297  | 1,432  | 1,449  | 1,373  | 1,277  | 1,252  | 1,251          |
| Construction  | 1,879  | 2,069  | 2,205  | 2,074  | 1,977  | 1,833  | 1,834          |
| Wholesale Trade   | 6,632  | 7,000  | 7,640  | 6,613  | 6,778  | 7,244  | 7,852          |
| Retail Trade  | 1,651  | 1,918  | 2,662  | 2,057  | 2,184  | 2,177  | 2,266          |
| Transportation & Storage                                      | 1,187  | 1,400  | 1,433  | 1,316  | 1,276  | 1,396  | 1,478          |
| Accommodation   | 81     | 81     | 57     | 61     | 57     | 60     | 77             |
| Food & Beverage Service Activities                            | 1,491  | 1,523  | 1,660  | 1,605  | 1,760  | 1,967  | 2,106          |
| Information & Communications                                  | 2,529  | 3,153  | 4,086  | 3,608  | 3,901  | 4,193  | 7,192          |
| Financial & Insurance Activities                              | 4,883  | 4,869  | 4,484  | 4,418  | 4,265  | 4,719  | 5,522          |
| Real Estate Activities  | 808    | 741    | 497    | 470    | 502    | 653    | 619            |
| Professional, Scientific &<br>Technical Activities            | 5,067  | 6,025  | 6,686  | 5,759  | 6,070  | 6,596  | 7,684          |
| Administrative & Support<br>Service Activities                | 1,559  | 1,758  | 1,906  | 1,665  | 1,773  | 1,673  | 1,668          |
| Education, Health & Social Services                           | 1,514  | 1,719  | 2,062  | 1,812  | 1,764  | 2,003  | 1,974          |
| Arts, Entertainment, Recreation<br>& Other Service Activities | 901    | 1,053  | 1,396  | 1,181  | 1,326  | 1,346  | 1,414          |
| Others  | 262    | 235    | 261    | 229    | 315    | 282    | 303            |

Source : Accounting and Corporate Regulatory Authority (ACRA)

Notes : The industries are classified according to the Singapore Standard Industrial Classification 2015 (Version 2018).

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## 10.6 CESSATION OF COMPANIES BY INDUSTRY

|   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | Number<br>2018 |
|---|--------|--------|--------|--------|--------|--------|----------------|
| Total   | 18,938 | 18,134 | 19,303 | 21,473 | 23,204 | 22,389 | 24,046         |
| Manufacturing   | 917    | 839    | 841    | 907    | 952    | 880    | 982            |
| Construction  | 940    | 940    | 956    | 965    | 1,028  | 1,030  | 1,186          |
| Wholesale Trade   | 5,015  | 4,666  | 4,808  | 5,253  | 5,590  | 5,026  | 5,387          |
| Retail Trade  | 931    | 924    | 1,011  | 1,217  | 1,464  | 1,407  | 1,493          |
| Transportation & Storage                                      | 820    | 776    | 766    | 810    | 896    | 930    | 943            |
| Accommodation   | 32     | 48     | 39     | 22     | 40     | 30     | 51             |
| Food & Beverage Service Activities                            | 908    | 894    | 942    | 1,016  | 1,019  | 1,038  | 1,085          |
| Information & Communications                                  | 1,454  | 1,279  | 1,475  | 1,859  | 2,186  | 2,186  | 2,416          |
| Financial & Insurance Activities                              | 2,261  | 2,324  | 2,499  | 2,664  | 2,899  | 2,796  | 2,938          |
| Real Estate Activities  | 490    | 471    | 543    | 516    | 526    | 482    | 514            |
| Professional, Scientific &<br>Technical Activities            | 2,604  | 2,543  | 2,742  | 3,347  | 3,669  | 3,692  | 3,918          |
| Administrative & Support<br>Service Activities                | 1,028  | 930    | 1,012  | 1,119  | 1,119  | 1,029  | 1,169          |
| Education, Health & Social Services                           | 622    | 663    | 722    | 827    | 891    | 967    | 985            |
| Arts, Entertainment, Recreation<br>& Other Service Activities | 797    | 695    | 801    | 774    | 742    | 720    | 791            |
| Others  | 119    | 142    | 146    | 177    | 183    | 176    | 188            |

Source : Accounting and Corporate Regulatory Authority (ACRA)

Notes : The industries are classified according to the Singapore Standard Industrial Classification 2015 (Version 2018). The statistics on business entities cessation have been adjusted to provide a more accurate reflection of the underlying cessation trends. In 2016 and 2017, 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.

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## 10.7 FORMATION OF SOLE-PROPRIETORSHIPS & PARTNERSHIPS BY INDUSTRY

|   |        |        |        |        |        |        | Number |
|---|--------|--------|--------|--------|--------|--------|--------|
|   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
| Total   | 22,727 | 22,835 | 35,676 | 28,479 | 27,120 | 22,148 | 16,366 |
| Manufacturing   | 856    | 896    | 1,133  | 814    | 731    | 690    | 604    |
| Construction  | 1,358  | 1,306  | 1,344  | 1,136  | 987    | 933    | 831    |
| Wholesale Trade   | 3,258  | 3,150  | 4,866  | 2,846  | 2,291  | 2,227  | 2,055  |
| Retail Trade  | 4,029  | 4,296  | 8,774  | 4,157  | 3,258  | 2,858  | 2,618  |
| Transportation & Storage                                      | 1,045  | 1,032  | 1,853  | 7,279  | 10,102 | 6,235  | 1,473  |
| Accommodation   | 44     | 32     | 31     | 24     | 20     | 31     | 22     |
| Food & Beverage Service Activities                            | 1,285  | 1,221  | 1,551  | 1,307  | 1,026  | 1,138  | 1,092  |
| Information & Communications                                  | 1,338  | 1,560  | 2,696  | 1,519  | 1,065  | 1,029  | 761    |
| Financial & Insurance Activities                              | 353    | 304    | 332    | 258    | 169    | 203    | 238    |
| Real Estate Activities  | 156    | 146    | 131    | 110    | 73     | 75     | 53     |
| Professional, Scientific &<br>Technical Activities            | 3,528  | 3,455  | 5,182  | 3,674  | 2,805  | 2,648  | 2,616  |
| Administrative & Support<br>Service Activities                | 1,442  | 1,362  | 2,215  | 1,425  | 1,196  | 997    | 1,003  |
| Education, Health & Social Services                           | 1,610  | 1,768  | 2,174  | 1,649  | 1,308  | 1,253  | 1,168  |
| Arts, Entertainment, Recreation<br>& Other Service Activities | 2,323  | 2,212  | 3,256  | 2,159  | 1,967  | 1,764  | 1,781  |
| Others  | 102    | 95     | 138    | 122    | 122    | 67     | 51     |

Source : Accounting and Corporate Regulatory Authority (ACRA)

Notes : The industries are classified according to the Singapore Standard Industrial Classification 2015 (Version 2018).

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15955](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15955)

## 10.8 CESSATION OF SOLE-PROPRIETORSHIPS & PARTNERSHIPS BY INDUSTRY

|   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | Number<br>2018 |
|---|--------|--------|--------|--------|--------|--------|----------------|
| Total   | 22,413 | 22,578 | 22,138 | 29,364 | 35,826 | 24,114 | 19,966         |
| Manufacturing   | 1,042  | 1,009  | 941    | 1,153  | 1,326  | 838    | 731            |
| Construction  | 1,498  | 1,475  | 1,453  | 1,595  | 1,569  | 1,212  | 1,022          |
| Wholesale Trade   | 3,751  | 3,736  | 3,499  | 4,434  | 4,955  | 2,763  | 2,308          |
| Retail Trade  | 3,707  | 3,839  | 4,039  | 6,486  | 6,885  | 3,454  | 2,883          |
| Transportation & Storage                                      | 930    | 1,053  | 1,001  | 1,502  | 4,579  | 6,135  | 5,076          |
| Accommodation   | 28     | 30     | 35     | 25     | 38     | 30     | 15             |
| Food & Beverage Service Activities                            | 1,476  | 1,389  | 1,275  | 1,416  | 1,680  | 971    | 952            |
| Information & Communications                                  | 1,166  | 1,220  | 1,380  | 1,867  | 2,260  | 1,151  | 881            |
| Financial & Insurance Activities                              | 378    | 338    | 281    | 319    | 354    | 188    | 153            |
| Real Estate Activities  | 307    | 228    | 229    | 231    | 218    | 142    | 123            |
| Professional, Scientific &<br>Technical Activities            | 3,062  | 3,054  | 3,123  | 4,083  | 4,844  | 2,822  | 2,271          |
| Administrative & Support<br>Service Activities                | 1,413  | 1,517  | 1,371  | 1,780  | 1,921  | 1,141  | 905            |
| Education, Health & Social Services                           | 1,253  | 1,344  | 1,340  | 1,692  | 2,081  | 1,195  | 969            |
| Arts, Entertainment, Recreation<br>& Other Service Activities | 2,311  | 2,255  | 2,080  | 2,683  | 2,989  | 1,983  | 1,613          |
| Others  | 91     | 91     | 91     | 98     | 127    | 89     | 64             |

Source : Accounting and Corporate Regulatory Authority (ACRA)

Notes : The industries are classified according to the Singapore Standard Industrial Classification 2015 (Version 2018). The statistics on business entities cessation have been adjusted to provide a more accurate reflection of the underlying cessation trends. In 2016 and 2017, 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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15949](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15949)

11



# Agriculture, Animal Production and Fisheries

# 11

# 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



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 about 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, 2018



A number of farms and nurseries grow orchids, ornamental and foliage plants (such as potted plants, foliage, 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, 2017



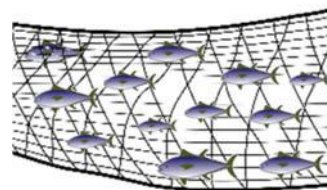
**5 mil**  
stalks

## Fisheries



Local fish production comprises mainly aquaculture 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, 2018



**5,915**  
tonnes

The Jurong Fishery Port (JFP) is a major seafood landing and distribution point in Singapore. JFP handled about 44,200 tonnes of seafood in 2018, 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 5,700 tonnes of seafood in 2018. There are 139 seafood processing establishments licensed to manufacture fishery products in Singapore. Three processing establishments and one cold store export seafood products to the EU countries.

There are 111 coastal and deep sea fish farms covering 98.5 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           | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
|---|----------------|--------|--------|--------|--------|--------|--------|--------|
| Seafood <sup>1</sup>                      | Tonnes         | 5,547  | 6,775  | 6,379  | 7,699  | 6,822  | 6,498  | 6,528  |
| Fish                                      | Tonnes         | 5,127  | 5,864  | 5,639  | 6,540  | 6,086  | 5,916  | 5,915  |
| Other Seafood (crustaceans and molluscus) | Tonnes         | 420    | 911    | 740    | 1,159  | 736    | 582    | 613    |
| Local Landings of Seafood                 | Tonnes         | 1,970  | 1,644  | 1,434  | 1,268  | 1,235  | 1,108  | 1,310  |
| Vegetables                                | Tonnes         | 21,405 | 21,785 | 22,720 | 23,039 | 22,458 | 22,620 | 24,033 |
| Leafy Vegetables                          | Tonnes         | 10,227 | 10,308 | 10,848 | 11,420 | 11,335 | 11,778 | 12,178 |
| Other Vegetables                          | Tonnes         | 11,178 | 11,476 | 11,872 | 11,619 | 11,123 | 10,842 | 11,855 |
| Hen Eggs                                  | Million Pieces | 402    | 438    | 433    | 421    | 452    | 521    | 488    |
| Aquarium Fish                             | Million Pieces | 106    | 114    | 109    | 77     | 77     | 73     | 78     |
| Orchids                                   | Million Stalks | 10     | 9      | 10     | 8      | 6      | 5      | na     |
| Ornamental Plants <sup>2</sup>            | Million Plants | 38     | 12     | 22     | 21     | 17     | 16     | na     |

Source : Agri-Food & Veterinary Authority (AVA)  
Singapore Food Agency (SFA)  
National Parks Board (NParks)

Notes : From 1 April 2019, SFA took over food-related functions previously carried out by AVA.  
From 1 April 2019, NParks took over non-food, plant and animal related functions previously carried out by AVA.

- 1 Includes local landings, coastal and land-based farm production.
- 2 Includes potted plants, foliages, ornamental plants, aquatic plants and tissue-cultured plantlets.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14610](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14610)

## 11.2 LIVESTOCK SLAUGHTERED

|          | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
|----------|--------|--------|--------|--------|--------|--------|--------|
| Poultry  | 51,995 | 53,048 | 52,238 | 53,610 | 54,309 | 53,500 | 56,829 |
| Chickens | 46,099 | 47,036 | 46,154 | 48,008 | 48,820 | 48,323 | 51,400 |
| Ducks    | 5,896  | 6,012  | 6,084  | 5,601  | 5,489  | 5,177  | 5,429  |
| Pigs     | 324    | 330    | 336    | 334    | 333    | 323    | 306    |

Source : Agri-Food & Veterinary Authority (AVA)  
Singapore Food Agency (SFA)

Notes : From 1 April 2019, SFA took over food-related functions previously carried out by AVA.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15259](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15259)

## 11.3 SEAFOOD SUPPLY AND WHOLESALE

|                                | Tonnes  |         |         |         |         |         |         |
|--------------------------------|---------|---------|---------|---------|---------|---------|---------|
|                                | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
| Seafood Supply                 |         |         |         |         |         |         |         |
| Local Production <sup>1</sup>  | 5,547   | 6,775   | 6,379   | 7,699   | 6,822   | 6,498   | 6,528   |
| Imports <sup>2</sup>           | 123,982 | 122,814 | 119,858 | 121,577 | 116,863 | 116,351 | 121,206 |
| Exports <sup>2</sup>           | 28,830  | 25,364  | 16,593  | 22,827  | 19,458  | 17,544  | 18,321  |
| Seafood Wholesale <sup>3</sup> | 61,405  | 59,094  | 54,000  | 49,436  | 47,092  | 45,412  | 41,356  |

Source : Seafood Supply (Local Production) and Seafood Wholesale - Agri-Food & Veterinary Authority (AVA)  
Singapore Food Agency (SFA)

Seafood Supply (Imports and Exports) - Enterprise Singapore

Notes : From 1 April 2019, SFA took over food-related functions previously carried out by AVA.

Seafood refers to fish, crustaceans and molluscs.

Data on imports and exports of seafood are based on Standard International Trade Classification Rev 4.1 and consistent with the ASEAN Harmonised Tariff Nomenclature 2017 version.

- 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'.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15263](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15263)

12



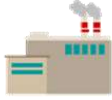
# Manufacturing

# 12

# Manufacturing



## Census of Manufacturing Activities



A 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:** Refer 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.

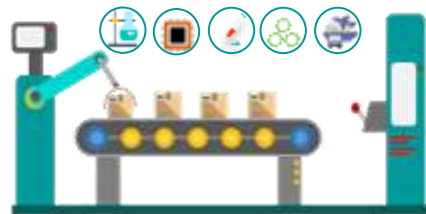
**380,500** Persons Employed in the Manufacturing sector in 2018



**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 of goods and services derived from a production process and ancillary activities such as management or marketing. As such, it includes manufacturing output and other operating income.



**Total Output for the Manufacturing Sector in 2018 was**

**S\$361.4 bil**

**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 2018 amounted to**

**S\$99.9 bil**



## Manufacturing

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

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

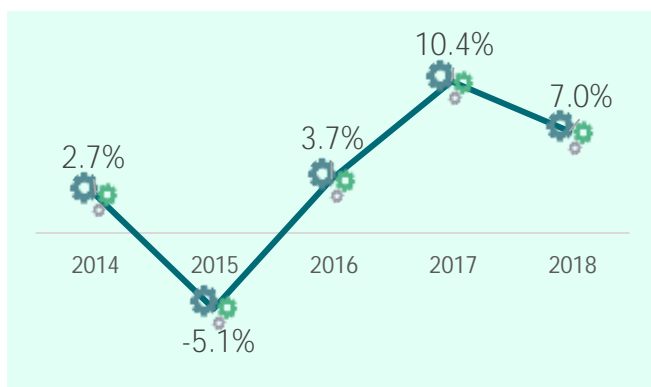
**Gross Value of Fixed Assets:** Refers to the accumulated cost of acquiring the fixed assets.

**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.

Annual Growth in Index of Industrial Production



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.

### Unit Business Cost Index

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).

### Other References

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

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 | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
|---------------------------|------|---------|---------|---------|---------|---------|---------|---------|
| Establishments            | No.  | 9,577   | 9,303   | 9,106   | 8,778   | 8,988   | 9,096   | na      |
| Workers                   | No.  | 424,622 | 424,505 | 416,406 | 403,286 | 384,726 | 381,128 | 380,543 |
| Materials                 | \$m  | 168,685 | 163,561 | 167,343 | 145,057 | 129,440 | 154,772 | 171,694 |
| Remuneration              | \$m  | 19,694  | 20,722  | 21,806  | 21,678  | 20,996  | 21,405  | 21,760  |
| Other Operating Cost      | \$m  | 70,676  | 76,021  | 75,551  | 70,632  | 74,050  | 88,284  | na      |
| Manufacturing Output      | \$m  | 288,279 | 285,431 | 291,424 | 271,120 | 259,496 | 305,742 | 342,091 |
| Total Output <sup>1</sup> | \$m  | 301,551 | 299,624 | 306,642 | 284,691 | 273,533 | 322,118 | 361,360 |
| Value Added               | \$m  | 62,189  | 60,042  | 63,748  | 69,001  | 70,044  | 79,061  | 99,928  |
| Net Operating Surplus     | \$m  | 34,475  | 31,486  | 33,800  | 38,213  | 39,365  | 48,750  | na      |
| Direct Exports            | \$m  | 192,261 | 189,935 | 189,639 | 183,295 | 178,613 | 213,656 | na      |
| Net Fixed Assets          | \$m  | 58,930  | 64,107  | 67,987  | 66,538  | 68,633  | 72,987  | na      |
| Gross Fixed Assets        | \$m  | 140,440 | 150,830 | 164,168 | 172,563 | 179,132 | 188,730 | na      |

Source : Economic Development Board

Notes : Data include all manufacturing establishments.  
Year 2018 data are preliminary estimates.  
The values of fixed assets are at end of year.

<sup>1</sup> Refers to manufacturing output and other operating income.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12453](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12453)

## 12.2 SELECTED AVERAGES AND RATIOS IN THE MANUFACTURING SECTOR

|   | Unit   | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|---|--------|-------|-------|-------|-------|-------|-------|-------|
| Remuneration<br>Per Worker                | \$'000 | 46.4  | 48.8  | 52.4  | 53.8  | 54.6  | 56.2  | 57.2  |
| Manufacturing Output<br>Per Worker        | \$'000 | 678.9 | 672.4 | 699.9 | 672.3 | 674.5 | 802.2 | 899.0 |
| Value Added<br>Per Worker                 | \$'000 | 146.5 | 141.4 | 153.1 | 171.1 | 182.1 | 207.4 | 262.6 |
| Net Fixed Assets<br>Per Worker            | \$'000 | 138.8 | 151.0 | 163.3 | 165.0 | 178.4 | 191.5 | na    |
| Remuneration to<br>Total Output           | %      | 6.5   | 6.9   | 7.1   | 7.6   | 7.7   | 6.6   | 6.0   |
| Remuneration to<br>Value Added            | %      | 31.7  | 34.5  | 34.2  | 31.4  | 30.0  | 27.1  | 21.8  |
| Value Added to<br>Total Output            | %      | 20.6  | 20.0  | 20.8  | 24.2  | 25.6  | 24.5  | 27.7  |
| Direct Exports to<br>Manufacturing Output | %      | 66.7  | 66.5  | 65.1  | 67.6  | 68.8  | 69.9  | na    |
| Direct Exports to<br>Total Sales          | %      | 67.0  | 66.4  | 65.0  | 67.4  | 68.9  | 70.0  | na    |

Source : Economic Development Board

Notes : Data include all manufacturing establishments.  
Year 2018 data are preliminary estimates.  
The values of fixed assets are at end of year.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14567](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14567)

## 12.3 MANUFACTURING ESTABLISHMENTS BY INDUSTRY

|          |   |              |              |              |              |              |              | Number       |
|----------|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Code     | Industry                                  | 2011         | 2012         | 2013         | 2014         | 2015         | 2016         | 2017         |
| 10/11/12 | Food, Beverages & Tobacco                 | 819          | 864          | 848          | 865          | 847          | 948          | 942          |
| 13       | Textiles                                  | 93           | 99           | 99           | 90           | 89           | 100          | 109          |
| 14       | Wearing Apparel                           | 446          | 446          | 412          | 384          | 362          | 394          | 400          |
| 15       | Leather, Leather Products & Footwear      | 25           | 27           | 23           | 20           | 18           | 15           | 22           |
| 16       | Wood & Wood Products                      | 111          | 145          | 147          | 143          | 135          | 147          | 172          |
| 17       | Paper & Paper Products                    | 100          | 105          | 101          | 99           | 91           | 88           | 94           |
| 18       | Printing & Reproduction of Recorded Media | 815          | 952          | 927          | 911          | 882          | 874          | 852          |
| 19       | Refined Petroleum Products                | 14           | 14           | 14           | 16           | 17           | 17           | 18           |
| 20       | Chemicals & Chemical Products             | 278          | 298          | 284          | 273          | 264          | 282          | 279          |
| 21       | Pharmaceuticals & Biological Products     | 44           | 50           | 49           | 50           | 51           | 53           | 54           |
| 22       | Rubber & Plastic Products                 | 341          | 327          | 305          | 298          | 283          | 279          | 280          |
| 23       | Non-metallic Mineral Products             | 146          | 145          | 141          | 134          | 131          | 130          | 137          |
| 24       | Basic Metals                              | 30           | 34           | 33           | 36           | 36           | 36           | 38           |
| 25       | Fabricated Metal Products                 | 1,273        | 1,357        | 1,323        | 1,291        | 1,252        | 1,246        | 1,221        |
| 26       | Computer, Electronic & Optical Products   | 290          | 326          | 327          | 317          | 313          | 322          | 335          |
| 27       | Electrical Equipment                      | 248          | 258          | 261          | 247          | 230          | 235          | 242          |
| 28       | Machinery & Equipment                     | 1,699        | 1,768        | 1,724        | 1,684        | 1,623        | 1,659        | 1,733        |
| 29       | Motor Vehicles, Trailers & Semi-Trailers  | 73           | 75           | 70           | 65           | 65           | 67           | 89           |
| 30       | Other Transport Equipment                 | 1,006        | 1,112        | 1,073        | 1,058        | 1,002        | 981          | 931          |
| 31       | Furniture                                 | 653          | 655          | 638          | 624          | 608          | 604          | 626          |
| 32       | Other Manufacturing Industries            | 504          | 520          | 504          | 501          | 479          | 511          | 522          |
|          | <b>Total Manufacturing</b>                | <b>9,008</b> | <b>9,577</b> | <b>9,303</b> | <b>9,106</b> | <b>8,778</b> | <b>8,988</b> | <b>9,096</b> |

Source : Economic Development Board

Notes : Data include all manufacturing establishments  
The industries are classified according to the Singapore Standard Industrial Classification 2015.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12406](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12406)

## 12.4 MANUFACTURING OUTPUT IN MANUFACTURING BY INDUSTRY

Million Dollars

| Code     | Industry                                  | 2012             | 2013             | 2014             | 2015             | 2016             | 2017             | 2018             |
|----------|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 10/11/12 | Food, Beverages & Tobacco                 | 9,327.9          | 9,268.7          | 9,607.4          | 9,964.1          | 9,474.1          | 9,872.3          | 9,851.6          |
| 13       | Textiles                                  | 56.9             | 59.0             | 47.8             | 49.4             | 55.6             | 66.3             | 64.0             |
| 14       | Wearing Apparel                           | 539.1            | 443.1            | 313.5            | 220.7            | 191.1            | 196.7            | 200.4            |
| 15       | Leather, Leather Products & Footwear      | 152.7            | 164.4            | 157.0            | 164.9            | 147.8            | 141.2            | 148.8            |
| 16       | Wood & Wood Products                      | 295.5            | 305.0            | 317.2            | 295.1            | 297.8            | 297.9            | 291.7            |
| 17       | Paper & Paper Products                    | 1,013.4          | 1,060.3          | 1,074.5          | 1,053.4          | 1,020.6          | 989.8            | 1,063.8          |
| 18       | Printing & Reproduction of Recorded Media | 2,395.2          | 2,276.4          | 2,295.8          | 2,154.3          | 1,863.0          | 1,732.4          | 1,607.2          |
| 19       | Refined Petroleum Products                | 56,882.4         | 50,505.6         | 45,549.2         | 32,233.9         | 26,793.8         | 35,725.1         | 44,736.0         |
| 20       | Chemicals & Chemical Products             | 39,633.5         | 47,422.5         | 53,176.2         | 42,821.6         | 39,109.6         | 45,481.7         | 52,155.9         |
| 21       | Pharmaceuticals & Biological Products     | 23,288.1         | 16,066.1         | 15,821.1         | 15,984.2         | 16,839.9         | 15,739.4         | 19,013.3         |
| 22       | Rubber & Plastic Products                 | 1,901.1          | 1,847.2          | 1,825.9          | 1,699.7          | 1,699.2          | 1,742.5          | 1,794.8          |
| 23       | Non-metallic Mineral Products             | 2,355.3          | 2,485.4          | 2,045.7          | 1,970.2          | 1,636.7          | 1,505.3          | 1,459.8          |
| 24       | Basic Metals                              | 1,230.8          | 1,025.6          | 1,372.3          | 1,138.4          | 1,091.9          | 1,110.9          | 1,213.0          |
| 25       | Fabricated Metal Products                 | 9,511.6          | 9,325.8          | 9,357.5          | 8,624.3          | 8,032.4          | 7,889.3          | 8,058.9          |
| 26       | Computer, Electronic & Optical Products   | 86,922.5         | 88,991.3         | 84,381.2         | 94,455.9         | 96,332.5         | 123,726.0        | 137,682.5        |
| 27       | Electrical Equipment                      | 2,438.3          | 2,436.0          | 2,600.9          | 2,573.3          | 2,761.2          | 3,070.6          | 3,383.8          |
| 28       | Machinery & Equipment                     | 26,446.3         | 26,847.7         | 30,920.6         | 27,243.7         | 22,458.3         | 26,121.0         | 29,284.5         |
| 29       | Motor Vehicles, Trailers & Semi-Trailers  | 786.8            | 996.1            | 1,053.6          | 1,158.7          | 1,219.5          | 1,419.4          | 1,425.6          |
| 30       | Other Transport Equipment                 | 16,206.7         | 16,548.1         | 16,484.2         | 15,534.0         | 15,741.5         | 15,360.4         | 14,392.0         |
| 31       | Furniture                                 | 885.5            | 960.7            | 897.5            | 876.8            | 811.5            | 872.9            | 750.0            |
| 32       | Other Manufacturing Industries            | 6,009.7          | 6,396.4          | 12,124.3         | 10,903.6         | 11,917.9         | 12,680.7         | 13,513.5         |
|          | <b>Total Manufacturing</b>                | <b>288,279.2</b> | <b>285,431.3</b> | <b>291,423.6</b> | <b>271,120.1</b> | <b>259,495.9</b> | <b>305,741.7</b> | <b>342,091.1</b> |

Source : Economic Development Board

Notes : Data include all manufacturing establishments.  
The industries are classified according to the Singapore Standard Industrial Classification 2015.  
Year 2018 data are preliminary estimates.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12415](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12415)

## 12.5 TOTAL OUTPUT <sup>1</sup> IN MANUFACTURING BY INDUSTRY

Million Dollars

| Code     | Industry                                  | 2012             | 2013             | 2014             | 2015             | 2016             | 2017             | 2018             |
|----------|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 10/11/12 | Food, Beverages & Tobacco                 | 9,817.9          | 9,811.0          | 10,352.0         | 10,598.5         | 10,149.9         | 10,469.9         | 10,398.8         |
| 13       | Textiles                                  | 59.4             | 61.6             | 50.4             | 53.5             | 59.0             | 69.9             | 67.7             |
| 14       | Wearing Apparel                           | 573.9            | 478.1            | 353.7            | 259.1            | 226.9            | 251.8            | 256.6            |
| 15       | Leather, Leather Products & Footwear      | 157.9            | 171.1            | 159.2            | 167.1            | 149.9            | 142.4            | 150.0            |
| 16       | Wood & Wood Products                      | 339.1            | 349.4            | 367.4            | 348.9            | 349.2            | 343.5            | 333.6            |
| 17       | Paper & Paper Products                    | 1,041.5          | 1,103.8          | 1,143.1          | 1,123.8          | 1,086.1          | 1,038.2          | 1,109.5          |
| 18       | Printing & Reproduction of Recorded Media | 2,467.4          | 2,352.4          | 2,376.6          | 2,251.2          | 1,945.6          | 1,796.1          | 1,666.7          |
| 19       | Refined Petroleum Products                | 57,229.4         | 51,027.0         | 46,359.5         | 32,482.8         | 26,987.2         | 35,926.8         | 44,966.3         |
| 20       | Chemicals & Chemical Products             | 41,121.1         | 50,019.7         | 55,340.4         | 44,916.5         | 41,209.9         | 47,943.8         | 54,849.6         |
| 21       | Pharmaceuticals & Biological Products     | 25,121.1         | 16,920.2         | 16,891.3         | 16,721.2         | 17,744.8         | 17,109.0         | 21,155.1         |
| 22       | Rubber & Plastic Products                 | 2,061.8          | 2,020.2          | 2,011.2          | 1,857.1          | 1,854.9          | 1,905.8          | 1,958.9          |
| 23       | Non-metallic Mineral Products             | 2,500.9          | 2,630.6          | 2,168.2          | 2,121.4          | 1,741.0          | 1,561.7          | 1,515.0          |
| 24       | Basic Metals                              | 1,255.2          | 1,044.9          | 1,387.4          | 1,161.5          | 1,108.4          | 1,128.8          | 1,233.2          |
| 25       | Fabricated Metal Products                 | 9,822.9          | 9,639.6          | 9,653.7          | 8,920.4          | 8,307.3          | 8,153.2          | 8,329.3          |
| 26       | Computer, Electronic & Optical Products   | 91,861.8         | 93,938.2         | 89,463.6         | 98,625.4         | 99,797.9         | 128,145.5        | 142,723.0        |
| 27       | Electrical Equipment                      | 2,661.5          | 2,666.4          | 2,768.5          | 2,712.9          | 2,895.3          | 3,202.3          | 3,499.9          |
| 28       | Machinery & Equipment                     | 28,403.5         | 28,987.1         | 33,905.2         | 30,561.1         | 27,020.9         | 31,388.8         | 35,838.7         |
| 29       | Motor Vehicles, Trailers & Semi-Trailers  | 808.6            | 1,021.7          | 1,089.2          | 1,178.6          | 1,237.8          | 1,432.5          | 1,438.5          |
| 30       | Other Transport Equipment                 | 17,135.8         | 17,557.3         | 17,554.6         | 16,637.2         | 16,724.1         | 16,304.4         | 15,286.8         |
| 31       | Furniture                                 | 1,010.6          | 1,300.5          | 968.9            | 917.4            | 856.6            | 912.5            | 793.1            |
| 32       | Other Manufacturing Industries            | 6,099.4          | 6,522.9          | 12,277.8         | 11,075.6         | 12,080.5         | 12,890.8         | 13,789.7         |
|          | <b>Total Manufacturing</b>                | <b>301,550.7</b> | <b>299,623.8</b> | <b>306,641.8</b> | <b>284,691.2</b> | <b>273,533.2</b> | <b>322,117.7</b> | <b>361,359.9</b> |

Source : Economic Development Board

Notes : Data include all manufacturing establishments.  
The industries are classified according to the Singapore Standard Industrial Classification 2015.  
Year 2018 data are preliminary estimates.

<sup>1</sup> Refers to manufacturing output and other operating income.

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## 12.6 VALUE ADDED OF MANUFACTURING ESTABLISHMENTS BY INDUSTRY

Million Dollars

| Code     | Industry                                  | 2012            | 2013            | 2014            | 2015            | 2016            | 2017            | 2018            |
|----------|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 10/11/12 | Food, Beverages & Tobacco                 | 2,946.0         | 2,877.5         | 3,413.6         | 3,763.0         | 3,780.2         | 3,987.3         | 3,824.2         |
| 13       | Textiles                                  | 21.6            | 21.4            | 17.7            | 21.1            | 23.3            | 26.6            | 25.9            |
| 14       | Wearing Apparel                           | 124.7           | 109.8           | 93.3            | 91.8            | 80.7            | 96.7            | 102.4           |
| 15       | Leather, Leather Products & Footwear      | 57.0            | 70.3            | 64.1            | 62.5            | 58.7            | 44.9            | 46.0            |
| 16       | Wood & Wood Products                      | 120.9           | 123.5           | 132.8           | 130.2           | 132.9           | 145.9           | 143.4           |
| 17       | Paper & Paper Products                    | 219.2           | 242.0           | 251.7           | 238.6           | 232.1           | 240.6           | 244.1           |
| 18       | Printing & Reproduction of Recorded Media | 1,236.2         | 1,196.2         | 1,207.0         | 1,133.2         | 1,000.1         | 902.9           | 823.8           |
| 19       | Refined Petroleum Products                | 725.9           | 57.1            | 32.6            | 2,412.0         | 2,034.3         | 1,874.1         | 1,343.3         |
| 20       | Chemicals & Chemical Products             | 3,298.7         | 5,200.6         | 5,620.5         | 7,992.9         | 12,391.5        | 12,191.2        | 11,621.0        |
| 21       | Pharmaceuticals & Biological Products     | 14,235.5        | 9,031.9         | 9,506.2         | 10,417.2        | 11,051.7        | 9,442.7         | 12,521.3        |
| 22       | Rubber & Plastic Products                 | 688.7           | 701.4           | 720.4           | 708.3           | 727.2           | 744.1           | 746.6           |
| 23       | Non-metallic Mineral Products             | 584.3           | 539.2           | 434.1           | 391.2           | 354.0           | 268.6           | 250.0           |
| 24       | Basic Metals                              | 214.9           | 157.7           | 126.9           | 163.3           | 178.2           | 180.6           | 178.6           |
| 25       | Fabricated Metal Products                 | 2,763.3         | 2,799.3         | 2,776.0         | 2,665.0         | 2,582.8         | 2,454.6         | 2,443.4         |
| 26       | Computer, Electronic & Optical Products   | 18,909.8        | 19,394.5        | 20,001.3        | 21,218.2        | 17,850.7        | 27,615.9        | 44,007.5        |
| 27       | Electrical Equipment                      | 756.1           | 826.5           | 806.5           | 813.8           | 855.2           | 888.5           | 896.3           |
| 28       | Machinery & Equipment                     | 6,688.9         | 7,296.5         | 8,623.1         | 7,226.8         | 6,571.9         | 7,364.6         | 9,181.3         |
| 29       | Motor Vehicles, Trailers & Semi-Trailers  | 206.9           | 347.3           | 356.0           | 351.6           | 397.5           | 492.8           | 474.8           |
| 30       | Other Transport Equipment                 | 5,929.1         | 6,268.8         | 6,386.3         | 5,892.3         | 5,627.6         | 5,617.8         | 5,852.7         |
| 31       | Furniture                                 | 347.4           | 476.1           | 343.5           | 311.9           | 323.2           | 351.8           | 294.6           |
| 32       | Other Manufacturing Industries            | 2,113.9         | 2,304.6         | 2,834.1         | 2,996.7         | 3,790.0         | 4,128.6         | 4,906.9         |
|          | <b>Total Manufacturing</b>                | <b>62,189.1</b> | <b>60,041.8</b> | <b>63,747.6</b> | <b>69,001.5</b> | <b>70,043.6</b> | <b>79,060.9</b> | <b>99,928.3</b> |

Source : Economic Development Board

Notes : Data include all manufacturing establishments.  
The industries are classified according to the Singapore Standard Industrial Classification 2015.  
Year 2018 data are preliminary estimates.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12363](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12363)

## 12.7 WORKERS IN MANUFACTURING BY INDUSTRY

|          |   |                |                |                |                |                |                | Number         |
|----------|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Code     | Industry                                  | 2012           | 2013           | 2014           | 2015           | 2016           | 2017           | 2018           |
| 10/11/12 | Food, Beverages & Tobacco                 | 28,950         | 29,350         | 30,105         | 30,550         | 29,627         | 31,222         | 30,827         |
| 13       | Textiles                                  | 719            | 717            | 722            | 688            | 686            | 829            | 829            |
| 14       | Wearing Apparel                           | 3,188          | 2,950          | 2,203          | 2,106          | 1,985          | 2,206          | 2,217          |
| 15       | Leather, Leather Products & Footwear      | 663            | 673            | 625            | 605            | 480            | 478            | 488            |
| 16       | Wood & Wood Products                      | 2,523          | 2,718          | 2,769          | 2,516          | 2,570          | 2,954          | 2,918          |
| 17       | Paper & Paper Products                    | 3,670          | 3,587          | 3,638          | 3,556          | 3,326          | 3,207          | 3,217          |
| 18       | Printing & Reproduction of Recorded Media | 15,821         | 15,440         | 15,740         | 15,388         | 13,831         | 13,165         | 12,445         |
| 19       | Refined Petroleum Products                | 3,754          | 4,073          | 4,302          | 4,404          | 4,369          | 4,448          | 4,487          |
| 20       | Chemicals & Chemical Products             | 17,510         | 18,607         | 18,536         | 18,217         | 18,101         | 18,537         | 18,337         |
| 21       | Pharmaceuticals & Biological Products     | 5,142          | 5,339          | 6,096          | 6,624          | 6,943          | 7,715          | 7,917          |
| 22       | Rubber & Plastic Products                 | 12,350         | 11,751         | 11,249         | 10,494         | 9,859          | 10,135         | 10,730         |
| 23       | Non-metallic Mineral Products             | 6,870          | 6,835          | 5,247          | 4,768          | 4,754          | 4,667          | 4,369          |
| 24       | Basic Metals                              | 2,631          | 2,642          | 2,618          | 2,644          | 2,199          | 2,072          | 1,825          |
| 25       | Fabricated Metal Products                 | 43,847         | 42,998         | 41,871         | 40,073         | 39,295         | 37,178         | 36,659         |
| 26       | Computer, Electronic & Optical Products   | 91,398         | 87,062         | 82,494         | 81,637         | 79,660         | 82,153         | 83,073         |
| 27       | Electrical Equipment                      | 7,771          | 8,008          | 7,935          | 7,982          | 8,194          | 8,316          | 8,311          |
| 28       | Machinery & Equipment                     | 69,160         | 73,457         | 73,059         | 69,736         | 61,399         | 58,676         | 65,233         |
| 29       | Motor Vehicles, Trailers & Semi-Trailers  | 2,799          | 2,786          | 2,876          | 2,848          | 2,865          | 3,068          | 3,129          |
| 30       | Other Transport Equipment                 | 82,281         | 80,055         | 78,803         | 73,330         | 68,426         | 63,063         | 56,733         |
| 31       | Furniture                                 | 9,579          | 10,524         | 8,926          | 8,015          | 8,005          | 8,450          | 7,996          |
| 32       | Other Manufacturing Industries            | 13,996         | 14,933         | 16,592         | 17,105         | 18,152         | 18,589         | 18,803         |
|          | <b>Total Manufacturing</b>                | <b>424,622</b> | <b>424,505</b> | <b>416,406</b> | <b>403,286</b> | <b>384,726</b> | <b>381,128</b> | <b>380,543</b> |

Source : Economic Development Board

Notes : Data include all manufacturing establishments.  
The industries are classified according to the Singapore Standard Industrial Classification 2015.  
Year 2018 data are preliminary estimates.

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## 12.8 REMUNERATION IN MANUFACTURING BY INDUSTRY

Million Dollars

| Code     | Industry                                  | 2012            | 2013            | 2014            | 2015            | 2016            | 2017            | 2018            |
|----------|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 10/11/12 | Food, Beverages & Tobacco                 | 993.1           | 1,066.2         | 1,146.0         | 1,208.1         | 1,189.6         | 1,271.3         | 1,251.1         |
| 13       | Textiles                                  | 16.6            | 15.9            | 19.9            | 16.5            | 15.8            | 20.9            | 20.7            |
| 14       | Wearing Apparel                           | 72.0            | 69.4            | 58.1            | 64.4            | 56.6            | 54.9            | 56.9            |
| 15       | Leather, Leather Products & Footwear      | 25.4            | 29.7            | 27.8            | 28.1            | 24.7            | 24.6            | 25.6            |
| 16       | Wood & Wood Products                      | 75.9            | 79.7            | 81.5            | 80.6            | 83.5            | 83.9            | 82.7            |
| 17       | Paper & Paper Products                    | 155.6           | 159.0           | 167.1           | 167.0           | 160.8           | 152.9           | 154.8           |
| 18       | Printing & Reproduction of Recorded Media | 713.8           | 677.6           | 747.4           | 735.2           | 685.2           | 656.3           | 620.6           |
| 19       | Refined Petroleum Products                | 579.6           | 580.8           | 800.3           | 866.4           | 752.2           | 766.0           | 791.8           |
| 20       | Chemicals & Chemical Products             | 1,454.2         | 1,682.0         | 1,763.1         | 1,800.4         | 1,845.9         | 1,897.2         | 1,913.6         |
| 21       | Pharmaceuticals & Biological Products     | 492.0           | 528.7           | 621.4           | 692.8           | 710.8           | 863.1           | 942.7           |
| 22       | Rubber & Plastic Products                 | 438.8           | 446.1           | 441.6           | 426.7           | 423.8           | 431.3           | 463.2           |
| 23       | Non-metallic Mineral Products             | 236.5           | 245.4           | 195.4           | 184.8           | 173.2           | 169.2           | 162.9           |
| 24       | Basic Metals                              | 111.4           | 109.9           | 120.3           | 113.1           | 98.9            | 95.4            | 87.2            |
| 25       | Fabricated Metal Products                 | 1,564.4         | 1,625.9         | 1,640.7         | 1,581.9         | 1,575.8         | 1,508.6         | 1,514.7         |
| 26       | Computer, Electronic & Optical Products   | 4,925.6         | 5,065.6         | 5,140.7         | 5,240.9         | 5,191.3         | 5,492.9         | 5,652.8         |
| 27       | Electrical Equipment                      | 379.0           | 400.9           | 414.3           | 408.7           | 426.9           | 454.1           | 459.6           |
| 28       | Machinery & Equipment                     | 3,341.5         | 3,628.0         | 3,986.5         | 3,842.0         | 3,308.4         | 3,266.4         | 3,496.0         |
| 29       | Motor Vehicles, Trailers & Semi-Trailers  | 138.4           | 138.5           | 143.0           | 140.3           | 146.0           | 151.1           | 160.8           |
| 30       | Other Transport Equipment                 | 3,159.9         | 3,236.7         | 3,266.4         | 3,058.1         | 3,002.1         | 2,797.1         | 2,638.3         |
| 31       | Furniture                                 | 247.2           | 306.2           | 252.2           | 220.6           | 233.6           | 263.6           | 237.9           |
| 32       | Other Manufacturing Industries            | 573.2           | 629.3           | 772.5           | 801.2           | 890.4           | 984.2           | 1,025.8         |
|          | <b>Total Manufacturing</b>                | <b>19,694.2</b> | <b>20,721.7</b> | <b>21,805.9</b> | <b>21,678.0</b> | <b>20,995.5</b> | <b>21,404.9</b> | <b>21,759.7</b> |

Source : Economic Development Board

Notes : Data include all manufacturing establishments.  
The industries are classified according to the Singapore Standard Industrial Classification 2015.  
Year 2018 data are preliminary estimates.

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## 12.9 INDEX OF INDUSTRIAL PRODUCTION

(2015 = 100)

| Code     | Industry                                  | 2012         | 2013         | 2014         | 2015         | 2016         | 2017         | 2018         |
|----------|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 10/11/12 | Food, Beverages & Tobacco                 | 97.9         | 97.9         | 99.4         | 100.0        | 103.7        | 110.4        | 113.8        |
| 13       | Textiles                                  | 140.1        | 119.5        | 102.7        | 100.0        | 92.4         | 84.9         | 78.2         |
| 14       | Wearing Apparel                           | 395.4        | 334.1        | 212.6        | 100.0        | 83.4         | 88.2         | 82.7         |
| 15       | Leather Products                          | 109.5        | 122.0        | 106.5        | 100.0        | 88.8         | 79.0         | 73.7         |
| 16       | Wood & of Products of Wood & Cork         | 93.3         | 103.0        | 107.2        | 100.0        | 95.0         | 92.9         | 86.0         |
| 17       | Paper & Paper Products                    | 98.5         | 104.4        | 104.5        | 100.0        | 97.3         | 96.2         | 103.0        |
| 18       | Printing & Reproduction of Recorded Media | 122.8        | 113.8        | 106.0        | 100.0        | 85.1         | 73.1         | 66.7         |
| 19       | Refined Petroleum Products                | 107.1        | 100.7        | 92.2         | 100.0        | 104.2        | 113.5        | 113.0        |
| 20       | Chemicals & Chemical Products             | 85.3         | 88.4         | 96.7         | 100.0        | 98.9         | 105.3        | 110.6        |
| 21       | Pharmaceuticals & Biological Products     | 103.8        | 101.4        | 109.4        | 100.0        | 113.8        | 97.5         | 105.1        |
| 22       | Rubber & Plastic Products                 | 113.5        | 109.5        | 109.2        | 100.0        | 91.4         | 93.7         | 92.2         |
| 23       | Non-metallic Mineral Products             | 108.8        | 107.4        | 90.8         | 100.0        | 89.8         | 72.8         | 64.1         |
| 24       | Basic Metals                              | 91.5         | 77.2         | 99.3         | 100.0        | 106.2        | 108.3        | 94.8         |
| 25       | Fabricated Metal Products                 | 107.3        | 107.5        | 107.8        | 100.0        | 93.8         | 91.3         | 91.5         |
| 26       | Computer, Electronic & Optical Products   | 100.7        | 105.0        | 105.6        | 100.0        | 114.1        | 151.7        | 164.1        |
| 27       | Electrical Equipment                      | 80.1         | 87.4         | 97.9         | 100.0        | 101.5        | 111.7        | 125.3        |
| 28       | Machinery & Equipment                     | 107.3        | 109.1        | 118.2        | 100.0        | 80.8         | 86.1         | 98.3         |
| 29       | Motor Vehicles, Trailers & Semi-Trailers  | 69.2         | 85.0         | 91.1         | 100.0        | 105.3        | 125.3        | 121.0        |
| 30       | Other Transport Equipment                 | 109.9        | 111.1        | 106.7        | 100.0        | 101.0        | 99.3         | 102.3        |
| 31       | Furniture                                 | 131.0        | 127.9        | 113.5        | 100.0        | 94.9         | 68.0         | 63.9         |
| 32       | Other Manufacturing Industries            | 73.0         | 79.5         | 84.8         | 100.0        | 110.4        | 121.3        | 133.7        |
|          | <b>Total Manufacturing</b>                | <b>101.0</b> | <b>102.7</b> | <b>105.4</b> | <b>100.0</b> | <b>103.7</b> | <b>114.5</b> | <b>122.5</b> |

Source : Economic Development Board

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

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## 12.10 UNIT BUSINESS COST INDEX OF MANUFACTURING

(2015 = 100)

|   | 2012 | 2013  | 2014  | 2015  | 2016 | 2017  | 2018 |
|---|------|-------|-------|-------|------|-------|------|
| Unit Business Cost Index of Manufacturing | 95.6 | 101.3 | 99.6  | 100.0 | 98.4 | 98.3  | 91.9 |
| Unit Labour Cost                          | 88.6 | 91.2  | 94.1  | 100.0 | 95.5 | 87.1  | 83.8 |
| Unit Services Cost                        | 98.3 | 105.2 | 101.6 | 100.0 | 99.5 | 102.6 | 95.0 |
| Unit Non-Labour Production Taxes          | 86.2 | 94.0  | 103.3 | 100.0 | 96.7 | 89.2  | 82.9 |

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13



# Building, Real Estate, Construction and Housing

# 13

# Building, Real Estate, Construction and Housing



## Building, Real Estate and Construction

Building construction refers to the erection of new buildings and additions or alterations to existing buildings, but 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 approvals, 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 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.

**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, 2018



Gross Floor Area ('000 m<sup>2</sup>)



<sup>1</sup> Exclude 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 for 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 [J-SPACE](#), JTC's industrial property statistics portal.

## Public Housing

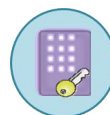
The Housing and Development Board (HDB) was established on 1 February 1960 as the public housing authority of Singapore. HDB's mission is to provide affordable homes of quality and value, create vibrant and sustainable towns, and promote the building of active and cohesive communities. HDB also develops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

In 2018, 17,556 flats were completed, bringing the total number of flats built since HDB's inception to 1,182,002.



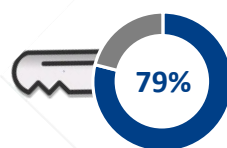
**17,556** flats were constructed in 2018

Introduced in 1964, the Home Ownership Scheme for the People Scheme enables citizens to acquire homes through the purchase of HDB flats. In 2018, 22,106 flats were sold under this scheme.



**22,106** flats were sold under the Home Ownership Scheme in 2018

In 2018, about 79 per cent of the resident population lived in Home Ownership flats.



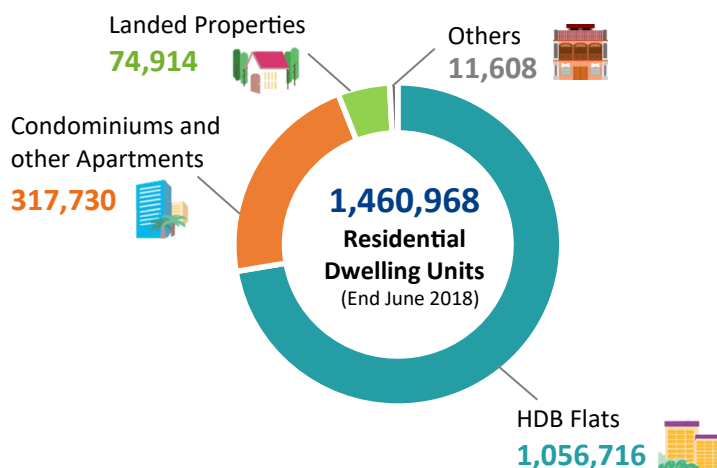
**79%** of the resident population lived in Home Ownership flats in 2018

Between 1989 and 2018, HDB sold 244 land parcels (308 hectares) for private residential development and 46 land parcels (51 hectares) for commercial development. A total of 70 Executive Condominium sites (142 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 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, 2018



## 13.1 AVAILABLE AND VACANT PRIVATE RESIDENTIAL PROPERTIES

(End of Period)

| Type of Property | Number of Units |         |         |         |         |         |         |
|------------------|-----------------|---------|---------|---------|---------|---------|---------|
|                  | 2012            | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
| All Types        |                 |         |         |         |         |         |         |
| Available        | 277,620         | 289,370 | 308,814 | 327,448 | 348,080 | 364,295 | 369,991 |
| Vacant           | 14,869          | 18,003  | 24,062  | 26,517  | 29,197  | 28,560  | 23,596  |
| Landed           |                 |         |         |         |         |         |         |
| Available        | 70,388          | 71,049  | 71,540  | 71,992  | 72,595  | 72,761  | 73,139  |
| Vacant           | 2,285           | 2,439   | 2,406   | 2,553   | 3,008   | 3,190   | 3,317   |
| Non-landed       |                 |         |         |         |         |         |         |
| Available        | 207,232         | 218,321 | 237,274 | 255,456 | 275,485 | 291,534 | 296,852 |
| Vacant           | 12,584          | 15,564  | 21,656  | 23,964  | 26,189  | 25,370  | 20,279  |

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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15152](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15152)

## 13.2 SUPPLY OF PRIVATE RESIDENTIAL PROPERTIES IN THE PIPELINE BY DEVELOPMENT STATUS (End of Period)

|                              | Number of Units |        |        |        |        |        |        |
|------------------------------|-----------------|--------|--------|--------|--------|--------|--------|
|                              | 2012            | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
| <b>Landed Properties</b>     |                 |        |        |        |        |        |        |
| Total                        | 3,860           | 3,477  | 2,909  | 2,292  | 1,352  | 1,234  | 1,000  |
| Under Construction           | 2,316           | 1,922  | 1,832  | 1,480  | 1,075  | 901    | 662    |
| Planned                      |                 |        |        |        |        |        |        |
| Written Permission           | 1,105           | 1,044  | 992    | 728    | 178    | 181    | 149    |
| Provisional Permission       | 278             | 332    | 77     | 57     | 38     | 33     | 189    |
| Others <sup>1</sup>          | 161             | 179    | 8      | 27     | 61     | 119    | 0      |
| <b>Non-Landed Properties</b> |                 |        |        |        |        |        |        |
| Total                        | 92,370          | 86,541 | 72,279 | 57,867 | 47,016 | 49,618 | 56,602 |
| Under Construction           | 58,226          | 65,843 | 57,464 | 47,000 | 33,439 | 22,573 | 27,061 |
| Planned                      |                 |        |        |        |        |        |        |
| Written Permission           | 13,755          | 9,070  | 6,047  | 2,930  | 3,546  | 3,560  | 9,397  |
| Provisional Permission       | 10,795          | 5,491  | 2,548  | 3,443  | 2,637  | 8,781  | 14,040 |
| Others <sup>1</sup>          | 9,594           | 6,137  | 6,220  | 4,494  | 7,394  | 14,704 | 6,104  |

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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15150](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15150)

## 13.3 APPROVAL, CONSTRUCTION COMMENCEMENT AND COMPLETION OF PRIVATE RESIDENTIAL PROPERTIES

|                        | Number of Units |        |        |        |        |        |        |
|------------------------|-----------------|--------|--------|--------|--------|--------|--------|
|                        | 2012            | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
| Provisional Permission | 23,642          | 13,897 | 5,668  | 6,262  | 6,532  | 11,761 | 25,692 |
| Written Permission     | 18,441          | 18,034 | 8,454  | 5,438  | 7,452  | 5,103  | 20,227 |
| Building Plan Approval | 19,702          | 19,593 | 9,275  | 7,073  | 7,132  | 4,072  | 20,028 |
| Building Commencement  | 21,395          | 20,357 | 11,571 | 8,082  | 6,918  | 5,397  | 13,121 |
| Building Completion    | 10,329          | 13,150 | 19,941 | 18,971 | 20,803 | 16,449 | 9,112  |

Source : Urban Redevelopment Authority

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

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15171](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15171)

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

|                              | Number of Units |        |        |        |        |        |        |
|------------------------------|-----------------|--------|--------|--------|--------|--------|--------|
|                              | 2012            | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
| Executive Condominiums       |                 |        |        |        |        |        |        |
| Available                    | 10,430          | 11,683 | 15,040 | 18,336 | 23,821 | 27,940 | 32,070 |
| Vacant                       | 42              | 1,107  | 1,734  | 1,540  | 3,364  | 3,080  | 1,983  |
| Supply by Development Status |                 |        |        |        |        |        |        |
| Total                        | 15,966          | 18,985 | 17,948 | 15,794 | 10,270 | 7,414  | 4,914  |
| Under Construction           | 8,036           | 11,775 | 13,065 | 14,127 | 9,635  | 6,144  | 2,014  |
| Planned                      |                 |        |        |        |        |        |        |
| Written Permission           | 1,747           | 0      | 0      | 0      | 0      | 0      | 0      |
| Provisional Permission       | 418             | 2,265  | 1,155  | 0      | 0      | 0      | 820    |
| Others <sup>1</sup>          | 5,765           | 4,945  | 3,728  | 1,667  | 635    | 1,270  | 2,080  |

Source : Urban Redevelopment Authority

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

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15168](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15168)



## 13.5 AVAILABLE AND VACANT COMMERCIAL AND INDUSTRIAL PROPERTIES

(End of Period)

Thousand Square Metres Nett

|                             | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
|-----------------------------|--------|--------|--------|--------|--------|--------|--------|
| Private Sector              |        |        |        |        |        |        |        |
| Office Space                |        |        |        |        |        |        |        |
| Available                   | 6,014  | 6,190  | 6,283  | 6,276  | 6,464  | 6,672  | 6,828  |
| Vacant                      | 619    | 666    | 704    | 634    | 783    | 917    | 900    |
| Retail Space <sup>1</sup>   |        |        |        |        |        |        |        |
| Available                   | 4,061  | 4,182  | 4,348  | 4,409  | 4,502  | 4,533  | 4,612  |
| Vacant                      | 239    | 209    | 283    | 358    | 382    | 368    | 441    |
| Business Park Space         |        |        |        |        |        |        |        |
| Available                   | 1,271  | 1,275  | 1,389  | 1,579  | 1,813  | 1,812  | 1,852  |
| Vacant                      | 277    | 228    | 262    | 258    | 339    | 259    | 286    |
| Multiple-User Factory Space |        |        |        |        |        |        |        |
| Available                   | 7,650  | 7,963  | 8,459  | 8,860  | 8,991  | 9,270  | 9,538  |
| Vacant                      | 837    | 1,024  | 1,188  | 1,214  | 1,177  | 1,140  | 1,202  |
| Single-User Factory Space   |        |        |        |        |        |        |        |
| Available                   | 18,083 | 18,842 | 19,410 | 19,918 | 20,828 | 21,276 | 20,991 |
| Vacant                      | 955    | 1,173  | 1,455  | 1,621  | 2,009  | 2,205  | 1,815  |
| Warehouse Space             |        |        |        |        |        |        |        |
| Available                   | 7,328  | 7,643  | 8,317  | 8,789  | 9,418  | 10,381 | 10,451 |
| Vacant                      | 520    | 706    | 682    | 756    | 973    | 1,136  | 1,109  |

*(continued on the next page)*

Sources : Urban Redevelopment Authority

JTC Corporation (With effect from 2013, for data pertaining to Business Park, 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".

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15146](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15146)

## 13.5 AVAILABLE AND VACANT COMMERCIAL AND INDUSTRIAL PROPERTIES *(continued)*

(End of Period)

Thousand Square Metres Nett

|                             | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|
| Public Sector               |       |       |       |       |       |       |       |
| Office Space                |       |       |       |       |       |       |       |
| Available                   | 1,256 | 1,251 | 1,270 | 1,283 | 1,266 | 1,252 | 1,254 |
| Vacant                      | 63    | 67    | 69    | 83    | 78    | 78    | 81    |
| Retail Space <sup>1</sup>   |       |       |       |       |       |       |       |
| Available                   | 1,518 | 1,516 | 1,566 | 1,562 | 1,544 | 1,542 | 1,557 |
| Vacant                      | 39    | 45    | 61    | 73    | 72    | 80    | 82    |
| Business Park Space         |       |       |       |       |       |       |       |
| Available                   | 277   | 277   | 352   | 338   | 327   | 330   | 333   |
| Vacant                      | 18    | 19    | 90    | 47    | 25    | 29    | 44    |
| Multiple-User Factory Space |       |       |       |       |       |       |       |
| Available                   | 1,369 | 1,394 | 1,428 | 1,477 | 1,582 | 1,809 | 1,788 |
| Vacant                      | 34    | 43    | 78    | 108   | 170   | 351   | 322   |
| Single-User Factory Space   |       |       |       |       |       |       |       |
| Available                   | 3,406 | 3,397 | 3,393 | 3,401 | 3,272 | 3,293 | 3,585 |
| Vacant                      | 102   | 135   | 154   | 176   | 179   | 213   | 417   |
| Warehouse Space             |       |       |       |       |       |       |       |
| Available                   | 47    | 93    | 95    | 97    | 52    | 52    | 228   |
| Vacant                      | 0     | 2     | 4     | 9     | 3     | 4     | 9     |

Sources : Urban Redevelopment Authority

JTC Corporation (With effect from 2013, for data pertaining to Business Park, 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".

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15146](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15146)

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

(Private and Public Sectors)  
(End of Period)

|   | Thousand Square Metres Gross |       |       |       |      |      |      |
|---|------------------------------|-------|-------|-------|------|------|------|
|   | 2012                         | 2013  | 2014  | 2015  | 2016 | 2017 | 2018 |
| <b>Office Space</b>                     |                              |       |       |       |      |      |      |
| Total                                   | 1,276                        | 1,123 | 1,056 | 1,049 | 887  | 785  | 857  |
| Under Construction                      | 970                          | 800   | 814   | 715   | 617  | 501  | 632  |
| Planned                                 |                              |       |       |       |      |      |      |
| Written Permission                      | 149                          | 171   | 54    | 125   | 90   | 44   | 57   |
| Provisional Permission                  | 41                           | 32    | 40    | 153   | 79   | 52   | 43   |
| Others <sup>1</sup>                     | 116                          | 120   | 148   | 56    | 101  | 188  | 125  |
| <b>Retail Space <sup>2</sup></b>        |                              |       |       |       |      |      |      |
| Total                                   | 980                          | 1,002 | 852   | 834   | 616  | 555  | 453  |
| Under Construction                      | 707                          | 660   | 510   | 610   | 482  | 449  | 312  |
| Planned                                 |                              |       |       |       |      |      |      |
| Written Permission                      | 113                          | 95    | 191   | 56    | 81   | 23   | 29   |
| Provisional Permission                  | 75                           | 198   | 84    | 142   | 32   | 37   | 46   |
| Others <sup>1</sup>                     | 85                           | 49    | 67    | 26    | 21   | 46   | 66   |
| <b>Business Park Space <sup>3</sup></b> |                              |       |       |       |      |      |      |
| Total                                   | 606                          | 624   | 398   | 191   | 29   | 212  | 266  |
| Under Construction                      | 428                          | 403   | 349   | 187   | 29   | 86   | 266  |
| Planned <sup>4</sup>                    |                              |       |       |       |      |      |      |
| Written Permission                      | na                           | 10    | 49    | 0     | 0    | 0    | 0    |
| Provisional Permission                  | na                           | 211   | 0     | 4     | 0    | 63   | 0    |
| Others                                  | na                           | 0     | 0     | 0     | 0    | 63   | 0    |

*(continued on the next page)*

Sources : Urban Redevelopment Authority

JTC Corporation (With effect from 2013, for data pertaining to Business Park, 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".
- 3 Data refer to the total supply of industrial space under construction or planned for development. Data cover the supply of industrial space from new development and redevelopment projects, which comprise: i. projects with Provisional Permission, Outline Provisional Permission and/or Written Permission; ii. developments submitted for planning approval and which are under consideration; iii. projects on awarded Government Land Sales (GLS) and Concept and Price Tender (CPT) sites for which plans have not been submitted for planning approval; and iv. planned projects in the GLS (which refer to sites on the GLS confirmed list and sites on the GLS reserve list that have been triggered) and CPT sites launched for tender.
- 4 Data breakdown by Written Permission, Provisional Permission and Others are available with effect from 2013.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15148](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15148)

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

(Private and Public Sectors) (continued)  
(End of Period)

|   | Thousand Square Metres Gross |       |       |       |       |       |       |
|---|------------------------------|-------|-------|-------|-------|-------|-------|
|   | 2012                         | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
| <b>Multiple-User Factory Space <sup>3</sup></b> |                              |       |       |       |       |       |       |
| Total   | na                           | 2,230 | 1,938 | 1,951 | 1,497 | 1,337 | 1,700 |
| Under Construction                              | 1,275                        | 1,262 | 1,218 | 1,360 | 1,281 | 957   | 922   |
| Planned <sup>4</sup>                            |                              |       |       |       |       |       |       |
| Written Permission                              | na                           | 95    | 92    | 15    | 19    | 100   | 355   |
| Provisional Permission                          | na                           | 234   | 186   | 522   | 129   | 280   | 336   |
| Others  | na                           | 639   | 442   | 53    | 67    | 0     | 87    |
| <b>Single-User Factory Space <sup>3</sup></b>   |                              |       |       |       |       |       |       |
| Total   | na                           | 2,299 | 2,294 | 2,106 | 1,724 | 1,523 | 2,215 |
| Under Construction                              | 1,697                        | 1,599 | 1,507 | 1,505 | 1,071 | 949   | 1,515 |
| Planned <sup>4</sup>                            |                              |       |       |       |       |       |       |
| Written Permission                              | na                           | 426   | 320   | 318   | 323   | 279   | 232   |
| Provisional Permission                          | na                           | 239   | 267   | 123   | 177   | 114   | 413   |
| Others  | na                           | 35    | 199   | 161   | 154   | 181   | 56    |
| <b>Warehouse Space <sup>3</sup></b>             |                              |       |       |       |       |       |       |
| Total   | 1,320                        | 1,589 | 1,377 | 1,589 | 1,144 | 741   | 627   |
| Under Construction                              | 1,147                        | 1,169 | 1,162 | 1,339 | 1,094 | 577   | 592   |
| Planned   |                              |       |       |       |       |       |       |
| Written Permission                              | 30                           | 34    | 20    | 57    | 16    | 32    | 18    |
| Provisional Permission                          | 12                           | 371   | 195   | 189   | 32    | 130   | 15    |
| Others  | 131                          | 15    | 0     | 4     | 2     | 2     | 2     |

Sources : Urban Redevelopment Authority

JTC Corporation (With effect from 2013, for data pertaining to Business Park, 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".
- 3 Data refer to the total supply of industrial space under construction or planned for development. Data cover the supply of industrial space from new development and redevelopment projects, which comprise: i. projects with Provisional Permission, Outline Provisional Permission and/or Written Permission; ii. developments submitted for planning approval and which are under consideration; iii. projects on awarded Government Land Sales (GLS) and Concept and Price Tender (CPT) sites for which plans have not been submitted for planning approval; and iv. planned projects in the GLS (which refer to sites on the GLS confirmed list and sites on the GLS reserve list that have been triggered) and CPT sites launched for tender.
- 4 Data breakdown by Written Permission, Provisional Permission and Others are available with effect from 2013.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15148](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15148)

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

(Private and Public Sectors)

|                        | Thousand Square Metre Gross |      |      |      |      |      |      |
|------------------------|-----------------------------|------|------|------|------|------|------|
|                        | 2012                        | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Office Space           |                             |      |      |      |      |      |      |
| Provisional Permission | 447                         | 124  | 111  | 192  | 79   | 149  | 366  |
| Written Permission     | 130                         | 475  | 123  | 91   | 150  | 107  | 314  |
| Building Plan Approval | 372                         | 473  | 88   | 176  | 119  | 46   | 272  |
| Building Commencement  | 578                         | 80   | 186  | 11   | 154  | 223  | 318  |
| Building Completion    | 218                         | 228  | 225  | 93   | 240  | 315  | 183  |
| Retail Space           |                             |      |      |      |      |      |      |
| Provisional Permission | 192                         | 296  | 121  | 180  | 52   | 51   | 86   |
| Written Permission     | 269                         | 201  | 260  | 123  | 131  | 52   | 57   |
| Building Plan Approval | 198                         | 280  | 171  | 142  | 144  | 18   | 43   |
| Building Commencement  | 237                         | 155  | 126  | 225  | 132  | 97   | 66   |
| Building Completion    | 92                          | 186  | 238  | 130  | 185  | 184  | 165  |

Sources : Urban Redevelopment Authority

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15157](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15157)

## 13.8 CONTRACTS AWARDED BY SECTOR AND DEVELOPMENT TYPE

Million Dollars

| Development Type       | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
|------------------------|--------|--------|--------|--------|--------|--------|--------|
| All Sectors            |        |        |        |        |        |        |        |
| Total                  | 30,761 | 35,804 | 38,757 | 27,034 | 26,404 | 24,799 | 30,535 |
| Building Work          | 25,951 | 28,863 | 28,854 | 21,560 | 17,430 | 15,453 | 21,072 |
| Residential            | 11,846 | 15,963 | 11,291 | 7,770  | 6,479  | 6,250  | 9,019  |
| Commercial             | 2,990  | 3,728  | 3,823  | 2,184  | 2,962  | 1,859  | 1,458  |
| Industrial             | 6,418  | 5,490  | 6,628  | 5,779  | 3,676  | 4,177  | 4,808  |
| Institutional & Others | 4,697  | 3,682  | 7,113  | 5,828  | 4,312  | 3,166  | 5,787  |
| Civil Engineering Work | 4,810  | 6,941  | 9,903  | 5,474  | 8,974  | 9,346  | 9,464  |
| Private Sector         |        |        |        |        |        |        |        |
| Total                  | 21,237 | 20,915 | 19,537 | 13,781 | 11,011 | 8,964  | 12,239 |
| Building Work          | 18,549 | 19,488 | 18,101 | 12,119 | 9,541  | 7,906  | 11,998 |
| Residential            | 8,512  | 9,585  | 6,471  | 3,959  | 3,223  | 3,007  | 5,177  |
| Commercial             | 2,888  | 3,663  | 3,703  | 1,886  | 2,863  | 1,733  | 1,364  |
| Industrial             | 6,111  | 5,178  | 6,037  | 4,534  | 2,837  | 2,504  | 4,029  |
| Institutional & Others | 1,039  | 1,062  | 1,890  | 1,741  | 617    | 661    | 1,428  |
| Civil Engineering Work | 2,688  | 1,427  | 1,436  | 1,662  | 1,470  | 1,058  | 242    |
| Public Sector          |        |        |        |        |        |        |        |
| Total                  | 9,525  | 14,888 | 19,220 | 13,253 | 15,393 | 15,835 | 18,296 |
| Building Work          | 7,402  | 9,374  | 10,753 | 9,441  | 7,889  | 7,547  | 9,074  |
| Residential            | 3,334  | 6,378  | 4,819  | 3,811  | 3,256  | 3,243  | 3,842  |
| Commercial             | 102    | 64     | 120    | 298    | 99     | 126    | 93     |
| Industrial             | 308    | 312    | 591    | 1,245  | 839    | 1,673  | 779    |
| Institutional & Others | 3,659  | 2,620  | 5,224  | 4,088  | 3,695  | 2,505  | 4,359  |
| Civil Engineering Work | 2,123  | 5,514  | 8,466  | 3,812  | 7,505  | 8,288  | 9,222  |

Source : Building and Construction Authority

Notes : Excludes reclamation works.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14792](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14792)

## 13.9 PROGRESS PAYMENTS CERTIFIED BY SECTOR AND DEVELOPMENT TYPE

| Development Type       | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
|------------------------|--------|--------|--------|--------|--------|--------|--------|
| All Sectors            |        |        |        |        |        |        |        |
| Total                  | 31,639 | 33,682 | 35,892 | 36,402 | 35,178 | 27,911 | 26,601 |
| Building Work          | 25,447 | 27,799 | 28,812 | 28,381 | 26,513 | 20,219 | 19,090 |
| Residential            | 10,943 | 12,791 | 13,811 | 13,608 | 10,890 | 7,584  | 6,638  |
| Commercial             | 3,294  | 3,221  | 3,047  | 3,278  | 3,373  | 2,879  | 2,909  |
| Industrial             | 7,414  | 7,807  | 7,060  | 6,784  | 6,637  | 4,743  | 5,498  |
| Institutional & Others | 3,797  | 3,980  | 4,894  | 4,712  | 5,613  | 5,014  | 4,044  |
| Civil Engineering Work | 6,192  | 5,883  | 7,080  | 8,021  | 8,665  | 7,692  | 7,511  |
| Private Sector         |        |        |        |        |        |        |        |
| Total                  | 19,323 | 21,127 | 21,160 | 20,788 | 18,704 | 13,116 | 13,109 |
| Building Work          | 18,430 | 20,097 | 19,689 | 19,083 | 17,162 | 11,864 | 11,790 |
| Residential            | 7,178  | 8,309  | 8,671  | 8,285  | 6,578  | 4,501  | 3,629  |
| Commercial             | 3,212  | 3,145  | 2,964  | 3,160  | 3,188  | 2,691  | 2,783  |
| Industrial             | 6,750  | 7,293  | 6,612  | 6,216  | 5,699  | 3,693  | 4,424  |
| Institutional & Others | 1,290  | 1,350  | 1,443  | 1,423  | 1,698  | 979    | 954    |
| Civil Engineering Work | 893    | 1,030  | 1,471  | 1,705  | 1,542  | 1,251  | 1,319  |
| Public Sector          |        |        |        |        |        |        |        |
| Total                  | 12,316 | 12,555 | 14,732 | 15,615 | 16,474 | 14,796 | 13,492 |
| Building Work          | 7,018  | 7,701  | 9,123  | 9,298  | 9,350  | 8,355  | 7,300  |
| Residential            | 3,765  | 4,482  | 5,140  | 5,323  | 4,313  | 3,083  | 3,009  |
| Commercial             | 82     | 76     | 84     | 119    | 184    | 188    | 126    |
| Industrial             | 664    | 514    | 449    | 567    | 939    | 1,050  | 1,075  |
| Institutional & Others | 2,507  | 2,630  | 3,451  | 3,290  | 3,915  | 4,035  | 3,090  |
| Civil Engineering Work | 5,299  | 4,854  | 5,609  | 6,316  | 7,123  | 6,441  | 6,192  |

Source : Building and Construction Authority

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14792](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14792)

## 13.10 PROPERTIES UNDER THE MANAGEMENT OF HOUSING AND DEVELOPMENT BOARD

(End of Period)

|  | 2012    | 2013    | 2014    | 2015    | 2016      | 2017      | Number<br>2018 |
|--|---------|---------|---------|---------|-----------|-----------|----------------|
| Residential                              | 922,493 | 933,278 | 959,960 | 984,908 | 1,010,613 | 1,043,968 | 1,061,236      |
| 1-room                                   | 25,186  | 25,384  | 25,450  | 26,247  | 27,817    | 30,098    | 30,699         |
| 2-room <sup>1</sup>                      | 33,744  | 35,562  | 37,105  | 38,882  | 41,594    | 48,261    | 53,257         |
| 3-room                                   | 222,257 | 223,461 | 227,527 | 231,212 | 235,217   | 239,674   | 242,456        |
| 4-room                                   | 357,566 | 363,043 | 375,533 | 387,642 | 398,927   | 412,394   | 419,203        |
| 5-room <sup>2</sup>                      | 214,710 | 216,209 | 222,345 | 227,774 | 233,608   | 239,460   | 241,572        |
| Executive <sup>3</sup>                   | 65,077  | 65,074  | 65,079  | 65,082  | 65,086    | 65,090    | 65,100         |
| Studio Apartment                         | 2,418   | 3,368   | 6,921   | 8,069   | 8,364     | 8,991     | 8,949          |
| HUDC <sup>4</sup>                        | 1,535   | 1,177   | 0       | 0       | 0         | 0         | 0              |
| Commercial/Industrial Units <sup>5</sup> | 28,372  | 28,413  | 28,477  | 28,630  | 30,042    | 29,813    | 18,021         |

Source : Housing & Development Board (HDB)

- 1 The Studio Apartment Scheme and 2-room Flat Scheme were merged and replaced with the 2-room Flexi Scheme from November 2015.  
From November 2015, Studio Apartments are sold under the 2-Room Flexi Scheme.
- 2 Includes 3Generation flats with effect from November 2016.
- 3 Includes Multi-generation flats.
- 4 With effect from 2014, there are no HUDC flats under HDB's management.
- 5 With effect from 2018, there are no industrial units under HDB's management.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14620](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14620)



## 13.11 RESIDENTIAL UNITS CONSTRUCTED AND SOLD BY HOUSING AND DEVELOPMENT BOARD

|   | Unit | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
|---|------|--------|--------|--------|--------|--------|--------|--------|
| Flats Constructed   | No.  | 19,005 | 12,744 | 27,120 | 26,108 | 26,025 | 35,210 | 17,556 |
| Percentage of Population <sup>1</sup> Living in Public Flats <sup>2</sup>         | %    | 83     | 82     | 82     | 82     | 82     | 82     | 81     |
| Flats Sold Under 'Home Ownership Scheme' <sup>3</sup>                             | No.  | 13,098 | 12,594 | 25,183 | 23,445 | 21,851 | 27,708 | 22,106 |
| Percentage of Home-Ownership Flats <sup>4</sup>                                   | %    | 94     | 93     | 95     | 95     | 95     | 94     | 94     |
| Percentage of Population <sup>1</sup> Living in Home-Ownership Flats <sup>2</sup> | %    | 80     | 80     | 79     | 79     | 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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14606](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14606)

# 13.12 RESIDENTIAL UNITS UNDER THE MANAGEMENT OF HOUSING AND DEVELOPMENT BOARD, 31 DECEMBER 2018

| Town <sup>1</sup> | Total     | 1-room | 2-room <sup>2</sup> | 3-room  | 4-room  | 5-room <sup>3</sup> | Executive <sup>4</sup> | Number            |
|-------------------|-----------|--------|---------------------|---------|---------|---------------------|------------------------|-------------------|
|                   |           |        |                     |         |         |                     |                        | Studio Apartments |
| Total             | 1,061,236 | 30,699 | 53,257              | 242,456 | 419,203 | 241,572             | 65,100                 | 8,949             |
| Ang Mo Kio        | 50,728    | 1,318  | 3,635               | 24,523  | 14,481  | 5,949               | 499                    | 323               |
| Bedok             | 62,156    | 2,530  | 2,317               | 22,815  | 20,967  | 10,498              | 2,717                  | 312               |
| Bishan            | 20,072    | 564    | 257                 | 2,357   | 9,359   | 5,716               | 1,660                  | 159               |
| Bukit Batok       | 42,988    | 761    | 2,501               | 11,490  | 17,853  | 7,401               | 2,734                  | 248               |
| Bukit Merah       | 55,110    | 4,731  | 6,053               | 16,868  | 17,192  | 9,616               | 44                     | 606               |
| Bukit Panjang     | 35,325    | 223    | 556                 | 3,678   | 16,699  | 10,425              | 3,381                  | 363               |
| Bukit Timah       | 2,554     | 0      | 49                  | 439     | 920     | 683                 | 380                    | 83                |
| Central Area      | 12,004    | 2,075  | 1,316               | 4,268   | 3,438   | 901                 | 6                      | 0                 |
| Choa Chu Kang     | 48,900    | 565    | 1,207               | 2,463   | 23,465  | 15,952              | 4,762                  | 486               |
| Clementi          | 26,601    | 474    | 770                 | 12,306  | 9,222   | 3,207               | 622                    | 0                 |
| Geylang           | 29,951    | 879    | 3,390               | 11,442  | 9,607   | 3,593               | 831                    | 209               |
| Hougang           | 56,561    | 668    | 2,066               | 10,907  | 26,901  | 11,080              | 4,311                  | 628               |
| Jurong East       | 23,897    | 352    | 432                 | 7,006   | 8,188   | 5,925               | 1,871                  | 123               |
| Jurong West       | 75,208    | 813    | 2,664               | 12,620  | 29,761  | 22,213              | 6,507                  | 630               |
| Kallang/Whampoa   | 39,645    | 4,401  | 2,772               | 14,026  | 12,185  | 5,477               | 504                    | 280               |
| Marine Parade     | 7,862     | 0      | 1,350               | 3,037   | 1,798   | 1,677               | 0                      | 0                 |
| Pasir Ris         | 29,654    | 176    | 338                 | 491     | 11,641  | 9,379               | 7,460                  | 169               |
| Punggol           | 49,909    | 1,366  | 2,807               | 5,187   | 22,456  | 16,547              | 1,126                  | 420               |
| Queenstown        | 32,676    | 575    | 3,375               | 14,494  | 9,457   | 3,976               | 355                    | 444               |
| Sembawang         | 27,241    | 955    | 2,508               | 1,271   | 11,118  | 8,518               | 2,871                  | 0                 |
| Sengkang          | 67,116    | 685    | 1,911               | 3,880   | 31,274  | 24,144              | 4,462                  | 760               |
| Serangoon         | 21,634    | 272    | 408                 | 4,535   | 10,231  | 3,757               | 2,365                  | 66                |
| Tampines          | 70,755    | 1,615  | 1,350               | 13,844  | 29,778  | 17,715              | 5,846                  | 607               |
| Toa Payoh         | 38,455    | 1,168  | 3,807               | 15,589  | 10,639  | 6,019               | 854                    | 379               |
| Woodlands         | 69,900    | 2,274  | 2,908               | 7,059   | 29,799  | 20,791              | 6,191                  | 878               |
| Yishun            | 64,334    | 1,259  | 2,510               | 15,861  | 30,774  | 10,413              | 2,741                  | 776               |

Source : Housing & Development Board

- 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.  
From November 2015, Studio Apartments are sold under the 2-Room Flexi Scheme.
- 3 Includes 3Generation flats with effect from November 2016.
- 4 Includes Multi-generation flats.

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## 13.13 GROSS ALLOCATION, RETURNS, TOTAL ALLOCATED, SUPPLY AND OCCUPANCY RATE OF JTC'S READY-BUILT FACILITIES BY PRODUCT SEGMENT

|                            | Unit      | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
|----------------------------|-----------|---------|---------|---------|---------|---------|---------|---------|
| <b>Total</b>               |           |         |         |         |         |         |         |         |
| Gross Allocation           | '000 sq m | 81.6    | 58.7    | 41.6    | 126.2   | 79.6    | 124.6   | 229.6   |
| Returns                    | '000 sq m | 64.9    | 76.6    | 62.8    | 86.6    | 81.8    | 104.7   | 190.8   |
| Total Allocated            | '000 sq m | 3,066.7 | 3,046.2 | 3,030.8 | 3,059.8 | 3,057.0 | 3,087.3 | 5,113.9 |
| Supply                     | '000 sq m | 3,209.6 | 3,207.0 | 3,313.5 | 3,362.5 | 3,416.3 | 3,643.9 | 6,133.4 |
| Occupancy Rate             | %         | 95.5    | 95.0    | 91.5    | 91.0    | 89.5    | 84.7    | 83.4    |
| <b>High-Rise Space</b>     |           |         |         |         |         |         |         |         |
| Gross Allocation           | '000 sq m | 15.7    | 14.1    | 17.9    | 46.6    | 32.0    | 55.0    | 133.1   |
| Returns                    | '000 sq m | 19.1    | 14.6    | 19.2    | 28.8    | 19.7    | 21.9    | 86.8    |
| Total Allocated            | '000 sq m | 293.3   | 292.7   | 291.5   | 298.8   | 312.3   | 354.7   | 1,491.9 |
| Supply                     | '000 sq m | 322.7   | 322.6   | 362.0   | 394.1   | 443.6   | 660.1   | 1,797.0 |
| Occupancy Rate             | %         | 90.9    | 90.8    | 80.5    | 75.8    | 70.4    | 53.7    | 83.0    |
| <b>Land-Based Factory</b>  |           |         |         |         |         |         |         |         |
| Gross Allocation           | '000 sq m | 38.0    | 34.4    | 13.6    | 22.5    | 21.5    | 55.2    | 69.7    |
| Returns                    | '000 sq m | 40.1    | 47.4    | 29.7    | 42.3    | 41.4    | 60.7    | 59.4    |
| Total Allocated            | '000 sq m | 2,377.5 | 2,362.0 | 2,344.3 | 2,324.5 | 2,304.6 | 2,298.9 | 2,855.9 |
| Supply                     | '000 sq m | 2,470.7 | 2,468.2 | 2,466.7 | 2,479.4 | 2,494.7 | 2,502.3 | 3,485.4 |
| Occupancy Rate             | %         | 96.2    | 95.7    | 95.0    | 93.8    | 92.4    | 91.9    | 81.9    |
| <b>Business Park Space</b> |           |         |         |         |         |         |         |         |
| Gross Allocation           | '000 sq m | 25.6    | 5.8     | 6.5     | 53.0    | 23.4    | 11.0    | 14.0    |
| Returns                    | '000 sq m | 3.7     | 7.3     | 5.8     | 10.1    | 15.3    | 13.3    | 22.0    |
| Total Allocated            | '000 sq m | 227.0   | 225.6   | 233.7   | 276.5   | 282.9   | 281.7   | 270.6   |
| Supply                     | '000 sq m | 242.4   | 242.4   | 318.2   | 322.5   | 311.3   | 314.6   | 313.8   |
| Occupancy Rate             | %         | 93.7    | 93.1    | 73.4    | 85.8    | 90.9    | 89.5    | 86.2    |
| <b>Workshop Space</b>      |           |         |         |         |         |         |         |         |
| Gross Allocation           | '000 sq m | 2.2     | 4.4     | 3.5     | 4.1     | 2.7     | 3.4     | 12.8    |
| Returns                    | '000 sq m | 2.0     | 7.4     | 8.0     | 5.4     | 5.4     | 8.8     | 22.7    |
| Total Allocated            | '000 sq m | 168.8   | 165.8   | 161.3   | 160.0   | 157.3   | 151.9   | 495.4   |
| Supply                     | '000 sq m | 173.8   | 173.8   | 166.6   | 166.6   | 166.6   | 166.8   | 537.2   |
| Occupancy Rate             | %         | 97.1    | 95.4    | 96.8    | 96.0    | 94.4    | 91.1    | 92.2    |

Source : JTC Corporation

Notes : Figures may not add up due to rounding.

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

With effect from 2018, data include industrial properties transferred from Housing & Development Board.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=16690](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=16690)

## 13.14 GROSS ALLOCATION, RETURNS, TOTAL ALLOCATED AND SUPPLY OF JTC'S PREPARED INDUSTRIAL LAND

|                               | Hectares |         |         |         |         |         |         |
|-------------------------------|----------|---------|---------|---------|---------|---------|---------|
|                               | 2012     | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
| Prepared Industrial Land      |          |         |         |         |         |         |         |
| Gross Allocation <sup>1</sup> | 255.2    | 232.2   | 166.8   | 150.8   | 145.3   | 131.3   | 397.4   |
| Returns <sup>1</sup>          | 103.5    | 201.4   | 103.9   | 162.9   | 160.9   | 213.8   | 297.7   |
| Total Allocated <sup>2</sup>  | 6,374.0  | 6,433.1 | 6,513.0 | 6,507.5 | 6,497.8 | 6,427.6 | 7,123.1 |
| Supply <sup>2</sup>           | 7,069.8  | 7,245.4 | 7,337.2 | 7,361.0 | 7,379.4 | 7,475.7 | 8,184.2 |

Source : JTC Corporation

Notes : Figures may not add up due to rounding.  
 Data for "Total Allocated" and "Supply" are as at end of period.  
 With effect from 2018, data include industrial properties transferred from Housing & Development Board.

- 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.

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## 13.15 RESIDENTIAL DWELLINGS

| Type of Property                  | Number    |           |           |           |           |           |           |
|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                   | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
| Residential Dwelling Units        | 1,216,217 | 1,231,914 | 1,271,109 | 1,322,898 | 1,370,319 | 1,421,302 | 1,460,968 |
| Type of Dwellings <sup>1</sup>    |           |           |           |           |           |           |           |
| Total HDB Flats <sup>2</sup>      | 927,643   | 933,389   | 953,975   | 980,613   | 1,004,623 | 1,032,461 | 1,056,716 |
| HDB 1-2 Room Flats <sup>3</sup>   | 61,234    | 63,622    | 68,332    | 71,937    | 75,175    | 82,791    | 91,364    |
| HDB 3 Room Flats                  | 226,300   | 226,199   | 228,329   | 232,089   | 236,065   | 240,466   | 243,165   |
| HDB 4 Room Flats                  | 358,113   | 361,212   | 371,573   | 384,507   | 395,568   | 407,434   | 416,726   |
| HDB 5 Room And Executive Flats    | 279,632   | 280,350   | 284,601   | 291,149   | 296,884   | 301,770   | 305,461   |
| Condominiums And Other Apartments | 204,340   | 214,148   | 232,296   | 256,971   | 279,745   | 302,610   | 317,730   |
| Landed Properties                 | 72,032    | 72,396    | 73,024    | 73,445    | 74,108    | 74,500    | 74,914    |
| Others <sup>4</sup>               | 12,202    | 11,981    | 11,814    | 11,869    | 11,843    | 11,731    | 11,608    |

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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14626](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14626)

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 (Version 2018). Establishments engaged in Financial & Insurance Services and Public Administration Activities are excluded. Taxi drivers, hawkers and stall-holders, independent artistes, self-employed persons operating private hire vehicles and other individual self-employed persons who are not registered with the Accounting and Corporate Regulatory Authority (ACRA) are also excluded.

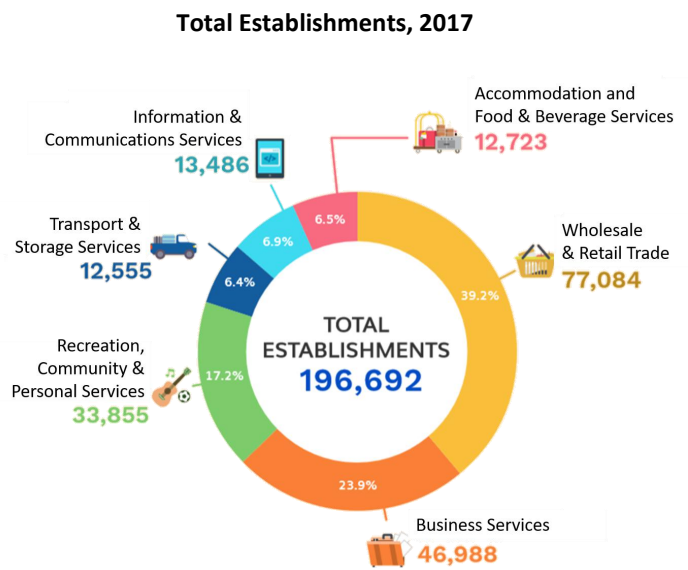
The survey uses stratified random sampling. All establishments in the sampling frame are first stratified by activity and within each activity, establishments are then stratified by operating receipts. Establishments with large operating receipts are selected with certainty and the rest are selected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

### Definitions

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

**Establishment:** Refers to a business or organisation unit within an enterprise engaged in one activity and operating in a single location. Thus, for a multi-activity firm or organisation, units engaged in separate activities in the same location constitute distinct establishments.

Similarly, a branch of a multi-branch organisation operating at a separate location is conceptually considered as distinct establishment.



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

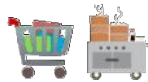
**Operating Expenditure:** Refers to all expenditure incurred by the establishment in its business, with adjustment for changes in inventory. It includes remuneration, purchases, indirect taxes, work given out, rental and maintenance of machinery and equipment, legal, accounting and other professional services, rental and maintenance of premises, depreciation, transport and travelling, utilities, advertisement, entertainment, stationery and printing, postage and telecommunications, fuel, freight charges and other expenses that are connected with the establishment's operation.



**Operating Surplus:** Refers to the amount of operating receipts less operating expenditure plus depreciation of fixed assets. Operating surplus, however, only refers to 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 donations) other than receipts from sales of goods and services rendered to cover their operating expenditure.

**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 (F&B) Services Indices measure the short-term performance of the retail and F&B services industries based on the sales records of enterprises in these industries. Data for the compilation of the indices are primarily obtained from more than 620 enterprises covered in the monthly retail sales and F&B services surveys. The base year for the indices is 2017.

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 price and quantity changes. By removing the price effect, changes in the 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 obtained from over 1,000 wholesale trade enterprises through the quarterly survey of

wholesale trade, and from administrative records. The base year for the WTI is 2017.

Two series of the WTI are compiled – Domestic WTI and Foreign WTI. The Domestic WTI records wholesale sales in Singapore. The Foreign WTI measures wholesale sales outside Singapore, which comprises domestic exports, re-exports, transshipment 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 price and quantity changes. By removing the price effect, 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



More information on the concepts and methodology adopted for the Annual Survey of Services and detailed statistics for several services industries of importance to the Singapore economy are available on the [SingStat Website](#).



## 14.1

## PRINCIPAL STATISTICS OF SERVICES

| Year | Establish-<br>ments | Operating<br>Receipts        | Operating<br>Expenditure | Operating<br>Surplus | Value<br>Added <sup>1</sup> |
|------|---------------------|------------------------------|--------------------------|----------------------|-----------------------------|
|      | Number              | Million Dollars              |                          |                      |                             |
|      |                     | Total                        |                          |                      |                             |
| 2011 | 160,104             | 2,318,666.3                  | 2,244,782.4              | 97,128.5             | 174,365.6                   |
| 2012 | 167,961             | 2,522,990.9                  | 2,449,147.2              | 98,990.2             | 182,410.0                   |
| 2013 | 171,457             | 2,794,978.4                  | 2,719,073.6              | 102,585.9            | 191,776.4                   |
| 2014 | 178,703             | 2,898,967.9                  | 2,827,011.6              | 100,191.3            | 195,653.5                   |
| 2015 | 186,767             | 2,715,746.0                  | 2,644,446.2              | 103,237.1            | 205,188.0                   |
| 2016 | 194,043             | 2,620,268.1                  | 2,543,128.4              | 110,625.2            | 218,244.3                   |
| 2017 | 196,692             | 3,131,124.4                  | 3,046,859.7              | 119,682.8            | 232,633.0                   |
|      |                     | Wholesale Trade              |                          |                      |                             |
| 2011 | 47,088              | 1,999,058.8                  | 1,956,834.0              | 43,791.3             | 61,883.8                    |
| 2012 | 48,300              | 2,174,790.0                  | 2,133,909.7              | 42,757.1             | 61,659.3                    |
| 2013 | 47,824              | 2,420,754.2                  | 2,379,547.4              | 43,077.5             | 62,570.9                    |
| 2014 | 48,179              | 2,506,539.2                  | 2,470,764.6              | 37,799.6             | 58,147.5                    |
| 2015 | 49,266              | 2,302,000.9                  | 2,268,880.7              | 35,972.1             | 58,188.6                    |
| 2016 | 50,374              | 2,192,517.6                  | 2,151,959.1              | 43,817.2             | 67,394.9                    |
| 2017 | 50,489              | 2,675,927.0                  | 2,628,753.3              | 50,547.3             | 74,241.9                    |
|      |                     | Retail Trade                 |                          |                      |                             |
| 2011 | 21,600              | 40,844.9                     | 38,558.8                 | 2,658.5              | 6,003.1                     |
| 2012 | 22,412              | 43,089.1                     | 40,913.9                 | 2,592.3              | 6,145.1                     |
| 2013 | 22,954              | 43,736.8                     | 41,725.8                 | 2,483.8              | 6,255.9                     |
| 2014 | 24,247              | 44,536.3                     | 42,753.7                 | 2,307.9              | 6,507.0                     |
| 2015 | 25,650              | 46,299.9                     | 44,422.7                 | 2,431.8              | 6,855.0                     |
| 2016 | 26,544              | 47,941.0                     | 45,843.9                 | 2,672.0              | 7,184.0                     |
| 2017 | 26,595              | 48,531.5                     | 46,614.7                 | 2,489.6              | 7,349.9                     |
|      |                     | Transport & Storage Services |                          |                      |                             |
| 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 | 11,371              | 104,403.3                    | 98,774.5                 | 12,068.6             | 23,244.7                    |
| 2014 | 11,455              | 109,899.0                    | 102,834.9                | 13,481.0             | 25,473.5                    |
| 2015 | 12,018              | 114,490.8                    | 105,993.4                | 15,755.6             | 28,295.0                    |
| 2016 | 12,513              | 108,791.5                    | 103,270.1                | 13,027.5             | 25,849.3                    |
| 2017 | 12,555              | 122,805.1                    | 115,025.2                | 15,642.2             | 29,654.2                    |

(continued on the next page)

Notes : Data are classified according to the Singapore Standard Industrial Classification 2015 (Version 2018).

Data exclude financial &amp; insurance services, public administration activities, own-account workers (e.g. freelancers, taxi drivers, hawkers) and self-employed persons operating private-hire vehicles.

1 Value added is at basic prices.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=13033](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=13033)

## 14.1 PRINCIPAL STATISTICS OF SERVICES (continued)

| Year   | Establish-ments | Operating Receipts | Operating Expenditure | Operating Surplus | Value Added <sup>1</sup> |
|--|-----------------|--------------------|-----------------------|-------------------|--------------------------|
|  | Number          | Million Dollars    |                       |                   |                          |
| Accommodation and Food & Beverage Services             |                 |                    |                       |                   |                          |
| 2011   | 9,319           | 13,718.3           | 11,886.6              | 2,447.2           | 6,157.1                  |
| 2012   | 9,715           | 14,954.8           | 13,052.5              | 2,543.8           | 6,642.9                  |
| 2013   | 9,838           | 15,882.5           | 14,149.8              | 2,445.9           | 6,870.4                  |
| 2014   | 10,644          | 16,628.9           | 14,890.8              | 2,536.1           | 7,192.0                  |
| 2015   | 11,239          | 16,755.7           | 15,119.4              | 2,442.2           | 7,256.0                  |
| 2016   | 11,921          | 17,252.1           | 15,530.5              | 2,589.4           | 7,520.8                  |
| 2017   | 12,723          | 17,453.4           | 15,856.5              | 2,541.4           | 7,600.1                  |
| Information & Communications Services                  |                 |                    |                       |                   |                          |
| 2011   | 7,408           | 39,747.6           | 35,622.9              | 5,586.4           | 12,649.3                 |
| 2012   | 8,174           | 44,359.7           | 40,062.7              | 5,967.1           | 13,804.2                 |
| 2013   | 8,633           | 47,925.3           | 43,023.9              | 6,732.7           | 15,000.1                 |
| 2014   | 9,886           | 53,564.9           | 48,598.6              | 6,934.3           | 16,086.5                 |
| 2015   | 11,617          | 59,146.6           | 54,800.3              | 6,562.3           | 16,213.6                 |
| 2016   | 12,823          | 65,099.6           | 60,100.6              | 7,382.0           | 17,514.9                 |
| 2017   | 13,486          | 75,869.8           | 71,040.6              | 7,458.0           | 18,534.0                 |
| Business Services                                      |                 |                    |                       |                   |                          |
| 2011   | 37,198          | 104,250.4          | 85,221.5              | 24,988.1          | 46,084.5                 |
| 2012   | 39,664          | 117,243.5          | 96,345.0              | 27,075.4          | 49,824.4                 |
| 2013   | 41,238          | 128,948.3          | 105,944.5             | 29,504.4          | 54,428.1                 |
| 2014   | 43,219          | 131,965.2          | 108,699.7             | 30,572.7          | 57,019.4                 |
| 2015   | 44,607          | 139,244.4          | 113,854.8             | 33,784.1          | 62,270.8                 |
| 2016   | 46,191          | 148,808.0          | 122,793.4             | 35,076.2          | 65,369.1                 |
| 2017   | 46,988          | 148,479.4          | 124,042.4             | 34,177.3          | 65,953.0                 |
| Recreation, Community & Personal Services <sup>2</sup> |                 |                    |                       |                   |                          |
| 2011   | 26,967          | 29,188.9           | 30,487.1              | 6,366.3           | 20,513.4                 |
| 2012   | 28,581          | 31,154.4           | 33,199.0              | 6,337.7           | 22,060.2                 |
| 2013   | 29,599          | 33,328.0           | 35,907.8              | 6,273.0           | 23,406.2                 |
| 2014   | 31,072          | 35,834.3           | 38,469.3              | 6,559.6           | 25,227.6                 |
| 2015   | 32,372          | 37,807.7           | 41,374.7              | 6,289.1           | 26,108.9                 |
| 2016   | 33,678          | 39,858.4           | 43,630.8              | 6,060.9           | 27,411.4                 |
| 2017   | 33,855          | 42,058.2           | 45,527.1              | 6,826.9           | 29,299.9                 |

Notes : Data are classified according to the Singapore Standard Industrial Classification 2015 (Version 2018).

Data exclude financial & insurance services, public administration activities, own-account workers (e.g. freelancers, taxi drivers, hawkers) and self-employed persons operating private-hire vehicles.

1 Value added is at basic prices.

2 Excludes government schools that are under the complete control and funding of Ministry of Education.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=13033](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=13033)

# 14.2 RETAIL SALES INDEX

(2017 = 100)

|  | Weights <sup>1</sup> | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|--|----------------------|-------|-------|-------|-------|-------|-------|-------|
| At Current Prices                          |                      |       |       |       |       |       |       |       |
| Total                                      | 10,000               | 96.6  | 91.7  | 92.1  | 96.1  | 98.2  | 100.0 | 99.2  |
| Total (excl Motor Vehicles)                | 8,193                | 101.7 | 102.6 | 102.1 | 100.9 | 98.2  | 100.0 | 101.1 |
| Department Stores <sup>2</sup>             | 620                  | 104.0 | 105.9 | 104.3 | 104.9 | 100.5 | 100.0 | 100.9 |
| Supermarkets & Hypermarkets                | 1,443                | 85.7  | 89.8  | 93.1  | 96.5  | 96.5  | 100.0 | 98.8  |
| Mini-marts & Convenience Stores            | 423                  | 102.5 | 104.6 | 104.4 | 101.8 | 102.9 | 100.0 | 99.5  |
| Food Retailers <sup>3</sup>                | 214                  | 109.3 | 114.8 | 118.5 | 111.0 | 101.6 | 100.0 | 103.7 |
| Motor Vehicles                             | 1,807                | 65.8  | 48.5  | 50.8  | 76.6  | 98.2  | 100.0 | 91.0  |
| Petrol Service Stations                    | 431                  | 120.1 | 121.3 | 121.8 | 99.0  | 91.2  | 100.0 | 108.1 |
| Medical Goods & Toiletries                 | 619                  | 81.2  | 84.3  | 87.7  | 91.0  | 95.2  | 100.0 | 104.9 |
| Wearing Apparel & Footwear                 | 975                  | 108.3 | 108.8 | 104.7 | 102.0 | 98.0  | 100.0 | 102.9 |
| Furniture & Household Equipment            | 753                  | 113.1 | 108.1 | 103.8 | 101.4 | 100.8 | 100.0 | 103.4 |
| Recreational Goods                         | 145                  | 111.0 | 111.7 | 105.2 | 98.8  | 97.2  | 100.0 | 100.0 |
| Watches & Jewellery                        | 904                  | 102.6 | 103.5 | 101.3 | 102.7 | 96.8  | 100.0 | 100.3 |
| Computer & Telecommunications<br>Equipment | 549                  | 135.2 | 125.2 | 126.2 | 118.5 | 99.5  | 100.0 | 91.8  |
| Optical Goods & Books                      | 294                  | 108.9 | 113.3 | 112.8 | 106.2 | 101.6 | 100.0 | 97.4  |
| Others                                     | 823                  | 92.2  | 93.0  | 88.0  | 95.1  | 100.4 | 100.0 | 102.8 |
| At Constant Prices                         |                      |       |       |       |       |       |       |       |
| Total                                      | 10,000               | 96.9  | 92.7  | 93.0  | 97.3  | 98.7  | 100.0 | 98.8  |
| Total (excl Motor Vehicles)                | 8,193                | 102.9 | 104.0 | 103.3 | 102.2 | 98.8  | 100.0 | 100.5 |
| Department Stores <sup>2</sup>             | 620                  | 104.2 | 105.8 | 104.8 | 105.6 | 100.9 | 100.0 | 100.4 |
| Supermarkets & Hypermarkets                | 1,443                | 91.5  | 94.4  | 96.0  | 98.7  | 97.1  | 100.0 | 97.4  |
| Mini-marts & Convenience Stores            | 423                  | 109.4 | 110.0 | 106.9 | 103.1 | 103.2 | 100.0 | 97.5  |
| Food Retailers <sup>3</sup>                | 214                  | 121.0 | 124.4 | 124.0 | 114.5 | 102.9 | 100.0 | 102.1 |
| Motor Vehicles                             | 1,807                | 63.8  | 48.6  | 51.0  | 77.3  | 98.5  | 100.0 | 91.3  |
| Petrol Service Stations                    | 431                  | 123.5 | 121.8 | 121.5 | 103.9 | 99.5  | 100.0 | 101.3 |
| Medical Goods & Toiletries                 | 619                  | 80.3  | 82.6  | 85.7  | 89.3  | 93.7  | 100.0 | 105.1 |
| Wearing Apparel & Footwear                 | 975                  | 108.2 | 108.4 | 105.7 | 103.2 | 98.5  | 100.0 | 101.7 |
| Furniture & Household Equipment            | 753                  | 110.7 | 106.2 | 101.7 | 99.3  | 98.9  | 100.0 | 103.3 |
| Recreational Goods                         | 145                  | 110.7 | 112.5 | 105.2 | 98.4  | 96.2  | 100.0 | 100.3 |
| Watches & Jewellery                        | 904                  | 94.3  | 104.6 | 106.6 | 108.0 | 97.7  | 100.0 | 101.2 |
| Computer & Telecommunications<br>Equipment | 549                  | 133.9 | 124.2 | 124.8 | 117.3 | 98.3  | 100.0 | 96.3  |
| Optical Goods & Books                      | 294                  | 112.5 | 115.7 | 114.8 | 108.2 | 101.6 | 100.0 | 97.3  |
| Others                                     | 823                  | 92.4  | 92.6  | 88.6  | 96.2  | 101.1 | 100.0 | 102.1 |

Note : Data are classified according to the Singapore Standard Industrial Classification 2015 (Version 2018).

- 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 Services.
- 2 Excludes department stores cum supermarkets (e.g. hypermarkets), which is grouped under 'Supermarkets & Hypermarkets'.
- 3 Refers to retail stores which sell food & beverages that are generally not meant for immediate consumption within their premises.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15527](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15527)  
[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15514](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15514)

## 14.3 FOOD & BEVERAGE SERVICES INDEX

(2017 = 100)

|                     | Weights <sup>1</sup> | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|---------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| At Current Prices   |                      |       |       |       |       |       |       |       |
| Total               | 1,000                | 100.4 | 102.4 | 103.4 | 100.5 | 100.5 | 100.0 | 101.2 |
| Restaurants         | 412                  | 112.7 | 116.4 | 116.2 | 110.6 | 104.6 | 100.0 | 100.4 |
| Fast Food Outlets   | 127                  | 88.8  | 90.8  | 92.3  | 93.2  | 95.9  | 100.0 | 107.1 |
| Food Caterers       | 114                  | 99.2  | 102.3 | 99.1  | 97.8  | 98.2  | 100.0 | 100.3 |
| Other Eating Places | 347                  | 93.1  | 93.3  | 96.4  | 94.2  | 98.9  | 100.0 | 100.4 |
| At Constant Prices  |                      |       |       |       |       |       |       |       |
| Total               | 1,000                | 110.6 | 110.8 | 109.1 | 103.6 | 101.7 | 100.0 | 99.8  |
| Restaurants         | 412                  | 126.2 | 127.3 | 124.1 | 114.4 | 105.8 | 100.0 | 98.7  |
| Fast Food Outlets   | 127                  | 97.5  | 98.8  | 97.0  | 96.4  | 97.0  | 100.0 | 106.8 |
| Food Caterers       | 114                  | 104.1 | 106.4 | 101.7 | 100.2 | 99.9  | 100.0 | 99.2  |
| Other Eating Places | 347                  | 102.8 | 101.0 | 101.7 | 97.2  | 100.0 | 100.0 | 98.8  |

Notes : Data are classified according to the Singapore Standard Industrial Classification 2015 (Version 2018).

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.

- 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 Services.

Download times series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15521](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15521)  
[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15526](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15526)

# 14.4 DOMESTIC WHOLESALE TRADE INDEX

(2017 = 100)

|                                     | Weights <sup>1</sup> | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|-------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| At Current Prices                   |                      |       |       |       |       |       |       |       |
| Total                               | 10,000               | 132.7 | 135.6 | 128.8 | 100.9 | 87.4  | 100.0 | 114.9 |
| Total (excl Petroleum)              | 5,636                | 121.9 | 124.6 | 121.2 | 107.7 | 96.5  | 100.0 | 97.6  |
| Food, Beverages & Tobacco           | 457                  | 87.0  | 90.8  | 94.7  | 97.6  | 99.6  | 100.0 | 105.6 |
| Household Equipment & Furniture     | 196                  | 117.3 | 104.3 | 104.0 | 104.6 | 121.9 | 100.0 | 107.8 |
| Petroleum & Petroleum Products      | 4,364                | 144.7 | 148.0 | 137.4 | 93.3  | 77.1  | 100.0 | 137.2 |
| Chemicals & Chemical Products       | 441                  | 112.2 | 117.0 | 120.4 | 112.3 | 93.7  | 100.0 | 108.4 |
| Electronic Components               | 1,029                | 94.4  | 104.1 | 107.9 | 116.1 | 96.1  | 100.0 | 94.3  |
| Industrial & Construction Machinery | 269                  | 104.5 | 107.6 | 112.1 | 110.0 | 102.1 | 100.0 | 92.6  |
| Telecommunications & Computers      | 940                  | 102.7 | 110.6 | 111.9 | 118.1 | 99.6  | 100.0 | 98.7  |
| Metals, Timber & Construction       |                      |       |       |       |       |       |       |       |
| Materials                           | 433                  | 149.6 | 141.8 | 133.4 | 120.8 | 102.7 | 100.0 | 87.5  |
| General Wholesale Trade             | 240                  | 183.6 | 196.4 | 188.8 | 117.1 | 95.0  | 100.0 | 101.0 |
| Ship Chandlers & Bunkering          | 610                  | 223.3 | 203.8 | 177.3 | 93.9  | 74.2  | 100.0 | 103.4 |
| Transport Equipment                 | 172                  | 97.9  | 94.6  | 97.4  | 100.9 | 99.3  | 100.0 | 100.0 |
| Other Wholesale Trade               | 849                  | 99.4  | 113.1 | 105.5 | 101.3 | 97.1  | 100.0 | 89.6  |
| At Constant Prices                  |                      |       |       |       |       |       |       |       |
| Total                               | 10,000               | 87.4  | 92.9  | 93.6  | 101.8 | 99.0  | 100.0 | 100.8 |
| Total (excl Petroleum)              | 5,636                | 100.6 | 106.6 | 107.2 | 106.2 | 100.3 | 100.0 | 95.0  |
| Food, Beverages & Tobacco           | 457                  | 88.5  | 91.6  | 93.9  | 97.3  | 100.5 | 100.0 | 106.0 |
| Household Equipment & Furniture     | 196                  | 99.0  | 92.1  | 98.6  | 100.0 | 120.2 | 100.0 | 110.7 |
| Petroleum & Petroleum Products      | 4,364                | 77.7  | 82.9  | 83.7  | 98.6  | 98.1  | 100.0 | 108.4 |
| Chemicals & Chemical Products       | 441                  | 76.3  | 82.1  | 89.1  | 116.4 | 109.2 | 100.0 | 90.4  |
| Electronic Components               | 1,029                | 85.1  | 97.0  | 103.4 | 108.1 | 94.3  | 100.0 | 97.2  |
| Industrial & Construction Machinery | 269                  | 101.2 | 105.4 | 109.8 | 107.9 | 103.2 | 100.0 | 93.3  |
| Telecommunications & Computers      | 940                  | 79.1  | 92.1  | 102.0 | 110.4 | 96.4  | 100.0 | 102.1 |
| Metals, Timber & Construction       |                      |       |       |       |       |       |       |       |
| Materials                           | 433                  | 137.8 | 134.7 | 127.8 | 118.7 | 107.7 | 100.0 | 84.2  |
| General Wholesale Trade             | 240                  | 145.6 | 160.1 | 158.3 | 116.3 | 101.4 | 100.0 | 95.0  |
| Ship Chandlers & Bunkering          | 610                  | 126.2 | 121.4 | 113.4 | 99.6  | 95.8  | 100.0 | 82.9  |
| Transport Equipment                 | 172                  | 115.7 | 111.5 | 107.5 | 106.8 | 104.5 | 100.0 | 99.6  |
| Other Wholesale Trade               | 849                  | 93.4  | 109.4 | 101.9 | 99.6  | 96.0  | 100.0 | 91.0  |

Note : Data are classified according to the Singapore Standard Industrial Classification 2015 (Version 2018).

- 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 Services.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15613](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15613)  
[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15617](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15617)

# 14.5 FOREIGN WHOLESALE TRADE INDEX

(2017 = 100)

|                                     | Weights <sup>1</sup> | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|-------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| At Current Prices                   |                      |       |       |       |       |       |       |       |
| Total                               | 10,000               | 110.8 | 116.2 | 112.9 | 95.8  | 87.5  | 100.0 | 112.0 |
| Total (excl Petroleum)              | 5,904                | 95.8  | 103.4 | 102.8 | 97.7  | 92.2  | 100.0 | 96.2  |
| Food, Beverages & Tobacco           | 448                  | 92.0  | 91.0  | 89.4  | 88.3  | 84.3  | 100.0 | 97.0  |
| Household Equipment & Furniture     | 119                  | 95.9  | 86.2  | 82.8  | 82.2  | 94.3  | 100.0 | 101.2 |
| Petroleum & Petroleum Products      | 4,096                | 137.4 | 138.8 | 130.8 | 92.5  | 79.2  | 100.0 | 134.8 |
| Chemicals & Chemical Products       | 486                  | 124.5 | 132.1 | 117.5 | 98.4  | 89.7  | 100.0 | 108.3 |
| Electronic Components               | 540                  | 97.6  | 109.3 | 106.8 | 109.5 | 90.5  | 100.0 | 100.8 |
| Industrial & Construction Machinery | 173                  | 132.1 | 101.0 | 93.3  | 84.9  | 83.2  | 100.0 | 109.8 |
| Telecommunications & Computers      | 933                  | 80.1  | 79.8  | 82.2  | 84.1  | 91.9  | 100.0 | 103.3 |
| Metals, Timber & Construction       |                      |       |       |       |       |       |       |       |
| Materials                           | 1,248                | 82.5  | 116.7 | 117.7 | 106.8 | 93.3  | 100.0 | 87.5  |
| General Wholesale Trade             | 514                  | 93.1  | 97.3  | 103.4 | 97.5  | 92.3  | 100.0 | 100.9 |
| Ship Chandlers & Bunkering          | 143                  | 178.9 | 181.4 | 180.7 | 113.9 | 96.5  | 100.0 | 98.9  |
| Transport Equipment                 | 202                  | 110.9 | 107.5 | 105.5 | 106.3 | 102.2 | 100.0 | 97.0  |
| Other Wholesale Trade               | 1,098                | 94.0  | 102.3 | 101.0 | 100.6 | 94.8  | 100.0 | 86.8  |
| At Constant Prices                  |                      |       |       |       |       |       |       |       |
| Total                               | 10,000               | 79.1  | 85.9  | 87.3  | 95.1  | 96.5  | 100.0 | 100.8 |
| Total (excl Petroleum)              | 5,904                | 84.7  | 94.7  | 95.8  | 95.4  | 94.0  | 100.0 | 96.2  |
| Food, Beverages & Tobacco           | 448                  | 91.4  | 93.9  | 91.8  | 87.6  | 83.2  | 100.0 | 96.7  |
| Household Equipment & Furniture     | 119                  | 87.7  | 80.5  | 79.4  | 79.0  | 92.2  | 100.0 | 104.9 |
| Petroleum & Petroleum Products      | 4,096                | 73.2  | 76.7  | 78.2  | 94.7  | 99.1  | 100.0 | 107.4 |
| Chemicals & Chemical Products       | 486                  | 88.3  | 97.1  | 89.6  | 97.1  | 100.5 | 100.0 | 95.2  |
| Electronic Components               | 540                  | 89.5  | 102.1 | 103.2 | 101.7 | 87.7  | 100.0 | 103.1 |
| Industrial & Construction Machinery | 173                  | 121.8 | 94.7  | 86.3  | 79.7  | 82.6  | 100.0 | 110.1 |
| Telecommunications & Computers      | 933                  | 71.1  | 75.4  | 79.5  | 77.9  | 87.4  | 100.0 | 112.2 |
| Metals, Timber & Construction       |                      |       |       |       |       |       |       |       |
| Materials                           | 1,248                | 75.4  | 108.0 | 107.7 | 107.1 | 99.1  | 100.0 | 83.8  |
| General Wholesale Trade             | 514                  | 80.2  | 86.2  | 93.7  | 95.0  | 94.9  | 100.0 | 97.7  |
| Ship Chandlers & Bunkering          | 143                  | 103.9 | 111.5 | 118.4 | 116.2 | 120.3 | 100.0 | 81.0  |
| Transport Equipment                 | 202                  | 126.1 | 120.5 | 112.1 | 111.0 | 106.6 | 100.0 | 95.7  |
| Other Wholesale Trade               | 1,098                | 85.5  | 97.9  | 100.2 | 99.5  | 94.8  | 100.0 | 91.7  |

Note : Data are classified according to the Singapore Standard Industrial Classification 2015 (Version 2018).

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 Services.

Download times series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15615](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15615)  
[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15619](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15619)

## 14.6 BUSINESS RECEIPTS INDEX FOR SERVICES INDUSTRIES

(2014 = 100)

|   | Weights <sup>1</sup> | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|---|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Total Services <sup>2</sup>                 | 10,000               | 90.2  | 96.4  | 100.0 | 102.1 | 102.5 | 109.4 | 117.0 |
| Transport & Storage <sup>3</sup>            | 1,440                | 95.7  | 97.7  | 100.0 | 100.9 | 98.2  | 104.3 | 110.2 |
| Information & Communications                | 958                  | 93.6  | 95.9  | 100.0 | 103.1 | 106.0 | 119.7 | 132.6 |
| Financial & Insurance                       | 2,694                | 82.9  | 93.6  | 100.0 | 107.6 | 108.0 | 114.0 | 125.1 |
| Business Services <sup>4</sup>              | 3,422                | 90.3  | 97.8  | 100.0 | 99.0  | 98.8  | 104.7 | 109.9 |
| Education                                   | 473                  | 85.9  | 94.4  | 100.0 | 102.4 | 107.4 | 113.6 | 117.3 |
| Health & Social Services                    | 494                  | 87.5  | 91.8  | 100.0 | 107.2 | 115.4 | 126.7 | 134.7 |
| Recreation & Personal Services <sup>5</sup> | 519                  | 102.3 | 103.5 | 100.0 | 91.0  | 86.6  | 91.7  | 94.2  |

Notes : Data are classified according to the Singapore Standard Industrial Classification 2015 (Version 2018).

- 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.
- 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.

Download times series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14641](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14641)

15



# International Trade



# 15

## International Trade



### Merchandise Trade



### Sources of Data

Since April 1987, Singapore's merchandise trade statistics are compiled by Enterprise 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 fuel and stores supplied to 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.
- v) Television news films, news or press materials;
  - vi) Ships and aircraft arriving for or departing after repairs;
  - vii) Goods temporarily taken into or out of the country to be returned after a specific purpose, for example, for an exhibition;
  - viii) Personal and household effects accompanying passengers or crews;
  - ix) Samples and specimens for test or analysis; and unaccompanied personal effects and gifts not exceeding the value of \$400;
  - x) Gold held as reserve assets that are exchanged between monetary authorities or authorised banks; and
  - xi) Issued currency notes and coins.

### Coverage

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

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

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

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

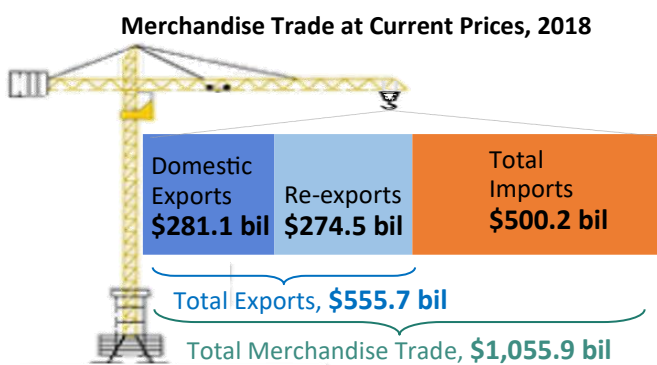
**Domestic Exports:** Refer to exports of Singapore origin. It comprises (i) primary commodities grown or produced in Singapore and (ii) goods which have been transformed, that is, manufactured, assembled or processed in

## International Trade ■



Singapore including those with imported materials or parts.

**Re-exports:** Refer 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 2018 Prices:** This is obtained by adjusting the recorded value of trade using import and export price indices with base year 2018. The series on trade at 2018 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

The "Singapore Trade Classification, Customs and Excise Duties 2018" came into effect on 24 June 2018 and was adopted for the documentation of Singapore's merchandise trade from 17 July 2018. This classification adopts the ASEAN Harmonized Tariff Nomenclature 2017

(AHTN 2017) 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:** Refer to the value of cross-border services provided by residents to non-residents.

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

### Trade in Services, 2018



### Other References

Detailed monthly merchandise trade statistics are available in the "[Singapore's External Trade](#)" report published monthly by Enterprise 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 Enterprise Singapore's quarterly and annual reviews of trade performance.

## 15.1 MERCHANDISE TRADE BY TYPE

Million Dollars

|                         | 2012        | 2013        | 2014        | 2015      | 2016      | 2017        | 2018        |
|-------------------------|-------------|-------------|-------------|-----------|-----------|-------------|-------------|
| At Current Prices       |             |             |             |           |           |             |             |
| Total Merchandise Trade | 1,001,544.0 | 1,011,077.9 | 1,004,650.0 | 915,218.8 | 870,216.2 | 967,102.4   | 1,055,859.1 |
| Merchandise Exports     | 519,354.1   | 525,507.2   | 526,067.4   | 491,816.1 | 466,911.6 | 515,000.8   | 555,665.1   |
| Oil                     | 130,900.7   | 124,961.7   | 122,863.1   | 81,829.1  | 69,238.5  | 90,182.2    | 103,265.7   |
| Non-oil                 | 388,453.4   | 400,545.4   | 403,204.3   | 409,987.0 | 397,673.1 | 424,818.7   | 452,399.4   |
| Domestic Exports        | 285,168.9   | 271,216.8   | 269,778.1   | 237,732.9 | 223,933.3 | 259,301.9   | 281,137.8   |
| Oil                     | 106,814.5   | 106,476.6   | 106,986.8   | 72,503.8  | 63,374.8  | 84,566.1    | 99,004.6    |
| Non-oil                 | 178,354.4   | 164,740.2   | 162,791.3   | 165,229.0 | 160,558.5 | 174,735.9   | 182,133.2   |
| Re-exports              | 234,185.3   | 254,290.4   | 256,289.3   | 254,083.3 | 242,978.4 | 255,698.9   | 274,527.2   |
| Merchandise Imports     | 482,189.8   | 485,570.7   | 478,582.6   | 423,402.6 | 403,304.6 | 452,101.6   | 500,194.0   |
| Oil                     | 154,804.2   | 146,280.6   | 143,742.1   | 88,774.9  | 70,530.2  | 99,861.4    | 118,708.9   |
| Non-oil                 | 327,385.7   | 339,290.1   | 334,840.5   | 334,627.7 | 332,774.4 | 352,240.2   | 381,485.1   |
| At 2018 Prices          |             |             |             |           |           |             |             |
| Total Merchandise Trade | 879,731.2   | 915,817.4   | 931,448.6   | 949,972.7 | 952,937.7 | 1,008,707.0 | 1,055,859.1 |
| Merchandise Exports     | 461,275.2   | 481,086.2   | 491,937.3   | 502,260.8 | 503,623.7 | 533,081.9   | 555,665.1   |
| Oil                     | 91,951.2    | 92,752.9    | 97,420.6    | 103,425.3 | 107,406.4 | 110,901.0   | 103,265.7   |
| Non-oil                 | 369,324.0   | 388,333.3   | 394,516.7   | 398,835.6 | 396,217.3 | 422,180.9   | 452,399.4   |
| Domestic Exports        | 245,278.0   | 239,292.8   | 244,242.7   | 250,301.0 | 257,505.6 | 278,329.9   | 281,137.8   |
| Oil                     | 75,321.4    | 79,332.8    | 85,060.4    | 90,846.3  | 97,540.9  | 103,838.3   | 99,004.6    |
| Non-oil                 | 169,956.6   | 159,960.0   | 159,182.3   | 159,454.7 | 159,964.7 | 174,491.5   | 182,133.2   |
| Re-exports              | 215,997.2   | 241,793.4   | 247,694.6   | 251,959.8 | 246,118.1 | 254,752.0   | 274,527.2   |
| Merchandise Imports     | 418,456.0   | 434,731.3   | 439,511.3   | 447,711.9 | 449,313.9 | 475,625.1   | 500,194.0   |
| Oil                     | 107,598.9   | 106,116.9   | 112,532.4   | 119,076.6 | 114,864.8 | 125,282.2   | 118,708.9   |
| Non-oil                 | 310,857.0   | 328,614.3   | 326,978.9   | 328,635.3 | 334,449.1 | 350,342.8   | 381,485.1   |

Source : Enterprise Singapore

Notes : Data are based on Standard International Trade Classification Rev 4.1 and consistent with the ASEAN Harmonised Tariff Nomenclature 2017 version.

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[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15327](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15327)

## 15.2 TOTAL MERCHANDISE TRADE BY REGION/MARKET

Million Dollars

| Region / Country            | 2012        | 2013        | 2014        | 2015      | 2016      | 2017      | 2018        |
|-----------------------------|-------------|-------------|-------------|-----------|-----------|-----------|-------------|
| Total                       | 1,001,544.0 | 1,011,077.9 | 1,004,650.0 | 915,218.8 | 870,216.2 | 967,102.4 | 1,055,859.1 |
| America                     | 115,371.6   | 119,467.7   | 114,015.5   | 102,863.0 | 95,623.6  | 105,437.5 | 124,991.7   |
| Brazil                      | 4,281.0     | 5,552.6     | 4,843.5     | 3,523.7   | 2,742.5   | 3,668.4   | 3,665.8     |
| Canada                      | 3,048.4     | 3,635.7     | 2,969.4     | 2,867.6   | 2,922.2   | 2,865.7   | 3,358.7     |
| United States               | 75,339.5    | 76,987.9    | 75,762.3    | 75,733.0  | 72,414.2  | 79,918.0  | 97,909.5    |
| Asia                        | 705,894.8   | 712,566.5   | 708,864.5   | 653,178.6 | 623,042.1 | 698,121.6 | 737,954.1   |
| Bahrain                     | 596.0       | 696.8       | 601.7       | 426.6     | 338.7     | 522.4     | 343.3       |
| Bangladesh                  | 2,745.8     | 3,391.1     | 4,445.5     | 3,515.9   | 3,919.8   | 4,349.3   | 4,998.3     |
| Brunei Darussalam           | 1,708.8     | 1,513.9     | 1,411.1     | 1,257.6   | 1,173.7   | 1,466.7   | 1,898.1     |
| Cambodia                    | 3,434.8     | 8,469.0     | 4,978.8     | 5,169.9   | 5,280.7   | 4,467.3   | 6,610.6     |
| Mainland China              | 104,905.7   | 116,664.7   | 125,546.7   | 128,569.6 | 117,198.4 | 137,115.1 | 135,020.4   |
| Hong Kong                   | 61,804.1    | 62,126.3    | 62,426.4    | 61,571.3  | 64,192.6  | 69,605.9  | 70,588.2    |
| India                       | 30,980.1    | 25,745.8    | 25,039.1    | 23,027.2  | 22,011.7  | 25,235.8  | 26,445.5    |
| Indonesia                   | 81,866.1    | 78,924.6    | 72,857.4    | 61,561.0  | 56,057.2  | 59,441.5  | 65,003.2    |
| Japan                       | 52,559.7    | 47,914.8    | 47,000.1    | 47,383.1  | 49,527.5  | 51,794.3  | 56,883.5    |
| Republic of Korea           | 53,120.6    | 50,964.6    | 48,771.2    | 45,067.1  | 43,564.1  | 45,424.7  | 40,286.3    |
| Kuwait                      | 6,214.3     | 4,724.0     | 4,575.7     | 3,909.3   | 3,602.7   | 4,746.1   | 5,731.6     |
| Laos                        | 44.3        | 40.2        | 62.5        | 127.2     | 71.8      | 53.1      | 70.5        |
| Malaysia                    | 115,031.5   | 116,091.4   | 112,931.3   | 98,577.7  | 93,749.4  | 108,220.4 | 118,329.7   |
| Myanmar                     | 1,772.4     | 3,039.4     | 3,238.0     | 3,546.3   | 3,320.6   | 3,632.0   | 3,996.6     |
| Pakistan                    | 1,201.1     | 1,426.5     | 1,725.4     | 1,804.1   | 1,190.3   | 1,432.8   | 1,368.7     |
| Philippines                 | 15,467.3    | 14,745.0    | 15,025.4    | 15,053.3  | 15,472.5  | 17,948.5  | 21,280.8    |
| Saudi Arabia                | 23,016.8    | 17,639.8    | 20,113.7    | 12,316.9  | 12,312.9  | 13,756.0  | 18,069.3    |
| Sri Lanka                   | 2,099.7     | 2,654.7     | 2,372.0     | 2,081.1   | 2,133.6   | 2,704.1   | 2,530.6     |
| Taiwan                      | 49,677.4    | 55,500.1    | 58,528.5    | 53,909.6  | 52,533.8  | 60,357.7  | 65,301.4    |
| Thailand                    | 32,679.7    | 30,873.4    | 30,774.7    | 30,381.6  | 28,973.4  | 30,164.5  | 32,186.8    |
| United Arab Emirates        | 26,805.3    | 30,182.5    | 27,851.3    | 19,355.6  | 15,532.5  | 17,251.7  | 18,097.8    |
| Viet Nam                    | 15,411.6    | 16,754.7    | 19,532.1    | 21,599.5  | 19,828.1  | 21,595.9  | 20,908.3    |
| Europe                      | 126,905.2   | 127,524.1   | 125,310.7   | 116,237.6 | 117,229.2 | 124,011.8 | 142,853.2   |
| France                      | 19,158.3    | 15,421.9    | 14,494.7    | 14,187.9  | 15,972.0  | 16,973.3  | 21,316.1    |
| Germany                     | 20,645.3    | 20,916.6    | 20,310.9    | 19,931.5  | 19,974.4  | 21,641.1  | 22,315.3    |
| Italy                       | 5,478.6     | 5,843.5     | 6,148.2     | 5,654.5   | 5,984.3   | 6,194.8   | 6,995.5     |
| Netherlands                 | 18,677.9    | 15,188.1    | 15,191.5    | 14,150.3  | 14,755.6  | 15,622.6  | 17,822.0    |
| Sweden                      | 1,848.4     | 1,671.8     | 1,578.9     | 1,788.9   | 1,577.4   | 1,827.4   | 1,806.3     |
| United Kingdom              | 16,495.0    | 14,308.5    | 12,416.9    | 12,142.2  | 11,500.8  | 11,434.3  | 16,247.4    |
| Switzerland                 | 11,684.4    | 18,790.8    | 14,824.9    | 14,512.9  | 15,687.9  | 15,885.1  | 16,920.7    |
| Oceania                     | 39,243.1    | 36,489.3    | 40,584.8    | 31,284.1  | 25,480.3  | 29,209.6  | 36,681.0    |
| Australia                   | 28,161.5    | 26,158.3    | 29,487.3    | 22,915.6  | 18,181.9  | 19,441.7  | 24,466.6    |
| New Zealand                 | 3,480.9     | 3,408.0     | 3,949.7     | 3,363.4   | 2,834.1   | 3,683.5   | 4,129.0     |
| Africa                      | 14,129.3    | 15,030.3    | 15,874.6    | 11,655.5  | 8,841.0   | 10,322.0  | 13,379.0    |
| European Union <sup>1</sup> | 105,417.0   | 96,670.3    | 95,916.7    | 90,831.8  | 93,181.8  | 98,442.2  | 114,686.3   |

Source : 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.

# 15.3 MERCHANDISE IMPORTS BY REGION/MARKET

Million Dollars

| Region / Country            | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total                       | 482,189.8 | 485,570.7 | 478,582.6 | 423,402.6 | 403,304.6 | 452,101.6 | 500,194.0 |
| America                     | 63,758.6  | 66,237.4  | 64,816.4  | 56,281.2  | 51,683.4  | 58,006.5  | 66,579.0  |
| Brazil                      | 2,555.2   | 2,131.1   | 2,822.4   | 1,950.9   | 1,539.5   | 2,000.9   | 2,099.1   |
| Canada                      | 1,555.9   | 1,619.7   | 1,732.6   | 1,839.4   | 1,895.3   | 1,856.0   | 2,082.3   |
| United States               | 48,157.2  | 48,399.2  | 48,278.4  | 45,886.6  | 42,580.6  | 47,555.8  | 56,564.0  |
| Asia                        | 331,756.9 | 324,310.2 | 317,895.6 | 282,351.6 | 273,037.3 | 307,674.9 | 332,172.4 |
| Bahrain                     | 468.2     | 571.3     | 416.0     | 272.1     | 197.4     | 358.7     | 167.8     |
| Bangladesh                  | 131.8     | 154.6     | 167.7     | 209.3     | 300.2     | 376.5     | 363.2     |
| Brunei Darussalam           | 164.0     | 69.2      | 293.4     | 189.4     | 114.2     | 420.7     | 708.4     |
| Cambodia                    | 723.2     | 228.8     | 344.2     | 219.9     | 1,840.8   | 353.2     | 162.1     |
| Mainland China              | 49,604.0  | 55,017.4  | 56,284.5  | 57,915.3  | 55,945.8  | 62,555.0  | 67,008.3  |
| Hong Kong                   | 3,932.1   | 4,484.7   | 4,419.4   | 5,057.7   | 4,446.4   | 6,122.6   | 4,911.9   |
| India                       | 16,214.5  | 11,416.2  | 10,480.6  | 7,921.8   | 8,151.2   | 10,033.8  | 9,803.6   |
| Indonesia                   | 25,639.6  | 24,320.1  | 24,131.3  | 20,873.1  | 19,334.8  | 20,875.1  | 20,536.5  |
| Japan                       | 29,963.9  | 25,917.1  | 25,792.8  | 26,377.8  | 29,416.4  | 28,260.2  | 29,902.3  |
| Republic of Korea           | 32,407.4  | 30,167.3  | 27,633.3  | 25,165.9  | 23,510.4  | 22,322.2  | 19,160.8  |
| Kuwait                      | 5,991.3   | 4,325.1   | 4,326.4   | 3,667.5   | 3,326.7   | 4,453.4   | 5,499.4   |
| Laos                        | 6.8       | 7.2       | 19.6      | 18.3      | 7.4       | 9.0       | 11.5      |
| Malaysia                    | 50,592.2  | 51,150.7  | 49,472.0  | 45,439.7  | 44,536.6  | 53,609.9  | 57,747.4  |
| Myanmar                     | 98.8      | 224.3     | 203.1     | 172.6     | 174.5     | 153.3     | 266.4     |
| Pakistan                    | 81.0      | 150.2     | 245.1     | 319.5     | 106.3     | 95.5      | 86.9      |
| Philippines                 | 7,546.8   | 6,366.1   | 6,324.6   | 6,237.6   | 6,484.2   | 7,919.4   | 10,550.7  |
| Saudi Arabia                | 21,508.6  | 16,095.0  | 18,504.3  | 10,957.7  | 11,228.4  | 12,629.6  | 17,052.8  |
| Sri Lanka                   | 105.5     | 177.2     | 138.7     | 146.3     | 132.0     | 177.5     | 127.6     |
| Taiwan                      | 31,619.2  | 36,357.8  | 38,089.8  | 34,065.9  | 32,184.5  | 37,440.9  | 42,415.4  |
| Thailand                    | 12,669.5  | 11,642.9  | 11,107.2  | 11,033.9  | 9,962.1   | 9,894.0   | 11,193.8  |
| United Arab Emirates        | 20,890.4  | 23,095.7  | 20,163.0  | 11,898.0  | 9,899.5   | 12,187.3  | 13,088.2  |
| Viet Nam                    | 2,806.7   | 3,825.8   | 4,052.2   | 4,943.1   | 4,148.1   | 4,632.8   | 4,679.9   |
| Europe                      | 76,407.8  | 83,707.1  | 80,390.1  | 73,653.4  | 68,789.2  | 75,714.8  | 87,925.4  |
| France                      | 11,343.5  | 10,123.8  | 10,254.8  | 10,035.6  | 11,809.7  | 12,334.8  | 15,420.0  |
| Germany                     | 13,203.6  | 13,607.0  | 13,486.6  | 12,307.2  | 12,054.5  | 13,092.9  | 13,657.8  |
| Italy                       | 4,473.9   | 4,913.9   | 5,242.2   | 4,863.3   | 5,101.1   | 5,207.2   | 5,863.6   |
| Netherlands                 | 9,799.8   | 7,156.2   | 5,959.1   | 5,635.7   | 5,219.2   | 4,841.6   | 5,801.0   |
| Sweden                      | 1,614.2   | 1,521.1   | 1,417.7   | 1,599.9   | 1,352.3   | 1,555.3   | 1,537.6   |
| United Kingdom              | 8,779.2   | 9,990.0   | 7,850.8   | 7,895.0   | 7,426.7   | 7,640.6   | 10,426.4  |
| Switzerland                 | 8,880.7   | 16,909.6  | 12,538.8  | 12,107.2  | 10,764.7  | 12,607.1  | 13,663.9  |
| Oceania                     | 7,934.8   | 7,877.1   | 11,123.0  | 8,367.4   | 6,435.6   | 7,190.4   | 8,815.0   |
| Australia                   | 6,899.7   | 6,725.9   | 9,918.7   | 7,063.2   | 5,240.9   | 5,636.5   | 7,367.7   |
| New Zealand                 | 872.5     | 1,062.5   | 1,125.2   | 989.9     | 824.8     | 1,200.7   | 1,091.4   |
| Africa                      | 2,331.8   | 3,438.9   | 4,357.6   | 2,749.0   | 3,359.0   | 3,515.0   | 4,702.2   |
| European Union <sup>1</sup> | 59,658.7  | 57,760.9  | 55,441.8  | 52,162.7  | 53,059.5  | 55,366.1  | 65,116.7  |

Source : 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/MARKET

Million Dollars

| Region / Country            | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total                       | 519,354.1 | 525,507.2 | 526,067.4 | 491,816.1 | 466,911.6 | 515,000.8 | 555,665.1 |
| America                     | 51,613.0  | 53,230.3  | 49,199.1  | 46,581.8  | 43,940.2  | 47,431.0  | 58,412.7  |
| Brazil                      | 1,725.8   | 3,421.6   | 2,021.1   | 1,572.8   | 1,203.0   | 1,667.5   | 1,566.7   |
| Canada                      | 1,492.5   | 2,016.1   | 1,236.8   | 1,028.1   | 1,026.9   | 1,009.7   | 1,276.4   |
| United States               | 27,182.3  | 28,588.7  | 27,484.0  | 29,846.3  | 29,833.7  | 32,362.2  | 41,345.5  |
| Asia                        | 374,137.9 | 388,256.3 | 390,968.9 | 370,827.0 | 350,004.7 | 390,446.7 | 405,781.8 |
| Bahrain                     | 127.8     | 125.6     | 185.8     | 154.5     | 141.2     | 163.7     | 175.5     |
| Bangladesh                  | 2,614.0   | 3,236.5   | 4,277.8   | 3,306.6   | 3,619.6   | 3,972.9   | 4,635.1   |
| Brunei Darussalam           | 1,544.8   | 1,444.7   | 1,117.6   | 1,068.2   | 1,059.5   | 1,046.0   | 1,189.8   |
| Cambodia                    | 2,711.6   | 8,240.2   | 4,634.6   | 4,950.1   | 3,439.9   | 4,114.1   | 6,448.5   |
| Mainland China              | 55,301.7  | 61,647.2  | 69,262.2  | 70,654.3  | 61,252.5  | 74,560.1  | 68,012.1  |
| Hong Kong                   | 57,872.0  | 57,641.6  | 58,007.0  | 56,513.6  | 59,746.2  | 63,483.4  | 65,676.3  |
| India                       | 14,765.6  | 14,329.5  | 14,558.4  | 15,105.4  | 13,860.5  | 15,202.0  | 16,641.9  |
| Indonesia                   | 56,226.5  | 54,604.4  | 48,726.0  | 40,687.8  | 36,722.4  | 38,566.4  | 44,466.7  |
| Japan                       | 22,595.8  | 21,997.7  | 21,207.2  | 21,005.3  | 20,111.1  | 23,534.1  | 26,981.2  |
| Republic of Korea           | 20,713.2  | 20,797.3  | 21,137.9  | 19,901.3  | 20,053.8  | 23,102.5  | 21,125.5  |
| Kuwait                      | 223.0     | 399.0     | 249.3     | 241.7     | 275.9     | 292.7     | 232.3     |
| Laos                        | 37.6      | 33.0      | 42.9      | 108.9     | 64.4      | 44.1      | 59.0      |
| Malaysia                    | 64,439.3  | 64,940.6  | 63,459.3  | 53,138.0  | 49,212.8  | 54,610.4  | 60,582.3  |
| Myanmar                     | 1,673.6   | 2,815.1   | 3,034.8   | 3,373.7   | 3,146.1   | 3,478.7   | 3,730.1   |
| Pakistan                    | 1,120.1   | 1,276.3   | 1,480.2   | 1,484.6   | 1,084.0   | 1,337.4   | 1,281.8   |
| Philippines                 | 7,920.4   | 8,378.9   | 8,700.9   | 8,815.7   | 8,988.2   | 10,029.1  | 10,730.1  |
| Saudi Arabia                | 1,508.2   | 1,544.8   | 1,609.4   | 1,359.2   | 1,084.5   | 1,126.4   | 1,016.5   |
| Sri Lanka                   | 1,994.1   | 2,477.5   | 2,233.3   | 1,934.9   | 2,001.7   | 2,526.6   | 2,403.0   |
| Taiwan                      | 18,058.2  | 19,142.3  | 20,438.7  | 19,843.7  | 20,349.3  | 22,916.9  | 22,886.0  |
| Thailand                    | 20,010.1  | 19,230.5  | 19,667.5  | 19,347.6  | 19,011.4  | 20,270.5  | 20,993.0  |
| United Arab Emirates        | 5,914.9   | 7,086.7   | 7,688.3   | 7,457.6   | 5,633.0   | 5,064.4   | 5,009.6   |
| Viet Nam                    | 12,604.8  | 12,928.9  | 15,479.8  | 16,656.4  | 15,680.0  | 16,963.1  | 16,228.4  |
| Europe                      | 50,497.3  | 43,816.9  | 44,920.7  | 42,584.2  | 48,440.0  | 48,296.9  | 54,927.8  |
| France                      | 7,814.8   | 5,298.1   | 4,239.9   | 4,152.3   | 4,162.3   | 4,638.6   | 5,896.1   |
| Germany                     | 7,441.8   | 7,309.7   | 6,824.4   | 7,624.3   | 7,919.9   | 8,548.1   | 8,657.4   |
| Italy                       | 1,004.7   | 929.6     | 906.0     | 791.2     | 883.2     | 987.6     | 1,131.9   |
| Netherlands                 | 8,878.1   | 8,031.9   | 9,232.3   | 8,514.6   | 9,536.4   | 10,781.0  | 12,021.0  |
| Sweden                      | 234.2     | 150.8     | 161.2     | 189.0     | 225.1     | 272.1     | 268.7     |
| United Kingdom              | 7,715.8   | 4,318.5   | 4,566.1   | 4,247.2   | 4,074.0   | 3,793.7   | 5,821.0   |
| Switzerland                 | 2,803.7   | 1,881.2   | 2,286.1   | 2,405.6   | 4,923.2   | 3,278.0   | 3,256.8   |
| Oceania                     | 31,308.4  | 28,612.3  | 29,461.8  | 22,916.7  | 19,044.7  | 22,019.1  | 27,866.0  |
| Australia                   | 21,261.8  | 19,432.3  | 19,568.7  | 15,852.3  | 12,941.0  | 13,805.2  | 17,098.9  |
| New Zealand                 | 2,608.4   | 2,345.5   | 2,824.5   | 2,373.5   | 2,009.4   | 2,482.8   | 3,037.6   |
| Africa                      | 11,797.5  | 11,591.4  | 11,517.0  | 8,906.4   | 5,482.0   | 6,807.0   | 8,676.8   |
| European Union <sup>1</sup> | 45,758.3  | 38,909.4  | 40,474.9  | 38,669.1  | 40,122.3  | 43,076.1  | 49,569.5  |

Source : 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/MARKET

Million Dollars

| Region / Country            | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total                       | 285,168.9 | 271,216.8 | 269,778.1 | 237,732.9 | 223,933.3 | 259,301.9 | 281,137.8 |
| America                     | 38,748.9  | 36,257.8  | 33,989.0  | 30,309.4  | 27,215.6  | 28,487.9  | 36,725.8  |
| Brazil                      | 904.4     | 885.4     | 838.2     | 563.6     | 387.1     | 745.7     | 549.6     |
| Canada                      | 942.1     | 921.6     | 767.4     | 574.7     | 500.0     | 493.2     | 679.7     |
| United States               | 17,156.3  | 16,471.2  | 15,375.3  | 16,573.5  | 16,132.8  | 16,756.6  | 22,969.3  |
| Asia                        | 179,367.8 | 177,387.7 | 179,302.6 | 161,415.4 | 152,904.4 | 183,213.1 | 186,371.1 |
| Bahrain                     | 41.3      | 59.2      | 73.2      | 82.9      | 86.4      | 117.0     | 89.0      |
| Bangladesh                  | 1,096.6   | 1,611.0   | 2,062.1   | 1,495.5   | 1,589.6   | 1,749.4   | 2,242.1   |
| Brunei Darussalam           | 709.3     | 550.7     | 390.2     | 481.9     | 489.7     | 546.0     | 544.2     |
| Cambodia                    | 621.6     | 1,085.4   | 1,037.5   | 986.5     | 773.0     | 1,244.3   | 2,445.4   |
| Mainland China              | 29,400.7  | 30,573.6  | 32,680.0  | 31,229.8  | 28,732.8  | 39,765.4  | 35,226.4  |
| Hong Kong                   | 26,534.5  | 25,336.0  | 19,575.2  | 17,608.9  | 19,272.5  | 21,175.5  | 21,873.4  |
| India                       | 6,268.1   | 6,389.3   | 6,720.5   | 7,024.3   | 6,187.9   | 7,159.4   | 7,340.0   |
| Indonesia                   | 22,243.0  | 22,782.4  | 23,804.7  | 18,246.8  | 16,251.3  | 19,004.2  | 23,214.5  |
| Japan                       | 12,047.3  | 10,554.8  | 10,021.1  | 10,033.1  | 9,173.8   | 10,797.3  | 12,204.7  |
| Republic of Korea           | 10,776.5  | 8,783.7   | 9,036.4   | 7,846.9   | 7,469.5   | 10,439.7  | 8,353.9   |
| Kuwait                      | 123.7     | 112.8     | 119.9     | 132.7     | 151.1     | 165.3     | 149.0     |
| Laos                        | 2.7       | 5.7       | 8.4       | 14.7      | 8.9       | 9.8       | 10.4      |
| Malaysia                    | 32,365.0  | 31,917.7  | 33,572.2  | 26,408.3  | 24,164.9  | 27,266.8  | 31,430.2  |
| Myanmar                     | 758.7     | 1,549.1   | 1,555.8   | 1,813.0   | 1,781.4   | 2,111.3   | 2,585.6   |
| Pakistan                    | 455.0     | 534.5     | 786.5     | 734.7     | 428.9     | 616.2     | 693.7     |
| Philippines                 | 3,919.7   | 3,880.0   | 4,094.7   | 4,103.0   | 4,074.6   | 4,648.2   | 4,361.7   |
| Saudi Arabia                | 1,034.6   | 697.1     | 1,040.9   | 918.9     | 744.4     | 749.1     | 663.5     |
| Sri Lanka                   | 977.3     | 964.8     | 1,297.1   | 1,065.7   | 1,020.5   | 1,186.0   | 1,296.9   |
| Taiwan                      | 10,993.6  | 11,222.1  | 11,879.1  | 10,257.3  | 11,177.2  | 12,792.2  | 11,922.7  |
| Thailand                    | 8,717.7   | 8,192.5   | 8,677.8   | 8,488.9   | 8,261.6   | 9,386.1   | 8,832.1   |
| United Arab Emirates        | 2,521.5   | 3,161.0   | 2,726.0   | 3,364.7   | 2,592.6   | 2,485.3   | 2,451.8   |
| Viet Nam                    | 5,558.9   | 5,460.1   | 6,437.7   | 7,327.7   | 6,856.4   | 7,915.6   | 6,429.9   |
| Europe                      | 36,607.6  | 28,901.5  | 28,281.1  | 25,594.0  | 28,815.5  | 27,995.1  | 32,266.3  |
| France                      | 5,786.1   | 2,938.5   | 2,442.4   | 2,191.5   | 1,937.0   | 2,157.4   | 2,408.7   |
| Germany                     | 4,302.8   | 3,864.7   | 2,847.9   | 2,639.0   | 2,514.1   | 3,141.5   | 2,869.9   |
| Italy                       | 720.5     | 623.5     | 555.6     | 493.5     | 449.1     | 590.3     | 668.5     |
| Netherlands                 | 5,912.9   | 4,776.8   | 5,058.5   | 5,033.0   | 5,460.0   | 6,169.6   | 6,917.6   |
| Sweden                      | 123.2     | 106.3     | 115.4     | 123.5     | 147.6     | 214.9     | 201.6     |
| United Kingdom              | 5,758.6   | 2,362.1   | 2,532.2   | 2,189.1   | 1,836.8   | 1,676.1   | 3,319.2   |
| Switzerland                 | 1,913.6   | 1,037.7   | 1,297.3   | 1,186.5   | 3,249.0   | 1,881.3   | 2,343.7   |
| Oceania                     | 21,585.6  | 20,278.2  | 19,629.8  | 13,881.9  | 10,926.6  | 14,236.4  | 19,132.4  |
| Australia                   | 13,982.6  | 12,975.6  | 12,021.4  | 8,467.4   | 6,224.7   | 7,555.5   | 10,477.9  |
| New Zealand                 | 1,750.8   | 1,554.9   | 1,990.0   | 1,478.6   | 1,219.7   | 1,565.7   | 1,658.3   |
| Africa                      | 8,858.9   | 8,391.7   | 8,575.6   | 6,532.1   | 4,071.3   | 5,369.5   | 6,642.3   |
| European Union <sup>1</sup> | 33,275.9  | 25,397.5  | 25,464.6  | 23,355.1  | 23,023.0  | 24,804.5  | 28,622.4  |

Source : 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/MARKET

Million Dollars

| Region / Country            | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total                       | 178,354.4 | 164,740.2 | 162,791.3 | 165,229.0 | 160,558.5 | 174,735.9 | 182,133.2 |
| America                     | 24,369.8  | 21,496.5  | 21,301.6  | 22,210.7  | 20,646.0  | 20,293.4  | 27,263.5  |
| Brazil                      | 866.9     | 810.6     | 836.0     | 562.3     | 381.9     | 668.5     | 525.7     |
| Canada                      | 664.4     | 712.0     | 564.0     | 449.1     | 419.4     | 371.5     | 478.9     |
| United States               | 16,377.7  | 14,685.3  | 14,374.8  | 15,313.2  | 14,906.8  | 15,467.6  | 21,370.5  |
| Asia                        | 118,155.5 | 115,048.3 | 114,488.8 | 115,603.5 | 110,737.0 | 127,961.7 | 125,138.7 |
| Bahrain                     | 35.0      | 40.7      | 57.2      | 76.7      | 84.8      | 86.8      | 87.6      |
| Bangladesh                  | 381.2     | 519.2     | 664.6     | 683.9     | 598.1     | 666.3     | 720.4     |
| Brunei Darussalam           | 469.0     | 499.1     | 365.3     | 356.3     | 252.7     | 204.4     | 217.5     |
| Cambodia                    | 141.5     | 536.2     | 461.3     | 693.5     | 439.6     | 821.5     | 2,051.5   |
| Mainland China              | 21,209.7  | 23,553.6  | 25,743.3  | 25,981.4  | 24,227.9  | 31,757.9  | 28,953.7  |
| Hong Kong                   | 16,102.9  | 14,948.8  | 11,712.5  | 12,064.8  | 14,453.3  | 14,303.8  | 13,741.1  |
| India                       | 5,211.7   | 5,579.9   | 5,760.6   | 5,887.3   | 5,323.4   | 6,363.4   | 6,442.2   |
| Indonesia                   | 11,726.6  | 10,642.1  | 10,202.3  | 9,305.0   | 8,270.8   | 8,939.4   | 9,945.8   |
| Japan                       | 11,012.9  | 9,900.6   | 9,204.0   | 9,151.3   | 8,391.3   | 9,823.6   | 10,942.4  |
| Republic of Korea           | 8,672.7   | 6,477.5   | 6,189.9   | 6,402.4   | 6,255.2   | 8,976.5   | 7,397.5   |
| Kuwait                      | 113.3     | 86.8      | 86.6      | 128.5     | 147.5     | 160.0     | 125.6     |
| Laos                        | 2.7       | 5.7       | 8.4       | 14.1      | 8.4       | 9.4       | 10.1      |
| Malaysia                    | 14,034.6  | 12,807.9  | 13,657.0  | 13,179.3  | 12,517.7  | 14,126.7  | 13,993.5  |
| Myanmar                     | 380.8     | 853.0     | 571.7     | 584.9     | 418.7     | 381.9     | 402.3     |
| Pakistan                    | 349.3     | 366.3     | 353.7     | 374.1     | 345.5     | 415.3     | 389.7     |
| Philippines                 | 2,794.4   | 2,747.3   | 3,098.5   | 3,056.1   | 3,135.0   | 3,405.1   | 3,368.7   |
| Saudi Arabia                | 894.5     | 599.7     | 865.2     | 840.7     | 627.1     | 627.1     | 496.1     |
| Sri Lanka                   | 286.0     | 274.1     | 281.3     | 341.1     | 310.5     | 362.2     | 294.0     |
| Taiwan                      | 10,394.0  | 10,495.0  | 10,990.5  | 9,901.3   | 10,379.3  | 11,650.0  | 11,125.5  |
| Thailand                    | 7,640.8   | 7,127.7   | 7,085.6   | 7,569.0   | 7,008.7   | 7,568.8   | 7,470.3   |
| United Arab Emirates        | 2,150.8   | 2,580.1   | 2,324.2   | 3,029.4   | 2,228.3   | 2,103.9   | 1,860.8   |
| Viet Nam                    | 2,748.8   | 3,034.8   | 3,382.7   | 4,436.7   | 3,842.4   | 3,725.3   | 3,469.7   |
| Europe                      | 28,111.9  | 21,648.0  | 20,174.0  | 20,831.3  | 24,126.5  | 21,310.0  | 24,573.9  |
| France                      | 5,598.8   | 2,775.2   | 2,323.1   | 2,118.0   | 1,883.1   | 2,051.3   | 2,088.2   |
| Germany                     | 3,623.1   | 3,199.8   | 2,236.3   | 2,356.5   | 2,298.8   | 2,847.0   | 2,497.0   |
| Italy                       | 288.8     | 322.1     | 298.5     | 366.8     | 346.6     | 422.7     | 485.8     |
| Netherlands                 | 4,283.2   | 4,304.5   | 4,704.9   | 4,472.0   | 4,314.6   | 4,891.6   | 5,979.4   |
| Sweden                      | 98.2      | 70.9      | 91.0      | 112.6     | 143.9     | 209.2     | 197.1     |
| United Kingdom              | 4,881.4   | 1,496.6   | 1,741.1   | 1,858.2   | 1,560.7   | 1,294.9   | 2,917.9   |
| Switzerland                 | 1,882.0   | 1,012.7   | 1,264.6   | 1,167.1   | 3,228.2   | 1,855.4   | 2,317.3   |
| Oceania                     | 5,650.0   | 5,113.2   | 5,446.2   | 5,417.5   | 4,051.6   | 4,076.8   | 3,995.9   |
| Australia                   | 4,727.2   | 4,155.9   | 4,267.7   | 4,422.2   | 3,227.9   | 3,235.4   | 3,163.7   |
| New Zealand                 | 620.0     | 654.7     | 909.8     | 741.4     | 591.5     | 607.8     | 588.2     |
| Africa                      | 2,067.1   | 1,434.2   | 1,380.6   | 1,166.1   | 997.4     | 1,093.9   | 1,161.2   |
| European Union <sup>1</sup> | 25,890.5  | 19,300.5  | 18,526.3  | 19,300.3  | 18,883.9  | 18,909.5  | 21,870.5  |

Source : Enterprise Singapore

Notes : Data are based on Standard International Trade Classification Rev 4.1 and consistent with the ASEAN Harmonised Tariff Nomenclature 2017 version.

- 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   | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total   | 482,189.8 | 485,570.7 | 478,582.6 | 423,402.6 | 403,304.6 | 452,101.6 | 500,194.0 |
| Food  | 10,035.6  | 10,590.7  | 11,353.5  | 11,254.1  | 10,780.8  | 10,939.5  | 11,315.2  |
| Coffee, tea, cocoa, spices & manufactures   | 1,282.5   | 1,248.2   | 1,525.2   | 1,568.5   | 1,394.9   | 1,279.5   | 1,283.6   |
| Fish, seafood (excl marine mammals) & preparations  | 1,316.1   | 1,317.9   | 1,386.5   | 1,481.7   | 1,532.8   | 1,506.7   | 1,568.6   |
| Vegetables & fruits   | 1,723.5   | 1,874.4   | 2,012.9   | 2,148.5   | 2,239.7   | 2,251.5   | 2,207.5   |
| Beverages & Tobacco   | 4,015.4   | 4,490.4   | 4,399.2   | 4,368.1   | 4,427.3   | 4,734.7   | 5,116.3   |
| Beverages   | 3,070.6   | 3,475.8   | 3,361.0   | 3,233.9   | 3,219.1   | 3,499.8   | 3,850.8   |
| Tobacco & manufactures  | 944.9     | 1,014.6   | 1,038.3   | 1,134.3   | 1,208.2   | 1,234.9   | 1,265.5   |
| Crude Materials   | 3,881.3   | 4,203.9   | 3,615.3   | 3,369.0   | 3,204.5   | 3,577.4   | 3,831.8   |
| Metalliferous ores & metal scrap  | 906.1     | 758.9     | 635.9     | 472.8     | 390.2     | 443.3     | 602.5     |
| Crude rubber  | 716.8     | 517.8     | 377.7     | 653.0     | 627.4     | 763.8     | 647.3     |
| Crude fertilizers & minerals (excl coal petroleum & precious stones)                      | 1,113.9   | 1,625.3   | 1,295.3   | 970.8     | 880.3     | 1,248.0   | 1,018.1   |
| Crude animal & vegetable materials nes  | 398.0     | 474.3     | 457.0     | 444.7     | 441.2     | 437.3     | 451.4     |
| Mineral Fuels & Lubricants  | 154,804.2 | 146,280.6 | 143,742.1 | 88,774.9  | 70,530.2  | 99,861.4  | 118,708.9 |
| Petroleum & products & related materials  | 147,142.0 | 138,065.8 | 135,275.7 | 83,757.3  | 66,718.9  | 94,308.4  | 111,344.3 |
| Animal & Vegetable Oils   | 1,742.7   | 1,425.3   | 1,346.1   | 1,080.4   | 1,302.8   | 1,417.8   | 1,243.6   |
| Fixed vegetable fats & oils, crude, refined or fractionated                               | 1,416.8   | 877.4     | 823.9     | 625.5     | 586.8     | 552.9     | 520.7     |
| Animal or vegetable fats & oils <sup>1</sup> nes  | 47.9      | 43.4      | 67.0      | 78.9      | 169.8     | 214.1     | 210.3     |
| Chemicals & Chemical Products   | 32,401.3  | 31,885.6  | 32,810.3  | 31,461.5  | 32,134.7  | 36,993.1  | 40,684.5  |
| Organic chemicals   | 8,791.9   | 9,361.5   | 9,593.1   | 8,331.9   | 8,066.3   | 9,133.6   | 9,881.2   |
| Plastics in primary forms   | 6,865.7   | 5,709.0   | 6,134.5   | 5,556.0   | 5,539.6   | 6,490.0   | 7,513.4   |
| Medicinal & pharmaceutical products   | 3,263.4   | 3,263.7   | 3,352.7   | 3,669.2   | 3,784.5   | 4,121.9   | 4,627.3   |
| Essential oils & resinoids & perfume materials; toilet polishing & cleansing preparations | 3,502.7   | 3,858.2   | 4,016.3   | 4,258.0   | 4,812.5   | 5,715.4   | 6,753.1   |

*(continued on the next page)*

Source : Enterprise Singapore

Notes : Data are based on Standard International Trade Classification Rev 4.1 and consistent with the ASEAN Harmonised Tariff Nomenclature 2017 version.

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

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## 15.7 MERCHANDISE IMPORTS BY COMMODITY SECTION *(continued)*

|   |           |           |           |           |           |           | Million Dollars |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| Commodity Section   | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018            |
| Manufactured Goods  | 29,642.1  | 29,251.1  | 31,795.0  | 28,211.5  | 26,482.2  | 24,818.2  | 25,667.1        |
| Non-ferrous metals  | 5,307.9   | 4,822.9   | 6,357.7   | 5,394.5   | 5,298.7   | 4,621.3   | 3,752.9         |
| Iron & steel  | 8,163.0   | 7,943.6   | 7,399.7   | 5,966.7   | 4,438.9   | 4,599.9   | 5,847.7         |
| Manufactures of metals nes  | 6,553.9   | 6,725.5   | 6,874.9   | 6,334.0   | 6,157.3   | 5,436.5   | 5,693.7         |
| Non-metallic mineral manufactures nes   | 3,799.8   | 4,226.4   | 5,656.0   | 5,118.6   | 5,383.0   | 4,867.1   | 5,225.4         |
| Textile yarn, fabrics, made-up articles nes & related products                    | 1,390.6   | 1,386.2   | 1,373.8   | 1,339.6   | 1,304.6   | 1,190.0   | 1,156.8         |
| Paper, paperboard & articles of paper pulp or paperboard pulp                     | 2,278.9   | 2,169.4   | 2,131.1   | 2,067.1   | 2,069.4   | 2,331.6   | 2,262.5         |
| Rubber manufactures nes   | 1,474.5   | 1,261.5   | 1,226.4   | 1,120.7   | 1,024.8   | 1,110.2   | 1,117.0         |
| Machinery & Equipment   | 196,288.1 | 195,446.1 | 191,976.9 | 194,597.3 | 193,317.0 | 207,685.9 | 230,967.8       |
| Electronics   | 115,648.1 | 119,543.3 | 117,484.2 | 118,366.9 | 117,229.2 | 129,723.9 | 137,161.6       |
| Integrated circuits   | 63,222.6  | 69,962.2  | 69,095.6  | 68,155.2  | 69,600.2  | 78,645.9  | 83,411.2        |
| Parts of personal computers   | 10,862.1  | 9,790.7   | 9,644.8   | 9,838.6   | 9,128.8   | 10,330.7  | 10,060.3        |
| Disk drives   | 2,545.0   | 2,401.8   | 2,474.2   | 2,719.6   | 2,121.6   | 2,559.7   | 2,018.2         |
| Telecommunications equipment <sup>2</sup>   | 12,722.0  | 11,886.4  | 10,874.0  | 11,432.8  | 11,337.4  | 12,438.4  | 13,297.1        |
| Consumer electronics <sup>3</sup>   | 4,524.9   | 4,135.2   | 4,000.8   | 3,428.0   | 3,220.1   | 3,575.8   | 3,319.6         |
| Personal computers  | 5,123.7   | 4,761.7   | 4,302.7   | 4,782.3   | 4,443.3   | 5,068.5   | 6,076.5         |
| Parts of integrated circuits  | 4,364.5   | 4,369.0   | 4,797.8   | 4,759.4   | 4,098.2   | 3,044.4   | 2,778.3         |
| Diodes and transistors  | 5,504.3   | 5,857.5   | 6,251.2   | 7,003.3   | 7,098.7   | 7,203.3   | 8,483.4         |
| Non-electronics   | 80,640.0  | 75,902.8  | 74,492.6  | 76,230.4  | 76,087.8  | 77,962.0  | 93,806.3        |
| Electrical circuit apparatus  | 5,187.2   | 5,438.3   | 5,485.5   | 5,422.8   | 5,228.9   | 5,502.2   | 6,196.4         |
| Electrical machinery nes  | 4,738.8   | 4,429.8   | 4,582.7   | 4,980.5   | 4,913.1   | 4,987.6   | 5,214.6         |
| Miscellaneous Manufactures  | 33,934.6  | 35,966.4  | 35,237.3  | 35,686.0  | 37,169.2  | 38,437.5  | 39,726.7        |
| Professional scientific & controlling instruments & apparatus nes                 | 9,647.7   | 10,536.4  | 10,538.6  | 10,918.6  | 12,259.4  | 12,013.9  | 12,587.6        |
| Photographic apparatus equipment & supplies & optical goods nes; watches & clocks | 4,615.3   | 4,572.4   | 4,765.4   | 4,898.1   | 4,392.4   | 4,644.5   | 4,837.3         |
| Articles of apparel & clothing accessories  | 2,985.7   | 3,649.1   | 3,272.1   | 3,350.0   | 3,334.2   | 3,570.7   | 3,601.2         |
| Miscellaneous manufactured articles nes   | 12,833.1  | 13,169.2  | 12,488.6  | 12,174.4  | 12,642.6  | 13,441.3  | 13,406.8        |
| Miscellaneous   | 15,444.5  | 26,030.5  | 22,307.0  | 24,600.0  | 23,955.8  | 23,636.1  | 22,932.1        |

Source : Enterprise Singapore

Notes : Data are based on Standard International Trade Classification Rev 4.1 and consistent with the ASEAN Harmonised Tariff Nomenclature 2017 version.

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.

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# 15.8 MERCHANDISE EXPORTS BY COMMODITY SECTION

Million Dollars

| Commodity Section   | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total   | 519,354.1 | 525,507.2 | 526,067.4 | 491,816.1 | 466,911.6 | 515,000.8 | 555,665.1 |
| Food  | 6,230.0   | 7,063.7   | 8,231.7   | 8,219.7   | 7,861.8   | 8,007.2   | 12,311.2  |
| Coffee, tea, cocoa, spices & manufactures   | 1,445.3   | 1,394.7   | 1,718.4   | 1,589.0   | 1,436.8   | 1,379.9   | 1,343.2   |
| Fish, seafood (excl marine mammals) & preparations  | 444.9     | 409.5     | 406.7     | 512.0     | 492.2     | 459.9     | 472.7     |
| Vegetables & fruits   | 388.8     | 411.6     | 459.6     | 484.1     | 505.2     | 520.3     | 425.9     |
| Beverages & Tobacco   | 4,354.7   | 4,619.0   | 4,774.3   | 5,427.2   | 5,349.2   | 5,196.6   | 5,385.6   |
| Beverages   | 3,311.6   | 3,501.4   | 3,506.7   | 3,749.7   | 3,711.1   | 3,688.4   | 3,899.3   |
| Tobacco & manufactures  | 1,043.1   | 1,117.6   | 1,267.6   | 1,677.5   | 1,638.1   | 1,508.1   | 1,486.3   |
| Crude Materials   | 3,030.6   | 3,643.2   | 3,472.5   | 3,572.3   | 3,942.6   | 4,471.9   | 4,756.0   |
| Metalliferous ores & metal scrap  | 1,303.9   | 1,340.8   | 1,356.5   | 1,172.7   | 1,072.4   | 1,256.4   | 1,245.7   |
| Crude rubber  | 647.4     | 581.0     | 691.8     | 1,156.2   | 1,376.7   | 1,841.1   | 1,687.8   |
| Crude fertilizers & minerals (excl coal petroleum & precious stones)                      | 341.1     | 701.7     | 395.8     | 281.9     | 322.3     | 281.8     | 187.9     |
| Crude animal & vegetable materials nes  | 229.9     | 281.1     | 247.6     | 208.6     | 203.9     | 205.7     | 191.3     |
| Mineral Fuels & Lubricants  | 130,900.7 | 124,961.7 | 122,863.1 | 81,829.1  | 69,238.5  | 90,182.2  | 103,265.7 |
| Petroleum & products <sup>1</sup> & related materials                                     | 130,406.8 | 124,640.9 | 122,496.3 | 81,466.2  | 68,904.8  | 89,541.3  | 102,561.5 |
| Animal & Vegetable Oils   | 403.2     | 367.7     | 351.5     | 274.8     | 249.1     | 261.5     | 258.1     |
| Fixed vegetable fats & oils, crude, refined or fractionated                               | 279.5     | 243.5     | 227.3     | 168.5     | 148.0     | 162.5     | 161.6     |
| Animal or vegetable fats & oils <sup>2</sup> nes  | 107.6     | 102.3     | 103.0     | 89.7      | 85.2      | 84.9      | 82.9      |
| Chemicals & Chemical Products   | 67,517.9  | 63,521.2  | 67,251.4  | 65,613.8  | 64,506.6  | 70,219.9  | 79,625.9  |
| Organic chemicals   | 24,959.8  | 22,109.1  | 22,257.5  | 21,398.0  | 20,637.3  | 20,895.3  | 22,334.5  |
| Plastics in primary forms   | 14,539.9  | 15,206.1  | 17,805.6  | 15,824.6  | 15,474.7  | 17,310.4  | 18,543.7  |
| Medicinal & pharmaceutical products   | 11,431.5  | 9,998.0   | 10,411.7  | 10,477.7  | 9,270.0   | 9,684.3   | 13,027.0  |
| Essential oils & resinoids & perfume materials; toilet polishing & cleansing preparations | 6,400.5   | 6,172.8   | 6,383.2   | 6,842.1   | 7,799.4   | 9,775.6   | 12,085.4  |

*(continued on the next page)*

Source : Enterprise Singapore

Notes : Data are based on Standard International Trade Classification Rev 4.1 and consistent with the ASEAN Harmonised Tariff Nomenclature 2017 version.

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.

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## 15.8 MERCHANDISE EXPORTS BY COMMODITY SECTION *(continued)*

| Commodity Section   | Million Dollars |           |           |           |           |           |           |
|---|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
|   | 2012            | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
| Manufactured Goods  | 19,144.6        | 20,157.8  | 21,563.7  | 19,585.6  | 17,947.8  | 17,976.1  | 19,170.7  |
| Non-ferrous metals  | 3,779.7         | 4,215.2   | 4,354.2   | 4,645.7   | 3,728.2   | 3,778.9   | 3,419.2   |
| Iron & steel  | 4,770.8         | 4,476.7   | 4,310.3   | 3,209.8   | 2,617.5   | 2,501.8   | 3,400.2   |
| Manufactures of metals nes  | 4,449.3         | 4,870.7   | 4,953.9   | 4,395.7   | 3,937.6   | 4,186.7   | 4,566.0   |
| Non-metallic mineral manufactures nes   | 1,545.4         | 2,093.6   | 3,452.7   | 2,785.6   | 3,321.8   | 2,925.0   | 3,302.7   |
| Textile yarn, fabrics, made-up<br>articles nes & related products                       | 1,015.5         | 1,129.3   | 1,121.2   | 1,064.7   | 1,036.2   | 983.3     | 963.1     |
| Paper, paperboard & articles of<br>paper pulp or paperboard pulp                        | 1,975.3         | 1,983.7   | 2,011.7   | 2,031.7   | 1,966.9   | 2,216.6   | 2,090.3   |
| Rubber manufactures nes   | 1,299.8         | 1,058.2   | 1,046.2   | 1,026.2   | 995.0     | 1,061.3   | 1,103.3   |
| Machinery & Equipment   | 230,884.9       | 237,685.1 | 237,385.1 | 243,737.6 | 236,033.7 | 252,430.0 | 263,615.6 |
| Electronics   | 153,270.4       | 161,591.7 | 161,803.4 | 165,382.1 | 157,766.0 | 169,606.3 | 169,356.3 |
| Integrated circuits   | 87,410.2        | 96,332.2  | 98,813.3  | 100,754.5 | 96,443.3  | 107,735.6 | 109,443.2 |
| Parts of personal computers   | 18,442.0        | 15,876.0  | 13,768.4  | 12,851.1  | 11,194.4  | 12,041.9  | 10,884.8  |
| Disk drives   | 5,116.9         | 4,550.8   | 4,190.4   | 4,334.8   | 3,425.0   | 3,357.7   | 2,796.7   |
| Telecommunications equipment <sup>3</sup>   | 10,047.4        | 10,038.0  | 10,093.5  | 13,423.3  | 13,111.4  | 13,047.0  | 14,289.1  |
| Consumer electronics <sup>4</sup>   | 4,395.3         | 4,245.4   | 3,767.6   | 3,316.1   | 3,446.3   | 3,509.0   | 3,157.2   |
| Personal computers  | 5,593.6         | 6,583.5   | 6,658.0   | 8,318.2   | 7,689.9   | 7,491.0   | 7,650.7   |
| Parts of integrated circuits  | 6,124.9         | 7,639.3   | 7,223.3   | 3,357.3   | 2,706.8   | 2,695.6   | 2,429.0   |
| Diodes and transistors  | 8,280.9         | 8,548.3   | 10,083.6  | 11,650.0  | 12,406.9  | 11,312.7  | 10,112.7  |
| Non-electronics   | 77,614.5        | 76,093.4  | 75,581.7  | 78,355.5  | 78,267.7  | 82,823.7  | 94,259.3  |
| Electrical circuit apparatus  | 7,325.8         | 6,557.7   | 6,134.5   | 5,884.0   | 5,973.7   | 6,197.2   | 7,860.8   |
| Electrical machinery nes  | 6,739.5         | 6,240.9   | 7,060.5   | 8,067.4   | 8,079.4   | 8,900.6   | 7,574.2   |
| Miscellaneous Manufactures  | 38,615.1        | 40,525.6  | 41,002.7  | 41,897.3  | 42,970.6  | 45,846.3  | 47,852.7  |
| Professional scientific & controlling<br>instruments & apparatus nes                    | 13,233.3        | 14,278.8  | 14,813.7  | 15,365.8  | 15,808.5  | 17,641.8  | 19,037.2  |
| Photographic apparatus equipment &<br>supplies & optical goods nes;<br>watches & clocks | 4,343.7         | 4,738.9   | 4,941.3   | 5,137.2   | 4,691.7   | 5,055.2   | 5,138.8   |
| Articles of apparel & clothing accessories  | 1,667.9         | 1,591.2   | 1,704.7   | 1,854.6   | 1,930.1   | 2,119.2   | 2,080.3   |
| Miscellaneous manufactured<br>articles nes  | 17,845.0        | 17,058.0  | 16,719.5  | 17,369.7  | 17,828.3  | 18,169.7  | 18,464.3  |
| Miscellaneous   | 18,272.4        | 22,962.1  | 19,171.3  | 21,658.9  | 18,811.5  | 20,409.2  | 19,423.6  |

Source : Enterprise Singapore

Notes : Data are based on Standard International Trade Classification Rev 4.1 and consistent with the ASEAN Harmonised Tariff Nomenclature 2017 version.

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.

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# 15.9 DOMESTIC EXPORTS BY COMMODITY SECTION

Million Dollars

| Commodity Section   | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total   | 285,168.9 | 271,216.8 | 269,778.1 | 237,732.9 | 223,933.3 | 259,301.9 | 281,137.8 |
| Food  | 4,202.6   | 4,948.3   | 5,867.1   | 5,746.3   | 5,752.8   | 5,922.1   | 10,269.3  |
| Coffee, tea, cocoa, spices & manufactures   | 852.0     | 853.2     | 999.2     | 874.0     | 885.9     | 865.1     | 856.0     |
| Fish, seafood (excl marine mammals) & preparations  | 183.6     | 153.2     | 143.9     | 159.9     | 190.2     | 198.3     | 221.3     |
| Vegetables & fruits   | 37.4      | 43.4      | 48.7      | 52.1      | 47.4      | 48.1      | 44.6      |
| Beverages & Tobacco   | 554.7     | 579.1     | 655.0     | 1,026.3   | 854.4     | 643.4     | 600.6     |
| Beverages   | 239.3     | 241.5     | 240.1     | 254.3     | 243.0     | 214.0     | 168.2     |
| Tobacco & manufactures  | 315.5     | 337.6     | 414.9     | 771.9     | 611.4     | 429.5     | 432.4     |
| Crude Materials   | 1,654.3   | 1,798.3   | 2,073.9   | 2,044.9   | 2,113.7   | 2,642.2   | 2,489.7   |
| Metalliferous ores & metal scrap  | 1,224.9   | 1,267.9   | 1,262.0   | 1,114.0   | 1,016.1   | 1,181.7   | 1,180.8   |
| Crude rubber  | 7.1       | 92.3      | 409.5     | 594.7     | 714.6     | 1,036.6   | 967.7     |
| Crude fertilizers & minerals (excl coal petroleum & precious stones)                      | 126.9     | 167.6     | 128.6     | 85.5      | 136.8     | 181.0     | 99.5      |
| Crude animal & vegetable materials nes  | 54.5      | 47.7      | 51.9      | 51.6      | 41.1      | 34.5      | 38.3      |
| Mineral Fuels & Lubricants  | 106,814.5 | 106,476.6 | 106,986.8 | 72,503.8  | 63,374.8  | 84,566.1  | 99,004.6  |
| Petroleum & products <sup>1</sup> & related materials                                     | 106,322.8 | 106,157.6 | 106,622.3 | 72,240.8  | 63,107.5  | 84,200.8  | 98,736.2  |
| Animal & Vegetable Oils   | 226.8     | 227.6     | 217.4     | 163.0     | 155.3     | 169.1     | 180.1     |
| Fixed vegetable fats & oils, crude, refined or fractionated                               | 108.1     | 109.9     | 98.2      | 65.3      | 62.0      | 76.4      | 88.2      |
| Animal or vegetable fats & oils <sup>2</sup> nes  | 105.1     | 98.5      | 98.9      | 81.9      | 79.3      | 79.4      | 79.4      |
| Chemicals & Chemical Products   | 50,685.7  | 46,396.6  | 49,382.2  | 47,629.0  | 45,250.5  | 48,180.2  | 54,541.6  |
| Organic chemicals   | 22,082.1  | 19,064.3  | 19,058.6  | 18,840.5  | 18,288.6  | 18,572.7  | 19,816.7  |
| Plastics in primary forms   | 9,050.4   | 10,346.6  | 13,033.0  | 11,668.8  | 10,759.6  | 11,781.6  | 12,230.8  |
| Medicinal & pharmaceutical products   | 10,169.1  | 8,501.1   | 8,971.4   | 8,157.8   | 6,929.6   | 7,122.4   | 10,294.2  |
| Essential oils & resinoids & perfume materials; toilet polishing & cleansing preparations | 2,976.5   | 2,358.0   | 2,017.3   | 2,091.9   | 2,177.9   | 2,579.4   | 3,091.9   |

*(continued on the next page)*

Source : Enterprise Singapore

Notes : Data are based on Standard International Trade Classification Rev 4.1 and consistent with the ASEAN Harmonised Tariff Nomenclature 2017 version.

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.

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## 15.9 DOMESTIC EXPORTS BY COMMODITY SECTION *(continued)*

|   |          |          |          |          |          |          |          | Million Dollars |
|---|----------|----------|----------|----------|----------|----------|----------|-----------------|
| Commodity Section   | 2012     | 2013     | 2014     | 2015     | 2016     | 2017     | 2018     |                 |
| Manufactured Goods  | 5,980.0  | 6,243.2  | 6,507.4  | 6,094.5  | 5,547.6  | 5,569.4  | 5,592.0  |                 |
| Non-ferrous metals  | 785.7    | 744.8    | 878.9    | 730.7    | 666.7    | 737.2    | 720.8    |                 |
| Iron & steel  | 799.1    | 735.1    | 845.7    | 689.7    | 645.6    | 612.5    | 698.1    |                 |
| Manufactures of metals nes  | 1,937.8  | 2,340.5  | 2,389.2  | 2,056.0  | 1,814.3  | 2,046.9  | 1,902.1  |                 |
| Non-metallic mineral manufactures nes   | 665.3    | 541.1    | 437.7    | 590.3    | 569.7    | 408.7    | 517.3    |                 |
| Textile yarn, fabrics, made-up articles nes & related products                    | 324.4    | 367.2    | 420.2    | 424.9    | 401.1    | 426.8    | 387.3    |                 |
| Paper, paperboard & articles of paper pulp or paperboard pulp                     | 1,065.9  | 1,046.7  | 1,064.6  | 1,133.9  | 1,011.3  | 862.6    | 860.9    |                 |
| Rubber manufactures nes   | 275.1    | 309.2    | 324.4    | 325.3    | 313.3    | 347.1    | 371.8    |                 |
| Machinery & Equipment   | 87,557.9 | 78,863.5 | 73,567.0 | 75,867.4 | 72,538.0 | 78,877.4 | 75,864.9 |                 |
| Electronics   | 53,590.9 | 48,871.9 | 44,058.7 | 44,045.1 | 41,952.1 | 45,281.6 | 41,862.7 |                 |
| Integrated circuits   | 25,006.0 | 22,534.7 | 20,863.1 | 21,906.6 | 21,822.3 | 25,847.6 | 24,913.8 |                 |
| Parts of personal computers   | 9,643.4  | 7,084.1  | 5,528.9  | 4,420.4  | 4,071.6  | 4,215.5  | 3,004.6  |                 |
| Disk drives   | 3,103.8  | 2,440.4  | 1,910.0  | 1,670.3  | 1,146.1  | 949.5    | 773.6    |                 |
| Telecommunications equipment <sup>3</sup>   | 2,644.0  | 1,528.9  | 1,453.9  | 2,220.8  | 2,176.0  | 2,016.4  | 2,127.3  |                 |
| Consumer electronics <sup>4</sup>   | 1,163.8  | 1,214.7  | 843.2    | 640.0    | 849.7    | 793.2    | 678.5    |                 |
| Personal computers  | 2,461.3  | 3,698.4  | 3,784.1  | 5,187.9  | 4,522.7  | 4,568.3  | 4,520.5  |                 |
| Parts of integrated circuits  | 3,804.1  | 4,259.9  | 3,933.8  | 1,465.9  | 1,246.2  | 1,355.3  | 1,074.6  |                 |
| Diodes and transistors  | 2,991.6  | 3,278.5  | 3,412.2  | 3,940.6  | 3,869.4  | 3,458.9  | 2,704.7  |                 |
| Non-electronics   | 33,967.1 | 29,991.6 | 29,508.3 | 31,822.3 | 30,585.9 | 33,595.9 | 34,002.2 |                 |
| Electrical circuit apparatus  | 3,001.2  | 2,800.3  | 2,316.8  | 2,115.5  | 1,905.4  | 2,031.5  | 2,118.6  |                 |
| Electrical machinery nes  | 3,012.8  | 2,447.7  | 2,911.0  | 2,993.1  | 3,007.0  | 3,976.7  | 3,093.0  |                 |
| Miscellaneous Manufactures  | 22,127.9 | 21,159.8 | 19,800.9 | 19,859.9 | 19,909.5 | 21,683.5 | 23,553.5 |                 |
| Professional scientific & controlling instruments & apparatus nes                 | 7,789.7  | 8,175.7  | 8,014.2  | 8,097.9  | 8,247.2  | 9,389.2  | 10,340.1 |                 |
| Photographic apparatus equipment & supplies & optical goods nes; watches & clocks | 1,609.7  | 1,494.6  | 1,674.7  | 1,707.8  | 1,487.6  | 1,800.2  | 1,818.1  |                 |
| Articles of apparel & clothing accessories  | 163.2    | 178.0    | 165.9    | 141.2    | 184.6    | 172.8    | 168.6    |                 |
| Miscellaneous manufactured articles nes   | 12,200.4 | 9,746.5  | 9,570.1  | 9,579.5  | 9,645.7  | 10,008.0 | 10,980.4 |                 |
| Miscellaneous   | 5,364.4  | 4,523.8  | 4,720.4  | 6,797.8  | 8,436.8  | 11,048.5 | 9,041.5  |                 |

Source : Enterprise Singapore

Notes : Data are based on Standard International Trade Classification Rev 4.1 and consistent with the ASEAN Harmonised Tariff Nomenclature 2017 version.

<sup>3</sup> 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.

<sup>4</sup> 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.

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## 15.10 RE-EXPORTS BY COMMODITY SECTION

Million Dollars

| Commodity Section   | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total   | 234,185.3 | 254,290.4 | 256,289.3 | 254,083.3 | 242,978.4 | 255,698.9 | 274,527.2 |
| Food  | 2,027.4   | 2,115.4   | 2,364.6   | 2,473.4   | 2,109.0   | 2,085.1   | 2,041.9   |
| Coffee, tea, cocoa, spices & manufactures   | 593.4     | 541.4     | 719.2     | 715.0     | 550.9     | 514.9     | 487.2     |
| Fish, seafood (excl marine mammals) & preparations  | 261.4     | 256.3     | 262.8     | 352.1     | 302.1     | 261.6     | 251.5     |
| Vegetables & fruits   | 351.5     | 368.1     | 410.8     | 432.0     | 457.8     | 472.2     | 381.3     |
| Beverages & Tobacco   | 3,800.0   | 4,040.0   | 4,119.3   | 4,400.9   | 4,494.8   | 4,553.1   | 4,785.0   |
| Beverages   | 3,072.4   | 3,259.9   | 3,266.6   | 3,495.4   | 3,468.1   | 3,474.5   | 3,731.1   |
| Tobacco & manufactures  | 727.6     | 780.0     | 852.6     | 905.5     | 1,026.7   | 1,078.7   | 1,053.9   |
| Crude Materials   | 1,376.3   | 1,844.9   | 1,398.6   | 1,527.3   | 1,829.0   | 1,829.7   | 2,266.2   |
| Metalliferous ores & metal scrap  | 79.0      | 72.9      | 94.6      | 58.8      | 56.3      | 74.8      | 64.8      |
| Crude rubber  | 640.3     | 488.7     | 282.3     | 561.5     | 662.1     | 804.6     | 720.2     |
| Crude fertilizers & minerals (excl coal petroleum & precious stones)                      | 214.3     | 534.1     | 267.2     | 196.4     | 185.5     | 100.8     | 88.4      |
| Crude animal & vegetable materials nes  | 175.4     | 233.4     | 195.7     | 157.0     | 162.8     | 171.2     | 153.0     |
| Mineral Fuels & Lubricants  | 24,086.2  | 18,485.2  | 15,876.3  | 9,325.3   | 5,863.7   | 5,616.1   | 4,261.1   |
| Petroleum & products & related materials  | 24,084.0  | 18,483.3  | 15,873.9  | 9,225.4   | 5,797.3   | 5,340.5   | 3,825.3   |
| Animal & Vegetable Oils   | 176.4     | 140.0     | 134.2     | 111.8     | 93.9      | 92.5      | 78.1      |
| Fixed vegetable fats & oils, crude, refined or fractionated                               | 171.4     | 133.6     | 129.0     | 103.1     | 86.0      | 86.1      | 73.5      |
| Animal or vegetable fats & oils <sup>1</sup> nes  | 2.4       | 3.8       | 4.1       | 7.7       | 5.9       | 5.5       | 3.5       |
| Chemicals & Chemical Products   | 16,832.2  | 17,124.6  | 17,869.2  | 17,984.8  | 19,256.1  | 22,039.7  | 25,084.3  |
| Organic chemicals   | 2,877.8   | 3,044.8   | 3,198.9   | 2,557.5   | 2,348.7   | 2,322.6   | 2,517.7   |
| Plastics in primary forms   | 5,489.6   | 4,859.5   | 4,772.6   | 4,155.8   | 4,715.1   | 5,528.8   | 6,313.0   |
| Medicinal & pharmaceutical products   | 1,262.4   | 1,496.8   | 1,440.3   | 2,319.9   | 2,340.4   | 2,561.9   | 2,732.8   |
| Essential oils & resinoids & perfume materials; toilet polishing & cleansing preparations | 3,424.0   | 3,814.9   | 4,365.8   | 4,750.2   | 5,621.5   | 7,196.1   | 8,993.5   |

*(continued on the next page)*

Source : Enterprise Singapore

Notes : Data are based on Standard International Trade Classification Rev 4.1 and consistent with the ASEAN Harmonised Tariff Nomenclature 2017 version.

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

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# 15.10 RE-EXPORTS BY COMMODITY SECTION *(continued)*

Million Dollars

| Commodity Section   | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Manufactured Goods  | 13,164.7  | 13,914.6  | 15,056.3  | 13,491.1  | 12,400.2  | 12,406.7  | 13,578.7  |
| Non-ferrous metals  | 2,994.0   | 3,470.4   | 3,475.3   | 3,915.0   | 3,061.5   | 3,041.7   | 2,698.4   |
| Iron & steel  | 3,971.7   | 3,741.6   | 3,464.7   | 2,520.1   | 1,971.9   | 1,889.3   | 2,702.0   |
| Manufactures of metals nes  | 2,511.4   | 2,530.1   | 2,564.7   | 2,339.7   | 2,123.3   | 2,139.8   | 2,663.9   |
| Non-metallic mineral manufactures nes   | 880.1     | 1,552.4   | 3,015.1   | 2,195.4   | 2,752.1   | 2,516.3   | 2,785.4   |
| Textile yarn, fabrics, made-up articles nes & related products                    | 691.1     | 762.1     | 701.0     | 639.8     | 635.2     | 556.5     | 575.8     |
| Paper, paperboard & articles of paper pulp or paperboard pulp                     | 909.4     | 937.0     | 947.0     | 897.8     | 955.6     | 1,354.0   | 1,229.4   |
| Rubber manufactures nes   | 1,024.7   | 749.0     | 721.8     | 700.8     | 681.6     | 714.3     | 731.5     |
| Machinery & Equipment   | 143,327.0 | 158,821.6 | 163,818.1 | 167,870.2 | 163,495.8 | 173,552.5 | 187,750.7 |
| Electronics   | 99,679.5  | 112,719.9 | 117,744.7 | 121,337.1 | 115,813.9 | 124,324.7 | 127,493.6 |
| Integrated circuits   | 62,404.3  | 73,797.5  | 77,950.2  | 78,847.9  | 74,621.0  | 81,888.0  | 84,529.4  |
| Parts of personal computers   | 8,798.6   | 8,791.8   | 8,239.5   | 8,430.7   | 7,122.8   | 7,826.4   | 7,880.2   |
| Disk drives   | 2,013.2   | 2,110.4   | 2,280.4   | 2,664.5   | 2,278.9   | 2,408.2   | 2,023.1   |
| Telecommunications equipment <sup>2</sup>   | 7,403.4   | 8,509.2   | 8,639.6   | 11,202.5  | 10,935.4  | 11,030.6  | 12,161.7  |
| Consumer electronics <sup>3</sup>   | 3,231.6   | 3,030.7   | 2,924.4   | 2,676.1   | 2,596.6   | 2,715.8   | 2,478.7   |
| Personal computers  | 3,132.2   | 2,885.2   | 2,873.9   | 3,130.3   | 3,167.2   | 2,922.7   | 3,130.2   |
| Parts of integrated circuits  | 2,320.8   | 3,379.4   | 3,289.4   | 1,891.4   | 1,460.6   | 1,340.4   | 1,354.3   |
| Diodes and transistors  | 5,289.2   | 5,269.8   | 6,671.4   | 7,709.4   | 8,537.5   | 7,853.8   | 7,408.0   |
| Non-electronics   | 43,647.4  | 46,101.7  | 46,073.4  | 46,533.1  | 47,681.8  | 49,227.9  | 60,257.1  |
| Electrical circuit apparatus  | 4,324.6   | 3,757.4   | 3,817.7   | 3,768.4   | 4,068.4   | 4,165.7   | 5,742.2   |
| Electrical machinery nes  | 3,726.7   | 3,793.2   | 4,149.4   | 5,074.3   | 5,072.4   | 4,923.9   | 4,481.2   |
| Miscellaneous Manufactures  | 16,487.2  | 19,365.8  | 21,201.7  | 22,037.3  | 23,061.1  | 24,162.9  | 24,299.2  |
| Professional scientific & controlling instruments & apparatus nes                 | 5,443.6   | 6,103.1   | 6,799.5   | 7,267.9   | 7,561.3   | 8,252.5   | 8,697.1   |
| Photographic apparatus equipment & supplies & optical goods nes; watches & clocks | 2,734.0   | 3,244.3   | 3,266.6   | 3,429.4   | 3,204.1   | 3,254.9   | 3,320.7   |
| Articles of apparel & clothing accessories  | 1,504.6   | 1,413.3   | 1,538.8   | 1,713.4   | 1,745.4   | 1,946.4   | 1,911.8   |
| Miscellaneous manufactured articles nes   | 5,644.6   | 7,311.5   | 7,149.4   | 7,790.2   | 8,182.6   | 8,161.7   | 7,483.9   |
| Miscellaneous   | 12,908.0  | 18,438.3  | 14,450.9  | 14,861.1  | 10,374.8  | 9,360.6   | 10,382.1  |

Source : Enterprise Singapore

Notes : Data are based on Standard International Trade Classification Rev 4.1 and consistent with the ASEAN Harmonised Tariff Nomenclature 2017 version.

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.

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## 15.11 TRADE IN SERVICES

|                         | Million Dollars |           |           |           |           |           |           |
|-------------------------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                         | 2012            | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
| Total Trade in Services | 327,866.3       | 365,055.0 | 406,020.8 | 432,922.3 | 432,092.0 | 484,656.1 | 494,640.9 |
| Exports of Services     | 161,769.2       | 177,719.3 | 194,843.2 | 210,622.7 | 214,361.0 | 236,896.1 | 246,210.7 |
| Imports of Services     | 166,097.1       | 187,335.7 | 211,177.6 | 222,299.6 | 217,731.0 | 247,760.0 | 248,430.2 |

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

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## 15.12 EXPORTS OF SERVICES BY SERVICES CATEGORY

Million Dollars

|   | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Exports Of Services                                       | 161,769.2 | 177,719.3 | 194,843.2 | 210,622.7 | 214,361.0 | 236,896.1 | 246,210.7 |
| Manufacturing Services On Physical Inputs Owned By Others | 249.6     | 283.2     | 424.4     | 346.5     | 284.8     | 243.2     | 260.2     |
| Maintenance And Repair Services                           | 9,053.1   | 10,767.2  | 9,853.1   | 9,315.2   | 8,742.4   | 8,493.1   | 9,176.9   |
| Transport   | 55,586.3  | 57,830.9  | 63,918.8  | 64,097.1  | 57,313.2  | 66,895.1  | 69,865.9  |
| Freight   | 42,864.3  | 45,929.4  | 50,917.2  | 50,798.1  | 43,741.7  | 50,646.5  | 52,161.6  |
| Others  | 12,722.0  | 11,901.5  | 13,001.6  | 13,299.0  | 13,571.5  | 16,248.6  | 17,704.3  |
| Travel  | 23,487.3  | 24,063.3  | 24,277.4  | 22,845.5  | 26,171.6  | 27,467.9  | 27,537.5  |
| Insurance   | 3,396.6   | 3,634.5   | 4,241.5   | 5,312.7   | 6,114.7   | 6,456.8   | 7,195.8   |
| Government Goods And Services                             | 382.8     | 391.5     | 395.3     | 397.0     | 405.0     | 408.7     | 412.0     |
| Construction  | 1,922.3   | 2,135.6   | 1,474.4   | 1,172.2   | 1,363.2   | 1,058.3   | 1,015.7   |
| Financial   | 20,694.6  | 23,611.1  | 26,664.5  | 28,879.7  | 30,105.6  | 34,396.1  | 36,579.7  |
| Telecommunications, Computer & Information                | 8,403.2   | 9,552.3   | 10,094.6  | 12,199.0  | 16,154.5  | 17,603.6  | 17,804.7  |
| Charges For The Use Of Intellectual Property              | 3,514.6   | 4,272.5   | 4,953.5   | 11,894.1  | 10,074.3  | 11,086.5  | 11,759.9  |
| Personal, Cultural And Recreational                       | 598.6     | 636.5     | 801.4     | 852.8     | 837.3     | 708.9     | 710.4     |
| Other Business Services                                   | 34,480.2  | 40,540.7  | 47,744.3  | 53,310.9  | 56,794.4  | 62,077.9  | 63,892.0  |
| Accounting  | 407.3     | 400.3     | 332.2     | 307.3     | 332.9     | 323.9     | 340.2     |
| Advertising And Market Research                           | 2,859.9   | 4,770.1   | 7,954.3   | 10,231.9  | 14,016.3  | 18,827.6  | 19,441.7  |
| Architectural   | 354.1     | 312.5     | 389.6     | 382.0     | 442.0     | 389.6     | 398.4     |
| Business Management                                       | 16,451.4  | 20,139.2  | 21,122.2  | 23,455.8  | 23,971.8  | 24,679.9  | 25,248.9  |
| Engineering And Technical                                 | 4,195.5   | 5,059.4   | 6,021.0   | 5,183.1   | 4,974.0   | 3,970.1   | 4,102.8   |
| Legal   | 600.1     | 643.4     | 676.8     | 766.8     | 870.8     | 977.5     | 1,079.6   |
| Research And Development                                  | 749.9     | 1,148.6   | 914.6     | 1,054.5   | 944.4     | 1,059.9   | 1,305.9   |
| Operating Leasing   | 3,117.9   | 3,738.2   | 4,902.5   | 5,883.3   | 5,686.9   | 5,479.7   | 5,506.9   |
| Trade-related   | 5,489.9   | 3,928.1   | 4,899.9   | 5,469.1   | 4,890.2   | 5,543.4   | 5,624.2   |
| Others  | 254.2     | 400.9     | 531.2     | 577.1     | 665.1     | 826.3     | 843.4     |

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## 15.13 IMPORTS OF SERVICES BY SERVICES CATEGORY

Million Dollars

|   | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Imports Of Services                                       | 166,097.1 | 187,335.7 | 211,177.6 | 222,299.6 | 217,731.0 | 247,760.0 | 248,430.2 |
| Manufacturing Services On Physical Inputs Owned By Others | 5,349.2   | 6,500.5   | 7,846.8   | 8,341.2   | 7,730.1   | 8,162.0   | 8,735.4   |
| Maintenance And Repair Services                           | 837.0     | 845.2     | 880.7     | 929.3     | 950.0     | 917.7     | 923.5     |
| Transport   | 44,508.4  | 49,280.7  | 57,822.3  | 65,611.6  | 60,334.4  | 72,784.8  | 73,266.5  |
| Freight   | 26,273.1  | 29,938.6  | 36,584.5  | 43,581.5  | 38,343.2  | 49,017.7  | 48,210.1  |
| Others  | 18,235.3  | 19,342.1  | 21,237.8  | 22,030.1  | 21,991.2  | 23,767.1  | 25,056.4  |
| Travel  | 28,915.8  | 30,540.3  | 32,368.7  | 32,524.9  | 33,097.7  | 33,954.7  | 34,188.0  |
| Insurance   | 3,498.3   | 4,257.3   | 3,609.4   | 4,376.7   | 6,057.2   | 5,522.6   | 6,057.2   |
| Government Goods And Services                             | 256.8     | 287.0     | 295.1     | 274.7     | 310.5     | 293.4     | 306.5     |
| Construction  | 648.8     | 679.8     | 497.6     | 466.9     | 514.1     | 509.0     | 565.8     |
| Financial   | 4,034.2   | 4,647.2   | 5,502.0   | 6,194.0   | 6,374.2   | 7,752.6   | 8,831.5   |
| Telecommunications, Computer & Information                | 9,515.9   | 11,792.6  | 20,311.2  | 14,932.2  | 17,883.2  | 20,393.0  | 20,634.5  |
| Charges For The Use Of Intellectual Property              | 28,874.5  | 28,769.9  | 26,452.9  | 26,672.0  | 21,458.9  | 20,609.8  | 20,473.2  |
| Personal, Cultural And Recreational                       | 557.9     | 584.1     | 625.3     | 685.2     | 540.5     | 583.2     | 615.0     |
| Other Business Services                                   | 39,100.3  | 49,151.1  | 54,965.6  | 61,290.9  | 62,480.2  | 76,277.2  | 73,833.1  |
| Accounting  | 270.8     | 260.1     | 290.8     | 331.0     | 395.4     | 763.8     | 784.6     |
| Advertising And Market Research                           | 3,057.0   | 3,101.4   | 3,418.6   | 3,808.8   | 4,268.1   | 4,666.1   | 4,717.9   |
| Architectural   | 84.6      | 78.8      | 56.9      | 46.9      | 85.2      | 43.6      | 45.0      |
| Business Management                                       | 14,672.4  | 15,750.8  | 17,318.3  | 18,749.9  | 19,300.6  | 20,741.9  | 21,351.9  |
| Engineering And Technical                                 | 2,340.1   | 2,755.6   | 3,336.6   | 3,286.9   | 3,377.7   | 3,718.4   | 3,870.6   |
| Legal   | 663.9     | 262.6     | 298.7     | 315.4     | 336.9     | 361.7     | 373.0     |
| Research And Development                                  | 5,949.2   | 11,677.6  | 10,651.6  | 17,126.5  | 15,359.5  | 24,878.5  | 21,071.1  |
| Operating Leasing   | 3,109.3   | 4,437.6   | 7,581.7   | 5,177.4   | 5,000.3   | 6,068.2   | 6,095.5   |
| Trade-related   | 8,792.7   | 10,573.2  | 11,747.5  | 12,097.0  | 13,940.5  | 14,658.0  | 15,138.4  |
| Others  | 160.3     | 253.4     | 264.9     | 351.1     | 416.0     | 377.0     | 385.1     |

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# 15.14 EXPORTS OF SERVICES BY MAJOR TRADING PARTNER

Million Dollars

| Trading Partner          | 2011     | 2012     | 2013     | 2014     | 2015     | 2016     | 2017     |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|
| Asia                     | 48,318.2 | 50,496.3 | 55,949.9 | 62,802.7 | 69,881.1 | 71,516.9 | 80,679.5 |
| Brunei Darussalam        | 468.5    | 464.1    | 474.4    | 520.4    | 465.4    | 419.8    | 440.0    |
| Cambodia                 | 109.2    | 115.0    | 89.2     | 86.3     | 114.3    | 115.5    | 125.9    |
| Mainland China           | 6,961.0  | 7,484.2  | 9,198.9  | 10,923.6 | 11,893.8 | 10,760.3 | 16,566.4 |
| Hong Kong                | 5,104.8  | 5,156.3  | 5,184.6  | 5,841.4  | 7,260.0  | 7,386.6  | 7,818.8  |
| India                    | 4,244.7  | 4,375.0  | 4,857.4  | 4,276.0  | 4,236.4  | 4,399.4  | 5,102.0  |
| Indonesia                | 3,537.8  | 4,062.7  | 4,535.8  | 4,837.1  | 5,032.0  | 5,052.7  | 4,926.4  |
| Japan                    | 7,539.2  | 8,251.8  | 9,310.7  | 11,259.2 | 13,925.6 | 16,240.7 | 19,850.2 |
| Republic of Korea        | 2,551.5  | 2,731.0  | 2,840.0  | 3,380.1  | 3,138.6  | 2,886.2  | 3,018.2  |
| Malaysia                 | 3,942.6  | 4,348.8  | 4,576.2  | 5,020.2  | 5,390.1  | 5,584.6  | 5,594.4  |
| Myanmar                  | 218.3    | 225.7    | 371.3    | 377.2    | 428.2    | 524.2    | 398.9    |
| Philippines              | 1,232.5  | 1,247.7  | 1,387.9  | 1,628.9  | 1,801.9  | 1,814.6  | 1,854.0  |
| Saudi Arabia             | 741.4    | 559.8    | 599.6    | 593.6    | 572.4    | 520.7    | 430.2    |
| Taiwan                   | 2,060.7  | 2,122.7  | 2,165.1  | 2,557.1  | 2,510.2  | 2,611.4  | 2,795.7  |
| Thailand                 | 2,634.0  | 3,009.7  | 3,147.3  | 3,528.4  | 3,829.2  | 3,638.8  | 3,906.4  |
| United Arab Emirates     | 1,698.6  | 1,874.0  | 1,694.8  | 1,665.2  | 1,697.3  | 2,145.9  | 1,783.3  |
| Viet Nam                 | 1,324.9  | 1,516.5  | 1,732.5  | 1,950.7  | 2,263.0  | 2,313.5  | 2,657.4  |
| Europe                   | 29,668.6 | 31,890.8 | 36,808.6 | 39,669.5 | 45,485.6 | 46,391.2 | 50,248.1 |
| Belgium                  | 483.4    | 392.4    | 511.8    | 605.6    | 603.3    | 563.7    | 652.5    |
| Denmark                  | 1,840.4  | 1,534.8  | 1,606.1  | 1,632.9  | 1,881.3  | 2,288.0  | 2,374.4  |
| France                   | 1,329.7  | 1,565.0  | 1,674.0  | 1,849.5  | 2,206.1  | 2,180.5  | 2,457.6  |
| Germany                  | 3,502.9  | 3,470.7  | 3,822.8  | 3,963.5  | 3,398.9  | 3,868.9  | 3,864.4  |
| Italy                    | 570.6    | 679.7    | 692.4    | 750.7    | 704.9    | 721.2    | 994.6    |
| Netherlands              | 2,472.1  | 2,435.9  | 2,775.5  | 2,993.2  | 3,025.0  | 3,061.7  | 3,480.1  |
| Norway                   | 1,506.1  | 1,693.2  | 2,064.9  | 2,301.3  | 2,556.8  | 2,007.7  | 1,677.3  |
| Switzerland              | 3,331.7  | 4,269.8  | 5,075.0  | 6,059.1  | 6,801.9  | 6,137.3  | 7,848.9  |
| United Kingdom           | 8,218.3  | 8,311.3  | 10,704.1 | 11,170.5 | 10,424.5 | 9,896.5  | 10,586.8 |
| North America            | 17,873.2 | 20,382.9 | 21,884.3 | 23,624.7 | 24,194.7 | 25,092.3 | 26,319.4 |
| United States of America | 16,713.3 | 19,208.2 | 20,624.1 | 22,238.0 | 22,929.1 | 23,781.4 | 24,629.5 |
| Canada                   | 1,157.8  | 1,172.1  | 1,260.0  | 1,385.9  | 1,257.9  | 1,307.9  | 1,631.3  |
| Oceania                  | 12,145.3 | 14,041.0 | 14,634.6 | 15,825.8 | 15,932.6 | 18,718.0 | 23,073.5 |
| Australia                | 10,279.6 | 11,454.5 | 11,896.1 | 13,080.1 | 12,949.5 | 15,519.0 | 19,187.2 |
| New Zealand              | 959.1    | 1,228.2  | 1,299.7  | 1,542.8  | 1,775.5  | 1,993.0  | 2,435.6  |

*(continued on the next page)*

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

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## 15.14 EXPORTS OF SERVICES BY MAJOR TRADING PARTNER *(continued)*

Million Dollars

| Trading Partner                                | 2011     | 2012     | 2013     | 2014     | 2015     | 2016     | 2017     |
|--|----------|----------|----------|----------|----------|----------|----------|
| South and Central America<br>and the Caribbean | 4,996.4  | 5,442.3  | 7,032.6  | 7,990.1  | 8,451.8  | 7,429.0  | 8,748.3  |
| Panama   | 231.7    | 316.5    | 317.5    | 318.8    | 354.6    | 280.7    | 468.3    |
| Africa   | 3,422.2  | 3,681.9  | 4,681.0  | 6,000.7  | 7,472.1  | 3,732.5  | 3,357.6  |
| South Africa                                   | 410.0    | 437.7    | 642.4    | 610.5    | 576.9    | 498.2    | 529.9    |
| ASEAN <sup>1</sup>                             | 13,529.8 | 15,062.5 | 16,331.3 | 17,976.9 | 19,387.0 | 19,514.6 | 19,933.2 |
| European Union (EU-28) <sup>2</sup>            | 23,568.8 | 24,589.3 | 28,164.7 | 30,052.1 | 35,022.5 | 37,097.1 | 39,593.8 |

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.

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# 15.15 IMPORTS OF SERVICES BY MAJOR TRADING PARTNER

Million Dollars

| Trading Partner          | 2011     | 2012     | 2013     | 2014     | 2015     | 2016     | 2017     |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|
| Asia                     | 34,902.8 | 36,390.3 | 40,683.5 | 48,565.4 | 52,852.1 | 54,011.6 | 60,980.1 |
| Brunei Darussalam        | 41.3     | 58.3     | 48.9     | 53.1     | 67.1     | 96.6     | 73.5     |
| Cambodia                 | 133.2    | 127.8    | 63.5     | 65.8     | 82.1     | 89.3     | 108.2    |
| Mainland China           | 6,432.7  | 6,996.2  | 7,983.0  | 10,355.7 | 10,883.3 | 9,635.2  | 12,033.5 |
| Hong Kong                | 3,944.7  | 4,233.6  | 5,096.7  | 7,674.3  | 8,664.1  | 8,802.3  | 10,076.7 |
| India                    | 2,979.5  | 3,039.8  | 3,555.7  | 3,839.5  | 4,035.6  | 4,521.1  | 5,186.3  |
| Indonesia                | 1,733.9  | 1,816.8  | 1,920.0  | 1,990.2  | 2,170.2  | 2,061.6  | 2,104.5  |
| Japan                    | 6,783.8  | 6,482.1  | 6,420.7  | 6,792.9  | 7,015.0  | 7,395.3  | 7,997.5  |
| Republic of Korea        | 2,197.6  | 2,459.6  | 2,608.7  | 3,292.3  | 3,312.0  | 3,644.8  | 4,002.2  |
| Malaysia                 | 2,342.2  | 2,568.6  | 2,743.8  | 2,793.6  | 3,173.6  | 3,449.3  | 3,570.1  |
| Myanmar                  | 76.6     | 81.4     | 152.3    | 159.5    | 217.7    | 277.4    | 256.4    |
| Philippines              | 890.5    | 874.5    | 1,202.2  | 996.8    | 1,198.8  | 1,410.7  | 1,487.8  |
| Saudi Arabia             | 209.8    | 165.3    | 187.7    | 254.5    | 615.2    | 367.5    | 395.6    |
| Taiwan                   | 2,306.9  | 2,095.3  | 2,544.5  | 3,441.5  | 3,827.5  | 4,203.2  | 4,538.6  |
| Thailand                 | 1,401.6  | 1,439.6  | 1,460.4  | 1,972.3  | 2,221.6  | 2,350.2  | 2,633.5  |
| United Arab Emirates     | 1,285.5  | 1,445.0  | 1,918.3  | 1,850.2  | 1,972.3  | 2,292.0  | 2,180.8  |
| Viet Nam                 | 729.8    | 918.2    | 884.7    | 926.3    | 916.9    | 1,011.9  | 1,367.0  |
| Europe                   | 31,957.0 | 35,344.7 | 44,479.7 | 50,558.2 | 52,409.6 | 45,930.8 | 51,604.5 |
| Belgium                  | 380.2    | 359.7    | 573.6    | 721.5    | 715.2    | 619.5    | 869.0    |
| Denmark                  | 938.8    | 1,101.7  | 1,338.0  | 1,454.0  | 1,666.7  | 1,404.6  | 1,724.8  |
| France                   | 2,851.6  | 3,460.2  | 3,589.8  | 4,181.3  | 3,781.9  | 3,951.3  | 3,185.2  |
| Germany                  | 3,065.6  | 2,806.9  | 3,075.7  | 3,522.9  | 3,125.6  | 3,353.0  | 3,910.0  |
| Italy                    | 520.4    | 469.2    | 471.0    | 969.6    | 533.6    | 550.8    | 638.5    |
| Netherlands              | 6,370.6  | 7,893.8  | 9,497.0  | 9,542.9  | 12,144.7 | 10,980.3 | 13,376.0 |
| Norway                   | 1,020.8  | 963.4    | 1,200.4  | 1,323.5  | 1,320.3  | 1,220.4  | 1,383.6  |
| Switzerland              | 3,517.2  | 4,281.5  | 5,942.8  | 5,912.6  | 6,250.5  | 5,343.4  | 6,456.6  |
| United Kingdom           | 8,165.4  | 7,247.3  | 8,330.6  | 6,632.1  | 7,163.4  | 6,308.1  | 6,784.7  |
| North America            | 21,297.3 | 30,497.7 | 30,780.3 | 37,267.2 | 41,606.3 | 41,145.8 | 45,730.2 |
| United States of America | 20,617.1 | 29,605.1 | 29,705.6 | 35,904.1 | 40,598.8 | 40,069.5 | 44,534.0 |
| Canada                   | 680.2    | 697.3    | 1,074.5  | 1,176.9  | 1,004.8  | 1,051.9  | 1,192.9  |
| Oceania                  | 5,312.4  | 6,069.5  | 6,886.7  | 7,620.1  | 8,064.5  | 8,676.3  | 9,302.6  |
| Australia                | 4,197.7  | 4,676.2  | 5,313.8  | 5,567.1  | 5,191.0  | 5,381.3  | 5,655.3  |
| New Zealand              | 508.7    | 553.4    | 487.8    | 517.5    | 655.8    | 676.3    | 552.6    |

*(continued on the next page)*

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

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## 15.15 IMPORTS OF SERVICES BY MAJOR TRADING PARTNER *(continued)*

Million Dollars

| Trading Partner                                | 2011     | 2012     | 2013     | 2014     | 2015     | 2016     | 2017     |
|--|----------|----------|----------|----------|----------|----------|----------|
| South and Central America<br>and the Caribbean | 11,691.9 | 13,349.8 | 16,499.7 | 15,597.8 | 11,851.1 | 14,275.0 | 20,406.3 |
| Panama   | 457.0    | 510.6    | 950.4    | 1,233.6  | 1,202.9  | 1,461.6  | 1,750.9  |
| Africa   | 1,496.2  | 1,764.9  | 2,648.4  | 3,310.7  | 3,108.4  | 3,106.6  | 3,584.9  |
| South Africa                                   | 162.6    | 236.3    | 323.2    | 329.5    | 307.2    | 266.5    | 304.7    |
| ASEAN <sup>1</sup>                             | 7,371.1  | 7,923.9  | 8,667.8  | 8,965.7  | 10,056.5 | 10,761.4 | 11,607.6 |
| European Union (EU-28) <sup>2</sup>            | 26,136.2 | 28,589.1 | 35,234.9 | 40,804.3 | 41,938.3 | 36,702.3 | 40,454.5 |

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.

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16



# Transport





# Transport

## Maritime Statistics

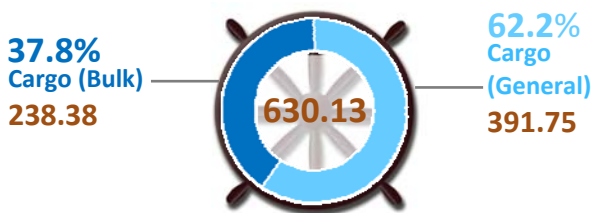


The Maritime and Port Authority of Singapore (MPA) is responsible for Singapore's port and maritime development, taking on the roles of port authority, port regulator, port planner, International Maritime Centre (IMC) champion, and national maritime representative. MPA partners the industry and other 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 promote 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, 2018**  
(Million Tonnes)



## Definitions

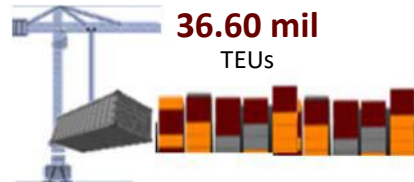


**Vessel arrivals:** Refers to the number of vessels exceeding 75 Gross Tonnage that arrive at the Port of Singapore.

**Total cargo throughput:** Refers to the total volume of cargo loaded and unloaded at the Port of Singapore. The figures include transshipment 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 transshipment containers.

## Container Throughput, 2018



**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.

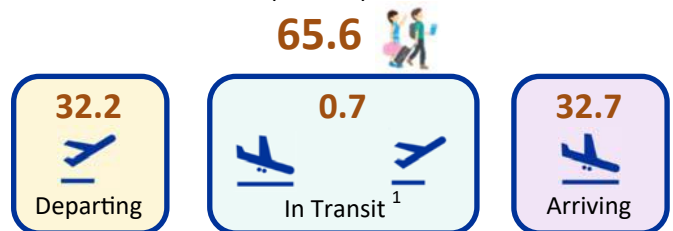
## Civil Air Traffic



The Civil Aviation Authority of Singapore (CAAS) provides air 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.

**Air Passengers, 2018**  
(Million)



<sup>1</sup> Refers to passengers who arrived and departed on the same aircraft with the same flight number within 24 hours of scheduled time of arrival, to a country other than the country from which they embarked.

## Transport ■



### Air Cargo Handled<sup>2</sup>, 2018

2,154,879 Tonnes



<sup>2</sup> Refers to Changi Airport only. Excludes passenger baggage, diplomatic cargo and aircraft stores.

### Public Roads



Public roads<sup>3</sup> are classified into expressways, arterial roads, collector roads and local access roads. Data on public roads refer to the length of roads measured in lane-kilometres.

### Paved Roads, 2018

9,405 Lane-km



### Definitions



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

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

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

**Local Access Roads:** Refer 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 the roads of Singapore.

### Total Fatalities, 2018



124

### Total Injured, 2018



10,018

### 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<sup>4</sup>, 2018

957,006



<sup>4</sup> Include vehicles which are exempted from Vehicle Quota System and all other taxes.

<sup>3</sup> 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           | 2012            | 2013            | 2014            | 2015            | 2016            | 2017            | 2018            |
|--|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Total Cargo                                    | '000 Tonnes    | 538,012         | 560,888         | 581,268         | 575,846         | 593,297         | 627,688         | 630,125         |
| General  | '000 Tonnes    | 353,542         | 365,116         | 384,418         | 361,859         | 353,244         | 376,046         | 391,745         |
| Bulk   | '000 Tonnes    | 184,471         | 195,772         | 196,850         | 213,987         | 240,053         | 251,642         | 238,380         |
| Total Container Throughput                     | '000 TEUs      | 31,649          | 32,579          | 33,869          | 30,922          | 30,904          | 33,667          | 36,599          |
| Bunker Sales                                   | '000 Tonnes    | 42,685          | 42,682          | 42,417          | 45,155          | 48,615          | 50,636          | 49,799          |
| Singapore Registry of Ships<br>(End of Period) | No.<br>'000 GT | 4,232<br>65,018 | 4,379<br>73,615 | 4,595<br>82,249 | 4,739<br>86,300 | 4,717<br>88,023 | 4,578<br>88,808 | 4,456<br>90,944 |

Source : Maritime and Port Authority of Singapore

Notes : TEU refers to Twenty-Foot Equivalent Unit  
GT refers to Gross Tonnage

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## 16.2 VESSEL ARRIVALS <sup>1</sup> BY TYPE

|                            | 2012                       | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|----------------------------|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                            | Number                     |           |           |           |           |           |           |
| Total                      | 130,422                    | 139,417   | 134,883   | 132,922   | 138,998   | 145,147   | 140,768   |
| Container <sup>2</sup>     | 18,567                     | 17,798    | 17,219    | 17,722    | 17,932    | 17,663    | 17,908    |
| Freighter <sup>3</sup>     | 8,103                      | 7,990     | 7,591     | 7,900     | 8,686     | 7,427     | 7,034     |
| Bulk Carrier <sup>4</sup>  | 13,722                     | 14,530    | 14,803    | 16,560    | 16,960    | 16,011    | 15,075    |
| Tanker <sup>5</sup>        | 22,230                     | 22,617    | 22,218    | 22,062    | 23,695    | 24,411    | 24,165    |
| Passenger <sup>6</sup>     | 36,618                     | 44,492    | 41,934    | 38,868    | 41,717    | 45,329    | 46,814    |
| Barge <sup>7</sup>         | 10,668                     | 10,838    | 10,186    | 9,558     | 9,496     | 9,217     | 8,674     |
| Tug <sup>8</sup>           | 11,102                     | 11,732    | 11,101    | 10,891    | 11,343    | 10,887    | 9,964     |
| Miscellaneous <sup>9</sup> | 9,412                      | 9,420     | 9,831     | 9,361     | 9,169     | 14,202    | 11,134    |
|                            | Shipping Tonnage ('000 GT) |           |           |           |           |           |           |
| Total                      | 2,254,353                  | 2,326,121 | 2,371,107 | 2,504,155 | 2,662,695 | 2,799,585 | 2,791,966 |
| Container <sup>2</sup>     | 684,720                    | 709,935   | 739,547   | 774,773   | 819,014   | 839,861   | 880,963   |
| Freighter <sup>3</sup>     | 41,229                     | 43,201    | 40,608    | 41,851    | 50,694    | 44,013    | 40,523    |
| Bulk Carrier <sup>4</sup>  | 654,655                    | 683,385   | 694,154   | 775,329   | 819,883   | 804,339   | 762,439   |
| Tanker <sup>5</sup>        | 693,839                    | 704,844   | 707,464   | 719,445   | 780,849   | 875,841   | 881,621   |
| Passenger <sup>6</sup>     | 29,198                     | 33,563    | 29,879    | 32,213    | 36,171    | 41,890    | 53,635    |
| Barge <sup>7</sup>         | 18,174                     | 18,959    | 17,562    | 15,763    | 15,177    | 14,619    | 13,428    |
| Tug <sup>8</sup>           | 2,748                      | 2,742     | 2,505     | 2,477     | 2,699     | 2,547     | 2,456     |
| Miscellaneous              | 129,791                    | 129,492   | 139,389   | 142,303   | 138,207   | 176,476   | 156,901   |

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.

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## 16.3 VESSEL ARRIVALS<sup>1</sup> BY PURPOSE<sup>2</sup>

|          | 2012                       | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|----------|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|          | Number                     |           |           |           |           |           |           |
| Cargo    | 50,562                     | 50,288    | 49,890    | 48,842    | 49,830    | 54,120    | 49,779    |
| Repairs  | 6,657                      | 6,881     | 6,335     | 4,141     | 3,762     | 3,507     | 2,784     |
| Bunkers  | 38,082                     | 38,614    | 38,299    | 40,763    | 42,380    | 40,736    | 39,471    |
| Supplies | 24,166                     | 26,334    | 27,340    | 29,756    | 31,265    | 30,946    | 28,819    |
| Others   | 69,885                     | 78,904    | 77,457    | 77,696    | 81,821    | 85,016    | 88,072    |
|          | Shipping Tonnage ('000 GT) |           |           |           |           |           |           |
| Cargo    | 1,009,294                  | 1,058,170 | 1,101,282 | 1,132,433 | 1,178,540 | 1,254,662 | 1,259,066 |
| Repairs  | 34,886                     | 34,076    | 40,247    | 40,898    | 30,221    | 33,714    | 29,829    |
| Bunkers  | 1,643,832                  | 1,692,737 | 1,691,125 | 1,784,106 | 1,884,256 | 1,961,110 | 1,966,403 |
| Supplies | 823,949                    | 933,729   | 973,573   | 1,065,789 | 1,137,293 | 1,197,806 | 1,122,157 |
| Others   | 810,699                    | 920,117   | 1,076,411 | 1,230,833 | 1,274,139 | 1,350,888 | 1,427,377 |

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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14518](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14518)

## 16.4 CIVIL AIRCRAFT ARRIVALS/DEPARTURES, PASSENGERS AND MAIL

|                             | Unit   | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
|-----------------------------|--------|---------|---------|---------|---------|---------|---------|---------|
| Total Aircraft Arrivals And |        |         |         |         |         |         |         |         |
| Departures <sup>1</sup>     | No.    | 324,722 | 343,765 | 341,386 | 346,334 | 360,490 | 373,201 | 386,042 |
| Arrivals                    | No.    | 162,349 | 171,850 | 170,680 | 173,152 | 180,251 | 186,591 | 193,000 |
| Departures                  | No.    | 162,373 | 171,915 | 170,706 | 173,182 | 180,239 | 186,610 | 193,042 |
| Total Passengers            | '000   | 51,182  | 53,726  | 54,093  | 55,449  | 58,698  | 62,220  | 65,627  |
| Arriving                    | '000   | 25,056  | 26,500  | 26,669  | 27,491  | 29,204  | 30,960  | 32,675  |
| Departing                   | '000   | 24,854  | 26,275  | 26,620  | 27,344  | 28,954  | 30,614  | 32,215  |
| In Transit <sup>2</sup>     | '000   | 1,272   | 951     | 804     | 613     | 540     | 646     | 738     |
| Total Mail                  | Tonnes | 35,633  | 35,743  | 36,331  | 33,845  | 36,891  | 39,773  | 40,093  |
| In-coming                   | Tonnes | 15,789  | 14,770  | 14,168  | 14,459  | 14,901  | 13,615  | 13,673  |
| Out-going                   | Tonnes | 19,844  | 20,973  | 22,163  | 19,386  | 21,990  | 26,158  | 26,420  |

Source : Civil Aviation Authority of Singapore

Notes : Refers to Changi Airport only.

1 Refers to commercial passenger and cargo aircraft arrivals/departures.

2 Refers to passengers who arrived and departed on the same aircraft with the same flight number within 24 hours of scheduled time of arrival, to a country other than the country from which they embarked.

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## 16.5 AIR CARGO DISCHARGED BY REGION/COUNTRY OF ORIGIN

|                 | Tonnes  |         |           |           |           |           |           |
|-----------------|---------|---------|-----------|-----------|-----------|-----------|-----------|
| Region/Country  | 2012    | 2013    | 2014      | 2015      | 2016      | 2017      | 2018      |
| Total           | 975,842 | 995,808 | 1,004,559 | 1,015,296 | 1,083,999 | 1,155,749 | 1,164,765 |
| South East Asia | 161,444 | 150,642 | 162,186   | 155,838   | 163,745   | 177,038   | 187,588   |
| Indonesia       | 58,058  | 57,735  | 57,303    | 53,803    | 55,215    | 51,675    | 52,122    |
| Malaysia        | 14,457  | 13,836  | 15,331    | 16,711    | 17,401    | 17,303    | 19,771    |
| Philippines     | 12,648  | 11,360  | 11,684    | 11,032    | 11,401    | 13,207    | 16,305    |
| Thailand        | 57,062  | 46,545  | 53,929    | 51,299    | 53,440    | 64,405    | 66,783    |
| Viet Nam        | 15,370  | 16,865  | 19,468    | 18,336    | 20,292    | 23,151    | 24,742    |
| North East Asia | 458,739 | 465,479 | 478,074   | 470,155   | 486,635   | 521,409   | 511,758   |
| Mainland China  | 152,143 | 153,717 | 154,635   | 147,863   | 152,348   | 169,646   | 168,161   |
| Hong Kong       | 135,449 | 138,482 | 140,056   | 139,585   | 140,873   | 145,491   | 137,755   |
| Japan           | 60,775  | 63,751  | 72,660    | 78,870    | 85,340    | 95,142    | 90,655    |
| South Asia      | 62,796  | 70,103  | 64,752    | 62,486    | 71,894    | 81,400    | 84,695    |
| Middle East     | 26,936  | 30,280  | 30,691    | 34,671    | 39,980    | 46,297    | 50,349    |
| Oceania         | 85,871  | 93,229  | 97,156    | 121,314   | 133,401   | 130,985   | 133,087   |
| Europe          | 150,280 | 160,725 | 151,968   | 152,347   | 163,696   | 171,653   | 160,768   |
| France          | 8,208   | 8,446   | 9,095     | 8,748     | 8,113     | 9,622     | 10,012    |
| Germany         | 25,276  | 27,567  | 16,807    | 14,681    | 15,680    | 17,800    | 17,548    |
| United Kingdom  | 22,902  | 27,436  | 25,449    | 25,224    | 22,757    | 27,132    | 34,141    |
| North America   | 25,183  | 21,510  | 16,678    | 15,885    | 19,010    | 21,530    | 27,900    |
| Other Regions   | 4,593   | 3,840   | 3,055     | 2,598     | 3,059     | 3,262     | 6,704     |
| Not Stated      | na      | na      | na        | na        | 2,579     | 2,174     | 1,917     |

Source : Civil Aviation Authority of Singapore

Notes : Refers to Changi Airport only.

Data exclude passenger baggage, diplomatic cargo and aircraft stores.

Data breakdown is only available for the 11 countries listed above, and they do not sum up to the total of the respective regions.

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## 16.6 AIR CARGO LOADED BY REGION/COUNTRY OF DESTINATION

|                 | Tonnes  |         |         |         |         |         |         |
|-----------------|---------|---------|---------|---------|---------|---------|---------|
| Region/Country  | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
| Total           | 853,278 | 841,894 | 839,240 | 837,791 | 885,435 | 969,477 | 990,114 |
| South East Asia | 187,900 | 185,273 | 182,370 | 175,283 | 179,785 | 187,053 | 189,457 |
| Indonesia       | 65,095  | 69,638  | 60,832  | 55,664  | 60,099  | 58,199  | 61,520  |
| Malaysia        | 29,054  | 29,881  | 29,881  | 29,170  | 23,531  | 22,496  | 20,190  |
| Philippines     | 16,487  | 16,144  | 20,316  | 20,439  | 20,387  | 20,964  | 24,990  |
| Thailand        | 55,639  | 44,743  | 45,338  | 43,098  | 43,005  | 47,559  | 47,310  |
| Viet Nam        | 15,684  | 16,986  | 17,530  | 17,935  | 22,570  | 27,176  | 25,766  |
| North East Asia | 275,545 | 279,504 | 281,000 | 285,797 | 307,118 | 343,003 | 342,233 |
| Mainland China  | 78,801  | 82,602  | 79,801  | 85,106  | 86,088  | 101,702 | 104,659 |
| Hong Kong       | 70,264  | 73,352  | 73,503  | 74,262  | 86,108  | 81,968  | 79,077  |
| Japan           | 65,373  | 61,167  | 67,106  | 68,171  | 67,485  | 72,987  | 69,047  |
| South Asia      | 69,059  | 67,213  | 68,605  | 68,773  | 75,280  | 81,414  | 89,952  |
| Middle East     | 33,049  | 35,047  | 34,591  | 37,790  | 40,048  | 47,335  | 45,751  |
| Oceania         | 120,755 | 118,970 | 123,250 | 125,467 | 121,686 | 131,407 | 133,104 |
| Europe          | 118,869 | 115,514 | 116,346 | 111,300 | 120,225 | 134,784 | 142,574 |
| France          | 8,022   | 8,247   | 8,245   | 7,676   | 9,151   | 10,471  | 11,219  |
| Germany         | 25,351  | 21,743  | 19,317  | 18,124  | 19,889  | 24,103  | 29,326  |
| United Kingdom  | 31,723  | 33,908  | 35,370  | 35,720  | 37,537  | 37,798  | 38,098  |
| North America   | 31,654  | 29,100  | 22,183  | 24,069  | 29,756  | 32,417  | 34,762  |
| Other Regions   | 16,446  | 11,274  | 10,896  | 9,311   | 10,215  | 10,224  | 10,780  |
| Not Stated      | na      | na      | na      | na      | 1,322   | 1,840   | 1,502   |

Source : Civil Aviation Authority of Singapore

Notes : Refers to Changi Airport only.

Data exclude passenger baggage, diplomatic cargo and aircraft stores.

Data breakdown is only available for the 11 countries listed above, and they do not sum up to the total of the respective regions.

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## 16.7 AIR PASSENGER ARRIVALS BY REGION/COUNTRY OF EMBARKATION

| Region/Country  | Thousand |        |        |        |        |        |        |
|-----------------|----------|--------|--------|--------|--------|--------|--------|
|                 | 2012     | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
| Total           | 25,056   | 26,500 | 26,669 | 27,491 | 29,204 | 30,960 | 32,675 |
| South East Asia | 11,013   | 11,929 | 11,807 | 12,066 | 12,942 | 13,672 | 14,168 |
| Indonesia       | 3,401    | 3,716  | 3,760  | 3,489  | 3,741  | 3,908  | 4,043  |
| Malaysia        | 2,485    | 2,712  | 2,728  | 2,846  | 3,100  | 3,340  | 3,468  |
| Philippines     | 1,251    | 1,279  | 1,273  | 1,314  | 1,353  | 1,394  | 1,475  |
| Thailand        | 2,475    | 2,699  | 2,375  | 2,693  | 2,885  | 3,027  | 3,083  |
| Viet Nam        | 881      | 905    | 988    | 1,060  | 1,153  | 1,238  | 1,335  |
| North East Asia | 6,214    | 6,637  | 6,901  | 7,161  | 7,642  | 7,948  | 8,263  |
| Mainland China  | 2,180    | 2,322  | 2,298  | 2,449  | 2,815  | 3,169  | 3,393  |
| Hong Kong       | 1,717    | 1,716  | 1,870  | 1,843  | 1,827  | 1,710  | 1,604  |
| Japan           | 1,049    | 1,209  | 1,286  | 1,362  | 1,402  | 1,389  | 1,527  |
| South Asia      | 2,106    | 2,226  | 2,339  | 2,417  | 2,546  | 2,886  | 3,214  |
| Middle East     | 530      | 605    | 639    | 749    | 795    | 805    | 806    |
| Oceania         | 2,651    | 2,715  | 2,707  | 2,828  | 2,970  | 3,075  | 3,208  |
| Europe          | 2,095    | 1,975  | 1,936  | 1,936  | 1,939  | 2,116  | 2,460  |
| France          | 239      | 240    | 215    | 207    | 209    | 216    | 212    |
| Germany         | 451      | 393    | 367    | 355    | 366    | 415    | 506    |
| United Kingdom  | 722      | 633    | 594    | 602    | 601    | 644    | 773    |
| North America   | 337      | 315    | 246    | 249    | 273    | 354    | 429    |
| Other Regions   | 111      | 101    | 95     | 85     | 96     | 103    | 125    |

Source : Civil Aviation Authority of Singapore

Notes : Refers to Changi Airport only.

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

Data breakdown is only available for the 11 countries listed above, and they do not sum up to the total of the respective regions.

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## 16.8 AIR PASSENGER DEPARTURES BY REGION/COUNTRY OF DISEMBARKATION

| Region/Country  | Thousand |        |        |        |        |        |        |
|-----------------|----------|--------|--------|--------|--------|--------|--------|
|                 | 2012     | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
| Total           | 24,854   | 26,275 | 26,620 | 27,344 | 28,954 | 30,614 | 32,215 |
| South East Asia | 10,873   | 11,753 | 11,725 | 11,902 | 12,689 | 13,370 | 13,803 |
| Indonesia       | 3,420    | 3,704  | 3,758  | 3,483  | 3,730  | 3,886  | 4,017  |
| Malaysia        | 2,530    | 2,739  | 2,743  | 2,826  | 3,048  | 3,249  | 3,345  |
| Philippines     | 1,189    | 1,236  | 1,238  | 1,285  | 1,336  | 1,391  | 1,463  |
| Thailand        | 2,352    | 2,567  | 2,333  | 2,603  | 2,742  | 2,879  | 2,951  |
| Viet Nam        | 868      | 900    | 981    | 1,049  | 1,134  | 1,210  | 1,283  |
| North East Asia | 6,165    | 6,609  | 6,877  | 7,173  | 7,639  | 7,875  | 8,194  |
| Mainland China  | 2,183    | 2,321  | 2,293  | 2,463  | 2,837  | 3,156  | 3,378  |
| Hong Kong       | 1,684    | 1,692  | 1,846  | 1,829  | 1,793  | 1,677  | 1,574  |
| Japan           | 1,044    | 1,212  | 1,287  | 1,388  | 1,410  | 1,390  | 1,530  |
| South Asia      | 2,050    | 2,131  | 2,278  | 2,333  | 2,489  | 2,795  | 3,074  |
| Middle East     | 545      | 623    | 643    | 742    | 786    | 800    | 802    |
| Oceania         | 2,709    | 2,770  | 2,817  | 2,904  | 3,001  | 3,156  | 3,321  |
| Europe          | 2,080    | 1,982  | 1,945  | 1,967  | 1,996  | 2,175  | 2,486  |
| France          | 236      | 242    | 218    | 213    | 213    | 218    | 215    |
| Germany         | 458      | 391    | 374    | 360    | 368    | 420    | 499    |
| United Kingdom  | 693      | 629    | 586    | 603    | 635    | 674    | 782    |
| North America   | 314      | 302    | 237    | 238    | 259    | 338    | 414    |
| Other Regions   | 118      | 105    | 98     | 87     | 94     | 104    | 122    |

Source : Civil Aviation Authority of Singapore

Notes : Refers to Changi Airport only.

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

Data breakdown is only available for the 11 countries listed above, and they do not sum up to the total of the respective regions.

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## 16.9 PUBLIC ROADS

(End of Period)

|                    | Lane-Kilometres |       |       |       |       |       |       |
|--------------------|-----------------|-------|-------|-------|-------|-------|-------|
|                    | 2012            | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
| Total Paved Roads  | 9,081           | 9,178 | 9,233 | 9,246 | 9,310 | 9,293 | 9,405 |
| Expressways        | 1,059           | 1,093 | 1,093 | 1,093 | 1,107 | 1,107 | 1,107 |
| Arterial Roads     | 3,054           | 3,100 | 3,146 | 3,147 | 3,175 | 3,177 | 3,263 |
| Collector Roads    | 1,584           | 1,593 | 1,599 | 1,607 | 1,622 | 1,605 | 1,625 |
| Local Access Roads | 3,384           | 3,392 | 3,394 | 3,399 | 3,406 | 3,404 | 3,410 |

Source : Land Transport Authority

Notes : Data include all public roads maintained by the Land Transport Authority.  
Excludes all roads maintained by the other agencies and on privately-owned areas.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14587](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14587)

## 16.10 MOTOR VEHICLE POPULATION <sup>1</sup> BY TYPE OF VEHICLE

(End of Period)

|                                | Number  |         |         |         |         |         |         |
|--------------------------------|---------|---------|---------|---------|---------|---------|---------|
|                                | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
| Total                          | 969,910 | 974,170 | 972,037 | 957,246 | 956,430 | 961,842 | 957,006 |
| Cars <sup>2</sup>              | 605,149 | 607,292 | 600,176 | 575,353 | 552,427 | 546,706 | 551,575 |
| Private Hire Cars <sup>3</sup> | 14,862  | 16,396  | 18,847  | 29,369  | 51,336  | 68,083  | 66,480  |
| Taxis                          | 28,210  | 27,695  | 28,736  | 28,259  | 27,534  | 23,140  | 20,581  |
| Buses                          | 17,162  | 17,509  | 17,554  | 18,183  | 18,804  | 19,285  | 19,379  |
| Motorcycles                    | 144,110 | 144,934 | 145,026 | 143,900 | 143,052 | 141,916 | 137,480 |
| Goods & Other Vehicles         | 160,417 | 160,344 | 161,698 | 162,182 | 163,277 | 162,712 | 161,511 |

Source : Land Transport Authority

- 1 Includes vehicles which are exempted from Vehicle Quota System and all other taxes.
- 2 Includes private and company cars.
- 3 Includes self-drive and chauffeured cars.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15307](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15307)

## 16.11 CAR POPULATION BY CC RATING

(End of Period)

| CC Rating         | Number  |         |         |         |         |         |         |
|-------------------|---------|---------|---------|---------|---------|---------|---------|
|                   | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
| Total             | 617,570 | 621,345 | 616,609 | 602,311 | 601,257 | 612,256 | 615,452 |
| 1,000 cc & below  | 6,490   | 6,364   | 6,189   | 5,799   | 4,821   | 5,388   | 6,444   |
| 1,001 to 1,600 cc | 335,409 | 335,419 | 331,104 | 321,082 | 325,700 | 337,682 | 342,809 |
| 1,601 to 2,000 cc | 162,217 | 164,768 | 164,424 | 162,791 | 165,042 | 171,499 | 175,793 |
| 2,001 to 3,000 cc | 94,712  | 95,295  | 95,251  | 93,358  | 87,832  | 81,527  | 75,718  |
| 3,001 cc & above  | 18,742  | 19,499  | 19,641  | 19,281  | 17,862  | 16,160  | 14,688  |

Source : Land Transport Authority

Notes : Data refer to private cars, company cars and private hire cars only.  
They do not include taxis and tax exempted cars.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14621](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14621)

## 16.12 AGE DISTRIBUTION OF CARS

(End of Period)

| Age (Years)   | Number  |         |         |         |         |         |         |
|---------------|---------|---------|---------|---------|---------|---------|---------|
|               | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
| Total         | 617,570 | 621,345 | 616,609 | 602,311 | 601,257 | 612,256 | 615,452 |
| Below 1       | 27,297  | 21,952  | 28,547  | 57,387  | 87,157  | 91,614  | 79,961  |
| 1 - below 2   | 27,759  | 27,299  | 21,943  | 28,540  | 57,370  | 87,142  | 91,204  |
| 2 - below 3   | 41,439  | 27,747  | 27,288  | 21,932  | 28,523  | 57,335  | 85,124  |
| 3 - below 4   | 68,512  | 41,420  | 27,727  | 27,267  | 21,759  | 28,392  | 55,790  |
| 4 - below 5   | 96,822  | 68,488  | 41,402  | 27,701  | 27,144  | 21,269  | 26,621  |
| 5 - below 6   | 105,599 | 96,742  | 68,460  | 41,372  | 27,635  | 26,551  | 18,912  |
| 6 - below 7   | 115,056 | 105,403 | 96,674  | 68,437  | 41,318  | 27,412  | 23,938  |
| 7 - below 8   | 86,307  | 114,665 | 105,216 | 96,602  | 68,362  | 41,142  | 25,854  |
| 8 - below 9   | 29,983  | 84,212  | 113,962 | 104,943 | 96,263  | 68,076  | 39,859  |
| 9 - below 10  | 8,089   | 23,039  | 73,764  | 107,529 | 97,596  | 88,583  | 62,955  |
| 10 - below 11 | 368     | 628     | 1,840   | 9,561   | 28,820  | 28,487  | 37,753  |
| 11 - below 12 | 585     | 362     | 614     | 1,817   | 9,378   | 28,439  | 27,376  |
| 12 - below 13 | 558     | 582     | 357     | 592     | 1,749   | 8,728   | 25,799  |
| 13 - below 14 | 500     | 556     | 567     | 345     | 554     | 1,557   | 6,677   |
| 14 - below 15 | 559     | 493     | 533     | 526     | 305     | 458     | 1,121   |
| 15 & above    | 8,137   | 7,757   | 7,715   | 7,760   | 7,324   | 7,071   | 6,508   |

Source : Land Transport Authority

Notes : Data refer to private cars, company cars and private hire cars only.  
They do not include taxis and tax exempted cars.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14562](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14562)

## 16.13 ROAD TRAFFIC ACCIDENT CASUALTIES

|                                    | 2012   | 2013  | 2014  | 2015   | 2016   | 2017  | 2018   |
|------------------------------------|--------|-------|-------|--------|--------|-------|--------|
|                                    |        |       |       |        |        |       | Number |
| Total Casualties                   |        |       |       |        |        |       |        |
| Fatalities                         | 168    | 160   | 155   | 151    | 141    | 121   | 124    |
| Injured                            | 10,253 | 9,751 | 9,858 | 10,412 | 10,687 | 9,953 | 10,018 |
| Pedestrians                        |        |       |       |        |        |       |        |
| Fatalities                         | 44     | 43    | 45    | 43     | 47     | 45    | 40     |
| Injured                            | 1,069  | 989   | 883   | 973    | 1,065  | 998   | 1,039  |
| Cyclists & Pillion <sup>1</sup>    |        |       |       |        |        |       |        |
| Fatalities                         | 16     | 15    | 15    | 17     | 20     | 15    | 9      |
| Injured                            | 442    | 436   | 503   | 606    | 594    | 589   | 499    |
| Motor Cyclists & Pillion Riders    |        |       |       |        |        |       |        |
| Fatalities                         | 76     | 73    | 74    | 72     | 62     | 44    | 61     |
| Injured                            | 4,800  | 4,383 | 4,634 | 4,928  | 5,102  | 4,803 | 4,839  |
| Motor Vehicle Drivers & Passengers |        |       |       |        |        |       |        |
| Cars & Station Wagons              |        |       |       |        |        |       |        |
| Fatalities                         | 14     | 16    | 12    | 7      | 8      | 9     | 10     |
| Injured                            | 2,782  | 2,811 | 2,686 | 2,746  | 2,698  | 2,485 | 2,537  |
| Goods Vans & Pick-Ups              |        |       |       |        |        |       |        |
| Fatalities                         | 0      | 3     | 2     | 2      | 1      | 2     | 3      |
| Injured                            | 234    | 226   | 193   | 219    | 235    | 199   | 180    |
| Lorries, Tipper Trucks & Trailers  |        |       |       |        |        |       |        |
| Fatalities                         | 11     | 9     | 6     | 8      | 3      | 5     | 1      |
| Injured                            | 574    | 647   | 578   | 554    | 540    | 524   | 547    |
| Buses                              |        |       |       |        |        |       |        |
| Fatalities                         | 4      | 1     | 0     | 2      | 0      | 1     | 0      |
| Injured                            | 320    | 243   | 342   | 358    | 415    | 333   | 350    |
| Others                             |        |       |       |        |        |       |        |
| Fatalities                         | 3      | 0     | 1     | 0      | 0      | 0     | 0      |
| Injured                            | 32     | 16    | 39    | 28     | 38     | 22    | 27     |

Source : Singapore Police Force

<sup>1</sup> Includes those using power assisted bicycles.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15159](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15159)

## 16.14 VEHICLES INVOLVED IN FATAL AND INJURY ROAD TRAFFIC ACCIDENTS BY TYPE OF VEHICLE

|                                      | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | Number<br>2018 |
|--------------------------------------|--------|--------|--------|--------|--------|--------|----------------|
| Total                                | 14,357 | 13,906 | 14,322 | 14,982 | 15,369 | 14,168 | 14,062         |
| Bicycles and Power Assisted Bicycles | 472    | 466    | 530    | 643    | 633    | 605    | 513            |
| Motor Cycles & Scooters              | 4,572  | 4,231  | 4,506  | 4,694  | 4,913  | 4,619  | 4,748          |
| Motor Cars & Station Wagons          | 6,821  | 6,637  | 6,723  | 6,930  | 7,172  | 6,680  | 6,423          |
| Goods Vans & Pick-Ups                | 592    | 630    | 576    | 617    | 657    | 539    | 549            |
| Lorries, Tipper Trucks & Trailers    | 1,345  | 1,361  | 1,384  | 1,413  | 1,321  | 1,128  | 1,220          |
| Buses                                | 465    | 499    | 505    | 568    | 572    | 494    | 510            |
| Others                               | 90     | 82     | 98     | 117    | 101    | 103    | 99             |

Source : Singapore Police Force

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14592](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14592)

## 16.15 PUBLIC TRANSPORT OPERATION AND RIDERSHIP

|                          | Unit                 | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
|--------------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|
| Rail Length              | km                   | 177.7  | 182.0  | 183.0  | 199.6  | 199.6  | 228.1  | 228.1  |
| Mass Rapid Transit (MRT) | km                   | 148.9  | 153.2  | 154.2  | 170.8  | 170.8  | 199.3  | 199.3  |
| Light Rail Transit (LRT) | km                   | 28.8   | 28.8   | 28.8   | 28.8   | 28.8   | 28.8   | 28.8   |
| Rail Km Operated         |                      |        |        |        |        |        |        |        |
| MRT Km Operated          | Train-km ('000)      | 26,492 | 26,420 | 28,173 | 28,795 | 34,194 | 36,278 | 40,700 |
| LRT Km Operated          | Car-km ('000)        | 3,883  | 4,435  | 4,787  | 5,937  | 6,620  | 7,233  | 7,302  |
| Average Daily Ridership  |                      |        |        |        |        |        |        |        |
| MRT                      | '000 passenger-trips | 2,525  | 2,623  | 2,762  | 2,871  | 3,095  | 3,122  | 3,302  |
| LRT                      | '000 passenger-trips | 124    | 132    | 137    | 153    | 180    | 190    | 199    |
| Bus                      | '000 passenger-trips | 3,481  | 3,601  | 3,751  | 3,891  | 3,939  | 3,952  | 4,037  |
| Taxi <sup>1</sup>        | '000 passenger-trips | 967    | 967    | 1,020  | 1,010  | 954    | 785    | 595    |

Source Land Transport Authority (LTA)

1 From 2018, the methodology behind the taxi ridership data has been updated, with more granular data available to the LTA in the past year.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14582](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14582)

17



## InfoComm and Media



# 17

## 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. From 2017, companies providing content services were excluded from the survey frame. These companies are covered by a media industry survey.

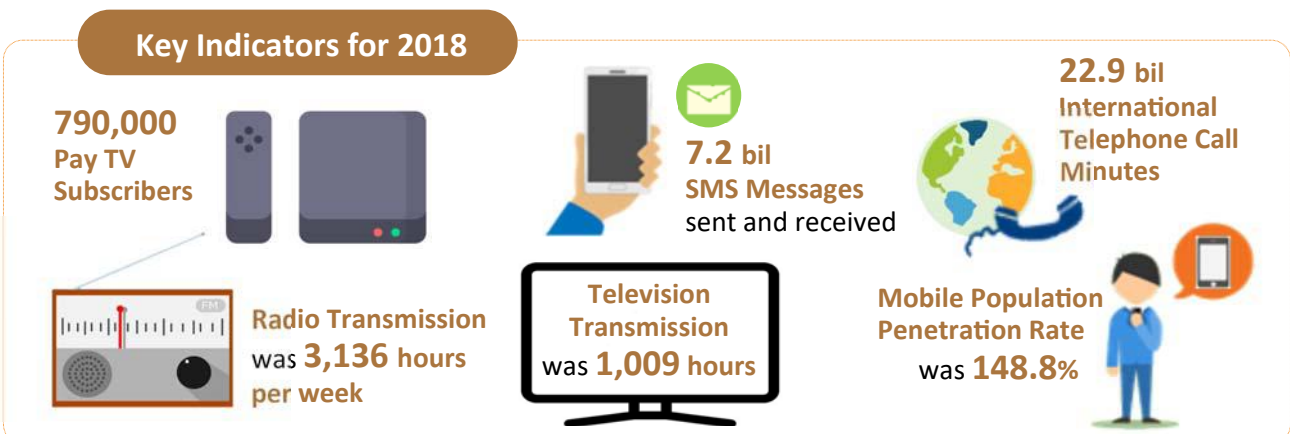
### Radio, Television and Over-the-top Services

Mediacorp is Singapore’s largest content creator and transmedia network, operating six TV channels, eleven radio stations and multiple

digital platforms including CNA, Singapore's most used news app, and Toggle, its digital video platform. Its mission is to engage, entertain and enrich audiences by harnessing the power of creativity. Mediacorp pioneered the development of Singapore’s broadcasting industry, with radio broadcast in 1936 and television broadcast in 1963. Today, it reaches 98% of Singaporeans in four languages weekly and has a growing Asian audience base through CNA as well as entertainment content that is distributed across markets in the region.

SPH Radio Pte Ltd manages and operates five 24-hour radio stations—ONE FM 91.3, Kiss92, MONEY FM 89.3, UFM 100.3, and 96.3 Hao FM. ONE FM 91.3 and Kiss92 are English music stations. MONEY FM 89.3, which is also in English, is Singapore’s first and only business and personal finance radio station. UFM 100.3 and 96.3 Hao FM are Mandarin music stations, with the latter focusing more on lifestyle, healthcare and financial topics.

*So Drama!* Entertainment owns and operates two radio stations. 88.3JIA first rode the ariwaves in 1995, before relaunching in 2007 as Singapore’s only bilingual station. It now has two new music streams 88.3JIA K-POP and 88.3JIA WEB HITS. POWER 98, which has been entertaining radio audiences since 1994, was relaunched as POWER 98 LOVE SONGS—BEST OF LOVE SONGS in 2019 and has two new music streams POWER 98 HITS! and POWER 98 RAW. The new app, Camokakis, allows listeners to tune-in through the app in addition to listening on-air and online.



# 17.1 POSTAL ARTICLES HANDLED AND TELECOMMUNICATIONS

|  | Unit     | 2012     | 2013     | 2014     | 2015     | 2016     | 2017     | 2018     |
|--|----------|----------|----------|----------|----------|----------|----------|----------|
| Postal Articles Handled                            | Million  | 2,029.6  | 1,997.7  | 1,997.8  | 1,983.4  | 1,896.7  | 1,720.4  | 1,598.5  |
| Subscriptions <sup>1</sup>                         |          |          |          |          |          |          |          |          |
| Fixed Line   | '000     | 1,989.5  | 1,970.8  | 1,996.6  | 2,017.3  | 2,003.2  | 1,983.1  | 1,966.6  |
| Residential  | '000     | 1,214.1  | 1,207.7  | 1,247.6  | 1,280.6  | 1,295.9  | 1,299.2  | 1,312.3  |
| Corporate/Business                                 | '000     | 775.4    | 763.1    | 749.0    | 736.8    | 707.3    | 683.9    | 654.3    |
| Mobile Phone                                       | '000     | 8,063.0  | 8,420.7  | 8,093.3  | 8,211.4  | 8,399.7  | 8,462.8  | 8,389.5  |
| 2G <sup>2</sup>                                    | '000     | 1,582.4  | 1,111.5  | 302.9    | 221.6    | 132.3    | na       | na       |
| Post-paid  | '000     | 152.7    | 117.8    | 89.8     | 49.2     | 30.9     | na       | na       |
| Pre-paid   | '000     | 1,429.7  | 993.7    | 213.1    | 172.4    | 101.4    | na       | na       |
| 3G   | '000     | 6,480.6  | 5,258.3  | 4,608.8  | 3,913.5  | 3,412.1  | 2,349.0  | 1,787.5  |
| Post-paid  | '000     | 4,113.2  | 2,393.9  | 1,674.4  | 1,163.4  | 855.7    | 650.0    | 540.5    |
| Pre-paid   | '000     | 2,367.4  | 2,864.4  | 2,934.4  | 2,750.1  | 2,556.4  | 1,699.0  | 1,247.0  |
| 4G   | '000     | na       | 2,050.8  | 3,181.6  | 4,076.3  | 4,855.2  | 6,113.9  | 6,602.0  |
| Post-paid  | '000     | na       | na       | 2,924.0  | 3,628.6  | 4,085.1  | 4,449.5  | 4,847.7  |
| Pre-paid   | '000     | na       | na       | 257.6    | 447.7    | 770.1    | 1,664.4  | 1,754.3  |
| Dial-up Internet <sup>3</sup>                      | '000     | 23.8     | 20.6     | 18.3     | 12.9     | 11.3     | 5.8      | 5.5      |
| Broadband <sup>4</sup>                             | '000     | 10,194.9 | 10,653.6 | 11,537.2 | 11,992.1 | 12,543.8 | 13,072.9 | 12,121.1 |
| Residential Wired <sup>5</sup>                     | '000     | 1,277.6  | 1,295.4  | 1,347.5  | 1,359.9  | 1,336.2  | 1,343.2  | 1,366.4  |
| Corporate Wired <sup>6</sup>                       | '000     | 93.4     | 98.0     | 106.5    | 113.4    | 118.8    | 127.1    | 123.6    |
| Wireless <sup>7</sup>                              | '000     | 8,823.9  | 9,260.1  | 10,083.3 | 10,518.8 | 11,088.9 | 11,602.5 | 10,631.1 |
| Total SMS Messages <sup>8</sup>                    | Million  | 24,052.9 | 17,893.4 | 13,508.0 | 11,447.9 | 9,780.3  | 8,487.3  | 7,179.1  |
| Mobile Data Usage <sup>9</sup>                     | Petabyte | 64.6     | 85.5     | 100.8    | 123.8    | 142.1    | 175.5    | 226.1    |
| International Telephone Call Minutes <sup>10</sup> | Million  | 13,444.8 | 14,489.6 | 18,165.5 | 22,018.2 | 23,638.8 | 21,242.0 | 22,918.6 |

Sources : Singapore Post  
Info-communications Media Development Authority

Notes : With effect from 1 October 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 Total post-paid and pre-paid subscriptions (2G) has ceased service with effect from April 2017.
- 3 Covers paid internet access subscriptions only.
- 4 Includes retail xDSL, cable modems, leased line Internet, 3G, 3.5G/HSDPA, 4G/LTE, WiMAX or its equivalent and Wi-Fi hotspots access (including Wireless@SG subscriptions).
- 5 Includes all retail residential wired broadband subscriptions provided over xDSL, cable modems, leased line and optical fibre. Residential wireless broadband subscriptions are excluded.
- 6 Includes all retail corporate wired broadband subscriptions provided over xDSL, cable modems, leased line and optical fibre. Corporate wireless broadband subscriptions are excluded.
- 7 Includes all retail broadband Internet access subscriptions provided via wireless platforms such as 3G, 3.5G/HSDPA, 4G/LTE, WiMAX or its equivalent and Wi-Fi hotspots (including Wireless@SG subscriptions).  
From January 2018, the Wireless@SG subscriptions will only include active users for the month.
- 8 Includes SMS messages sent and received over 2G (up to April 2017), 3G and 4G (from March 2013) mobile networks.
- 9 Reflects the amount of bi-directional (the aggregated total downloaded) mobile data sent over the mobile networks, including MMS and any other upload/download but excludes video telephony and SMS.
- 10 Includes total retail outgoing international call minutes, transit minutes, calls to Malaysia and traffic by all Service-Based Operators.

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[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15268](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15268)

## 17.2 REVENUE OF THE INFORMATION AND COMMUNICATION TECHNOLOGY INDUSTRY

Million Dollars

|   | 2011   | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    |
|---|--------|---------|---------|---------|---------|---------|---------|
| Local and Export Market <sup>1</sup>                  |        |         |         |         |         |         |         |
| Total   | 94,521 | 113,286 | 156,341 | 167,054 | 189,569 | 175,803 | 199,231 |
| Local   | 35,822 | 35,455  | 48,531  | 50,695  | 53,393  | 48,041  | 54,341  |
| Export  | 58,699 | 77,831  | 107,810 | 116,359 | 136,177 | 127,763 | 144,890 |
| Hardware and Software/IT Services Market <sup>1</sup> |        |         |         |         |         |         |         |
| Total   | 94,521 | 113,286 | 156,341 | 167,054 | 189,569 | 175,803 | 199,231 |
| Hardware  | 59,481 | 74,904  | 106,606 | 114,962 | 138,612 | 130,562 | 147,818 |
| Software / IT Services                                | 22,021 | 25,420  | 34,037  | 34,829  | 34,803  | 31,408  | 41,045  |
| Telecommunications                                    | 10,221 | 10,838  | 12,281  | 13,941  | 12,412  | 11,114  | 10,368  |
| Content Activities <sup>2</sup>                       | 2,798  | 2,125   | 3,417   | 3,322   | 3,742   | 2,720   | na      |

Source : Info-communications Media Development Authority

Notes : With effect from 1 October 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.

Prior to 2017, infocomm industry revenue is defined as revenue from sales of hardware, software, IT services, telecommunication services and content services.

From 2017, infocomm industry revenue is defined as revenue from sales of hardware, software, IT services and telecommunication services.

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'.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15214](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15214)

## 17.3 RADIO AND TELEVISION TRANSMISSION AND PAY TV SUBSCRIBERS

|   | Unit           | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|---|----------------|-------|-------|-------|-------|-------|-------|-------|
| Radio<br>(Mediacorp,<br>SPH Radio &<br>So Drama! Entertainment) | Hours per Week | 2,856 | 3,024 | 3,024 | 3,024 | 2,982 | 2,800 | 3,136 |
| Television<br>(Mediacorp)                                       | Hours per Week | 961   | 1,007 | 1,007 | 1,007 | 1,009 | 1,009 | 1,009 |
| Pay TV Subscribers <sup>1</sup>                                 | '000           | 934   | 951   | 962   | 960   | 906   | 845   | 790   |

Sources : StarHub Cable Vision Ltd  
Singapore Telecommunications (Singtel)  
Mediacorp Pte Ltd  
SPH Radio Pte Ltd  
SAFRA Radio (prior to July 2017)  
So Drama! Entertainment (with effect from July 2017)

<sup>1</sup> End of period.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=5253](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=5253)  
[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=5263](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=5263)

## 17.4 DAILY NEWSPAPER CIRCULATION

|         | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | Number<br>2018 |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|
| Total   | 1,476,885 | 1,448,915 | 1,384,197 | 1,347,679 | 1,264,679 | 1,098,138 | 709,666        |
| English | 771,001   | 762,382   | 738,077   | 718,648   | 697,465   | 773,627   | 419,497        |
| Chinese | 636,297   | 620,839   | 584,121   | 572,808   | 518,864   | 281,834   | 252,398        |
| Malay   | 53,284    | 49,989    | 46,583    | 43,287    | 37,303    | 32,982    | 29,476         |
| Tamil   | 16,303    | 15,705    | 15,416    | 12,936    | 11,047    | 9,695     | 8,295          |

Sources : Singapore Press Holdings Ltd  
Mediacorp Press Ltd (up to September 2017)

Notes : Refers to daily average circulation for January-December.  
English Newspapers - The Straits Times / Sunday Times, Business Times, The New Paper / New Paper Sunday, TODAY (up to September 2017), Tabla.  
Chinese Newspapers - Lianhe Zaobao, Lianhe Wanbao, Shin Min Daily News, My Paper (up to December 2016).  
Malay Newspapers - Berita Harian / Berita Minggu.  
Tamil Newspapers - Tamil Murasu / Tamil Murasu Sunday.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14594](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14594)

18



Tourism

# 18 Tourism



## International Visitor Arrivals



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.

## Definitions



**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.

## 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.

## Tourism Receipts:

Comprise any expenditure incurred by visitors (including transit passengers, foreign air/sea crew and foreign students) during their stay in Singapore as well as the amount they prepaid on components such as accommodation and sightseeing tours before arrival.

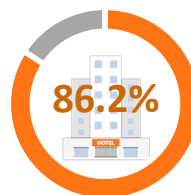
## Key Indicators for 2018



**18.5 mil**  
International  
Visitor Arrivals <sup>1</sup>

<sup>1</sup> Excludes arrivals of Malaysians by land.

## Standard Average Occupancy Rate



**10.4 mil**  
Outbound Departures  
of Singapore Residents...

...by Air  
**8.4 mil**



...by Sea  
**2.0 mil**



Average Length of Stay

**3.3**  
days

Tourism Receipts: **\$26,942 mil**



## 18.1 INTERNATIONAL VISITOR ARRIVALS BY INBOUND TOURISM MARKETS

|                                 | Thousand |          |          |          |          |          |          |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|
| Region/Country                  | 2012     | 2013     | 2014     | 2015     | 2016     | 2017     | 2018     |
| Total                           | 14,496.1 | 15,567.9 | 15,095.2 | 15,231.5 | 16,403.6 | 17,424.6 | 18,508.3 |
| Americas                        | 616.4    | 641.5    | 635.3    | 657.3    | 680.7    | 758.7    | 861.7    |
| Canada                          | 87.8     | 92.7     | 92.8     | 96.2     | 98.5     | 105.2    | 129.5    |
| United States                   | 477.2    | 491.9    | 484.9    | 499.5    | 516.5    | 565.4    | 643.2    |
| Other Markets in Americas       | 51.4     | 56.8     | 57.5     | 61.5     | 65.7     | 88.0     | 88.9     |
| Southeast Asia                  | 5,779.6  | 6,166.4  | 6,113.1  | 5,748.2  | 6,007.5  | 6,225.1  | 6,521.0  |
| Brunei Darussalam               | 71.8     | 79.9     | 77.7     | 73.6     | 69.9     | 68.4     | 75.0     |
| Indonesia                       | 2,837.5  | 3,088.9  | 3,025.2  | 2,731.7  | 2,893.6  | 2,954.4  | 3,021.5  |
| Malaysia                        | 1,231.7  | 1,280.9  | 1,233.0  | 1,171.1  | 1,151.6  | 1,168.4  | 1,254.0  |
| Myanmar                         | 93.0     | 99.4     | 112.8    | 105.5    | 113.6    | 145.7    | 145.6    |
| Philippines                     | 656.8    | 687.8    | 676.5    | 673.4    | 691.6    | 736.5    | 778.1    |
| Thailand                        | 477.7    | 497.4    | 506.5    | 516.4    | 546.6    | 531.3    | 545.7    |
| Viet Nam                        | 366.2    | 380.5    | 424.4    | 418.3    | 469.4    | 531.4    | 591.6    |
| Other Markets in Southeast Asia | 44.9     | 51.7     | 57.0     | 58.3     | 71.2     | 89.0     | 109.5    |
| Greater China                   | 2,814.9  | 3,186.9  | 2,722.6  | 3,125.6  | 3,821.3  | 4,116.1  | 4,342.8  |
| Mainland China                  | 2,034.2  | 2,269.9  | 1,722.4  | 2,106.2  | 2,863.7  | 3,228.1  | 3,417.6  |
| Taiwan                          | 282.2    | 350.3    | 337.4    | 378.0    | 394.2    | 395.6    | 422.9    |
| Hong Kong SAR                   | 472.2    | 539.8    | 631.0    | 609.9    | 538.0    | 465.8    | 473.1    |
| Other Markets in Greater China  | 26.4     | 26.9     | 31.7     | 31.6     | 25.4     | 26.6     | 29.1     |
| North Asia                      | 1,203.8  | 1,305.8  | 1,362.4  | 1,367.1  | 1,350.9  | 1,424.4  | 1,459.6  |
| Japan                           | 757.1    | 832.8    | 824.7    | 789.2    | 783.9    | 792.9    | 829.7    |
| Republic of Korea               | 445.2    | 471.8    | 537.0    | 577.1    | 566.5    | 631.4    | 629.5    |
| Other Markets in North Asia     | 1.5      | 1.2      | 0.7      | 0.9      | 0.5      | 0.2      | 0.5      |
| South Asia                      | 1,132.5  | 1,190.2  | 1,200.1  | 1,277.9  | 1,379.0  | 1,559.5  | 1,745.3  |
| Bangladesh                      | 110.7    | 119.3    | 124.9    | 122.6    | 123.3    | 120.6    | 126.3    |
| India                           | 895.0    | 933.6    | 943.6    | 1,014.0  | 1,097.2  | 1,272.1  | 1,442.3  |
| Pakistan                        | 21.2     | 20.2     | 17.7     | 18.9     | 22.2     | 23.5     | 25.3     |
| Sri Lanka                       | 83.4     | 95.6     | 88.8     | 93.1     | 101.9    | 107.8    | 113.8    |
| Other Markets in South Asia     | 22.2     | 21.4     | 25.1     | 29.3     | 34.3     | 35.5     | 37.6     |
| West Asia                       | 146.6    | 156.8    | 170.2    | 165.9    | 180.6    | 174.6    | 163.7    |
| Iran                            | 18.6     | 11.0     | 12.4     | 12.3     | 22.6     | 24.9     | 13.9     |
| Israel                          | 13.6     | 14.6     | 15.3     | 15.7     | 18.6     | 19.7     | 22.4     |
| Kuwait                          | 7.6      | 10.6     | 11.0     | 10.8     | 11.1     | 9.5      | 9.8      |
| Saudi Arabia                    | 18.0     | 19.9     | 25.8     | 16.1     | 14.5     | 11.0     | 11.9     |
| United Arab Emirates            | 65.6     | 72.6     | 75.7     | 78.7     | 80.2     | 79.0     | 76.3     |
| Other Markets in West Asia      | 23.3     | 28.2     | 30.0     | 32.3     | 33.4     | 30.5     | 29.3     |

(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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=1991](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=1991)



## 18.1 INTERNATIONAL VISITOR ARRIVALS BY INBOUND TOURISM MARKETS (continued)

| Region/Country             | Thousand |         |         |         |         |         |         |
|----------------------------|----------|---------|---------|---------|---------|---------|---------|
|                            | 2012     | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
| Europe                     | 1,537.3  | 1,591.2 | 1,617.2 | 1,635.7 | 1,743.0 | 1,853.8 | 2,063.2 |
| Belgium & Luxembourg       | 26.8     | 27.4    | 28.7    | 27.6    | 29.4    | 30.8    | 34.3    |
| Denmark                    | 31.5     | 31.9    | 31.9    | 31.4    | 31.2    | 34.0    | 37.4    |
| Finland                    | 33.3     | 29.4    | 30.7    | 27.9    | 28.6    | 31.3    | 32.6    |
| France                     | 158.9    | 160.0   | 156.9   | 157.5   | 170.9   | 175.4   | 204.8   |
| Germany                    | 252.4    | 251.6   | 263.5   | 286.7   | 328.8   | 342.4   | 356.8   |
| Italy                      | 65.6     | 66.7    | 67.1    | 69.4    | 74.6    | 80.4    | 102.0   |
| Netherlands                | 81.6     | 82.9    | 81.8    | 79.1    | 82.2    | 86.9    | 98.3    |
| Norway                     | 36.8     | 35.9    | 33.5    | 31.7    | 29.3    | 29.0    | 34.0    |
| Republic of Ireland        | 19.0     | 17.4    | 16.4    | 17.3    | 18.9    | 20.6    | 22.7    |
| Russian Federation         | 69.0     | 82.1    | 90.7    | 63.8    | 70.4    | 80.1    | 84.5    |
| Spain                      | 37.8     | 39.5    | 44.2    | 48.1    | 49.5    | 60.6    | 66.9    |
| Sweden                     | 43.2     | 45.3    | 44.1    | 42.6    | 43.8    | 48.0    | 53.4    |
| Switzerland                | 83.9     | 94.4    | 103.4   | 100.8   | 101.5   | 104.8   | 102.4   |
| United Kingdom             | 446.5    | 461.5   | 451.9   | 473.8   | 489.2   | 518.9   | 588.9   |
| Other Markets in Europe    | 151.1    | 165.3   | 172.5   | 178.1   | 194.6   | 210.5   | 244.2   |
| Oceania                    | 1,189.1  | 1,261.1 | 1,207.9 | 1,186.3 | 1,168.1 | 1,235.7 | 1,267.1 |
| Australia                  | 1,050.4  | 1,125.2 | 1,074.9 | 1,043.6 | 1,027.3 | 1,082.0 | 1,107.2 |
| New Zealand                | 123.7    | 120.4   | 118.7   | 127.6   | 121.1   | 131.2   | 137.7   |
| Other Markets in Oceania   | 15.1     | 15.5    | 14.3    | 15.1    | 19.7    | 22.4    | 22.2    |
| Africa                     | 68.0     | 66.6    | 66.1    | 67.5    | 72.5    | 76.8    | 83.9    |
| Egypt                      | 3.6      | 3.8     | 4.4     | 4.5     | 4.4     | 4.0     | 4.4     |
| Mauritius                  | 9.9      | 8.5     | 8.0     | 8.7     | 12.8    | 13.4    | 14.1    |
| South Africa (Republic of) | 32.7     | 32.0    | 29.8    | 32.5    | 32.8    | 34.6    | 38.4    |
| Other Markets in Africa    | 21.8     | 22.3    | 23.9    | 21.7    | 22.4    | 24.8    | 27.0    |
| Not Stated                 | 7.8      | 1.4     | 0.3     | 0.0     | 0.1     | 0.0     | 0.0     |

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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=1991](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=1991)

## 18.2 INTERNATIONAL VISITOR ARRIVALS BY (a) SEX AND (b) AGE GROUP

|                          | Thousand |          |          |          |          |          |          |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|
|                          | 2012     | 2013     | 2014     | 2015     | 2016     | 2017     | 2018     |
| Total <sup>1</sup>       | 14,496.1 | 15,567.9 | 15,095.2 | 15,231.5 | 16,403.6 | 17,424.6 | 18,508.3 |
| <b>Sex</b>               |          |          |          |          |          |          |          |
| Males                    | 7,471.4  | 8,104.8  | 7,872.9  | 7,841.8  | 8,257.7  | 8,636.0  | 9,148.6  |
| Females                  | 6,705.0  | 7,458.1  | 7,222.2  | 7,389.7  | 8,145.9  | 8,788.6  | 9,359.7  |
| <b>Age Group (Years)</b> |          |          |          |          |          |          |          |
| Under 15                 | 1,219.4  | 1,420.3  | 1,424.7  | 1,428.9  | 1,533.6  | 1,684.3  | 1,834.8  |
| 15 - 19                  | 514.7    | 552.8    | 533.7    | 548.6    | 574.5    | 612.1    | 648.7    |
| 20 - 24                  | 1,014.3  | 1,079.6  | 1,065.2  | 1,058.7  | 1,132.0  | 1,168.9  | 1,196.3  |
| 25 - 34                  | 3,304.0  | 3,501.0  | 3,456.4  | 3,423.9  | 3,593.9  | 3,782.1  | 3,988.8  |
| 35 - 44                  | 3,071.3  | 3,262.9  | 3,208.6  | 3,150.1  | 3,340.3  | 3,490.4  | 3,740.3  |
| 45 - 54                  | 2,534.9  | 2,678.1  | 2,547.1  | 2,563.3  | 2,802.0  | 2,930.8  | 3,056.4  |
| 55 - 64                  | 1,827.1  | 1,962.6  | 1,807.0  | 1,904.0  | 2,111.9  | 2,313.1  | 2,463.7  |
| 65 & Over                | 985.1    | 1,091.2  | 1,052.5  | 1,154.0  | 1,302.5  | 1,442.4  | 1,579.5  |
| Not Stated               | 25.3     | 19.4     | 0.0      | 0.0      | 13.1     | 1.0      | 0.0      |

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.

<sup>1</sup> Includes sex not stated.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14895](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14895)

## 18.3 INTERNATIONAL VISITOR ARRIVALS BY LENGTH OF STAY

|                        | Unit | 2012     | 2013     | 2014     | 2015     | 2016     | 2017     | 2018     |
|------------------------|------|----------|----------|----------|----------|----------|----------|----------|
| Total                  | '000 | 13,937.2 | 14,983.1 | 14,513.4 | 14,595.2 | 15,839.9 | 16,845.2 | 17,877.8 |
| Under 1                | '000 | 3,397.8  | 3,669.5  | 3,231.3  | 3,179.5  | 3,490.3  | 3,521.3  | 3,835.3  |
| 1                      | '000 | 2,786.7  | 3,065.2  | 2,627.1  | 2,729.7  | 3,194.3  | 3,481.8  | 3,623.4  |
| 2                      | '000 | 2,358.7  | 2,565.4  | 2,572.3  | 2,494.4  | 2,631.3  | 2,780.5  | 2,878.5  |
| 3                      | '000 | 2,058.6  | 2,156.9  | 2,265.4  | 2,274.8  | 2,406.6  | 2,609.2  | 2,771.8  |
| 4                      | '000 | 1,094.4  | 1,170.4  | 1,286.5  | 1,370.2  | 1,470.3  | 1,617.3  | 1,756.9  |
| 5                      | '000 | 560.0    | 593.0    | 659.5    | 707.4    | 781.0    | 868.9    | 959.4    |
| 6                      | '000 | 333.6    | 353.3    | 388.5    | 398.6    | 433.6    | 491.1    | 527.8    |
| 7                      | '000 | 232.4    | 245.9    | 264.6    | 270.7    | 286.4    | 313.8    | 335.0    |
| 8-10                   | '000 | 320.0    | 333.6    | 352.0    | 354.6    | 361.1    | 382.5    | 398.4    |
| 11-14                  | '000 | 221.2    | 229.5    | 236.1    | 235.9    | 232.4    | 237.9    | 247.4    |
| 15 - 29                | '000 | 387.5    | 408.2    | 438.6    | 415.6    | 396.5    | 393.2    | 396.7    |
| 30 - 59                | '000 | 137.5    | 141.3    | 140.9    | 117.1    | 111.0    | 106.8    | 106.8    |
| 60 & Over              | '000 | 48.7     | 51.1     | 50.7     | 46.7     | 44.9     | 41.0     | 40.5     |
| Average Length of Stay | Days | 3.5      | 3.5      | 3.7      | 3.6      | 3.4      | 3.4      | 3.3      |

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 [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14884](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14884)

## 18.4 TOURISM RECEIPTS BY MAJOR COMPONENTS

|                                     | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Tourism Receipts                    | 23,081 | 23,469 | 23,560 | 21,777 | 25,748 | 26,807 | 26,942 |
| Accommodation                       | 5,038  | 5,332  | 5,309  | 4,680  | 5,916  | 6,016  | 5,666  |
| Food & Beverage                     | 2,246  | 2,294  | 2,263  | 2,319  | 2,787  | 2,649  | 2,593  |
| Shopping                            | 4,588  | 4,553  | 4,116  | 3,913  | 5,958  | 6,172  | 5,385  |
| Sightseeing, Entertainment & Gaming | 5,240  | 5,471  | 5,823  | 5,093  | 5,348  | 5,618  | 5,859  |
| Others <sup>1</sup>                 | 5,970  | 5,819  | 6,049  | 5,772  | 5,739  | 6,352  | 7,440  |

Source : Singapore Tourism Board

1 Includes expenditure on airfares, port taxes, local transportation, business, medical, education and transit visitors.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15280](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15280)

## 18.5 OUTBOUND DEPARTURES OF SINGAPORE RESIDENTS BY MODE OF TRANSPORT

|       | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | Number<br>2018 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|
| Total | 8,047,808 | 8,647,066 | 8,902,705 | 9,125,331 | 9,474,205 | 9,888,852 | 10,378,329     |
| Air   | 6,485,268 | 6,960,428 | 7,163,778 | 7,371,377 | 7,770,593 | 8,100,687 | 8,361,380      |
| Sea   | 1,562,540 | 1,686,638 | 1,738,927 | 1,753,954 | 1,703,612 | 1,788,165 | 2,016,949      |

Source : Immigration & Checkpoints Authority

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15301](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15301)

## 18.6 GAZETTED HOTEL STATISTICS

|  | Unit | 2012     | 2013     | 2014     | 2015     | 2016     | 2017     | 2018     |
|--|------|----------|----------|----------|----------|----------|----------|----------|
| Gazetted Hotels (At End Year)                | No.  | 178      | 197      | 220      | 223      | 237      | 246      | 249      |
| Available Room Nights <sup>1</sup>           | '000 | 15,250.5 | 16,253.3 | 17,369.9 | 17,983.0 | 19,195.2 | 20,291.5 | 21,213.8 |
| Standard Average Occupancy Rate <sup>2</sup> | %    | 85.7     | 85.1     | 84.2     | 84.0     | 83.1     | 84.5     | 86.2     |
| Standard Average Room Rate <sup>3</sup>      | \$   | 243.5    | 239.6    | 242.5    | 232.3    | 223.1    | 215.1    | 218.6    |
| Room Revenue                                 | \$m  | 3,184.3  | 3,313.6  | 3,547.2  | 3,506.8  | 3,559.1  | 3,697.2  | 3,998.3  |

Source : Singapore Tourism Board (STB)

Notes : In 2018, STB reviewed and updated the data estimation methodology to better present the overall performance of the hotel industry (for gazetted hotels). The updated methodology takes into account estimates of statistics for hotels that did not submit their data in time. Estimations are based on past hotel submissions as well as performance data of properties with similar size and pricing.

- 1 Refers to room-nights available for occupancy. Excludes rooms closed for renovations and staff use as declared by the hotels in the statutory forms.
- 2 Refers to gross lettings (room nights) divided by available room-nights.
- 3 Refers to total room revenue divided by gross lettings.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=13626](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=13626)

19



Finance

# 19 Finance



## Household Sector Balance Sheet



The quarterly Household Sector Balance Sheet is compiled by the Singapore Department of Statistics. It shows the household sector's assets and liabilities at a particular point in time (i.e. as at end-of-period). The quarterly series start from the reference period of 1st Quarter 1995.

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, mainly refer to residential property assets and are categorised into public housing and private housing.

Household liabilities comprise mortgages (from the Housing and Development Board 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 typically 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 role of the central bank except for the currency issuing function which remained the responsibility of the Board of Commissioners of Currency Singapore (BCCS). In October 2002, the BCCS 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 March 2019, there was a total of 156 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:** Refer 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):** Refer 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:** Refer to both credit and charge cards issued by the card issuing companies.





**Total Cards Billings:** Refer to total billings of Singapore cardholders excluding interest charges and membership fees.

**Rolled Over Balances:** Refer 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, 2018

| Assets <small>Billion Dollars</small>   |                | Liabilities <small>Billion Dollars</small>   |                |
|---|----------------|--|----------------|
|  Financial Assets            | 1,231.6        |  Mortgage Loans | 246.5          |
|  Residential Property Assets | 947.0          |  Personal Loans | 81.7           |
| <b>Total Assets</b>   | <b>2,178.6</b> | <b>Total Liabilities</b>   | <b>328.2</b>   |
|   |                | Net Worth <small>Billion Dollars</small>   |                |
|   |                | <b>Net Worth</b>   | <b>1,850.3</b> |

<sup>1</sup> Data are as at end of period.

**Money Supply, M1<sup>1</sup>**  
was **\$184.5 bil** In 2018



**Official Foreign Reserves<sup>1</sup>**  
was **\$392.1 bil** in 2018



**Assets/Liabilities of Asian Currency Units<sup>1</sup>** was  
**US\$1,286.8 bil** In 2018



# 19.1 HOUSEHOLD SECTOR BALANCE SHEET

(End of Period)

Million Dollars

|                                     | 2012        | 2013        | 2014        | 2015        | 2016        | 2017        | 2018        |
|-------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Net Worth                           | 1,378,668.5 | 1,436,923.3 | 1,476,004.0 | 1,531,341.8 | 1,634,329.8 | 1,752,567.1 | 1,850,307.0 |
| Assets                              | 1,641,560.2 | 1,716,962.8 | 1,770,343.8 | 1,832,806.1 | 1,943,584.7 | 2,076,366.2 | 2,178,551.5 |
| Financial Assets                    | 828,370.3   | 888,547.3   | 951,633.3   | 999,316.5   | 1,081,359.8 | 1,181,826.2 | 1,231,586.1 |
| Currency & Deposits                 | 298,331.4   | 322,598.2   | 342,270.4   | 365,822.1   | 395,597.0   | 414,209.8   | 435,305.4   |
| Shares & Securities                 | 166,205.5   | 174,563.0   | 183,069.6   | 176,528.6   | 186,844.3   | 214,232.3   | 203,275.9   |
| Listed Shares                       | 88,092.6    | 91,834.6    | 91,986.9    | 83,796.2    | 83,375.5    | 95,053.8    | 85,561.7    |
| Unlisted Shares                     | 31,861.1    | 31,139.6    | 32,902.0    | 30,551.6    | 31,227.3    | 33,587.5    | 33,263.9    |
| Unit Trusts & Investment Funds      | 46,251.8    | 51,588.8    | 58,180.7    | 62,180.8    | 72,241.5    | 85,590.9    | 84,450.2    |
| Life Insurance                      | 119,720.0   | 124,339.1   | 136,665.7   | 141,756.4   | 153,843.0   | 177,313.5   | 185,042.4   |
| Central Provident Fund <sup>1</sup> | 230,157.7   | 252,968.6   | 275,363.9   | 299,522.4   | 328,895.3   | 359,514.6   | 391,117.5   |
| Pension Funds                       | 13,955.7    | 14,078.4    | 14,263.7    | 15,687.0    | 16,180.1    | 16,556.1    | 16,844.9    |
| Residential Property Assets         | 813,189.9   | 828,415.5   | 818,710.5   | 833,489.7   | 862,224.9   | 894,540.0   | 946,965.5   |
| Public Housing                      | 415,738.5   | 412,752.5   | 394,669.3   | 400,951.4   | 413,575.6   | 421,000.6   | 420,062.0   |
| Private Housing                     | 397,451.4   | 415,663.0   | 424,041.2   | 432,538.3   | 448,649.3   | 473,539.5   | 526,903.5   |
| Liabilities                         | 262,891.7   | 280,039.5   | 294,339.8   | 301,464.4   | 309,254.9   | 323,799.1   | 328,244.5   |
| Mortgage Loans                      | 193,006.9   | 205,385.2   | 216,714.2   | 224,650.1   | 233,059.8   | 242,490.4   | 246,502.5   |
| Financial Institutions              | 154,071.2   | 168,623.1   | 179,536.2   | 186,781.1   | 194,019.7   | 202,097.9   | 206,078.3   |
| Housing Development Board           | 38,935.7    | 36,762.1    | 37,178.0    | 37,869.0    | 39,040.1    | 40,392.5    | 40,424.2    |
| Personal Loans                      | 69,884.9    | 74,654.4    | 77,625.7    | 76,814.2    | 76,195.1    | 81,308.7    | 81,742.0    |
| Motor Vehicle                       | 14,324.7    | 12,433.0    | 10,265.0    | 9,593.1     | 9,752.2     | 10,433.4    | 11,093.4    |
| Credit/Charge Cards                 | 8,972.8     | 9,948.8     | 10,429.1    | 10,266.1    | 10,800.4    | 10,975.0    | 11,602.4    |
| Others <sup>2</sup>                 | 46,587.4    | 52,272.6    | 56,931.5    | 56,955.0    | 55,642.5    | 59,900.3    | 59,046.2    |

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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15312](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15312)



## 19.2 CURRENCY IN CIRCULATION

(End of Period)

|                   | Million Dollars |          |          |          |          |          |          |
|-------------------|-----------------|----------|----------|----------|----------|----------|----------|
|                   | 2012            | 2013     | 2014     | 2015     | 2016     | 2017     | 2018     |
| Gross Circulation | 32,266.1        | 33,806.1 | 36,428.8 | 39,688.8 | 45,318.8 | 46,012.5 | 49,195.7 |
| Notes             | 30,984.2        | 32,479.5 | 35,049.4 | 38,254.1 | 43,830.7 | 44,484.3 | 47,646.8 |
| Coins             | 1,281.9         | 1,326.6  | 1,379.4  | 1,434.7  | 1,488.1  | 1,528.2  | 1,548.9  |

Source : Monetary Authority of Singapore

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15242](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15242)

## 19.3 MONEY SUPPLY

(End of Period)

|   | Million Dollars |           |           |           |           |           |           |
|---|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
|   | 2012            | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
| Money Supply (M1)                           | 140,709.1       | 154,597.3 | 160,217.7 | 160,445.8 | 172,753.5 | 183,699.3 | 184,488.5 |
| Currency in Active Circulation <sup>1</sup> | 26,361.3        | 28,851.6  | 31,506.9  | 34,042.3  | 38,525.0  | 42,339.7  | 45,292.2  |
| Demand Deposits                             | 114,347.8       | 125,745.7 | 128,710.8 | 126,403.5 | 134,228.5 | 141,359.6 | 139,196.3 |
| Money Supply (M2)                           | 475,392.5       | 495,907.8 | 512,430.8 | 520,239.7 | 562,087.4 | 580,066.5 | 602,433.0 |
| M1  | 140,709.1       | 154,597.3 | 160,217.7 | 160,445.8 | 172,753.5 | 183,699.3 | 184,488.5 |
| Quasi-Money                                 | 334,683.4       | 341,310.5 | 352,213.1 | 359,793.9 | 389,333.9 | 396,367.2 | 417,944.5 |
| Fixed Deposits                              | 175,270.8       | 171,989.3 | 172,712.0 | 174,465.4 | 189,277.6 | 186,964.2 | 208,787.2 |
| S\$ Negotiable Cert of Deposits             | 90.2            | 482.8     | 390.8     | 722.0     | 327.1     | 250.7     | 130.2     |
| Savings and Other Deposits                  | 159,322.4       | 168,838.4 | 179,110.3 | 184,606.5 | 199,729.2 | 209,152.3 | 209,027.1 |
| Money Supply (M3)                           | 485,915.4       | 506,900.0 | 524,166.4 | 532,944.5 | 573,906.0 | 592,155.3 | 614,996.6 |
| M2  | 475,392.5       | 495,907.8 | 512,430.8 | 520,239.7 | 562,087.4 | 580,066.5 | 602,433.0 |
| Net Deposits with Finance Companies         | 10,522.9        | 10,992.2  | 11,735.6  | 12,704.8  | 11,818.6  | 12,088.8  | 12,563.6  |

Source : Monetary Authority of Singapore

1 Excludes commemorative, numismatic and bullion coins issued by the Monetary Authority of Singapore and cash held by commercial banks and other financial institutions.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15238](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15238)

## 19.4 MONETARY SURVEY

(End of Period)

|                      | Million Dollars |            |            |            |            |            |            |
|----------------------|-----------------|------------|------------|------------|------------|------------|------------|
|                      | 2012            | 2013       | 2014       | 2015       | 2016       | 2017       | 2018       |
| Money Supply         |                 |            |            |            |            |            |            |
| M1                   | 140,709.1       | 154,597.3  | 160,217.7  | 160,445.8  | 172,753.5  | 183,699.3  | 184,488.5  |
| Quasi-Money          | 334,683.4       | 341,310.5  | 352,213.1  | 359,793.9  | 389,333.9  | 396,367.2  | 417,944.5  |
| M2                   | 475,392.5       | 495,907.8  | 512,430.8  | 520,239.7  | 562,087.4  | 580,066.5  | 602,433.0  |
| Domestic Credit      | 522,034.6       | 582,704.8  | 626,023.9  | 638,949.5  | 668,624.5  | 706,777.9  | 746,556.1  |
| Government           | 105,428.5       | 105,211.8  | 114,853.2  | 120,563.4  | 123,315.9  | 133,306.7  | 147,812.1  |
| Private Sector       | 416,606.1       | 477,493.0  | 511,170.7  | 518,386.1  | 545,308.6  | 573,471.2  | 598,744.0  |
| Government Deposits  | 178,122.1       | 162,779.8  | 133,431.9  | 151,767.7  | 114,128.1  | 76,940.3   | 75,606.3   |
| Net Foreign Position | 304,296.3       | 291,126.5  | 291,404.1  | 303,668.1  | 315,114.9  | 317,845.0  | 311,937.1  |
| Monetary Authorities | 315,467.1       | 341,133.8  | 343,503.9  | 352,515.5  | 352,596.8  | 371,738.6  | 389,776.9  |
| Banks                | -11,170.8       | -50,007.3  | -52,099.8  | -48,847.4  | -37,481.9  | -53,893.6  | -77,839.8  |
| Other Items          | -172,816.3      | -215,143.7 | -271,565.3 | -270,610.2 | -307,523.9 | -367,616.1 | -380,453.9 |

Source : Monetary Authority of Singapore

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15240](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15240)

## 19.5 OFFICIAL FOREIGN RESERVES

(End of Period)

|  | Unit  | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|--|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total Foreign Reserves                                 | \$m   | 316,744.2 | 344,729.2 | 340,438.1 | 350,990.8 | 356,253.9 | 373,994.0 | 392,095.8 |
| Special Drawing Rights                                 | \$m   | 1,641.1   | 1,697.7   | 1,677.9   | 1,717.7   | 1,446.4   | 1,423.3   | 1,434.2   |
| Reserve Position in the<br>International Monetary Fund | \$m   | 1,115.8   | 1,296.7   | 1,084.1   | 852.6     | 1,441.7   | 1,083.3   | 1,447.1   |
| Gold & Foreign Exchange                                | \$m   | 313,987.3 | 341,734.8 | 337,676.1 | 348,420.5 | 353,365.8 | 371,487.4 | 389,214.5 |
| Total Foreign Reserves                                 | US\$m | 259,307.1 | 273,065.1 | 256,860.4 | 247,747.4 | 246,575.3 | 279,899.7 | 287,673.1 |

Source : Monetary Authority of Singapore

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15316](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15316)

## 19.6 EXCHANGE RATES

(Average for the Year)

|                        | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
|------------------------|--------|--------|--------|--------|--------|--------|--------|
| S\$ Per Unit of :      |        |        |        |        |        |        |        |
| Australian Dollar      | 1.2940 | 1.2107 | 1.1431 | 1.0339 | 1.0272 | 1.0585 | 1.0084 |
| Chinese Renminbi       | 0.1981 | 0.2035 | 0.2057 | 0.2187 | 0.2080 | 0.2043 | 0.2040 |
| Euro                   | 1.6071 | 1.6621 | 1.6837 | 1.5267 | 1.5286 | 1.5589 | 1.5931 |
| Hong Kong Dollar       | 0.1611 | 0.1613 | 0.1634 | 0.1773 | 0.1780 | 0.1772 | 0.1721 |
| Malaysian Ringgit      | 0.4046 | 0.3973 | 0.3873 | 0.3534 | 0.3333 | 0.3212 | 0.3343 |
| Pound Sterling         | 1.9803 | 1.9573 | 2.0873 | 2.1023 | 1.8726 | 1.7782 | 1.8008 |
| US Dollar              | 1.2497 | 1.2513 | 1.2671 | 1.3748 | 1.3815 | 1.3807 | 1.3491 |
| S\$ Per 100 Units of : |        |        |        |        |        |        |        |
| Indian Rupee           | 2.3442 | 2.1448 | 2.0768 | 2.1434 | 2.0557 | 2.1204 | 1.9745 |
| Indonesian Rupiah      | 0.0133 | 0.0120 | 0.0107 | 0.0103 | 0.0104 | 0.0103 | 0.0095 |
| Japanese Yen           | 1.5672 | 1.2840 | 1.1996 | 1.1364 | 1.2727 | 1.2313 | 1.2214 |
| Korean Won             | 0.1109 | 0.1144 | 0.1204 | 0.1215 | 0.1190 | 0.1222 | 0.1226 |
| New Taiwan Dollar      | 4.2262 | 4.2155 | 4.1812 | 4.3298 | 4.2831 | 4.5383 | 4.4751 |
| Philippine Peso        | 2.9592 | 2.9492 | 2.8535 | 3.0199 | 2.9086 | 2.7396 | 2.5614 |
| Thai Baht              | 4.0199 | 4.0750 | 3.9002 | 4.0175 | 3.9141 | 4.0695 | 4.1740 |

Source : Monetary Authority of Singapore

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=11940](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=11940)

## 19.7 NUMBER OF FINANCIAL INSTITUTIONS IN SINGAPORE

|  | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | Number<br>2019 |
|--|------|------|------|------|------|------|----------------|
| Banks  | 123  | 124  | 126  | 124  | 128  | 127  | 131            |
| Local  | 6    | 5    | 5    | 5    | 5    | 4    | 4              |
| Full banks   | 6    | 5    | 5    | 5    | 5    | 4    | 4              |
| Wholesale banks <sup>1</sup>                                 | 0    | 0    | 0    | 0    | 0    | 0    | 0              |
| Foreign  | 117  | 119  | 121  | 119  | 123  | 123  | 127            |
| Full banks   | 27   | 28   | 28   | 28   | 29   | 29   | 30             |
| Wholesale banks <sup>1</sup>                                 | 53   | 55   | 56   | 53   | 57   | 92   | 97             |
| Offshore banks   | 37   | 36   | 37   | 38   | 37   | 2    | 0              |
| (Banking offices including<br>head offices and main offices) | 425  | 425  | 429  | 428  | 428  | 405  | 397            |
| Asian Currency Units   | 161  | 159  | 160  | 155  | 157  | 155  | 156            |
| Banks  | 120  | 121  | 123  | 122  | 126  | 126  | 130            |
| Merchant banks   | 41   | 38   | 37   | 33   | 31   | 29   | 26             |
| Finance Companies  | 3    | 3    | 3    | 3    | 3    | 3    | 3              |
| (Finance companies' offices<br>including head offices)       | 39   | 39   | 39   | 39   | 39   | 39   | 39             |
| Merchant Banks   | 42   | 39   | 38   | 34   | 32   | 30   | 27             |
| Insurance Companies  | 168  | 177  | 181  | 186  | 186  | 184  | 187            |
| Direct insurers  | 72   | 79   | 80   | 79   | 81   | 78   | 78             |
| Professional reinsurers                                      | 28   | 31   | 31   | 32   | 31   | 31   | 31             |
| Authorised reinsurers  | 6    | 6    | 6    | 5    | 4    | 5    | 5              |
| Captive insurers   | 62   | 61   | 64   | 70   | 70   | 70   | 73             |
| Insurance Brokers  | 69   | 71   | 74   | 75   | 77   | 80   | 83             |
| Bank Representative Offices                                  | 38   | 36   | 37   | 39   | 42   | 40   | 39             |
| International Money Brokers                                  | 9    | 9    | 10   | 12   | 12   | 13   | 11             |
| Licensed Financial Advisers                                  | 62   | 58   | 60   | 62   | 61   | 65   | 64             |

(continued on the next page)

Source : Monetary Authority of Singapore

Notes : Data as at end March of each year.

<sup>1</sup> Previously known as restricted banks.Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14585](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14585)

## 19.7 NUMBER OF FINANCIAL INSTITUTIONS IN SINGAPORE (continued)

|   | Number |      |      |      |      |      |      |
|---|--------|------|------|------|------|------|------|
|   | 2013   | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
| Capital Markets Services Licensees <sup>2</sup>   | 295    | 443  | 493  | 533  | 584  | 668  | 757  |
| Dealing in Capital Markets Products <sup>3</sup>  | 117    | 132  | 136  | 150  | 165  | 184  | 221  |
| Advising on Corporate Finance                     | 37     | 40   | 42   | 40   | 46   | 45   | 49   |
| Fund Management                                   | 158    | 289  | 335  | 367  | 404  | 457  | 495  |
| Product Financing <sup>4</sup>                    | 17     | 17   | 17   | 17   | 18   | 18   | 18   |
| Providing Custodial Services <sup>5</sup>         | 38     | 37   | 37   | 37   | 42   | 44   | 44   |
| Real Estate Investment Trust Management           | 26     | 31   | 34   | 36   | 38   | 40   | 39   |
| Providing Credit Rating Services <sup>6</sup>     | 3      | 3    | 4    | 4    | 4    | 4    | 4    |
| Venture Capital Fund Management <sup>7</sup>      | na     | na   | na   | na   | na   | 14   | 54   |
| Licensed Trust Companies                          | 51     | 52   | 54   | 53   | 58   | 58   | 57   |
| Registered Fund Management Companies <sup>8</sup> | 74     | 236  | 275  | 273  | 273  | 271  | 262  |

Source : Monetary Authority of Singapore (MAS)

Notes : Data as at end March of each year.

- 2 As the data breakdown of 'Capital Markets Services Licensees' (CMSLs) refer to the types of regulated activities which a CMSL is licensed to conduct, the components of CMSLs will not add up to its total.
- 3 On 8 October 2018, changes were made to the definitions of products and regulated activities under the Securities and Futures Act. The changes include the introduction of a new regulated activity, 'Dealing in Capital Markets Products', which encompasses the existing regulated activities of 'Dealing in Securities', 'Trading in Futures Contracts' and 'Leveraged Foreign Exchange Trading', as well as the new activity of dealing in over-the-counter derivatives contracts. Data before 2019 represent the number of CMSLs that conducted one or more of the regulated activities of 'Dealing in Securities', 'Trading in Futures Contracts' and 'Leveraged Foreign Exchange Trading'.
- 4 Prior to 8 October 2018, the activity was termed as 'Securities Financing'.
- 5 Prior to 8 October 2018, the activity was termed as 'Providing Custodial Services for Securities'.
- 6 Regulation of credit rating services came into effect on 17 January 2012.
- 7 The Venture Capital Fund Managers Regulatory Regime came into effect on 20 October 2017.
- 8 Registration of fund management companies commenced under an enhanced regulatory regime which came into effect on 7 August 2012.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14585](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14585)

# 19.8 ASSETS OF DOMESTIC BANKING UNITS

(End of Period)

Million Dollars

|  | 2012      | 2013      | 2014        | 2015        | 2016        | 2017        | 2018        |
|--|-----------|-----------|-------------|-------------|-------------|-------------|-------------|
| Total Assets                                       | 911,009.0 | 967,814.4 | 1,055,131.1 | 1,057,520.7 | 1,146,272.9 | 1,222,150.8 | 1,272,374.4 |
| Cash   | 2,756.0   | 2,807.5   | 2,917.1     | 4,396.2     | 3,989.1     | 3,455.4     | 3,680.3     |
| Amounts Due from Banks                             | 184,902.7 | 142,986.5 | 183,016.5   | 170,139.1   | 231,231.9   | 257,930.0   | 279,550.9   |
| In Singapore                                       | 44,059.5  | 27,601.4  | 32,391.8    | 26,960.5    | 45,371.3    | 67,022.3    | 82,677.0    |
| Outside Singapore                                  | 96,781.5  | 86,168.3  | 103,735.6   | 91,518.4    | 121,833.5   | 132,512.3   | 140,650.1   |
| Asian Currency Units                               | 44,061.6  | 29,216.8  | 46,889.1    | 51,660.2    | 64,027.0    | 58,395.4    | 56,223.8    |
| Balances with Monetary Authority of Singapore      | 19,503.3  | 32,107.0  | 20,311.6    | 22,218.5    | 21,967.4    | 22,294.5    | 22,463.9    |
| Securities and Equities Issued by Private Entities | 41,562.4  | 49,723.3  | 56,476.5    | 58,452.8    | 58,778.3    | 62,833.4    | 58,448.7    |
| Debt Securities                                    |           |           |             |             |             |             |             |
| In Singapore                                       | 10,973.6  | 12,326.8  | 11,414.4    | 11,106.5    | 9,273.7     | 9,463.6     | 9,201.1     |
| Outside Singapore                                  | 14,803.7  | 12,376.5  | 12,633.0    | 14,122.2    | 16,021.5    | 20,503.1    | 15,108.3    |
| Equity Investments                                 |           |           |             |             |             |             |             |
| In Singapore                                       | 10,362.0  | 11,541.7  | 18,523.9    | 11,474.7    | 11,966.2    | 11,521.4    | 11,592.2    |
| Outside Singapore                                  | 5,423.1   | 13,478.3  | 13,905.3    | 21,749.3    | 21,516.9    | 21,345.3    | 22,547.1    |
| Debt Securities by Government Related Entities     | 111,755.8 | 117,755.4 | 128,484.0   | 136,437.7   | 143,576.3   | 155,552.5   | 166,969.7   |
| Government of Singapore                            | 98,422.4  | 98,213.9  | 107,852.9   | 112,648.2   | 114,435.8   | 124,120.9   | 137,945.5   |
| Statutory Authorities                              | 9,372.0   | 17,111.0  | 16,377.5    | 14,121.2    | 18,632.8    | 21,377.3    | 20,229.3    |
| Other Governments                                  | 3,961.4   | 2,430.5   | 4,253.6     | 9,668.3     | 10,507.8    | 10,054.3    | 8,794.9     |
| Loans & Advances including Bills Financing         | 490,706.5 | 574,274.4 | 607,200.5   | 599,756.0   | 617,347.4   | 651,931.6   | 671,734.6   |
| Bills Discounted or Purchased <sup>1</sup>         | 56,292.0  | 79,657.4  | 75,343.9    | 52,846.8    | 44,599.1    | 49,442.6    | 47,162.2    |
| Payable In Singapore                               | 8,490.1   | 12,921.7  | 11,735.7    | 11,410.3    | 10,966.5    | 10,833.7    | 12,848.5    |
| Payable Outside Singapore                          | 47,801.9  | 66,735.7  | 63,608.2    | 41,436.5    | 33,632.6    | 38,608.9    | 34,313.7    |
| Loans & Advances                                   | 434,414.5 | 494,617.1 | 531,856.6   | 546,909.1   | 572,748.3   | 602,489.0   | 624,572.5   |
| Resident   | 377,408.3 | 423,591.8 | 453,119.3   | 470,273.3   | 494,469.3   | 520,275.3   | 544,873.0   |
| Non-Resident                                       | 57,006.2  | 71,025.3  | 78,737.3    | 76,635.8    | 78,279.0    | 82,213.7    | 79,699.5    |
| Other Assets <sup>2</sup>                          | 59,822.4  | 48,160.2  | 56,724.9    | 66,120.5    | 69,382.6    | 68,153.5    | 69,526.3    |

Source: Monetary Authority of Singapore

1 Excludes bills rediscounted between banks.

2 Includes Singapore dollar negotiable certificates &amp; deposits (\$\$NCDs) held and the value of fixed assets is reported before depreciation.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15236](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15236)

## 19.9 LIABILITIES OF DOMESTIC BANKING UNITS

(End of Period)

|   | Million Dollars |           |             |             |             |             |             |
|---|-----------------|-----------|-------------|-------------|-------------|-------------|-------------|
|   | 2012            | 2013      | 2014        | 2015        | 2016        | 2017        | 2018        |
| Total                                       | 911,009.0       | 967,814.4 | 1,055,131.1 | 1,057,520.7 | 1,146,272.9 | 1,222,150.8 | 1,272,374.4 |
| Capital & Reserves                          | 66,305.4        | 66,291.7  | 71,000.0    | 76,108.9    | 82,989.9    | 89,055.5    | 87,108.0    |
| Deposits of Non-bank Customers <sup>1</sup> | 518,840.7       | 537,582.9 | 550,363.9   | 560,011.4   | 596,611.5   | 606,386.9   | 627,768.2   |
| Demand Deposits                             | 130,965.7       | 142,676.7 | 147,007.3   | 141,953.0   | 151,193.5   | 157,980.7   | 156,154.0   |
| Fixed Deposits                              | 213,657.9       | 210,490.5 | 207,959.3   | 216,838.7   | 228,464.0   | 223,141.2   | 246,566.5   |
| Savings Deposits                            | 171,785.5       | 181,865.7 | 192,101.8   | 197,140.1   | 211,446.2   | 220,444.2   | 218,984.0   |
| Other Deposits                              | 2,431.7         | 2,549.9   | 3,295.4     | 4,079.6     | 5,507.7     | 4,820.8     | 6,063.7     |
| Amounts Due to Banks                        | 244,892.2       | 293,986.6 | 339,191.0   | 318,247.2   | 359,009.9   | 396,417.7   | 424,448.1   |
| In Singapore                                | 12,088.7        | 11,244.2  | 12,876.3    | 11,353.0    | 17,412.8    | 13,684.8    | 24,526.9    |
| Outside Singapore                           | 70,056.7        | 76,612.7  | 101,883.9   | 94,913.3    | 110,533.7   | 140,201.4   | 146,204.4   |
| Asian Currency Units                        | 162,746.8       | 206,129.6 | 224,430.8   | 211,980.9   | 231,063.4   | 242,531.6   | 253,716.7   |
| Other Liabilities <sup>2</sup>              | 80,970.7        | 69,953.3  | 94,576.2    | 103,153.3   | 107,661.7   | 130,290.6   | 133,050.2   |

Source : Monetary Authority of Singapore

<sup>1</sup> Excludes non-bank customers' holdings of Singapore dollar negotiable certificates of deposits (S\$NCDs).<sup>2</sup> Includes accumulated depreciation for fixed assets and S\$NCDs issued.Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15236](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15236)

## 19.10

**LOANS AND ADVANCES OF DOMESTIC BANKING UNITS  
TO NON-BANK CUSTOMERS BY INDUSTRY**  
(End of Period)

Million Dollars

|   | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total   | 490,706.5 | 574,274.4 | 607,200.5 | 599,756.0 | 617,347.4 | 651,931.6 | 671,734.6 |
| Loans to Businesses                                       | 284,173.2 | 349,231.0 | 370,760.6 | 357,001.0 | 367,008.1 | 389,648.1 | 405,488.2 |
| Agriculture, Mining & Quarrying                           | 2,104.3   | 4,905.9   | 5,536.0   | 5,611.6   | 5,834.2   | 3,713.7   | 3,174.9   |
| Manufacturing   | 27,166.3  | 31,601.6  | 29,614.7  | 26,000.9  | 26,227.6  | 26,161.2  | 25,519.2  |
| Building & Construction <sup>1</sup>                      | 78,704.0  | 91,274.7  | 103,712.6 | 119,405.2 | 121,387.2 | 120,390.1 | 135,417.5 |
| General Commerce  | 57,349.8  | 75,888.3  | 78,082.4  | 65,954.1  | 63,958.1  | 68,487.8  | 65,666.3  |
| Transport, Storage & Communication                        | 13,089.2  | 17,162.7  | 20,045.3  | 20,810.4  | 20,998.7  | 22,140.6  | 24,365.9  |
| Business Services   | 4,748.1   | 7,056.6   | 8,586.9   | 7,246.9   | 7,946.9   | 8,646.3   | 9,463.8   |
| Financial Institutions                                    | 64,895.1  | 76,387.4  | 80,984.1  | 68,697.9  | 80,391.2  | 98,865.6  | 98,999.7  |
| Professional & Private Individuals -<br>Business Purposes | 5,920.7   | 7,186.5   | 9,746.0   | 9,419.1   | 8,930.0   | 10,001.9  | 10,178.0  |
| Others  | 30,195.7  | 37,767.3  | 34,452.6  | 33,854.9  | 31,334.2  | 31,240.9  | 32,702.9  |
| Consumer Loans  | 206,533.3 | 225,043.5 | 236,439.9 | 242,754.8 | 250,339.5 | 262,283.4 | 266,246.4 |
| Housing & Bridging Loans                                  | 152,003.0 | 166,542.0 | 177,434.6 | 184,680.6 | 192,099.8 | 200,251.7 | 204,299.1 |
| Professional & Private Individuals                        |           |           |           |           |           |           |           |
| Car Loans   | 12,523.5  | 10,693.3  | 8,641.5   | 7,845.3   | 7,858.1   | 8,412.5   | 8,873.8   |
| Credit Cards  | 8,963.9   | 9,941.1   | 10,422.4  | 10,260.5  | 10,795.4  | 10,974.9  | 11,602.3  |
| Share Financing   | 1,060.1   | 1,167.0   | 989.6     | 2,266.7   | 2,457.6   | 2,591.8   | 2,299.0   |
| Others  | 31,982.8  | 36,700.1  | 38,951.8  | 37,701.7  | 37,128.6  | 40,052.5  | 39,172.2  |

Source : Monetary Authority of Singapore

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.

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## 19.11 ASSETS AND LIABILITIES OF ASIAN CURRENCY UNITS

(End of Period)

Million US Dollars

|                                | 2012        | 2013        | 2014        | 2015        | 2016        | 2017        | 2018        |
|--------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                | Assets      |             |             |             |             |             |             |
| Total                          | 1,093,264.6 | 1,180,374.8 | 1,190,475.4 | 1,155,822.6 | 1,134,099.6 | 1,237,898.7 | 1,286,790.3 |
| Loans to Non-bank Customers    | 340,914.0   | 400,597.0   | 433,648.4   | 407,968.8   | 388,691.8   | 465,056.9   | 488,112.2   |
| Residents                      | 115,372.1   | 132,514.8   | 136,523.3   | 133,809.9   | 137,429.1   | 146,485.5   | 152,502.7   |
| Non-residents                  | 225,541.9   | 268,082.2   | 297,125.1   | 274,158.9   | 251,262.7   | 318,571.4   | 335,609.5   |
| Inter-bank Funds               | 562,970.6   | 614,645.6   | 569,140.4   | 536,726.3   | 540,056.3   | 567,180.5   | 576,217.5   |
| In Singapore                   | 133,171.6   | 162,830.7   | 169,487.9   | 149,080.8   | 159,712.2   | 182,529.1   | 187,381.1   |
| Inter-Asian Currency Units     | 53,768.7    | 56,274.7    | 51,138.2    | 60,510.7    | 50,997.9    | 50,229.1    | 48,447.9    |
| Outside Singapore              | 376,030.3   | 395,540.2   | 348,514.3   | 327,134.9   | 329,346.2   | 334,422.3   | 340,388.5   |
| Debt Securities & Equities     | 113,131.6   | 90,751.0    | 98,626.6    | 118,749.3   | 117,322.2   | 126,356.9   | 125,979.9   |
| Other Assets                   | 76,248.3    | 74,381.2    | 89,060.0    | 92,378.2    | 88,029.3    | 79,304.4    | 96,480.6    |
|                                | Liabilities |             |             |             |             |             |             |
| Total                          | 1,093,264.6 | 1,180,374.8 | 1,190,475.4 | 1,155,822.6 | 1,134,099.6 | 1,237,898.7 | 1,286,790.3 |
| Deposits of Non-bank Customers | 327,863.5   | 365,141.3   | 393,116.8   | 395,070.2   | 393,165.2   | 443,918.1   | 447,665.7   |
| Inter-bank Funds               | 628,109.0   | 648,170.8   | 615,036.2   | 574,723.1   | 558,849.0   | 601,199.7   | 614,966.3   |
| In Singapore                   | 75,466.9    | 60,529.3    | 62,608.9    | 63,393.3    | 63,112.6    | 67,263.3    | 59,661.3    |
| Inter-Asian Currency Units     | 53,934.8    | 56,261.1    | 51,721.6    | 60,595.7    | 51,807.1    | 51,186.5    | 49,743.5    |
| Outside Singapore              | 498,707.3   | 531,380.3   | 500,705.7   | 450,734.1   | 443,929.3   | 482,749.9   | 505,561.4   |
| Other Liabilities              | 137,292.1   | 167,062.7   | 182,322.4   | 186,029.3   | 182,085.4   | 192,780.9   | 224,158.3   |

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.

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[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=9701](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=9701)

## 19.12 ASSETS AND LIABILITIES OF FINANCE COMPANIES

(End of Period)

Million Dollars

|  | 2012     | 2013     | 2014     | 2015     | 2016     | 2017     | 2018     |
|--|----------|----------|----------|----------|----------|----------|----------|
| <b>Assets</b>  |          |          |          |          |          |          |          |
| Total  | 14,967.5 | 14,985.7 | 15,975.7 | 17,409.8 | 16,407.7 | 16,455.5 | 17,407.7 |
| Cash & Balances with Monetary Authority of Singapore | 328.6    | 339.2    | 368.8    | 397.4    | 370.2    | 373.4    | 391.5    |
| Deposits with Banks & Other Institutions             | 1,810.1  | 1,369.2  | 1,495.4  | 1,895.9  | 1,735.9  | 1,462.8  | 1,860.7  |
| Securities & Equities                                | 1,414.7  | 1,522.5  | 1,613.0  | 1,735.6  | 1,641.1  | 1,670.2  | 1,796.1  |
| Loans & Advances <sup>1</sup>                        | 11,311.5 | 11,653.9 | 12,385.4 | 13,251.7 | 12,546.5 | 12,848.7 | 13,254.5 |
| Hire Purchase  | 2,089.9  | 1,891.5  | 1,779.4  | 1,978.1  | 2,113.4  | 2,150.6  | 2,206.0  |
| On Motor Vehicles                                    | 1,877.1  | 1,637.0  | 1,464.8  | 1,619.4  | 1,785.3  | 1,880.1  | 1,975.3  |
| On Consumer Durables                                 | 10.6     | 0.2      | 0.1      | 0.3      | 0.2      | 0.3      | 0.2      |
| On Other Goods                                       | 202.3    | 254.3    | 314.6    | 358.3    | 327.9    | 270.2    | 230.5    |
| Housing Loans  | 1,402.8  | 1,394.0  | 1,448.4  | 1,475.8  | 1,397.4  | 1,333.5  | 1,258.0  |
| Other Loans & Advances                               | 7,818.8  | 8,368.4  | 9,157.6  | 9,797.9  | 9,035.7  | 9,364.6  | 9,790.4  |
| Other Assets   | 102.5    | 101.0    | 113.1    | 129.2    | 113.9    | 100.4    | 104.8    |
| <b>Liabilities</b>                                   |          |          |          |          |          |          |          |
| Total  | 14,967.5 | 14,985.7 | 15,975.7 | 17,409.8 | 16,407.7 | 16,455.5 | 17,407.7 |
| Capital & Reserves                                   | 2,104.8  | 2,109.6  | 2,214.2  | 2,242.4  | 2,263.2  | 2,327.8  | 2,488.8  |
| Deposits   | 12,347.6 | 12,396.1 | 13,295.7 | 14,667.1 | 13,603.8 | 13,600.4 | 14,469.2 |
| Savings Deposits                                     | 220.9    | 240.3    | 217.3    | 197.9    | 209.8    | 227.8    | 212.1    |
| Fixed Deposits                                       | 11,909.9 | 11,887.0 | 12,897.2 | 14,313.5 | 13,247.7 | 13,133.2 | 14,159.9 |
| Other Deposits                                       | 216.8    | 268.7    | 181.2    | 155.8    | 146.3    | 239.3    | 97.1     |
| Other Creditors                                      | 22.6     | 17.0     | 6.9      | 4.3      | 5.4      | 12.4     | 16.0     |
| Other Liabilities                                    | 492.5    | 463.0    | 458.9    | 496.0    | 535.3    | 515.0    | 433.7    |

Source : Monetary Authority of Singapore

1 Includes lease financing and bills discounted/purchased and block discounting agreement among finance companies.

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[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15232](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15232)

## 19.13 FINANCE COMPANIES' LOANS AND ADVANCES BY INDUSTRY

(End of Period)

|                                     | Million Dollars |         |         |         |         |         |         |
|-------------------------------------|-----------------|---------|---------|---------|---------|---------|---------|
|                                     | 2012            | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
| Total <sup>1</sup>                  | 7,685.2         | 8,230.5 | 9,002.6 | 9,588.0 | 8,763.3 | 8,996.8 | 9,391.0 |
| Agriculture, Mining & Quarrying     | 0.0             | 0.9     | 0.9     | 0.8     | 2.6     | 2.4     | 2.0     |
| Manufacturing                       | 65.6            | 71.2    | 109.8   | 126.1   | 136.1   | 133.7   | 113.5   |
| Building & Construction             | 4,190.6         | 4,736.8 | 4,846.5 | 4,791.6 | 3,987.1 | 4,094.7 | 4,546.9 |
| General Commerce                    | 188.9           | 194.5   | 237.9   | 300.2   | 300.3   | 246.9   | 251.8   |
| Transport, Storage & Communications | 164.0           | 152.2   | 201.6   | 247.9   | 299.7   | 374.6   | 340.9   |
| Financial Institutions              | 694.1           | 898.3   | 1,157.9 | 1,409.0 | 1,516.9 | 1,437.9 | 1,287.4 |
| Professional & Private Individuals  | 878.2           | 841.4   | 895.0   | 876.3   | 697.7   | 658.8   | 631.1   |
| Others                              | 1,503.9         | 1,335.3 | 1,553.1 | 1,836.1 | 1,823.0 | 2,047.9 | 2,217.4 |

Source : Monetary Authority of Singapore

<sup>1</sup> Excludes lease financing, factoring, block discounting and warehouse inventory financing and accounts receivable financing.

Download times series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=5296](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=5296)

## 19.14

ASSETS AND LIABILITIES OF DOMESTIC AND ASIAN CURRENCY  
UNIT OPERATIONS OF MERCHANT BANKS

(End of Period)

Million Dollars

|   | 2012     | 2013     | 2014     | 2015      | 2016     | 2017      | 2018     |
|---|----------|----------|----------|-----------|----------|-----------|----------|
| <b>Assets</b>                             |          |          |          |           |          |           |          |
| Total                                     | 92,411.0 | 84,944.9 | 96,256.8 | 106,583.3 | 95,888.3 | 102,821.7 | 93,125.3 |
| Amounts Due from Banks                    | 21,646.5 | 21,226.5 | 19,532.4 | 25,050.5  | 26,014.2 | 24,938.8  | 15,717.1 |
| In Singapore                              | 3,170.6  | 3,433.8  | 3,556.6  | 2,803.5   | 2,891.1  | 6,294.6   | 5,057.7  |
| Asian Currency Units                      | 5,300.3  | 5,212.7  | 7,432.7  | 9,345.2   | 8,000.3  | 6,755.8   | 2,303.1  |
| Outside Singapore                         | 13,175.6 | 12,580.0 | 8,543.2  | 12,901.8  | 15,122.8 | 11,888.4  | 8,356.4  |
| Loans & Advances to<br>Non-bank Customers | 26,832.3 | 25,533.8 | 26,640.2 | 23,322.0  | 19,350.7 | 21,971.4  | 19,925.1 |
| Securities & Equities                     | 38,303.3 | 32,642.1 | 43,415.1 | 50,320.9  | 43,193.7 | 47,505.6  | 47,349.3 |
| Other Assets                              | 5,628.9  | 5,542.5  | 6,669.1  | 7,889.8   | 7,329.7  | 8,406.0   | 10,133.8 |
| <b>Liabilities</b>                        |          |          |          |           |          |           |          |
| Total                                     | 92,411.0 | 84,944.9 | 96,256.8 | 106,583.3 | 95,888.3 | 102,821.7 | 93,125.3 |
| Capital & Reserves                        | 12,168.2 | 12,381.3 | 12,560.9 | 13,024.8  | 13,566.2 | 14,110.8  | 11,515.8 |
| Amounts Due to Banks                      | 55,045.1 | 51,658.0 | 63,112.6 | 70,528.6  | 61,856.6 | 66,043.5  | 57,446.7 |
| In Singapore                              | 615.2    | 408.6    | 406.4    | 514.3     | 5,814.2  | 9,243.3   | 9,040.1  |
| Asian Currency Units                      | 22,413.9 | 20,349.2 | 21,296.9 | 23,184.9  | 17,967.6 | 20,894.5  | 12,768.3 |
| Outside Singapore                         | 32,016.0 | 30,900.2 | 41,409.4 | 46,829.4  | 38,074.8 | 35,905.8  | 35,638.3 |
| Borrowings from<br>Non-bank Customers     | 17,741.8 | 13,600.6 | 12,564.7 | 13,291.2  | 12,370.2 | 15,476.8  | 14,904.4 |
| Other Liabilities                         | 7,456.0  | 7,305.0  | 8,018.6  | 9,738.7   | 8,095.3  | 7,190.6   | 9,258.3  |

Source : Monetary Authority of Singapore

Notes : Provision of corporate financial advisory services, underwriting and operations in the gold market are not reflected in the data.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14711](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14711)

## 19.15

## DOMESTIC INTEREST RATES

(End of Period)

|   | Per Cent Per Annum |        |        |        |        |        |        |
|---|--------------------|--------|--------|--------|--------|--------|--------|
|   | 2012               | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
| Singapore Overnight Rate Average <sup>1</sup> | 0.0380             | 0.0698 | 0.2484 | 0.7159 | 0.4595 | 0.8605 | 1.7645 |
| Banks <sup>2</sup>                            |                    |        |        |        |        |        |        |
| Prime Lending Rate                            | 5.38               | 5.38   | 5.35   | 5.35   | 5.35   | 5.28   | 5.33   |
| Fixed Deposits                                |                    |        |        |        |        |        |        |
| 3 Months                                      | 0.14               | 0.14   | 0.14   | 0.18   | 0.19   | 0.14   | 0.17   |
| 6 Months                                      | 0.20               | 0.20   | 0.21   | 0.24   | 0.25   | 0.20   | 0.23   |
| 12 Months                                     | 0.32               | 0.32   | 0.31   | 0.34   | 0.35   | 0.33   | 0.45   |
| Savings Deposits                              | 0.11               | 0.10   | 0.11   | 0.14   | 0.14   | 0.16   | 0.16   |
| Finance Companies <sup>3</sup>                |                    |        |        |        |        |        |        |
| Fixed Deposits                                |                    |        |        |        |        |        |        |
| 3 Months                                      | 0.20               | 0.18   | 0.18   | 0.30   | 0.30   | 0.30   | 0.30   |
| 6 Months                                      | 0.28               | 0.25   | 0.25   | 0.38   | 0.38   | 0.38   | 0.38   |
| 12 Months                                     | 0.53               | 0.53   | 0.53   | 0.58   | 0.50   | 0.50   | 0.50   |
| Savings Deposits                              | 0.17               | 0.17   | 0.17   | 0.17   | 0.17   | 0.17   | 0.17   |

Source : Monetary Authority of Singapore

- 1 Refers to volume-weighted average of unsecured Singapore dollar overnight cash transactions 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.

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[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15233](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15233)

## 19.16 CONTRIBUTIONS AND WITHDRAWALS OF CENTRAL PROVIDENT FUND

|  | Million Dollars |           |           |           |           |           |           |
|--|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
|  | 2012            | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
| Contributions (net of refunds) by members <sup>1</sup> | 26,048.4        | 28,530.0  | 29,722.1  | 32,049.1  | 35,851.7  | 37,284.7  | 38,369.0  |
| Interest credited to members                           | 8,290.6         | 9,144.2   | 9,971.9   | 10,834.5  | 12,048.2  | 13,196.2  | 14,350.2  |
| Withdrawals (net of refunds) by members <sup>2</sup>   | 11,726.8        | 14,863.2  | 17,298.7  | 18,725.1  | 18,527.0  | 19,861.6  | 21,116.3  |
| Amount due to members                                  | 230,157.7       | 252,968.6 | 275,363.9 | 299,522.4 | 328,895.3 | 359,514.6 | 391,117.5 |

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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15251](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15251)

# 19.17 WITHDRAWALS OF CENTRAL PROVIDENT FUND BY TYPE

|  | 2012            | 2013     | 2014     | 2015     | 2016     | 2017     | 2018     |
|--|-----------------|----------|----------|----------|----------|----------|----------|
|  | Million Dollars |          |          |          |          |          |          |
| Withdrawals (net of refunds) by members <sup>1</sup>     | 11,726.8        | 14,863.2 | 17,298.7 | 18,725.1 | 18,527.0 | 19,861.6 | 21,116.3 |
| Housing Schemes  |                 |          |          |          |          |          |          |
| Public Housing   | 5,703.1         | 5,841.3  | 6,892.3  | 7,069.9  | 6,971.9  | 7,375.2  | 6,218.6  |
| Residential Properties                                   | 2,290.6         | 2,500.1  | 2,706.0  | 3,310.6  | 3,905.5  | 3,716.9  | 2,841.3  |
| Reached 55 Years of Age and Above <sup>2</sup>           | 2,048.2         | 2,819.6  | 2,945.8  | 3,720.7  | 3,343.7  | 4,076.5  | 5,544.6  |
| Leaving Singapore & Malaysia<br>Permanently <sup>3</sup> | 541.5           | 579.8    | 665.6    | 712.8    | 753.6    | 799.1    | 887.8    |
| Death  | 487.9           | 530.4    | 606.8    | 672.8    | 756.2    | 890.1    | 981.3    |
| Medisave Scheme  | 767.4           | 798.5    | 852.9    | 899.9    | 931.3    | 963.5    | 1,033.8  |
| Private Medical Insurance Scheme                         | 384.6           | 484.1    | 542.9    | 581.0    | 674.4    | 768.8    | 828.2    |
| Others <sup>4</sup>                                      | -496.5          | 1,309.4  | 2,086.4  | 1,757.4  | 1,190.4  | 1,271.5  | 2,780.7  |
|  | Number          |          |          |          |          |          |          |
| Housing Schemes <sup>5</sup>                             |                 |          |          |          |          |          |          |
| Public Housing   | 752,740         | 742,813  | 733,637  | 731,292  | 739,964  | 769,206  | 755,074  |
| Residential Properties                                   | 164,704         | 173,105  | 177,360  | 188,640  | 201,763  | 217,520  | 228,191  |
| Reached 55 Years of Age and Above <sup>2</sup>           | 245,645         | 261,573  | 296,333  | 389,598  | 343,136  | 372,753  | 446,087  |
| Leaving Singapore & Malaysia<br>Permanently <sup>3</sup> | 15,038          | 13,868   | 14,081   | 13,591   | 13,046   | 12,822   | 12,841   |
| Death  | 18,472          | 18,796   | 19,395   | 20,510   | 20,465   | 20,604   | 20,875   |

Source : Central Provident Fund Board

- 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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=2804](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=2804)  
[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=1836](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=1836)

## 19.18

## TURNOVER ON THE SINGAPORE EXCHANGE (EQUITIES)

|                    | Unit    | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|--------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| SGX Mainboard      |         |           |           |           |           |           |           |           |
| Volume             | Million | 357,633.8 | 541,726.2 | 307,505.1 | 262,911.6 | 223,565.5 | 222,579.2 | 176,922.6 |
| Basic Materials    | Million | 14,168.3  | 16,097.6  | 14,343.8  | 12,020.1  | 5,638.2   | 7,858.2   | 11,190.8  |
| Consumer Goods     | Million | 94,724.5  | 115,598.2 | 45,164.9  | 38,991.7  | 29,023.9  | 26,883.5  | 16,747.6  |
| Consumer Services  | Million | 34,476.8  | 42,775.7  | 27,282.2  | 20,498.5  | 15,813.4  | 31,828.7  | 23,023.1  |
| Financials         | Million | 38,856.2  | 77,412.1  | 40,738.7  | 47,372.6  | 46,454.3  | 49,445.0  | 43,603.9  |
| Health Care        | Million | 3,858.5   | 2,995.9   | 2,364.2   | 2,959.5   | 1,434.3   | 1,518.2   | 1,197.5   |
| Industrials        | Million | 120,133.5 | 184,896.5 | 102,478.6 | 82,566.7  | 69,684.6  | 62,895.7  | 43,688.9  |
| Oil & Gas          | Million | 13,160.3  | 23,613.4  | 19,184.5  | 17,882.5  | 34,251.7  | 13,552.8  | 21,374.4  |
| Technology         | Million | 27,685.7  | 49,125.2  | 23,865.9  | 26,032.3  | 11,894.1  | 19,146.7  | 7,244.6   |
| Telecommunications | Million | 7,256.1   | 6,326.9   | 5,128.2   | 6,957.3   | 7,019.7   | 6,573.6   | 6,895.1   |
| Utilities          | Million | 3,313.8   | 22,884.9  | 26,954.1  | 7,630.4   | 2,351.3   | 2,876.7   | 1,956.8   |
| Value              | \$m     | 306,418.9 | 322,357.3 | 244,061.6 | 263,867.4 | 252,981.2 | 263,625.6 | 271,694.0 |
| Basic Materials    | \$m     | 8,049.1   | 5,140.7   | 3,381.3   | 1,657.4   | 1,118.4   | 1,511.0   | 1,481.0   |
| Consumer Goods     | \$m     | 48,174.1  | 36,501.3  | 21,822.8  | 15,562.5  | 18,345.3  | 16,342.2  | 13,218.3  |
| Consumer Services  | \$m     | 35,316.2  | 35,930.6  | 25,617.3  | 27,861.8  | 25,684.4  | 28,619.1  | 29,958.6  |
| Financials         | \$m     | 84,491.6  | 115,431.2 | 96,621.3  | 119,251.3 | 117,060.6 | 126,463.3 | 138,667.3 |
| Health Care        | \$m     | 3,743.1   | 2,682.6   | 2,212.1   | 2,940.7   | 1,596.8   | 1,767.2   | 1,407.9   |
| Industrials        | \$m     | 65,390.0  | 60,024.9  | 45,022.6  | 45,915.0  | 41,170.4  | 47,108.7  | 43,960.2  |
| Oil & Gas          | \$m     | 31,398.3  | 30,288.7  | 22,684.9  | 19,191.2  | 19,303.0  | 14,471.5  | 16,666.8  |
| Technology         | \$m     | 7,815.0   | 12,013.2  | 3,873.5   | 3,198.9   | 1,703.0   | 3,043.4   | 4,577.7   |
| Telecommunications | \$m     | 20,843.5  | 21,729.2  | 17,411.4  | 25,711.7  | 25,670.1  | 22,947.5  | 20,807.5  |
| Utilities          | \$m     | 1,198.0   | 2,614.9   | 5,414.6   | 2,577.0   | 1,329.2   | 1,351.6   | 948.8     |

*(continued on the next page)*

Source : Singapore Exchange Limited

Notes : All Mainboard stocks are classified based on Industry Classification Benchmark.  
Includes Ordinary Shares, Staped Securities and Unit Trusts.

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[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=5221](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=5221)



## 19.18

## TURNOVER ON THE SINGAPORE EXCHANGE (EQUITIES) (continued)

|                    | Unit    | 2012     | 2013      | 2014      | 2015     | 2016     | 2017      | 2018     |
|--------------------|---------|----------|-----------|-----------|----------|----------|-----------|----------|
| SGX Catalist       |         |          |           |           |          |          |           |          |
| Volume             | Million | 86,015.5 | 268,959.6 | 127,480.1 | 83,075.8 | 98,223.5 | 138,646.9 | 63,946.2 |
| Basic Materials    | Million | 650.3    | 32,834.3  | 19,418.7  | 8,698.6  | 24,194.1 | 25,520.4  | 11,444.2 |
| Consumer Goods     | Million | 7,424.9  | 14,180.0  | 5,439.4   | 3,119.3  | 4,307.3  | 19,627.7  | 3,666.6  |
| Consumer Services  | Million | 9,935.4  | 32,541.6  | 6,926.9   | 5,933.4  | 14,550.6 | 11,715.9  | 8,006.8  |
| Financials         | Million | 1,805.8  | 1,251.9   | 8,984.7   | 3,222.6  | 721.6    | 1,655.8   | 741.6    |
| Health Care        | Million | 3,281.3  | 13,537.4  | 11,046.3  | 17,120.3 | 18,073.3 | 12,028.6  | 4,284.7  |
| Industrials        | Million | 26,854.7 | 93,561.0  | 50,807.0  | 28,839.4 | 23,244.8 | 53,129.7  | 23,225.0 |
| Oil & Gas          | Million | 5,585.0  | 457.2     | 3,037.9   | 4,787.2  | 8,592.6  | 5,196.6   | 6,419.3  |
| Technology         | Million | 11,501.5 | 44,318.9  | 9,144.8   | 8,200.7  | 2,724.0  | 7,155.6   | 5,517.8  |
| Telecommunications | Million | 0.0      | 0.0       | 0.0       | 0.0      | 0.0      | 0.0       | 0.0      |
| Utilities          | Million | 18,976.6 | 36,277.3  | 12,674.5  | 3,154.4  | 1,815.2  | 2,616.8   | 640.2    |
| Value              | \$m     | 7,743.8  | 18,322.8  | 13,030.4  | 8,232.8  | 7,086.5  | 9,124.0   | 3,487.3  |
| Basic Materials    | \$m     | 286.9    | 2,745.3   | 1,625.3   | 743.7    | 1,633.0  | 2,033.5   | 722.1    |
| Consumer Goods     | \$m     | 361.4    | 748.2     | 284.9     | 71.4     | 110.2    | 541.6     | 98.7     |
| Consumer Services  | \$m     | 257.5    | 1,260.2   | 789.2     | 750.3    | 2,215.3  | 1,862.1   | 444.7    |
| Financials         | \$m     | 514.5    | 409.4     | 807.3     | 232.6    | 120.1    | 216.1     | 130.4    |
| Health Care        | \$m     | 239.5    | 1,263.6   | 2,773.6   | 3,429.3  | 978.6    | 957.6     | 308.5    |
| Industrials        | \$m     | 2,783.4  | 8,280.4   | 4,385.3   | 1,918.2  | 1,207.6  | 3,148.8   | 1,146.9  |
| Oil & Gas          | \$m     | 2,553.7  | 222.5     | 1,286.3   | 543.2    | 626.7    | 238.9     | 473.8    |
| Technology         | \$m     | 263.3    | 1,587.8   | 313.4     | 474.1    | 178.3    | 104.7     | 160.3    |
| Telecommunications | \$m     | 0.0      | 0.0       | 0.0       | 0.0      | 0.0      | 0.0       | 0.0      |
| Utilities          | \$m     | 483.7    | 1,805.5   | 765.3     | 70.1     | 16.7     | 20.7      | 1.9      |

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 [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=5232](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=5232)  
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## 19.19 PLEDGES AT PAWNSHOPS

|                             | Unit | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
|-----------------------------|------|---------|---------|---------|---------|---------|---------|---------|
| Pledges                     |      |         |         |         |         |         |         |         |
| Received                    | '000 | 4,003.9 | 4,206.0 | 4,236.2 | 4,374.4 | 4,452.5 | 4,451.8 | 4,427.5 |
| Redeemed                    | '000 | 3,793.2 | 4,017.4 | 4,081.0 | 4,198.6 | 4,251.3 | 4,253.2 | 4,232.7 |
| Amount of Loans             |      |         |         |         |         |         |         |         |
| Given Out                   | \$m  | 7,067.6 | 5,470.6 | 5,276.2 | 5,381.1 | 5,525.5 | 5,546.8 | 5,683.6 |
| Redeemed including Interest | \$m  | 7,123.5 | 5,577.7 | 5,310.5 | 5,420.2 | 5,503.6 | 5,535.9 | 5,663.2 |

Source : Registry of Pawnbrokers

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15265](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15265)

## 19.20

## LIFE INSURANCE POLICIES

(End of Period)

|                                  | 2011            | 2012      | 2013      | 2014      | 2015      | 2016        | 2017        |
|----------------------------------|-----------------|-----------|-----------|-----------|-----------|-------------|-------------|
|                                  | Thousand        |           |           |           |           |             |             |
| Policies in Force                | 12,191.8        | 12,591.7  | 12,900.4  | 13,140.1  | 13,466.8  | 13,833.2    | 14,284.5    |
| New Policies                     | 1,128.2         | 1,121.2   | 1,097.4   | 1,046.8   | 1,052.7   | 1,149.9     | 1,276.9     |
| Policies Matured or Discontinued | 700.1           | 721.3     | 788.7     | 807.0     | 724.9     | 783.4       | 825.7       |
|                                  | Million Dollars |           |           |           |           |             |             |
| Policies in Force                |                 |           |           |           |           |             |             |
| Amount Insured                   | 713,645.4       | 783,874.9 | 839,804.0 | 903,071.2 | 990,566.8 | 1,129,068.0 | 1,218,725.4 |
| Annual Premiums                  | 10,324.4        | 11,407.1  | 13,015.5  | 14,352.5  | 15,686.2  | 16,982.7    | 18,352.7    |
| New Policies                     |                 |           |           |           |           |             |             |
| Amount Insured                   | 116,309.6       | 134,122.9 | 123,355.7 | 132,495.8 | 168,194.2 | 251,397.1   | 212,062.0   |
| Single Premium                   | 6,537.3         | 5,861.1   | 7,038.1   | 8,672.9   | 9,463.5   | 10,259.0    | 14,640.8    |
| Annual Premiums                  | 1,784.5         | 2,133.9   | 2,687.9   | 2,451.5   | 2,632.3   | 2,916.2     | 3,345.8     |
| Policies Matured or Discontinued |                 |           |           |           |           |             |             |
| Amount Insured                   | 55,770.1        | 63,904.7  | 67,530.1  | 69,228.6  | 80,637.8  | 112,895.9   | 122,404.7   |
| Annual Premiums                  | 695.3           | 1,051.4   | 1,088.9   | 1,114.5   | 1,267.1   | 1,619.6     | 1,975.9     |

Source : Monetary Authority of Singapore

Download times series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14616](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14616)

## 19.21

## REVENUE AND EXPENDITURE ACCOUNTS OF LIFE INSURANCE FUNDS

Million Dollars

|   | 2011        | 2012     | 2013     | 2014     | 2015     | 2016     | 2017     |
|---|-------------|----------|----------|----------|----------|----------|----------|
|   | Revenue     |          |          |          |          |          |          |
| Total                                     | 15,713.6    | 28,010.5 | 21,947.3 | 32,487.7 | 23,995.4 | 31,620.8 | 45,411.0 |
| Net Premiums Written                      | 16,395.8    | 16,841.2 | 19,189.7 | 22,225.4 | 22,228.7 | 22,721.5 | 27,992.1 |
| Net Investment Income                     | -901.4      | 10,948.8 | 2,485.7  | 9,998.8  | 1,457.0  | 8,578.3  | 16,731.4 |
| Miscellaneous                             | 219.2       | 220.5    | 271.9    | 263.5    | 309.7    | 321.0    | 687.5    |
|   | Expenditure |          |          |          |          |          |          |
| Total                                     | 15,713.6    | 28,010.5 | 21,947.3 | 32,487.7 | 23,995.4 | 31,620.8 | 45,411.0 |
| Claims on Death, Disability<br>& Maturity | 7,329.9     | 8,487.7  | 9,657.7  | 10,193.7 | 8,870.5  | 9,389.2  | 9,830.8  |
| Surrenders                                | 3,259.3     | 3,285.0  | 3,707.3  | 4,067.4  | 4,417.8  | 4,539.7  | 5,658.9  |
| Cash Bonuses & Annuities                  | 472.0       | 480.7    | 514.5    | 565.4    | 635.1    | 684.3    | 735.2    |
| Management Expenses                       | 729.6       | 768.4    | 880.2    | 934.1    | 1,039.0  | 1,111.9  | 1,276.6  |
| Distribution Expenses                     | 1,582.9     | 1,820.2  | 2,090.7  | 2,334.2  | 2,416.6  | 2,475.8  | 2,475.8  |
| Miscellaneous                             | 2,339.9     | 13,168.5 | 5,096.9  | 14,392.9 | 6,616.4  | 13,419.9 | 25,433.7 |

Source : Monetary Authority of Singapore

Notes : Data are based on the risk-based capital framework.

Download times series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14630](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14630)

## 19.22 ASSETS OF LIFE INSURANCE FUNDS

(End of Period)

|  | Million Dollars |           |           |           |           |           |           |
|--|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
|  | 2011            | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      |
| Total  | 118,606.3       | 132,476.3 | 136,178.8 | 151,329.3 | 159,536.4 | 173,029.5 | 202,878.6 |
| Land & Buildings   | 3,055.8         | 3,109.4   | 3,187.8   | 3,243.4   | 3,266.4   | 3,314.7   | 3,415.0   |
| Loans  |                 |           |           |           |           |           |           |
| On Mortgages   | 974.1           | 659.4     | 680.5     | 640.9     | 610.1     | 502.3     | 365.2     |
| On Policies  | 2,340.9         | 2,326.9   | 2,333.7   | 2,377.3   | 2,411.2   | 2,450.0   | 2,496.2   |
| Others   | 579.9           | 345.5     | 312.4     | 318.1     | 645.2     | 561.4     | 503.7     |
| Investments  |                 |           |           |           |           |           |           |
| Debt Securities  | 64,850.1        | 75,322.0  | 76,196.0  | 87,457.7  | 94,458.3  | 101,747.9 | 105,026.8 |
| Equity Securities  | 36,235.1        | 41,288.5  | 46,102.7  | 50,936.3  | 51,599.1  | 58,100.1  | 81,045.6  |
| Cash & Deposits  | 8,085.7         | 6,675.5   | 5,578.9   | 5,070.5   | 5,439.9   | 5,498.0   | 6,940.8   |
| Miscellaneous (including<br>Outstanding Premiums) <sup>1</sup> | 2,484.7         | 2,749.1   | 1,786.8   | 1,285.1   | 1,106.2   | 855.1     | 3,085.3   |

Source : Monetary Authority of Singapore

Notes : Data are based on the risk-based capital framework.

<sup>1</sup> Includes furniture.

Download times series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=5320](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=5320)

## 19.23 PREMIUMS AND CLAIMS OF GENERAL INSURANCE FUNDS

Million Dollars

|                             | 2011                            | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    |
|-----------------------------|---------------------------------|---------|---------|---------|---------|---------|---------|
|                             | Net Premiums <sup>1</sup>       |         |         |         |         |         |         |
| Total                       | 2,645.3                         | 2,784.9 | 2,866.9 | 2,936.1 | 2,649.5 | 2,669.2 | 2,503.4 |
| Marine, Aviation or Transit | 229.7                           | 225.0   | 215.0   | 229.5   | 233.2   | 227.7   | 181.6   |
| Others                      |                                 |         |         |         |         |         |         |
| Fire                        | 211.7                           | 218.7   | 235.1   | 244.9   | 220.9   | 244.2   | 238.2   |
| Motor Vehicles              | 1,148.9                         | 1,182.5 | 1,169.7 | 1,123.1 | 943.0   | 950.8   | 910.1   |
| Miscellaneous               | 1,055.0                         | 1,158.7 | 1,247.1 | 1,338.6 | 1,252.4 | 1,246.5 | 1,173.5 |
|                             | Net Claims Settled <sup>2</sup> |         |         |         |         |         |         |
| Total                       | 1,176.1                         | 1,353.2 | 1,366.3 | 1,355.7 | 1,481.3 | 1,536.4 | 1,377.7 |
| Marine, Aviation or Transit | 94.8                            | 101.6   | 106.9   | 110.2   | 129.4   | 106.7   | 85.9    |
| Others                      |                                 |         |         |         |         |         |         |
| Fire                        | 56.5                            | 102.5   | 69.8    | 41.6    | 79.0    | 60.6    | 51.9    |
| Motor Vehicles              | 623.8                           | 693.4   | 689.6   | 660.7   | 651.4   | 638.6   | 608.4   |
| Miscellaneous               | 401.0                           | 455.7   | 500.0   | 543.2   | 621.5   | 730.5   | 631.5   |

Source : Monetary Authority of Singapore

- 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.

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# 19.24 REVENUE AND EXPENDITURE ACCOUNTS OF GENERAL INSURANCE FUNDS

Million Dollars

|   | 2011        | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    |
|---|-------------|---------|---------|---------|---------|---------|---------|
|   | Revenue     |         |         |         |         |         |         |
| Total                                     | 2,709.4     | 3,120.6 | 3,028.6 | 3,226.3 | 2,786.8 | 2,946.3 | 2,913.8 |
| Net Premiums Written                      | 2,645.3     | 2,784.9 | 2,866.9 | 2,936.1 | 2,649.5 | 2,669.2 | 2,503.4 |
| Net Investment Income                     | 44.1        | 302.9   | 135.1   | 246.2   | 92.0    | 210.2   | 356.3   |
| Miscellaneous                             | 20.0        | 32.8    | 26.6    | 44.0    | 45.3    | 66.9    | 54.1    |
|   | Expenditure |         |         |         |         |         |         |
| Total                                     | 2,709.4     | 3,120.6 | 3,028.6 | 3,226.3 | 2,786.8 | 2,946.3 | 2,913.8 |
| Net Claims Settled                        | 1,176.1     | 1,353.2 | 1,366.3 | 1,355.7 | 1,481.3 | 1,536.4 | 1,377.7 |
| Management Expenses                       | 532.5       | 542.8   | 601.5   | 658.2   | 735.8   | 775.4   | 802.4   |
| Distribution Expenses                     | 361.9       | 371.2   | 396.9   | 416.9   | 283.5   | 321.4   | 269.7   |
| Increase (Decrease) in Policy Liabilities | 342.3       | 172.1   | 131.9   | 65.4    | -172.6  | -149.4  | -76.5   |
| Miscellaneous                             | 296.6       | 681.3   | 532.0   | 730.1   | 458.8   | 462.5   | 540.5   |

Source : Monetary Authority of Singapore

Notes : Data are based on the risk-based capital framework.

Download times series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14618](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14618)

## 19.25 ASSETS OF GENERAL INSURANCE FUNDS

(End of Period)

|                   | Million Dollars |         |         |          |          |          |          |
|-------------------|-----------------|---------|---------|----------|----------|----------|----------|
|                   | 2011            | 2012    | 2013    | 2014     | 2015     | 2016     | 2017     |
| Total             | 8,742.2         | 9,446.5 | 9,989.2 | 10,489.3 | 11,070.6 | 11,140.7 | 10,841.2 |
| Land & Buildings  | 199.9           | 200.2   | 260.9   | 293.0    | 286.6    | 290.6    | 307.9    |
| Loans             | 34.5            | 39.8    | 48.6    | 44.8     | 50.8     | 55.8     | 26.7     |
| Investments       |                 |         |         |          |          |          |          |
| Debt Securities   | 4,451.4         | 4,703.5 | 4,967.9 | 5,495.9  | 6,155.4  | 5,971.6  | 5,638.9  |
| Equity Securities | 800.1           | 960.1   | 1,016.0 | 1,027.9  | 941.4    | 955.5    | 935.7    |
| Cash & Deposits   | 2,399.6         | 2,578.0 | 2,721.0 | 2,577.2  | 2,273.7  | 2,273.4  | 2,495.6  |
| Miscellaneous     | 856.7           | 964.9   | 974.8   | 1,050.5  | 1,362.7  | 1,593.8  | 1,436.4  |

Source : Monetary Authority of Singapore

Notes : Data are based on the risk-based capital framework.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=5314](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=5314)

## 19.26 CREDIT AND CHARGE CARDS

|  | Unit | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|--|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Main Local Cardholders <sup>1</sup>          | No.  | 7,843,765 | 7,984,608 | 8,156,466 | 8,044,900 | 7,818,154 | 7,724,041 | 6,872,526 |
| Supplementary Local Cardholders <sup>1</sup> | No.  | 1,502,591 | 1,573,936 | 1,554,840 | 1,490,254 | 1,438,589 | 1,389,750 | 1,336,307 |
| Total Card Billings                          | \$m  | 38,419.2  | 41,602.2  | 44,582.4  | 47,103.9  | 49,904.1  | 54,275.9  | 59,638.3  |
| Rollover Balance <sup>1</sup>                | \$m  | 4,991.8   | 5,362.9   | 5,500.6   | 5,290.3   | 5,301.3   | 5,224.3   | 5,495.8   |
| Bad Debts Written Off                        | \$m  | 226.6     | 247.8     | 273.9     | 319.1     | 319.3     | 308.8     | 310.5     |
| Charge-Off Rates <sup>2</sup>                | %    | 4.8       | 4.8       | 5.1       | 5.9       | 6.1       | 6.0       | 5.8       |

Source : Monetary Authority of Singapore

<sup>1</sup> As at end of period.

<sup>2</sup> Refers to bad debts written off during the year divided by the average rollover balance for the same year.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14637](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14637)



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, a 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) and the Singapore Customs. IRAS is 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 on the IRAS website.

GST is a consumption tax levied on the import of goods and all supplies of goods and services in Singapore. It excludes 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 main 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



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<sup>1</sup>.

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<sup>2</sup>.

The funding sources of the Development Fund are:

- i) 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

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 currently issues the following debt securities: Treasury Bills, Singapore Government Securities (SGS) bonds, Special Singapore Government Securities (SSGS) and Singapore Savings Bonds (SSB), which are 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.

These borrowings are not used to fund Government's Budget. Under the Government Securities Act, borrowing proceeds from the issuance of these securities cannot be spent and have to be invested.

The Singapore Government has a strong balance sheet with assets in excess of its liabilities.

<sup>1</sup> The Consolidated Fund was constituted by Article 145 of the Constitution of the Republic of Singapore (1999 Revised Edition).

<sup>2</sup> The Development Fund was established by the Development Fund Act (Cap. 80, 2013 Revised Edition).

## 20.1 OVERALL FISCAL POSITION

|  | Million Dollars |          |          |          |          |          |          |
|--|-----------------|----------|----------|----------|----------|----------|----------|
|  | FY2011          | FY2012   | FY2013   | FY2014   | FY2015   | FY2016   | FY2017   |
| Operating Revenue <sup>1</sup>                                   | 51,077.2        | 55,814.5 | 57,020.3 | 60,838.2 | 64,823.2 | 68,964.4 | 75,815.7 |
| Corporate Income Tax   | 12,096.3        | 12,821.3 | 12,679.6 | 13,371.5 | 13,815.1 | 13,602.2 | 14,944.0 |
| Personal Income Tax  | 6,871.4         | 7,713.7  | 7,688.1  | 8,926.7  | 9,234.9  | 10,526.2 | 10,724.0 |
| Withholding Tax  | 1,258.0         | 1,337.3  | 1,152.4  | 1,126.0  | 1,402.0  | 1,474.1  | 1,531.6  |
| Statutory Boards' Contributions                                  | 353.2           | 539.1    | 529.8    | 515.9    | 438.3    | 775.4    | 4,865.8  |
| Assets Taxes   | 3,901.9         | 3,768.3  | 4,181.9  | 4,340.6  | 4,455.0  | 4,359.5  | 4,439.7  |
| Customs and Excise Taxes   | 2,132.8         | 2,141.7  | 2,189.4  | 2,539.7  | 2,833.0  | 2,730.0  | 3,132.9  |
| Goods and Services Tax   | 8,687.0         | 9,038.0  | 9,512.7  | 10,215.0 | 10,345.1 | 11,078.3 | 10,959.5 |
| Motor Vehicle Taxes  | 1,919.6         | 1,802.9  | 1,654.6  | 1,602.9  | 1,759.7  | 2,148.4  | 2,152.5  |
| Betting Taxes  | 2,373.4         | 2,304.8  | 2,378.8  | 2,591.0  | 2,719.0  | 2,682.0  | 2,688.2  |
| Stamp Duty   | 3,175.1         | 4,309.5  | 3,929.9  | 2,783.6  | 2,768.9  | 3,278.5  | 4,905.1  |
| Other Taxes <sup>2</sup>   | 3,307.3         | 4,341.8  | 5,248.4  | 6,097.1  | 5,876.2  | 6,044.5  | 6,019.3  |
| Vehicle Quota Premiums   | 2,112.0         | 2,572.1  | 2,721.7  | 3,394.1  | 5,424.8  | 6,550.6  | 5,796.1  |
| Fees and Charges (Excluding Vehicle Quota Premiums) <sup>3</sup> | 2,587.2         | 2,707.7  | 2,903.0  | 3,010.5  | 3,248.8  | 3,208.9  | 3,279.1  |
| Others <sup>4</sup>  | 302.0           | 416.1    | 250.0    | 323.8    | 502.2    | 505.7    | 377.8    |
| Total Expenditure <sup>5</sup>                                   | 46,563.4        | 49,003.9 | 51,727.8 | 56,648.3 | 67,447.0 | 71,044.9 | 73,556.2 |
| Social Development   | 21,659.5        | 21,877.4 | 24,179.4 | 27,206.8 | 31,292.6 | 33,839.4 | 36,468.1 |
| Security and External Relations                                  | 14,805.7        | 15,397.4 | 16,093.6 | 17,196.1 | 18,451.6 | 19,541.0 | 20,462.5 |
| Economic Development   | 8,570.2         | 9,824.8  | 9,573.8  | 10,146.8 | 15,540.7 | 15,300.5 | 13,871.9 |
| Government Administration  | 1,528.0         | 1,904.4  | 1,881.0  | 2,098.6  | 2,162.2  | 2,363.9  | 2,753.8  |
| Primary Surplus/Deficit  | 4,513.7         | 6,810.6  | 5,292.5  | 4,189.9  | -2,623.9 | -2,080.4 | 2,259.4  |
| Special Transfers <sup>6</sup>                                   | 8,426.7         | 8,859.5  | 8,583.6  | 12,356.2 | 10,369.2 | 6,372.3  | 6,122.4  |
| Special Transfers Excluding Top-ups to Endowment and Trust Funds | 2,909.2         | 1,457.5  | 2,989.6  | 3,856.2  | 4,369.2  | 2,772.3  | 2,112.4  |
| Basic Surplus/Deficit <sup>7</sup>                               | 1,604.5         | 5,353.0  | 2,302.9  | 333.7    | -6,993.0 | -4,852.7 | 147.0    |
| Top-ups to Endowment and Trust Funds                             | 5,517.5         | 7,402.0  | 5,594.0  | 8,500.0  | 6,000.0  | 3,600.0  | 4,010.0  |

(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 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 Returns Contribution.

## 20.1 OVERALL FISCAL POSITION *(continued)*

|  | Million Dollars |         |         |         |          |          |          |
|--|-----------------|---------|---------|---------|----------|----------|----------|
|  | FY2011          | FY2012  | FY2013  | FY2014  | FY2015   | FY2016   | FY2017   |
| Net Investment Returns Contribution <sup>8</sup> | 7,915.6         | 7,870.1 | 8,289.4 | 8,737.8 | 8,943.3  | 14,577.5 | 14,723.9 |
| Overall Budget Surplus/Deficit                   | 4,002.7         | 5,821.1 | 4,998.2 | 571.5   | -4,049.7 | 6,124.8  | 10,861.0 |

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.

- 8 Refers to contributions from investment returns on reserves, where Net Investment Returns Contribution is the sum of:  
 (1) up to 50% of the long-term expected real return on the relevant assets specified in the Constitution; and  
 (2) up to 50% of the net investment income derived from past reserves from the remaining assets.

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## 20.2 GOVERNMENT OPERATING REVENUE

Million Dollars

|                                  | FY2011   | FY2012   | FY2013   | FY2014   | FY2015   | FY2016   | FY2017   |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|
| Total <sup>1</sup>               | 51,077.2 | 55,814.5 | 57,020.3 | 60,838.2 | 64,823.2 | 68,964.4 | 75,815.7 |
| Tax Revenue                      | 46,076.1 | 50,118.5 | 51,145.6 | 54,109.8 | 55,647.3 | 58,699.3 | 66,362.6 |
| Income Tax                       | 20,578.9 | 22,411.4 | 22,049.9 | 23,940.0 | 24,890.4 | 26,378.0 | 32,065.3 |
| Corporate Income Tax             | 12,096.3 | 12,821.3 | 12,679.6 | 13,371.5 | 13,815.1 | 13,602.2 | 14,944.0 |
| Personal Income Tax              | 6,871.4  | 7,713.7  | 7,688.1  | 8,926.7  | 9,234.9  | 10,526.2 | 10,724.0 |
| Withholding Tax <sup>2</sup>     | 1,258.0  | 1,337.3  | 1,152.4  | 1,126.0  | 1,402.0  | 1,474.1  | 1,531.6  |
| Statutory Boards' Contributions  | 353.2    | 539.1    | 529.8    | 515.9    | 438.3    | 775.4    | 4,865.8  |
| Assets Taxes                     | 3,901.9  | 3,768.3  | 4,181.9  | 4,340.6  | 4,455.0  | 4,359.5  | 4,439.7  |
| Property Tax                     | 3,898.9  | 3,760.1  | 4,178.8  | 4,340.1  | 4,455.6  | 4,359.2  | 4,439.7  |
| Estate Duty <sup>3</sup>         | 2.9      | 8.2      | 3.1      | 0.5      | -0.6     | 0.3      | 0.0      |
| Customs and Excise Duties        | 2,132.8  | 2,141.7  | 2,189.4  | 2,539.7  | 2,833.0  | 2,730.0  | 3,132.9  |
| Liquors                          | 495.9    | 516.6    | 518.3    | 634.0    | 637.6    | 639.7    | 662.9    |
| Tobacco                          | 967.1    | 969.1    | 1,042.8  | 1,227.7  | 1,205.2  | 985.9    | 1,174.1  |
| Petroleum Products               | 416.4    | 414.8    | 414.2    | 419.4    | 583.8    | 595.9    | 827.2    |
| Motor Vehicles                   | 248.0    | 233.3    | 206.2    | 250.5    | 399.0    | 502.2    | 463.1    |
| Compressed Natural Gas Unit Duty | 0.7      | 3.2      | 2.8      | 2.6      | 2.2      | 1.5      | 0.6      |
| Other Excise Duty                | 4.7      | 4.8      | 5.1      | 5.5      | 5.3      | 5.0      | 4.9      |
| Goods and Services Tax           | 8,687.0  | 9,038.0  | 9,512.7  | 10,215.0 | 10,345.1 | 11,078.3 | 10,959.5 |
| Motor Vehicle Taxes <sup>4</sup> | 1,919.6  | 1,802.9  | 1,654.6  | 1,602.9  | 1,759.7  | 2,148.4  | 2,152.5  |
| Betting Taxes <sup>5</sup>       | 2,373.4  | 2,304.8  | 2,378.8  | 2,591.0  | 2,719.0  | 2,682.0  | 2,688.2  |
| Stamp Duty                       | 3,175.1  | 4,309.5  | 3,929.9  | 2,783.6  | 2,768.9  | 3,278.5  | 4,905.1  |
| Other Taxes <sup>6</sup>         | 3,307.3  | 4,341.8  | 5,248.4  | 6,097.1  | 5,876.2  | 6,044.5  | 6,019.3  |

*(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.

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## 20.2 GOVERNMENT OPERATING REVENUE (continued)

|   | Million Dollars |         |         |         |         |         |         |
|---|-----------------|---------|---------|---------|---------|---------|---------|
|   | FY2011          | FY2012  | FY2013  | FY2014  | FY2015  | FY2016  | FY2017  |
| Fees and Charges  | 4,699.1         | 5,279.8 | 5,624.7 | 6,404.5 | 8,673.6 | 9,759.5 | 9,075.2 |
| Vehicle Quota Premiums  | 2,112.0         | 2,572.1 | 2,721.7 | 3,394.1 | 5,424.8 | 6,550.6 | 5,796.1 |
| Fees and Charges (Excluding<br>Vehicle Quota Premiums) <sup>7</sup> | 2,587.2         | 2,707.7 | 2,903.0 | 3,010.5 | 3,248.8 | 3,208.9 | 3,279.1 |
| Others <sup>8</sup>   | 302.0           | 416.1   | 250.0   | 323.8   | 502.2   | 505.7   | 377.8   |

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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15192](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15192)

## 20.3 GOVERNMENT OPERATING EXPENDITURE BY SECTOR

Million Dollars

|  | FY2011   | FY2012   | FY2013   | FY2014   | FY2015   | FY2016   | FY2017   |
|--|----------|----------|----------|----------|----------|----------|----------|
| Total Operating Expenditure <sup>1</sup>                 | 35,150.0 | 36,420.8 | 39,724.9 | 42,685.2 | 48,090.4 | 52,128.9 | 55,581.2 |
| Social Development                                       | 18,056.3 | 18,495.6 | 20,943.2 | 22,611.8 | 26,258.2 | 28,939.5 | 30,849.3 |
| Education  | 9,697.8  | 9,637.3  | 10,664.9 | 10,712.4 | 11,235.7 | 11,812.2 | 12,079.5 |
| National Development                                     | 1,428.0  | 948.8    | 673.3    | 857.9    | 1,331.6  | 2,284.1  | 3,218.2  |
| Health   | 3,488.8  | 4,066.1  | 5,043.9  | 5,872.4  | 7,519.8  | 8,199.4  | 8,734.4  |
| The Environment and Water Resources                      | 726.4    | 812.7    | 957.5    | 1,048.5  | 1,125.1  | 1,200.7  | 1,248.2  |
| Culture, Community and Youth <sup>2</sup>                | na       | 364.5    | 1,003.0  | 1,335.0  | 1,794.6  | 1,444.0  | 1,586.2  |
| Social and Family Development <sup>2</sup>               | 1,721.5  | 1,739.3  | 1,598.3  | 1,722.4  | 2,121.0  | 2,388.7  | 2,458.7  |
| Communications and Information <sup>2</sup>              | 524.5    | 429.7    | 336.0    | 354.5    | 424.4    | 456.1    | 496.0    |
| Manpower (Financial Security)                            | 469.4    | 497.3    | 666.4    | 708.7    | 706.0    | 1,154.1  | 1,028.2  |
| Security and External Relations                          | 14,088.0 | 14,677.6 | 15,233.3 | 16,289.7 | 17,495.4 | 18,372.2 | 19,013.4 |
| Defence  | 10,796.8 | 11,056.0 | 11,329.1 | 11,866.9 | 12,671.6 | 13,281.2 | 13,582.0 |
| Home Affairs   | 2,947.4  | 3,266.3  | 3,521.9  | 4,029.1  | 4,377.1  | 4,652.0  | 4,996.3  |
| Foreign Affairs  | 343.8    | 355.4    | 382.3    | 393.7    | 446.7    | 438.9    | 435.2    |
| Economic Development                                     | 1,674.6  | 1,869.8  | 2,027.3  | 2,223.7  | 2,631.8  | 2,997.7  | 3,574.5  |
| Transport  | 463.8    | 501.9    | 554.9    | 597.7    | 782.9    | 953.1    | 1,607.3  |
| Trade and Industry                                       | 670.8    | 685.4    | 709.6    | 728.5    | 783.4    | 920.8    | 943.5    |
| Manpower (excluding Financial Security)                  | 379.9    | 455.9    | 495.9    | 519.8    | 611.1    | 634.2    | 645.4    |
| Info-Communications and Media Development <sup>2,3</sup> | 160.1    | 226.6    | 267.0    | 377.7    | 454.4    | 489.6    | 378.3    |

*(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. 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.
- 3 Info-Communications and Media Development expenditure under the Economic Development sector refers to expenditure under the Infocomm Development Authority of Singapore and Media Development Authority prior to 1 October 2016. Thereafter, it refers to that of Info-communications Media Development Authority and Government Technology Agency of Singapore (from October 2016 to March 2017).

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## 20.3 GOVERNMENT OPERATING EXPENDITURE BY SECTOR *(continued)*

Million Dollars

|                                      | FY2011  | FY2012  | FY2013  | FY2014  | FY2015  | FY2016  | FY2017  |
|--------------------------------------|---------|---------|---------|---------|---------|---------|---------|
| Government Administration            | 1,331.1 | 1,377.8 | 1,521.1 | 1,560.0 | 1,704.6 | 1,819.4 | 2,143.9 |
| Finance                              | 616.9   | 630.8   | 711.4   | 681.8   | 739.6   | 824.5   | 833.4   |
| Law                                  | 122.9   | 162.7   | 167.3   | 176.8   | 173.9   | 180.5   | 184.6   |
| Organs of State                      | 318.1   | 325.5   | 352.3   | 383.6   | 410.2   | 440.1   | 473.0   |
| Prime Minister's Office <sup>4</sup> | 273.3   | 258.8   | 290.2   | 317.8   | 380.9   | 374.2   | 653.0   |

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. 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.

4 With effect from 1 May 2017, the Smart Nation and Digital Government Group (SNDGG) was formed under the Prime Minister's Office (PMO), comprising the Digital Government Directorate of the Ministry of Finance (MOF), the Government Technology Policy department and Government Technology Agency (GovTech) of the Ministry of Communications and Information (MCI), and the Smart Nation Programme Office (SNPO) of the PMO.

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## 20.4 GOVERNMENT DEVELOPMENT EXPENDITURE BY SECTOR

Million Dollars

|  | FY2011   | FY2012   | FY2013   | FY2014   | FY2015   | FY2016   | FY2017   |
|--|----------|----------|----------|----------|----------|----------|----------|
| Total Development Expenditure <sup>1</sup>               | 11,413.4 | 12,583.2 | 12,003.0 | 13,963.1 | 19,356.6 | 18,916.1 | 17,975.1 |
| Social Development                                       | 3,603.2  | 3,381.8  | 3,236.3  | 4,595.1  | 5,033.9  | 4,900.0  | 5,618.8  |
| Education  | 1,042.5  | 859.6    | 973.4    | 886.0    | 699.0    | 656.7    | 611.1    |
| National Development                                     | 1,572.1  | 1,353.7  | 900.7    | 1,307.9  | 1,321.0  | 1,248.0  | 1,256.8  |
| Health   | 453.1    | 605.4    | 722.9    | 1,146.8  | 1,413.1  | 1,619.2  | 1,465.4  |
| The Environment and Water Resources                      | 349.0    | 352.3    | 325.2    | 427.3    | 567.3    | 683.8    | 1,549.0  |
| Culture, Community and Youth <sup>2</sup>                | na       | 95.3     | 212.5    | 617.1    | 778.6    | 506.8    | 489.5    |
| Social and Family Development <sup>2</sup>               | 63.6     | 36.8     | 40.7     | 61.8     | 110.6    | 97.4     | 86.6     |
| Communications and Information <sup>2</sup>              | 122.9    | 78.7     | 60.8     | 148.2    | 144.3    | 87.6     | 160.1    |
| Manpower (Financial Security)                            | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.3      |
| Security and External Relations                          | 717.8    | 719.7    | 860.3    | 906.5    | 956.0    | 1,168.8  | 1,449.0  |
| Defence  | 479.4    | 467.7    | 422.4    | 428.6    | 430.9    | 542.9    | 593.7    |
| Home Affairs   | 194.1    | 207.0    | 378.9    | 437.9    | 505.8    | 572.8    | 830.9    |
| Foreign Affairs  | 44.3     | 45.0     | 59.1     | 40.0     | 19.3     | 53.2     | 24.5     |
| Economic Development                                     | 6,895.6  | 7,955.0  | 7,546.6  | 7,923.0  | 12,909.1 | 12,302.8 | 10,297.3 |
| Transport  | 4,002.9  | 5,413.7  | 5,503.8  | 5,488.6  | 10,332.4 | 9,319.2  | 7,571.6  |
| Trade and Industry                                       | 2,552.7  | 2,387.2  | 1,946.6  | 2,101.8  | 2,398.0  | 2,857.6  | 2,688.3  |
| Manpower (excluding Financial Security)                  | 61.7     | 27.7     | 28.3     | 36.7     | 25.5     | 20.5     | 33.5     |
| Info-Communications and Media Development <sup>2,3</sup> | 278.2    | 126.4    | 67.9     | 295.9    | 153.2    | 105.4    | 3.9      |

*(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. 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 Excludes land-related expenditure, Special Transfers, spending from Government Endowment and Trust Funds, and loans to statutory boards, industrial and commercial enterprises.
- 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.
- 3 Info-Communications and Media Development expenditure under the Economic Development sector refers to expenditure under the Infocomm Development Authority of Singapore and Media Development Authority prior to 1 October 2016. Thereafter, it refers to that of Info-communications Media Development Authority and Government Technology Agency of Singapore (from October 2016 to March 2017).

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## 20.4 GOVERNMENT DEVELOPMENT EXPENDITURE BY SECTOR *(continued)*

Million Dollars

|                                      | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 |
|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Government Administration            | 196.9  | 526.6  | 359.8  | 538.5  | 457.4  | 544.5  | 609.8  |
| Finance                              | 29.9   | 24.1   | 25.2   | 43.9   | 53.4   | 71.7   | 62.4   |
| Law                                  | 130.5  | 316.4  | 273.2  | 434.4  | 318.8  | 377.3  | 320.0  |
| Organs of State                      | 16.6   | 163.1  | 21.5   | 22.6   | 47.5   | 55.3   | 104.9  |
| Prime Minister's Office <sup>4</sup> | 19.9   | 23.0   | 40.0   | 37.6   | 37.7   | 40.3   | 122.5  |

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.

<sup>4</sup> With effect from 1 May 2017, the Smart Nation and Digital Government Group (SNDGG) was formed under the Prime Minister's Office (PMO), comprising the Digital Government Directorate of the Ministry of Finance (MOF), the Government Technology Policy department and Government Technology Agency (GovTech) of the Ministry of Communications and Information (MCI), and the Smart Nation Programme Office (SNPO) of the PMO.

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## 20.5 GOVERNMENT DEBT BY INSTRUMENT (as at End of Calendar Year)

|  | Million Dollars |           |           |           |           |           |           |
|--|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
|  | 2012            | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
| Total  | 384,997.6       | 390,407.1 | 387,250.7 | 421,302.1 | 463,165.6 | 502,021.9 | 546,699.5 |
| Domestic Debt                                  | 384,997.6       | 390,407.1 | 387,250.7 | 421,302.1 | 463,165.6 | 502,021.9 | 546,699.5 |
| Registered Stocks and Bonds                    | 304,946.0       | 333,943.8 | 362,741.4 | 396,598.8 | 438,900.9 | 477,882.8 | 520,974.3 |
| Treasury Bills                                 | 60,000.0        | 38,800.0  | 8,000.0   | 8,500.0   | 9,000.0   | 9,500.0   | 10,200.0  |
| Advance Deposits                               | 20,051.6        | 17,663.3  | 16,509.3  | 16,203.3  | 15,264.7  | 14,639.1  | 15,525.3  |
| External Debt                                  | 0.0             | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| Memorandum item : Debt Guarantees <sup>1</sup> | -               | -         | -         | -         | -         | -         | -         |

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 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.

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## 20.6 GOVERNMENT DEBT BY MATURITY (as at End of Calendar Year)

|  | Million Dollars |           |           |           |           |           |           |
|--|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
|  | 2012            | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
| Domestic Debt (excluding Advance Deposits) | 364,946.0       | 372,743.8 | 370,741.4 | 405,098.8 | 447,900.9 | 487,382.8 | 531,174.3 |
| 1 year maturity or less                    | 83,815.5        | 68,894.0  | 32,554.0  | 38,854.0  | 36,212.0  | 41,800.0  | 46,845.3  |
| More than 1 year maturity                  | 281,130.5       | 303,849.8 | 338,187.4 | 366,244.8 | 411,688.9 | 445,582.8 | 484,329.0 |
| 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 (SSB) 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 [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14507](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14507)

## 20.7 TAXABLE INDIVIDUALS BY ASSESSED INCOME GROUP, YEAR OF ASSESSMENT 2017

|                               | Unit | Total     | Assessed Income Group (\$) |               |               |               |               |               |
|-------------------------------|------|-----------|----------------------------|---------------|---------------|---------------|---------------|---------------|
|                               |      |           | 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.  | 1,819,153 | 24,628                     | 74,652        | 141,765       | 335,366       | 250,128       | 190,004       |
| Tax resident                  | No.  | 1,782,734 | 0                          | 72,394        | 140,017       | 332,976       | 248,738       | 189,069       |
| Non-tax resident <sup>1</sup> | No.  | 36,419    | 24,628                     | 2,258         | 1,748         | 2,390         | 1,390         | 935           |
| Assessable Income             | \$m  | 163,040   | 190                        | 1,732         | 3,941         | 11,673        | 11,197        | 10,431        |
| Tax resident                  | \$m  | 162,069   | 0                          | 1,682         | 3,893         | 11,590        | 11,135        | 10,380        |
| Non-tax resident <sup>1</sup> | \$m  | 971       | 190                        | 51            | 48            | 83            | 62            | 51            |
| Net Tax Assessed              | \$m  | 10,648    | 36                         | 13            | 20            | 67            | 93            | 128           |
| Tax resident                  | \$m  | 10,465    | 0                          | 3             | 11            | 51            | 81            | 118           |
| Non-tax resident <sup>1</sup> | \$m  | 183       | 36                         | 10            | 10            | 16            | 12            | 10            |

|                               | Unit | Assessed Income Group (\$) |                |                 |                 |                 |                   |                   |
|-------------------------------|------|----------------------------|----------------|-----------------|-----------------|-----------------|-------------------|-------------------|
|                               |      | 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.  | 240,679                    | 143,931        | 189,877         | 87,946          | 73,045          | 61,893            | 5,239             |
| Tax resident                  | No.  | 239,540                    | 143,289        | 189,199         | 87,686          | 72,852          | 61,762            | 5,212             |
| Non-tax resident <sup>1</sup> | No.  | 1,139                      | 642            | 678             | 260             | 193             | 131               | 27                |
| Assessable Income             | \$m  | 16,620                     | 12,857         | 23,106          | 15,132          | 17,649          | 28,490            | 10,022            |
| Tax resident                  | \$m  | 16,542                     | 12,800         | 23,024          | 15,087          | 17,602          | 28,430            | 9,905             |
| Non-tax resident <sup>1</sup> | \$m  | 78                         | 57             | 81              | 45              | 47              | 59                | 118               |
| Net Tax Assessed              | \$m  | 294                        | 316            | 908             | 942             | 1,623           | 4,181             | 2,029             |
| Tax resident                  | \$m  | 280                        | 306            | 893             | 934             | 1,615           | 4,170             | 2,003             |
| Non-tax resident <sup>1</sup> | \$m  | 14                         | 10             | 14              | 8               | 8               | 11                | 25                |

Source : Inland Revenue Authority of Singapore

<sup>1</sup> Refers to an individual who has worked in Singapore for less than 183 days in the previous year (i.e. 2016 for Year of Assessment 2017).

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14548](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14548)

## 20.8 TAXABLE COMPANIES BY CHARGEABLE INCOME GROUP, YEAR OF ASSESSMENT 2017

|                               | Unit | Total   | Chargeable Income Group (\$) |               |               |               |                |
|-------------------------------|------|---------|------------------------------|---------------|---------------|---------------|----------------|
|                               |      |         | 10,000 & below               | 10,001-20,000 | 20,001-30,000 | 30,001-60,000 | 60,001-100,000 |
| Companies                     | No.  | 76,364  | 19,428                       | 7,617         | 5,504         | 12,766        | 7,158          |
| Tax resident                  | No.  | 74,331  | 19,062                       | 7,369         | 5,265         | 12,420        | 6,963          |
| Non-tax resident <sup>1</sup> | No.  | 2,033   | 366                          | 248           | 239           | 346           | 195            |
| Chargeable Income             | \$m  | 120,765 | 64                           | 111           | 136           | 520           | 560            |
| Tax resident                  | \$m  | 111,866 | 62                           | 108           | 130           | 505           | 545            |
| Non-tax resident <sup>1</sup> | \$m  | 8,899   | 2                            | 4             | 6             | 14            | 15             |
| Net Tax Assessed              | \$m  | 14,377  | 6                            | 10            | 12            | 54            | 50             |
| Tax resident                  | \$m  | 13,282  | 5                            | 10            | 12            | 53            | 49             |
| Non-tax resident <sup>1</sup> | \$m  | 1,095   | 0                            | 0             | 1             | 1             | 1              |

|                               | Unit | Chargeable Income Group (\$) |                 |                   |                     |                     |                   |
|-------------------------------|------|------------------------------|-----------------|-------------------|---------------------|---------------------|-------------------|
|                               |      | 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.  | 10,292                       | 3,414           | 3,424             | 3,472               | 1,005               | 2,284             |
| Tax resident                  | No.  | 10,084                       | 3,350           | 3,326             | 3,371               | 976                 | 2,145             |
| Non-tax resident <sup>1</sup> | No.  | 208                          | 64              | 98                | 101                 | 29                  | 139               |
| Chargeable Income             | \$m  | 1,749                        | 1,320           | 2,432             | 5,934               | 3,909               | 104,031           |
| Tax resident                  | \$m  | 1,714                        | 1,295           | 2,360             | 5,753               | 3,802               | 95,592            |
| Non-tax resident <sup>1</sup> | \$m  | 35                           | 25              | 72                | 180                 | 107                 | 8,439             |
| Net Tax Assessed              | \$m  | 157                          | 139             | 325               | 899                 | 611                 | 12,113            |
| Tax resident                  | \$m  | 154                          | 136             | 315               | 872                 | 594                 | 11,082            |
| Non-tax resident <sup>1</sup> | \$m  | 3                            | 3               | 10                | 27                  | 17                  | 1,031             |

Source : Inland Revenue Authority of Singapore

<sup>1</sup> Refers to a company where the control and management of its business is not exercised in Singapore.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14549](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14549)

## 20.9 TAXABLE COMPANIES BY ECONOMIC SECTOR , YEAR OF ASSESSMENT 2017

|  | No. of<br>Companies | Chargeable<br>Income (\$m) | Net Tax<br>Assessed (\$m) |
|--|---------------------|----------------------------|---------------------------|
| Total  | 76,364              | 120,765                    | 14,377                    |
| Manufacturing                                  | 4,912               | 16,137                     | 1,617                     |
| Construction                                   | 5,929               | 3,074                      | 476                       |
| Utilities <sup>1</sup>                         | 202                 | 882                        | 148                       |
| Other Goods Industries <sup>2</sup>            | 172                 | 343                        | 35                        |
| Wholesale & Retail Trade                       | 20,275              | 29,261                     | 3,097                     |
| Accommodation & Food Service Activities        | 2,472               | 1,331                      | 211                       |
| Transportation & Storage                       | 3,707               | 4,982                      | 734                       |
| Information & Communications                   | 3,901               | 3,916                      | 601                       |
| Financial & Insurance Activities               | 9,726               | 31,465                     | 3,816                     |
| Real Estate & Business Activities <sup>3</sup> | 18,386              | 26,621                     | 3,252                     |
| Others <sup>4</sup>                            | 6,682               | 2,753                      | 391                       |

Source : Inland Revenue Authority of Singapore

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

- 1 Includes Electricity, Gas, Steam & 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.

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## 20.10 SOURCES AND USES OF DEVELOPMENT FUND

|   | Million Dollars |         |         |         |        |        |        |
|---|-----------------|---------|---------|---------|--------|--------|--------|
|   | FY2011          | FY2012  | FY2013  | FY2014  | FY2015 | FY2016 | FY2017 |
| Balance (Beginning of Financial Year)   | 98,712          | 103,567 | 104,202 | 100,736 | 98,498 | 94,654 | 94,905 |
| Sources                                 |                 |         |         |         |        |        |        |
| Total                                   | 20,461          | 17,364  | 14,825  | 18,162  | 25,040 | 27,637 | 39,263 |
| Consolidated Revenue Account            | 12,200          | 8,685   | 5,579   | 7,200   | 14,000 | 17,772 | 23,000 |
| Consolidated Loan Account               | 0               | 0       | 0       | 0       | 0      | 0      | 0      |
| Others                                  | 8,261           | 8,679   | 9,247   | 10,962  | 11,040 | 9,865  | 16,263 |
| Uses                                    |                 |         |         |         |        |        |        |
| Total                                   | 15,606          | 16,730  | 18,291  | 20,399  | 28,884 | 27,386 | 25,939 |
| Government Development Expenditure      | 12,929          | 13,855  | 13,222  | 15,331  | 20,759 | 20,689 | 19,759 |
| Loans to Statutory Boards & Enterprises | 2,677           | 2,875   | 5,069   | 5,068   | 8,125  | 6,697  | 6,180  |
| 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.

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## 20.11 GENERAL GOVERNMENT FINANCE

|   | Million Dollars |         |         |        |        |        |        |
|---|-----------------|---------|---------|--------|--------|--------|--------|
|   | FY2011          | FY2012  | FY2013  | FY2014 | FY2015 | FY2016 | FY2017 |
| Cash surplus/Deficit <sup>1</sup>                         | 31,889          | 31,185  | 31,006  | 28,332 | 17,778 | 22,209 | 35,873 |
| Net cash inflow from operating activities                 | 14,927          | 18,781  | 18,721  | 19,428 | 8,772  | 17,735 | 27,887 |
| Cash receipts from operating activities                   | 59,806          | 64,449  | 66,350  | 71,894 | 76,208 | 81,396 | 95,696 |
| Cash payments for operating activities                    | 44,879          | 45,668  | 47,629  | 52,466 | 67,436 | 63,661 | 67,809 |
| Net cash outflow from investments in non-financial assets | -16,962         | -12,404 | -12,285 | -8,904 | -9,006 | -4,474 | -7,985 |
| Purchases of non-financial assets                         | 5,904           | 6,032   | 5,265   | 6,022  | 6,536  | 8,041  | 7,889  |
| Sales of non-financial assets                             | 22,866          | 18,436  | 17,550  | 14,926 | 15,542 | 12,515 | 15,874 |
| Net cash inflow from financing activities <sup>2</sup>    | 39,364          | 32,447  | -15,314 | 15,454 | 37,567 | 41,995 | 40,393 |
| Net incurrence of liabilities                             | 36,461          | 29,457  | -14,899 | 14,652 | 40,115 | 43,201 | 37,528 |
| Domestic  | 36,461          | 29,457  | -14,899 | 14,652 | 40,115 | 43,201 | 37,528 |
| Foreign   | 0               | 0       | 0       | 0      | 0      | 0      | 0      |
| Net acquisition of financial assets other than cash       | -2,903          | -2,991  | 415     | -802   | 2,548  | 1,206  | -2,865 |
| Domestic excluding cash                                   | -2,903          | -2,991  | 415     | -802   | 2,548  | 1,206  | -2,865 |
| 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 FY2015 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 Reflects the net issuance of Government securities and lending minus repayments.

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## 20.12 GOVERNMENT FINANCE

|   | Million Dollars |         |         |        |        |        |        |
|---|-----------------|---------|---------|--------|--------|--------|--------|
|   | FY2011          | FY2012  | FY2013  | FY2014 | FY2015 | FY2016 | FY2017 |
| Cash surplus/deficit <sup>1</sup>                         | 27,366          | 25,321  | 25,262  | 22,358 | 11,006 | 13,879 | 29,899 |
| Net cash inflow from operating activities                 | 10,404          | 12,917  | 12,977  | 13,454 | 2,000  | 9,405  | 21,913 |
| Cash receipts from operating activities                   | 58,454          | 62,932  | 64,750  | 69,973 | 74,244 | 78,511 | 91,960 |
| Cash payments for operating activities                    | 48,050          | 50,015  | 51,773  | 56,519 | 72,244 | 69,106 | 70,047 |
| Net cash outflow from investments in non-financial assets | -16,962         | -12,404 | -12,285 | -8,904 | -9,006 | -4,474 | -7,985 |
| Purchases of non-financial assets                         | 5,904           | 6,032   | 5,265   | 6,022  | 6,536  | 8,041  | 7,889  |
| Sales of non-financial assets                             | 22,866          | 18,436  | 17,550  | 14,926 | 15,542 | 12,515 | 15,874 |
| Net cash inflow from financing activities <sup>2</sup>    | 39,364          | 32,447  | -15,314 | 15,454 | 37,567 | 41,995 | 40,393 |
| Net incurrence of liabilities                             | 36,461          | 29,457  | -14,899 | 14,652 | 40,115 | 43,201 | 37,528 |
| Domestic  | 36,461          | 29,457  | -14,899 | 14,652 | 40,115 | 43,201 | 37,528 |
| Foreign   | 0               | 0       | 0       | 0      | 0      | 0      | 0      |
| Net acquisition of financial assets other than cash       | -2,903          | -2,991  | 415     | -802   | 2,548  | 1,206  | -2,865 |
| Domestic excluding cash                                   | -2,903          | -2,991  | 415     | -802   | 2,548  | 1,206  | -2,865 |
| 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 Reflects the net issuance of Government securities and lending minus repayments.

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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 2018-based series is compiled using the 'modified Laspeyres' formula, where the weight reference period of 2017 preceded the price reference period of 2018.

The weights for Singapore manufactured products are derived from production data collected in the 2017 Census of Manufacturing Activities. 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. Prices of imported goods and ex-factory prices are collected from selected importers and local manufacturers respectively every month.

Indices at the commodity division and commodity section levels can be found on the [SingStat Website](#) via the following selections: Economy → Prices and Price Indices → Producer Price Indices. Analyses of price changes are published in the monthly report on [Singapore Manufactured Products & Domestic Supply Price Indices](#).

## Import & Export 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 2018-based series is compiled using the Laspeyres formula, where the price and weight reference periods are aligned to the year 2018.

## Prices

The weights for the imported and exported products are derived from the import and export statistics in 2018. 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 and Price Indices → 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

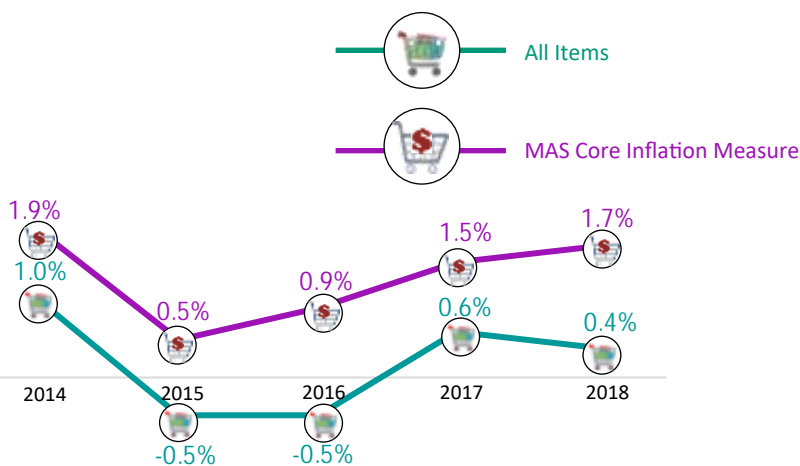
market prices. Construction material market prices are computed based on the average market prices of construction materials for the respective years.

### 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. Since the fourth quarter of 2013, the Industrial Property Price Index, previously released by URA, has been compiled by the JTC Corporation.

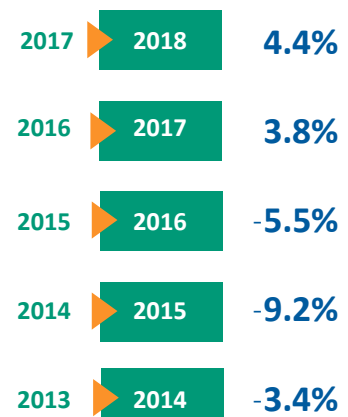
### Key Indicators

**Consumer Price Index (2014=100)  
(Year-on-Year Change)**



\* Excludes the components of "Accommodation" and "Private Road Transport"

**Singapore Manufactured Products  
Price Index (2018=100)  
(Year-on-Year Change)**



## 21.1 CONSUMER PRICE INDEX

(2014 = 100)

| Division and Group   | Weights <sup>1</sup> | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|--|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Consumer Price Index   |                      |       |       |       |       |       |       |       |
| All Items  | 10,000               | 96.7  | 99.0  | 100.0 | 99.5  | 98.9  | 99.5  | 99.9  |
| Food   | 2,167                | 95.1  | 97.1  | 100.0 | 101.9 | 104.0 | 105.5 | 107.0 |
| Clothing & Footwear  | 273                  | 100.5 | 100.8 | 100.0 | 100.1 | 100.3 | 100.9 | 102.3 |
| Housing & Utilities  | 2,625                | 97.1  | 99.9  | 100.0 | 96.5  | 92.5  | 90.2  | 89.0  |
| Household Durables & Services  | 475                  | 93.6  | 98.2  | 100.0 | 99.4  | 101.2 | 102.2 | 103.0 |
| Health Care  | 615                  | 93.7  | 97.3  | 100.0 | 99.9  | 101.0 | 103.5 | 105.6 |
| Transport  | 1,579                | 99.0  | 101.2 | 100.0 | 98.6  | 96.2  | 98.7  | 98.2  |
| Communication  | 385                  | 101.6 | 100.2 | 100.0 | 100.3 | 99.9  | 100.5 | 99.5  |
| Recreation & Culture   | 788                  | 97.1  | 98.2  | 100.0 | 100.3 | 101.2 | 101.6 | 102.8 |
| Education  | 615                  | 93.1  | 96.7  | 100.0 | 103.4 | 106.6 | 109.8 | 113.0 |
| Miscellaneous Goods & Services   | 478                  | 96.9  | 98.7  | 99.9  | 99.9  | 100.1 | 100.3 | 101.2 |
| All Items less Imputed Rentals on<br>Owner-Occupied Accommodation <sup>2</sup> | 8,101                | 97.0  | 98.8  | 100.0 | 100.1 | 100.3 | 102.0 | 103.3 |
| All Items less Accommodation   | 7,713                | 96.9  | 98.8  | 100.0 | 100.1 | 100.4 | 102.3 | 103.6 |
| MAS Core Inflation Measure <sup>3</sup>  | 6,564                | 96.4  | 98.1  | 100.0 | 100.5 | 101.4 | 102.8 | 104.6 |
| Percentage Change Over Previous Year   |                      |       |       |       |       |       |       |       |
| All Items  | 10,000               | 4.6   | 2.4   | 1.0   | -0.5  | -0.5  | 0.6   | 0.4   |
| Food   | 2,167                | 2.3   | 2.1   | 2.9   | 1.9   | 2.1   | 1.4   | 1.4   |
| Clothing & Footwear  | 273                  | 1.5   | 0.3   | -0.8  | 0.1   | 0.2   | 0.6   | 1.4   |
| Housing & Utilities  | 2,625                | 8.4   | 2.8   | 0.1   | -3.5  | -4.1  | -2.5  | -1.3  |
| Household Durables & Services  | 475                  | 2.4   | 4.9   | 1.8   | -0.6  | 1.8   | 1.1   | 0.8   |
| Health Care  | 615                  | 4.4   | 3.8   | 2.8   | -0.1  | 1.1   | 2.5   | 2.0   |
| Transport  | 1,579                | 7.1   | 2.3   | -1.2  | -1.4  | -2.4  | 2.6   | -0.5  |
| Communication  | 385                  | -0.1  | -1.4  | -0.2  | 0.3   | -0.4  | 0.6   | -1.0  |
| Recreation & Culture   | 788                  | 1.0   | 1.1   | 1.8   | 0.3   | 0.9   | 0.3   | 1.2   |
| Education  | 615                  | 4.1   | 3.8   | 3.4   | 3.4   | 3.1   | 3.0   | 2.9   |
| Miscellaneous Goods & Services   | 478                  | 1.1   | 1.9   | 1.2   | 0.0   | 0.3   | 0.1   | 1.0   |
| All Items less Imputed Rentals on<br>Owner-Occupied Accommodation <sup>2</sup> | 8,101                | 3.6   | 1.9   | 1.2   | 0.1   | 0.3   | 1.7   | 1.3   |
| All Items less Accommodation   | 7,713                | 3.5   | 1.9   | 1.2   | 0.1   | 0.3   | 1.8   | 1.4   |
| MAS Core Inflation Measure <sup>3</sup>  | 6,564                | 2.5   | 1.7   | 1.9   | 0.5   | 0.9   | 1.5   | 1.7   |

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.

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 Excludes the components of "Accommodation" and "Private Road Transport".

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[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12008](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12008)

## 21.2 CONSUMER PRICE INDEX FOR HOUSEHOLDS IN DIFFERENT INCOME GROUPS

(2014 = 100)

| Income Group                         | All Items | Food   | Clothing & Footwear | Housing & Utilities | Household Durables & Services | Health Care | Transport | Communication | Recreation & Culture | Education | Miscellaneous Goods & Services | All Items less Imputed Rentals on Owner-Occupied Accommodation <sup>2</sup> |       |
|--------------------------------------|-----------|--------|---------------------|---------------------|-------------------------------|-------------|-----------|---------------|----------------------|-----------|--------------------------------|---|-------|
| Weights <sup>1</sup> Per 10,000      |           |        |                     |                     |                               |             |           |               |                      |           |                                |   |       |
| Lowest                               | 20%       | 10,000 | 2,435               | 157                 | 4,002                         | 359         | 812       | 732           | 397                  | 466       | 261                            | 379   | 7,076 |
| Middle                               | 60%       | 10,000 | 2,360               | 283                 | 2,615                         | 432         | 623       | 1,404         | 453                  | 737       | 602                            | 491   | 8,104 |
| Highest                              | 20%       | 10,000 | 1,835               | 280                 | 2,396                         | 555         | 562       | 1,984         | 288                  | 920       | 700                            | 480   | 8,263 |
| Consumer Price Index                 |           |        |                     |                     |                               |             |           |               |                      |           |                                |   |       |
| 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 |
| 2017                                 |           |        |                     |                     |                               |             |           |               |                      |           |                                |   |       |
| Lowest                               | 20%       | 97.7   | 105.1               | 101.5               | 90.3                          | 101.8       | 99.2      | 100.4         | 100.1                | 102.0     | 107.2                          | 100.2   | 101.6 |
| Middle                               | 60%       | 99.7   | 105.4               | 100.8               | 90.0                          | 101.9       | 103.3     | 100.0         | 100.4                | 101.5     | 109.5                          | 100.1   | 102.3 |
| Highest                              | 20%       | 99.6   | 105.7               | 100.8               | 90.4                          | 102.6       | 105.1     | 97.3          | 100.8                | 101.6     | 110.2                          | 100.4   | 101.8 |
| 2018                                 |           |        |                     |                     |                               |             |           |               |                      |           |                                |   |       |
| Lowest                               | 20%       | 98.0   | 106.7               | 102.8               | 88.9                          | 102.4       | 101.6     | 99.9          | 99.2                 | 103.2     | 110.5                          | 102.8   | 103.5 |
| Middle                               | 60%       | 100.1  | 106.9               | 102.2               | 88.6                          | 102.6       | 105.5     | 99.3          | 99.4                 | 102.6     | 112.6                          | 101.5   | 103.6 |
| Highest                              | 20%       | 100.0  | 107.2               | 102.2               | 89.4                          | 103.5       | 107.0     | 97.0          | 99.8                 | 102.8     | 113.3                          | 100.5   | 102.9 |
| Percentage Change Over Previous Year |           |        |                     |                     |                               |             |           |               |                      |           |                                |   |       |
| 2016                                 |           |        |                     |                     |                               |             |           |               |                      |           |                                |   |       |
| Lowest                               | 20%       | -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   |
| 2017                                 |           |        |                     |                     |                               |             |           |               |                      |           |                                |   |       |
| Lowest                               | 20%       | -0.1   | 1.5                 | 0.8                 | -2.6                          | 0.8         | 3.2       | 1.0           | 0.5                  | 0.0       | 3.1                            | -0.1  | 1.8   |
| Middle                               | 60%       | 0.5    | 1.4                 | 0.5                 | -2.6                          | 0.8         | 2.6       | 2.3           | 0.6                  | 0.2       | 3.0                            | -0.1  | 1.7   |
| Highest                              | 20%       | 0.8    | 1.3                 | 0.7                 | -2.4                          | 1.3         | 2.1       | 3.0           | 0.5                  | 0.4       | 3.1                            | 0.5   | 1.8   |
| 2018                                 |           |        |                     |                     |                               |             |           |               |                      |           |                                |   |       |
| Lowest                               | 20%       | 0.2    | 1.5                 | 1.3                 | -1.6                          | 0.6         | 2.4       | -0.5          | -0.9                 | 1.2       | 3.1                            | 2.6   | 1.8   |
| Middle                               | 60%       | 0.4    | 1.4                 | 1.4                 | -1.5                          | 0.7         | 2.1       | -0.7          | -1.0                 | 1.1       | 2.9                            | 1.4   | 1.3   |
| Highest                              | 20%       | 0.5    | 1.5                 | 1.3                 | -1.1                          | 0.9         | 1.8       | -0.3          | -1.0                 | 1.3       | 2.8                            | 0.1   | 1.1   |

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.

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.

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## 21.3 PRICE INDICES OF SELECTED CONSUMER ITEMS

(2014 = 100)

| Item  | Weights <sup>1</sup> | 2012 | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|---|----------------------|------|-------|-------|-------|-------|-------|-------|
| Health Care   |                      |      |       |       |       |       |       |       |
| Medical & Dental Treatment  | 475                  | 92.8 | 96.8  | 100.0 | 99.6  | 101.0 | 104.3 | 107.0 |
| Consultation Fees at<br>Polyclinics &<br>General Practitioners            | 57                   | 96.6 | 99.6  | 100.0 | 87.7  | 89.5  | 91.6  | 93.2  |
| Transport   |                      |      |       |       |       |       |       |       |
| Petrol  | 250                  | 97.0 | 99.4  | 100.0 | 95.3  | 91.5  | 99.9  | 106.5 |
| Overall Bus & Train Fares   | 174                  | 97.8 | 97.8  | 100.0 | 102.7 | 101.7 | 97.5  | 95.4  |
| Taxi Fares  | 105                  | 99.1 | 99.2  | 100.0 | 100.3 | 100.7 | 100.7 | 100.7 |
| Education   |                      |      |       |       |       |       |       |       |
| Miscellaneous Fees<br>for Primary Schools                                 | 25                   | 82.8 | 99.7  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| School & Miscellaneous Fees<br>for Secondary Schools &<br>Junior Colleges | 40                   | 86.7 | 101.6 | 100.0 | 100.1 | 101.3 | 103.6 | 103.3 |
| Tuition Fees for Polytechnics<br>& Local Universities                     | 107                  | 93.6 | 97.0  | 100.0 | 102.7 | 105.6 | 108.4 | 110.8 |

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.

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## 21.4 AVERAGE RETAIL PRICES OF SELECTED CONSUMER ITEMS

|                                |                      |       |       |       |       |       |       |       | Dollar |
|--------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|--------|
| Item                           | Unit                 | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |        |
| <b>Bread &amp; Cereals</b>     |                      |       |       |       |       |       |       |       |        |
| Thai Rice 100% Fragrant        | Per 5 kg pkt         | 12.67 | 12.78 | 13.07 | 13.07 | 13.13 | 13.01 | 13.06 |        |
| Ordinary White Bread           | Per 400 g            | 1.46  | 1.49  | 1.57  | 1.60  | 1.62  | 1.63  | 1.68  |        |
| Vitamin Enriched Bread         | Per 400 g            | 1.60  | 1.68  | 1.88  | 1.88  | 1.88  | 1.80  | 1.83  |        |
| Wholemeal Bread                | Per 420 g            | na    | na    | 2.14  | 2.14  | 2.14  | 2.14  | 2.13  |        |
| Instant Noodles                | Per 5 pkts           | 2.23  | 2.23  | 2.21  | 2.19  | 2.26  | 2.26  | 2.27  |        |
| <b>Meat</b>                    |                      |       |       |       |       |       |       |       |        |
| Chilled Lean Pork              | Per kg               | 13.07 | 13.14 | 13.21 | 13.32 | 13.81 | 13.70 | 13.73 |        |
| Chilled Streaky Pork           | Per kg               | 14.40 | 14.67 | 14.88 | 15.04 | 15.76 | 15.73 | 15.78 |        |
| Chilled Pork Rib Bones         | Per kg               | 16.48 | 16.40 | 16.44 | 16.72 | 17.20 | 17.33 | 17.31 |        |
| Chilled Beef                   | Per kg               | 21.96 | 21.43 | 21.64 | 22.15 | 22.93 | 23.26 | 23.79 |        |
| Chilled Mutton                 | Per kg               | 17.79 | 17.89 | 17.79 | 18.15 | 18.27 | 18.27 | 18.53 |        |
| Hen                            | Per kg               | 5.87  | 5.96  | 6.14  | 6.11  | 6.35  | 6.58  | 6.44  |        |
| Chilled Chicken Wing           | Per kg               | na    | na    | 7.87  | 7.89  | 8.04  | 8.03  | 8.05  |        |
| Duck                           | Per kg               | 6.75  | 6.87  | 6.83  | 6.95  | 7.09  | 7.33  | 7.38  |        |
| <b>Fish &amp; Seafood</b>      |                      |       |       |       |       |       |       |       |        |
| Cod Fish                       | Per kg               | 48.85 | 49.58 | 48.60 | 51.61 | 59.51 | 65.05 | 65.39 |        |
| Gold Banded Scad (Kuning)      | Per kg               | 6.57  | 6.57  | 6.77  | 6.96  | 6.98  | 7.25  | 7.92  |        |
| Flowery Grouper                | Per kg               | 14.62 | 14.63 | 13.79 | 13.88 | 14.44 | 14.19 | 13.78 |        |
| White Pomfret                  | Per kg               | 24.76 | 24.70 | 25.02 | 26.29 | 27.66 | 28.69 | 29.68 |        |
| Salmon                         | Per kg               | 25.41 | 26.23 | 27.42 | 27.26 | 28.87 | 31.28 | 30.96 |        |
| Sea Bass                       | Per kg               | 12.46 | 12.29 | 12.35 | 11.97 | 12.45 | 12.19 | 11.99 |        |
| Sea Bream (Kerisi)             | Per kg               | 8.27  | 8.43  | 8.61  | 8.60  | 8.81  | 9.01  | 9.85  |        |
| Golden Snapper                 | Per kg               | 16.77 | 17.71 | 18.04 | 18.78 | 18.66 | 18.57 | 18.95 |        |
| Spanish Mackerel (Tenggiri)    | Per kg               | 10.97 | 11.07 | 11.36 | 11.61 | 11.57 | 12.20 | 12.40 |        |
| Kurau (Cut)                    | Per kg               | 44.80 | 48.53 | 51.18 | 52.93 | 56.95 | 57.28 | 59.01 |        |
| Small Prawns                   | Per kg               | 11.17 | 11.69 | 12.92 | 13.19 | 13.39 | 14.07 | 14.45 |        |
| Medium Prawns                  | Per kg               | 17.23 | 17.88 | 18.69 | 18.65 | 18.80 | 19.15 | 19.60 |        |
| Large Prawns                   | Per kg               | 23.53 | 24.71 | 24.78 | 24.71 | 24.50 | 25.04 | 25.91 |        |
| Squids                         | Per kg               | 11.32 | 11.97 | 12.72 | 13.30 | 14.51 | 14.97 | 16.24 |        |
| Fish Balls                     | Per 10               | 1.91  | 1.90  | 1.92  | 1.97  | 2.05  | 2.07  | 2.08  |        |
| <b>Milk, Cheese &amp; Eggs</b> |                      |       |       |       |       |       |       |       |        |
| Fresh Milk                     | Per 1 litre pkt      | 2.88  | 2.93  | 2.87  | 2.84  | 2.81  | 2.81  | 2.86  |        |
| Infant Milk Powder             | Per 900 g tin        | 40.28 | 44.30 | 51.01 | 53.69 | 56.06 | 56.65 | 56.76 |        |
| Cheese                         | Per pkt of 12 slices | 5.07  | 4.85  | 4.74  | 4.77  | 4.56  | 4.48  | 4.74  |        |
| Hen Eggs                       | Per 10               | 1.88  | 1.94  | 2.14  | 2.22  | 2.17  | 2.09  | 2.14  |        |

(continued on the next page)

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.

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## 21.4 AVERAGE RETAIL PRICES OF SELECTED CONSUMER ITEMS *(continued)*

|   |                      |       |       |       |       |       |       | Dollars |
|---|----------------------|-------|-------|-------|-------|-------|-------|---------|
| Item  | Unit                 | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018    |
| <b>Oil &amp; Fats</b>                       |                      |       |       |       |       |       |       |         |
| Cooking Oil                                 | Per 2 kg bottle      | 5.99  | 5.67  | 6.50  | 6.31  | 6.00  | 5.96  | 5.96    |
| <b>Fruits</b>                               |                      |       |       |       |       |       |       |         |
| Bananas (Emas)                              | Per kg               | 1.65  | 1.81  | 2.12  | 2.18  | 2.31  | 2.35  | 2.34    |
| Papaya                                      | Per kg               | 1.79  | 1.92  | 2.15  | 1.96  | 1.97  | 1.96  | 2.17    |
| Watermelon                                  | Per kg               | 1.34  | 1.46  | 1.65  | 1.61  | 1.52  | 1.55  | 1.65    |
| Orange                                      | Each                 | 0.34  | 0.36  | 0.35  | 0.39  | 0.43  | 0.44  | 0.44    |
| Apple                                       | Each                 | 0.40  | 0.42  | 0.45  | 0.45  | 0.43  | 0.42  | 0.43    |
| Grapes                                      | Per kg               | 7.88  | 8.43  | 8.92  | 9.25  | 9.26  | 9.69  | 9.89    |
| Pear  | Each                 | 0.93  | 0.95  | 0.97  | 0.94  | 0.99  | 1.01  | 1.03    |
| <b>Vegetables</b>                           |                      |       |       |       |       |       |       |         |
| Broccoli                                    | Per kg               | 7.54  | 7.38  | 6.06  | 5.90  | 6.31  | 6.09  | 5.68    |
| Cabbage                                     | Per kg               | 1.91  | 1.94  | 2.01  | 2.09  | 2.26  | 2.25  | 2.23    |
| Kale  | Per kg               | 4.13  | 4.31  | 5.14  | 5.17  | 5.89  | 5.82  | 5.54    |
| Small Mustard                               | Per kg               | 2.97  | 3.04  | 3.20  | 3.18  | 3.32  | 3.33  | 3.46    |
| Spinach (Bayam)                             | Per kg               | 2.79  | 2.81  | 2.79  | 2.78  | 2.81  | 2.88  | 3.03    |
| Tomatoes                                    | Per kg               | 2.00  | 2.20  | 2.33  | 2.37  | 2.25  | 2.27  | 2.25    |
| Potatoes                                    | Per kg               | 1.71  | 1.78  | 1.95  | 1.98  | 2.07  | 2.18  | 2.23    |
| Carrots                                     | Per kg               | 1.96  | 1.98  | 2.04  | 2.07  | 2.13  | 2.16  | 2.16    |
| <b>Sugar, Preserves &amp; Confectionery</b> |                      |       |       |       |       |       |       |         |
| Sugar                                       | Per 2 kg pkt         | 3.34  | 3.28  | 3.19  | 3.13  | 3.09  | 3.19  | 3.22    |
| <b>Non-Alcoholic Beverages</b>              |                      |       |       |       |       |       |       |         |
| Instant Coffee                              | Per 200 g bottle     | 10.07 | 9.96  | 9.94  | 10.11 | 10.27 | 10.34 | 10.12   |
| Aerated Soft Drinks                         | Per 330 ml can       | 0.67  | 0.68  | 0.68  | 0.69  | 0.69  | 0.70  | 0.71    |
| Non-Aerated,<br>Soft Drinks                 | Per 6 pkts of 250 ml | 2.38  | 2.42  | 2.49  | 2.46  | 2.40  | 2.33  | 2.37    |
| <b>Alcoholic Drinks &amp; Tobacco</b>       |                      |       |       |       |       |       |       |         |
| Beer  | Per 330 ml can       | 3.10  | 3.10  | 3.22  | 3.30  | 3.26  | 3.15  | 3.09    |
| Cigarettes                                  | Per 20-stick pack    | 10.80 | 10.86 | 11.82 | 11.99 | 12.04 | 12.11 | 13.02   |
| <b>Petroleum Related Products</b>           |                      |       |       |       |       |       |       |         |
| Diesel                                      | Per litre            | 1.50  | 1.51  | 1.50  | 1.17  | 1.04  | 1.34  | 1.56    |
| Petrol, 98 Octane                           | Per litre            | 2.13  | 2.20  | 2.22  | 2.19  | 2.17  | 2.33  | 2.47    |
| Petrol, 95 Octane                           | Per litre            | 2.00  | 2.05  | 2.05  | 1.92  | 1.82  | 2.00  | 2.14    |
| Petrol, 92 Octane                           | Per litre            | 1.95  | 1.99  | 2.00  | 1.87  | 1.77  | 1.95  | 2.08    |
| Liquefied Petroleum Gas                     | Per kg               | 3.15  | 3.20  | 3.34  | 3.04  | 3.08  | 3.35  | 3.47    |

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.

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## 21.5 DOMESTIC SUPPLY PRICE INDEX

(2018 =100)

| Item  | Weights <sup>1</sup> | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|---|----------------------|-------|-------|-------|-------|-------|-------|-------|
| All Items                                     | 10,000               | 118.4 | 115.3 | 111.4 | 94.3  | 87.8  | 94.0  | 100.0 |
| Non-Oil Items                                 | 7,212                | 107.1 | 105.1 | 104.1 | 102.7 | 99.2  | 100.2 | 100.0 |
| Food & Live Animals                           | 319                  | 99.4  | 101.3 | 104.2 | 101.2 | 99.2  | 101.0 | 100.0 |
| Live animals                                  | 10                   | 107.0 | 109.0 | 111.0 | 110.0 | 109.0 | 106.3 | 100.0 |
| Meat & meat preparations                      | 56                   | 101.3 | 102.4 | 104.6 | 101.6 | 98.5  | 104.1 | 100.0 |
| Dairy products & birds' eggs                  | 43                   | 104.2 | 114.1 | 121.2 | 104.5 | 94.6  | 101.2 | 100.0 |
| Fish, seafood & preparations                  | 42                   | 89.3  | 87.9  | 89.8  | 92.7  | 97.8  | 99.7  | 100.0 |
| Cereals & cereal preparations                 | 51                   | 93.7  | 95.7  | 96.4  | 96.1  | 94.4  | 95.6  | 100.0 |
| Vegetables & fruit                            | 40                   | 93.2  | 99.5  | 101.3 | 103.5 | 97.2  | 99.6  | 100.0 |
| Sugar, sugar preparations & honey             | 13                   | 124.2 | 115.3 | 109.7 | 106.3 | 114.9 | 117.0 | 100.0 |
| Coffee, tea, cocoa, spices & manufactures     | 27                   | 106.0 | 98.8  | 107.5 | 112.3 | 119.9 | 106.1 | 100.0 |
| Animal feeding stuff (excl unmilled cereals)  | 3                    | 92.4  | 92.3  | 96.4  | 95.9  | 96.7  | 98.1  | 100.0 |
| Miscellaneous food preparations               | 35                   | 96.4  | 95.0  | 95.4  | 96.5  | 96.8  | 98.5  | 100.0 |
| Beverages & Tobacco                           | 30                   | 99.1  | 99.0  | 100.1 | 101.0 | 100.6 | 98.9  | 100.0 |
| Beverages                                     | 28                   | 101.3 | 100.7 | 101.8 | 102.2 | 100.7 | 100.0 | 100.0 |
| Tobacco & manufactures                        | 2                    | 94.2  | 95.2  | 96.4  | 98.4  | 100.2 | 96.4  | 100.0 |
| Crude Materials (excl fuels)                  | 85                   | 113.4 | 112.7 | 113.9 | 109.4 | 99.7  | 98.8  | 100.0 |
| Oil seeds & oleaginous fruits                 | 3                    | 105.7 | 104.7 | 101.5 | 108.2 | 101.9 | 101.2 | 100.0 |
| Crude rubber                                  | 31                   | 107.3 | 107.2 | 111.4 | 108.8 | 101.0 | 100.3 | 100.0 |
| Cork & wood                                   | 3                    | 108.0 | 103.8 | 102.3 | 103.7 | 99.6  | 98.6  | 100.0 |
| Crude fertilizers & minerals                  | 34                   | 123.4 | 123.1 | 123.5 | 115.9 | 101.0 | 98.3  | 100.0 |
| Metalliferous ores & metal scrap              | 5                    | 105.1 | 98.7  | 100.5 | 94.9  | 91.6  | 97.3  | 100.0 |
| Crude animal & vegetable materials nes        | 10                   | 94.9  | 103.0 | 108.8 | 110.5 | 103.9 | 100.0 | 100.0 |
| Mineral Fuels, Lubricants & Related Materials | 2,788                | 144.5 | 138.5 | 128.1 | 75.2  | 61.6  | 79.7  | 100.0 |
| Petroleum & products & related materials      | 2,669                | 145.9 | 139.5 | 129.0 | 75.4  | 61.5  | 79.4  | 100.0 |
| Gas   | 119                  | 120.3 | 122.1 | 112.9 | 72.0  | 63.1  | 83.6  | 100.0 |

(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 domestic economy by the government, business or household sectors.

1 With effect from 2018, the weights are based on the domestic supply of goods from external source (values of imports less re-exports in 2017) and local source (total sales of local producers less the portion of exports in 2017).

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## 21.5 DOMESTIC SUPPLY PRICE INDEX *(continued)*

(2018 =100)

| Item   | Weights <sup>1</sup> | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|--|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Animal & Vegetable Oils,                           |                      |       |       |       |       |       |       |       |
| Fats & Waxes                                       | 42                   | 142.9 | 121.3 | 120.3 | 106.0 | 111.5 | 114.1 | 100.0 |
| Fixed vegetable fats & oils                        | 42                   | 141.3 | 118.2 | 118.1 | 102.3 | 113.0 | 116.6 | 100.0 |
| Chemicals & Chemical Products                      | 1,142                | 109.7 | 109.9 | 108.4 | 94.6  | 90.4  | 95.5  | 100.0 |
| Organic chemicals                                  | 459                  | 109.4 | 111.6 | 110.0 | 87.1  | 81.9  | 90.9  | 100.0 |
| Inorganic chemicals                                | 54                   | 110.8 | 97.3  | 93.0  | 92.5  | 91.8  | 94.9  | 100.0 |
| Dyeing, tanning & colouring materials              | 20                   | 110.9 | 103.6 | 102.3 | 100.4 | 98.4  | 99.1  | 100.0 |
| Medicinal & pharmaceutical products                | 95                   | 124.6 | 118.5 | 114.6 | 106.4 | 104.3 | 99.0  | 100.0 |
| Essential oils & perfume; toilet cleaning products | 62                   | 101.6 | 102.3 | 103.4 | 100.4 | 100.4 | 98.9  | 100.0 |
| Plastics in primary forms                          | 158                  | 104.7 | 106.1 | 108.5 | 95.0  | 87.5  | 93.2  | 100.0 |
| Plastics in non-primary forms                      | 32                   | 101.9 | 102.8 | 103.3 | 102.6 | 100.2 | 100.6 | 100.0 |
| Chemical materials & products nes                  | 263                  | 108.6 | 109.3 | 107.8 | 107.6 | 104.6 | 105.6 | 100.0 |
| Manufactured Goods                                 | 490                  | 104.6 | 101.9 | 101.2 | 99.1  | 93.2  | 96.8  | 100.0 |
| Rubber manufactures nes                            | 15                   | 104.9 | 101.1 | 99.1  | 102.9 | 100.7 | 101.0 | 100.0 |
| Wood & cork manufactures (excl furniture)          | 6                    | 96.0  | 95.7  | 96.2  | 97.1  | 98.1  | 100.0 | 100.0 |
| Paper manufactures                                 | 53                   | 96.9  | 96.0  | 96.0  | 97.3  | 95.7  | 96.1  | 100.0 |
| Textile manufactures                               | 15                   | 101.4 | 99.5  | 100.2 | 102.4 | 102.1 | 101.0 | 100.0 |
| Non-metal mineral manufactures nes                 | 123                  | 103.9 | 104.8 | 106.3 | 106.6 | 100.9 | 99.4  | 100.0 |
| Iron & steel                                       | 110                  | 112.6 | 106.4 | 103.7 | 95.7  | 84.7  | 91.3  | 100.0 |
| Non-ferrous metals                                 | 80                   | 106.9 | 101.0 | 98.2  | 92.5  | 87.4  | 98.8  | 100.0 |
| Manufactures of metals nes                         | 86                   | 101.6 | 100.1 | 100.2 | 101.1 | 95.5  | 97.3  | 100.0 |

*(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 domestic economy by the government, business or household sectors.

1 With effect from 2018, the weights are based on the domestic supply of goods from external source (values of imports less re-exports in 2017) and local source (total sales of local producers less the portion of exports in 2017).

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## 21.5 DOMESTIC SUPPLY PRICE INDEX *(continued)*

(2018 =100)

| Item  | Weights <sup>1</sup> | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|---|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Machinery & Transport Equipment                         | 4,302                | 108.5 | 105.7 | 104.0 | 107.0 | 103.2 | 102.2 | 100.0 |
| Power-generating machinery & equipment                  | 205                  | 76.6  | 79.2  | 83.3  | 92.1  | 95.3  | 98.0  | 100.0 |
| Machinery specialized for particular industries         | 189                  | 105.5 | 103.2 | 102.3 | 102.1 | 99.8  | 100.5 | 100.0 |
| Metal working machinery                                 | 6                    | 98.7  | 98.0  | 96.9  | 97.4  | 99.8  | 99.6  | 100.0 |
| General industrial machinery                            | 90                   | 99.2  | 99.4  | 100.6 | 101.3 | 100.9 | 101.3 | 100.0 |
| Office machines & data-processing machines              | 192                  | 102.4 | 100.2 | 100.4 | 101.9 | 101.2 | 100.8 | 100.0 |
| Telecommunication apparatus                             | 53                   | 150.4 | 138.2 | 119.8 | 115.5 | 110.0 | 104.7 | 100.0 |
| Electrical machinery apparatus nes, electrical parts    | 3,456                | 111.3 | 108.2 | 106.4 | 110.0 | 104.5 | 103.0 | 100.0 |
| Road vehicles   | 111                  | 89.8  | 88.7  | 94.4  | 95.0  | 95.8  | 97.3  | 100.0 |
| Miscellaneous Manufactured Articles                     | 802                  | 101.8 | 99.7  | 99.8  | 100.2 | 100.7 | 101.3 | 100.0 |
| Prefabricated building, sanitary plumbing, lighting nes | 7                    | 99.0  | 99.2  | 99.8  | 101.0 | 98.0  | 99.6  | 100.0 |
| Furniture, bedding, mattresses, cushions & others       | 23                   | 90.0  | 89.7  | 90.8  | 92.2  | 93.7  | 98.6  | 100.0 |
| Travel goods, handbags & similar containers             | 39                   | 84.6  | 87.7  | 93.6  | 98.6  | 100.5 | 100.0 | 100.0 |
| Articles of apparel & clothing accessories              | 25                   | 92.4  | 95.5  | 97.4  | 99.2  | 99.7  | 98.4  | 100.0 |
| Footwear  | 14                   | 94.3  | 94.5  | 97.9  | 97.3  | 98.8  | 99.2  | 100.0 |
| Professional scientific & controlling instruments nes   | 409                  | 101.0 | 101.0 | 101.9 | 101.7 | 101.3 | 102.3 | 100.0 |
| Photographic & optical goods nes; watches & clocks      | 75                   | 105.3 | 103.6 | 104.0 | 103.6 | 102.2 | 100.7 | 100.0 |
| Miscellaneous manufactured articles nes                 | 211                  | 108.6 | 101.1 | 98.3  | 99.3  | 101.6 | 101.6 | 100.0 |

Notes : The Domestic Supply Price Index measures the change in prices of imported and locally manufactured products retained for use in the domestic economy by the government, business or household sectors.

1 With effect from 2018, the weights are based on the domestic supply of goods from external source (values of imports less re-exports in 2017) and local source (total sales of local producers less the portion of exports in 2017).

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## 21.6 SINGAPORE MANUFACTURED PRODUCTS PRICE INDEX

(2018 =100)

| Item  | Weights <sup>1</sup> | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|---|----------------------|-------|-------|-------|-------|-------|-------|-------|
| All Items                                     | 10,000               | 114.8 | 111.3 | 107.5 | 97.6  | 92.2  | 95.8  | 100.0 |
| Non-Oil Items                                 | 8,586                | 109.0 | 106.0 | 103.3 | 101.0 | 97.9  | 98.6  | 100.0 |
| Food & Live Animals                           | 256                  | 97.1  | 98.4  | 101.9 | 100.5 | 99.7  | 99.5  | 100.0 |
| Meat & meat preparations                      | 20                   | 100.8 | 101.5 | 102.3 | 100.8 | 100.3 | 100.7 | 100.0 |
| Dairy products & birds' eggs                  | 15                   | 105.1 | 112.0 | 115.3 | 107.5 | 98.9  | 101.9 | 100.0 |
| Fish, seafood & preparations                  | 5                    | 85.5  | 84.3  | 91.9  | 93.2  | 95.1  | 101.6 | 100.0 |
| Cereals & cereal preparations                 | 42                   | 91.2  | 92.7  | 94.9  | 96.0  | 96.8  | 99.3  | 100.0 |
| Vegetables & fruit                            | 3                    | 93.0  | 93.0  | 93.0  | 94.8  | 96.0  | 97.0  | 100.0 |
| Coffee, tea, cocoa, spices & manufactures     | 28                   | 98.4  | 92.3  | 107.7 | 104.5 | 111.3 | 97.1  | 100.0 |
| Animal feeding stuff (excl unmilled cereals)  | 6                    | 95.0  | 92.9  | 98.5  | 99.2  | 99.2  | 99.0  | 100.0 |
| Miscellaneous food preparations               | 135                  | 95.7  | 96.8  | 97.2  | 98.7  | 98.4  | 98.8  | 100.0 |
| Beverages & Tobacco                           | 31                   | 101.1 | 101.0 | 101.8 | 102.6 | 103.0 | 98.4  | 100.0 |
| Beverages                                     | 31                   | 103.9 | 103.3 | 104.5 | 105.7 | 103.3 | 100.9 | 100.0 |
| Crude Materials (excl fuels)                  | 56                   | 87.0  | 88.5  | 90.7  | 91.3  | 94.8  | 94.7  | 100.0 |
| Crude Rubber                                  | 50                   | na    | na    | na    | na    | na    | na    | 100.0 |
| Wood & cork                                   | 1                    | 79.6  | 91.6  | 93.5  | 93.6  | 93.1  | 98.8  | 100.0 |
| Crude fertilizers & minerals                  | 2                    | 76.5  | 78.6  | 82.5  | 83.7  | 90.7  | 89.7  | 100.0 |
| Metalliferous ores & metal scrap              | 4                    | 101.9 | 100.4 | 100.4 | 100.4 | 100.3 | 100.0 | 100.0 |
| Mineral Fuels, Lubricants & Related Materials | 1,414                | 140.9 | 135.3 | 126.3 | 82.1  | 66.4  | 83.0  | 100.0 |
| Petroleum & products & related materials      | 1,386                | 140.8 | 135.1 | 126.1 | 82.1  | 66.4  | 82.9  | 100.0 |
| Gas   | 28                   | 151.5 | 146.5 | 136.3 | 78.1  | 62.7  | 92.0  | 100.0 |
| Animal & Vegetable Oils,                      |                      |       |       |       |       |       |       |       |
| Fats & Waxes                                  | 14                   | 119.4 | 104.1 | 112.5 | 107.6 | 113.6 | 119.3 | 100.0 |
| Fixed vegetable fats & oils                   | 14                   | 102.7 | 89.3  | 104.3 | 102.1 | 116.7 | 125.3 | 100.0 |

*(continued on the next page)*

Notes : The Singapore Manufactured Products Price Index measures the change in prices of locally manufactured commodities.

1 With effect from 2018, the weights are derived from the 2017 Census of Manufacturing Activities.

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**21.6 SINGAPORE MANUFACTURED PRODUCTS PRICE INDEX** *(continued)*

(2018 =100)

| Item  | Weights <sup>1</sup> | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|---|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Chemicals & Chemical Products                           | 2,165                | 101.9 | 102.3 | 101.1 | 89.8  | 88.0  | 92.5  | 100.0 |
| Organic chemicals                                       | 1,012                | 99.7  | 99.6  | 96.8  | 81.8  | 81.8  | 88.1  | 100.0 |
| Inorganic chemicals                                     | 40                   | 118.5 | 112.6 | 108.7 | 105.7 | 99.6  | 99.9  | 100.0 |
| Dyeing, tanning & colouring materials                   | 22                   | 106.8 | 103.8 | 103.3 | 101.1 | 96.8  | 98.9  | 100.0 |
| Medicinal & pharmaceutical products                     | 232                  | 100.0 | 100.3 | 101.0 | 104.0 | 99.8  | 99.9  | 100.0 |
| Essential oils & perfume; toilet<br>cleaning products   | 133                  | 91.1  | 87.3  | 88.6  | 91.2  | 93.5  | 98.0  | 100.0 |
| Plastics in primary forms                               | 372                  | 101.8 | 106.1 | 109.0 | 93.5  | 87.2  | 93.2  | 100.0 |
| Plastics in non-primary forms                           | 34                   | 108.5 | 111.5 | 112.7 | 111.3 | 108.7 | 104.5 | 100.0 |
| Chemical materials & products nes                       | 320                  | 115.2 | 116.4 | 116.7 | 115.7 | 110.9 | 108.0 | 100.0 |
| Manufactured Goods                                      | 284                  | 102.0 | 101.6 | 100.9 | 100.0 | 96.2  | 97.8  | 100.0 |
| Rubber manufactures nes                                 | 23                   | 88.5  | 87.3  | 87.5  | 92.6  | 94.8  | 96.5  | 100.0 |
| Wood & cork manufactures (excl furniture)               | 8                    | 96.4  | 96.0  | 96.5  | 97.2  | 98.3  | 100.0 | 100.0 |
| Paper manufactures                                      | 34                   | 100.5 | 103.8 | 104.6 | 104.3 | 100.6 | 101.4 | 100.0 |
| Non-metal mineral manufactures nes                      | 45                   | 102.6 | 102.6 | 104.9 | 102.7 | 99.1  | 98.6  | 100.0 |
| Iron & steel  | 53                   | 128.2 | 123.9 | 117.4 | 110.6 | 95.7  | 92.0  | 100.0 |
| Non-ferrous metals                                      | 20                   | 95.2  | 93.1  | 91.3  | 88.4  | 85.4  | 95.8  | 100.0 |
| Manufactures of metals nes                              | 99                   | 99.4  | 99.2  | 98.0  | 98.5  | 96.2  | 98.7  | 100.0 |
| Machinery & Transport Equipment                         | 4,897                | 117.3 | 110.8 | 106.3 | 109.9 | 105.2 | 103.0 | 100.0 |
| Power-generating machinery & equipment                  | 8                    | 107.1 | 101.2 | 98.0  | 101.3 | 98.0  | 99.3  | 100.0 |
| Machinery specialized for particular industries         | 571                  | 111.2 | 108.2 | 104.5 | 105.2 | 99.1  | 101.5 | 100.0 |
| Metal working machinery                                 | 18                   | 103.6 | 107.0 | 106.9 | 100.9 | 99.7  | 100.1 | 100.0 |
| General industrial machinery                            | 85                   | 100.9 | 99.8  | 100.6 | 101.6 | 101.9 | 102.1 | 100.0 |
| Office machines & data-processing machines              | 880                  | 129.8 | 113.4 | 103.5 | 107.5 | 106.6 | 103.3 | 100.0 |
| Telecommunication apparatus                             | 45                   | 102.0 | 103.3 | 101.8 | 104.5 | 103.5 | 102.3 | 100.0 |
| Electrical machinery apparatus nes,<br>electrical parts | 3,271                | 115.2 | 111.8 | 108.9 | 113.4 | 106.4 | 103.3 | 100.0 |
| Road vehicles   | 20                   | 88.2  | 89.7  | 95.4  | 98.2  | 100.5 | 101.7 | 100.0 |
| Miscellaneous Manufactured Articles                     | 883                  | 102.8 | 101.5 | 99.0  | 96.4  | 95.4  | 97.2  | 100.0 |
| Furniture, bedding, mattresses,<br>cushions & others    | 16                   | 84.9  | 85.1  | 87.0  | 89.6  | 92.9  | 100.0 | 100.0 |
| Travel goods, handbags & similar containers             | 1                    | 87.7  | 90.9  | 96.9  | 101.6 | 101.3 | 99.9  | 100.0 |
| Professional scientific &<br>controlling instruments    | 516                  | 108.3 | 106.6 | 106.0 | 102.3 | 101.8 | 102.1 | 100.0 |
| Photographic & optical goods nes;<br>watches & clocks   | 48                   | 125.1 | 126.4 | 127.3 | 127.8 | 103.3 | 101.8 | 100.0 |
| Miscellaneous manufactured articles nes                 | 303                  | 98.6  | 97.7  | 92.9  | 89.6  | 89.1  | 92.1  | 100.0 |

Notes : The Singapore Manufactured Products Price Index measures the change in prices of locally manufactured commodities.

1 With effect from 2018, the weights are derived from the 2017 Census of Manufacturing Activities.

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## 21.7 IMPORT PRICE INDEX

(2018 =100)

| Item  | Weights <sup>1</sup> | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|---|----------------------|-------|-------|-------|-------|-------|-------|-------|
| All Items                                     | 10,000               | 115.2 | 112.0 | 108.9 | 95.1  | 90.1  | 95.3  | 100.0 |
| Non-Oil Items                                 | 7,410                | 104.9 | 102.7 | 102.0 | 102.4 | 100.4 | 101.0 | 100.0 |
| Food & Live Animals                           | 247                  | 100.5 | 101.4 | 104.8 | 102.0 | 99.5  | 101.2 | 100.0 |
| Live animals                                  | 9                    | 107.7 | 109.4 | 111.6 | 110.9 | 109.6 | 106.9 | 100.0 |
| Meat & meat preparations                      | 31                   | 101.1 | 102.4 | 105.5 | 101.9 | 97.6  | 105.5 | 100.0 |
| Dairy products & birds' eggs                  | 30                   | 105.9 | 118.0 | 128.6 | 103.8 | 92.5  | 101.5 | 100.0 |
| Fish, seafood & preparations                  | 34                   | 89.5  | 88.7  | 90.9  | 93.6  | 98.0  | 99.4  | 100.0 |
| Cereals & cereal preparations                 | 24                   | 98.4  | 100.7 | 99.1  | 97.0  | 92.1  | 91.0  | 100.0 |
| Vegetables & fruit                            | 48                   | 93.2  | 98.1  | 101.2 | 103.6 | 97.2  | 100.0 | 100.0 |
| Sugar, sugar preparations & honey             | 9                    | 125.7 | 116.3 | 110.4 | 106.2 | 114.9 | 117.5 | 100.0 |
| Coffee, tea, cocoa, spices & manufactures     | 28                   | 109.7 | 105.9 | 115.2 | 119.8 | 120.3 | 107.4 | 100.0 |
| Animal feeding stuff (excl unmilled cereals)  | 4                    | 91.6  | 93.2  | 96.3  | 93.6  | 95.0  | 97.9  | 100.0 |
| Miscellaneous food preparations               | 31                   | 101.3 | 91.8  | 91.7  | 90.4  | 90.3  | 94.5  | 100.0 |
| Beverages & Tobacco                           | 112                  | 95.3  | 96.4  | 97.4  | 99.8  | 99.6  | 100.2 | 100.0 |
| Beverages                                     | 84                   | 97.9  | 98.7  | 99.3  | 101.1 | 100.9 | 101.3 | 100.0 |
| Tobacco & manufactures                        | 28                   | 88.0  | 89.8  | 91.8  | 96.0  | 95.7  | 97.0  | 100.0 |
| Crude Materials (excl fuels)                  | 84                   | 119.6 | 114.4 | 111.7 | 105.3 | 97.8  | 100.5 | 100.0 |
| Oil seeds & oleaginous fruits                 | 2                    | 105.3 | 101.2 | 96.5  | 106.6 | 101.4 | 101.2 | 100.0 |
| Crude rubber                                  | 19                   | 169.7 | 140.6 | 114.7 | 95.4  | 95.2  | 109.1 | 100.0 |
| Cork & wood                                   | 3                    | 110.8 | 104.8 | 103.3 | 105.2 | 100.8 | 99.0  | 100.0 |
| Crude fertilizers & minerals                  | 30                   | 125.0 | 124.5 | 124.9 | 118.4 | 103.3 | 99.9  | 100.0 |
| Metalliferous ores & metal scrap              | 17                   | 106.2 | 100.3 | 100.1 | 93.4  | 88.6  | 97.6  | 100.0 |
| Crude animal & vegetable materials nes        | 13                   | 93.4  | 100.8 | 108.7 | 108.1 | 100.8 | 97.4  | 100.0 |
| Mineral Fuels, Lubricants & Related Materials | 2,590                | 143.9 | 138.0 | 127.8 | 74.8  | 61.5  | 79.7  | 100.0 |
| Petroleum & products & related materials      | 2,431                | 145.6 | 139.1 | 128.9 | 75.1  | 61.4  | 79.5  | 100.0 |
| Gas   | 159                  | 117.6 | 120.0 | 110.9 | 71.5  | 63.1  | 82.8  | 100.0 |
| Animal & Vegetable Oils,                      |                      |       |       |       |       |       |       |       |
| Fats & Waxes                                  | 27                   | 145.5 | 120.9 | 119.4 | 102.0 | 110.6 | 114.7 | 100.0 |
| Fixed vegetable fats & oils                   | 27                   | 146.6 | 121.1 | 119.6 | 101.7 | 111.0 | 115.3 | 100.0 |

*(continued on the next page)*

Notes: The Import Price Index tracks the price trends of imported goods into Singapore.

1 With effect from 2018, the weights are derived from the 2018 Singapore Merchandise Trade Statistics Import Values.

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**21.7** IMPORT PRICE INDEX *(continued)*

(2018 =100)

| Item   | Weights <sup>1</sup> | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|--|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Chemicals & Chemical Products                              | 888                  | 106.5 | 105.3 | 104.3 | 98.0  | 93.8  | 96.7  | 100.0 |
| Organic chemicals  | 216                  | 113.8 | 112.6 | 109.0 | 95.4  | 86.7  | 93.8  | 100.0 |
| Inorganic chemicals  | 35                   | 102.4 | 83.4  | 79.7  | 81.7  | 84.8  | 90.4  | 100.0 |
| Dyeing, tanning & colouring materials                      | 33                   | 112.3 | 103.9 | 102.1 | 99.2  | 98.3  | 98.7  | 100.0 |
| Medicinal & pharmaceutical products                        | 101                  | 115.4 | 111.5 | 108.7 | 102.6 | 101.2 | 97.0  | 100.0 |
| Essential oils & perfume; toilet<br>cleaning products      | 147                  | 94.7  | 95.5  | 97.3  | 96.6  | 97.3  | 97.3  | 100.0 |
| Plastics in primary forms                                  | 164                  | 104.5 | 107.7 | 110.6 | 100.4 | 94.3  | 96.6  | 100.0 |
| Plastics in non-primary forms                              | 38                   | 98.8  | 98.9  | 99.7  | 99.6  | 97.4  | 99.2  | 100.0 |
| Chemical materials & products nes                          | 154                  | 104.0 | 103.9 | 101.3 | 101.5 | 98.0  | 101.2 | 100.0 |
| Manufactured Goods   | 505                  | 105.3 | 102.4 | 102.9 | 99.2  | 92.3  | 96.4  | 100.0 |
| Rubber manufactures nes                                    | 25                   | 107.6 | 103.9 | 101.9 | 103.9 | 100.8 | 101.1 | 100.0 |
| Paper manufactures   | 51                   | 93.3  | 92.0  | 92.4  | 95.1  | 93.8  | 94.8  | 100.0 |
| Textile manufactures                                       | 26                   | 99.8  | 98.1  | 99.4  | 102.3 | 101.5 | 100.8 | 100.0 |
| Non-metal mineral manufactures nes                         | 60                   | 106.1 | 108.0 | 108.0 | 110.3 | 103.4 | 100.4 | 100.0 |
| Iron & steel   | 131                  | 107.1 | 102.3 | 103.6 | 96.3  | 85.3  | 93.6  | 100.0 |
| Non-ferrous metals   | 84                   | 110.1 | 103.4 | 103.4 | 90.0  | 85.9  | 96.5  | 100.0 |
| Manufactures of metals nes                                 | 128                  | 104.4 | 103.0 | 103.8 | 103.5 | 94.9  | 96.2  | 100.0 |
| Machinery & Transport Equipment                            | 4,690                | 105.3 | 103.0 | 101.9 | 103.9 | 102.4 | 102.2 | 100.0 |
| Power-generating machinery & equipment                     | 526                  | 79.3  | 81.6  | 85.3  | 92.8  | 95.7  | 98.1  | 100.0 |
| Machinery specialized for particular industries            | 306                  | 106.4 | 102.6 | 100.7 | 100.8 | 100.5 | 99.9  | 100.0 |
| Metal working machinery                                    | 23                   | 104.7 | 99.4  | 97.2  | 97.3  | 101.2 | 100.1 | 100.0 |
| General industrial machinery                               | 281                  | 100.2 | 99.5  | 100.4 | 100.1 | 101.3 | 101.0 | 100.0 |
| Office machines & data-processing machines                 | 457                  | 100.6 | 98.9  | 99.1  | 102.0 | 101.5 | 101.1 | 100.0 |
| Telecommunication apparatus                                | 390                  | 147.0 | 135.8 | 118.8 | 115.3 | 110.0 | 104.9 | 100.0 |
| Electrical machinery apparatus nes,<br>electrical parts    | 2,542                | 106.6 | 104.7 | 104.1 | 106.8 | 103.7 | 103.7 | 100.0 |
| Road vehicles  | 164                  | 97.5  | 95.5  | 98.6  | 96.5  | 98.4  | 98.3  | 100.0 |
| Miscellaneous Manufactured Articles                        | 857                  | 100.5 | 97.8  | 97.8  | 101.0 | 101.8 | 101.6 | 100.0 |
| Prefabricated building, sanitary plumbing,<br>lighting nes | 12                   | 98.4  | 98.8  | 99.5  | 101.4 | 98.4  | 99.6  | 100.0 |
| Furniture, bedding, mattresses,<br>cushions & others       | 26                   | 97.7  | 96.6  | 96.5  | 96.0  | 95.3  | 97.1  | 100.0 |
| Travel goods, handbags & similar containers                | 54                   | 86.4  | 88.9  | 95.1  | 99.3  | 100.4 | 99.7  | 100.0 |
| Articles of apparel & clothing accessories                 | 79                   | 93.1  | 95.6  | 97.4  | 99.1  | 99.4  | 98.4  | 100.0 |
| Footwear   | 24                   | 95.0  | 94.9  | 97.9  | 97.3  | 98.8  | 99.4  | 100.0 |
| Professional scientific & controlling instruments          | 275                  | 90.5  | 91.1  | 92.4  | 100.6 | 101.1 | 101.5 | 100.0 |
| Photographic & optical goods nes;<br>watches & clocks      | 106                  | 107.0 | 104.0 | 104.6 | 103.9 | 103.0 | 101.8 | 100.0 |
| Miscellaneous manufactured articles nes                    | 283                  | 111.7 | 103.6 | 100.8 | 101.7 | 103.8 | 103.5 | 100.0 |

Notes: The Import Price Index tracks the price trends of imported goods into Singapore.

<sup>1</sup> With effect from 2018, the weights are derived from the 2018 Singapore Merchandise Trade Statistics Import Values.

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## 21.8 EXPORT PRICE INDEX

(2018 =100)

| Item  | Weights <sup>1</sup> | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|---|----------------------|-------|-------|-------|-------|-------|-------|-------|
| All Items                                     | 10,000               | 112.5 | 109.4 | 106.9 | 99.5  | 94.2  | 96.9  | 100.0 |
| Non-Oil Items                                 | 8,022                | 104.8 | 103.0 | 102.0 | 104.6 | 101.8 | 100.9 | 100.0 |
| Food & Live Animals                           | 236                  | 101.5 | 98.0  | 103.0 | 105.1 | 102.2 | 100.0 | 100.0 |
| Dairy products & birds' eggs                  | 5                    | 133.6 | 141.0 | 166.2 | 135.5 | 106.3 | 107.4 | 100.0 |
| Fish, seafood & preparations                  | 9                    | 92.9  | 88.4  | 88.7  | 92.4  | 93.1  | 96.7  | 100.0 |
| Cereals & cereal preparations                 | 7                    | 88.0  | 88.7  | 89.8  | 92.3  | 93.2  | 97.2  | 100.0 |
| Vegetables & fruit                            | 8                    | 78.4  | 72.6  | 95.1  | 104.2 | 99.0  | 110.9 | 100.0 |
| Sugar, sugar preparations & honey             | 3                    | 106.5 | 96.0  | 94.5  | 94.0  | 101.7 | 105.2 | 100.0 |
| Coffee, tea, cocoa, spices & manufactures     | 26                   | 106.2 | 102.5 | 114.1 | 116.7 | 113.9 | 106.4 | 100.0 |
| Animal feeding stuff (excl unmilled cereals)  | 7                    | 97.4  | 96.7  | 97.1  | 116.0 | 113.5 | 102.6 | 100.0 |
| Miscellaneous food preparations               | 171                  | 103.8 | 99.6  | 98.1  | 99.9  | 97.8  | 93.4  | 100.0 |
| Beverages & Tobacco                           | 103                  | 94.6  | 92.7  | 94.8  | 101.4 | 103.4 | 101.7 | 100.0 |
| Beverages                                     | 75                   | 99.2  | 95.8  | 97.3  | 102.8 | 104.1 | 102.5 | 100.0 |
| Tobacco & manufactures                        | 28                   | 82.4  | 84.7  | 88.3  | 97.8  | 101.5 | 99.5  | 100.0 |
| Crude Materials (excl fuels)                  | 91                   | 126.2 | 114.3 | 106.0 | 94.4  | 88.0  | 101.1 | 100.0 |
| Crude rubber                                  | 35                   | 204.6 | 166.6 | 117.8 | 102.4 | 103.4 | 127.9 | 100.0 |
| Pulp and waste paper                          | 26                   | 87.7  | 81.2  | 83.4  | 85.8  | 85.7  | 98.3  | 100.0 |
| Metalliferous ores & metal scrap              | 26                   | 121.4 | 110.4 | 108.5 | 90.5  | 80.1  | 95.2  | 100.0 |
| Crude animal & vegetable materials nes        | 4                    | 102.6 | 102.4 | 106.0 | 101.6 | 98.6  | 98.2  | 100.0 |
| Mineral Fuels, Lubricants & Related Materials | 1,978                | 142.0 | 134.3 | 125.7 | 79.9  | 64.7  | 81.4  | 100.0 |
| Petroleum & products & related materials      | 1,978                | 141.9 | 134.2 | 125.7 | 79.9  | 64.7  | 81.3  | 100.0 |
| Animal & Vegetable Oils,                      |                      |       |       |       |       |       |       |       |
| Fats & waxes                                  | 5                    | 115.5 | 107.7 | 104.4 | 97.8  | 97.7  | 102.8 | 100.0 |
| Fixed vegetable fats & oils                   | 5                    | 130.9 | 117.9 | 113.4 | 105.1 | 105.1 | 106.7 | 100.0 |

*(continued on the next page)*

Notes: The Export Price Index measures changes in price of all exports of merchandise from Singapore, including re-exports.

1 With effect from 2018, the weights are derived from the 2018 Singapore Merchandise Trade Statistics Export Values.

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## 21.8 EXPORT PRICE INDEX *(continued)*

(2018 =100)

| Item   | Weights <sup>1</sup> | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|--|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Chemicals & Chemical Products                        | 1,525                | 104.7 | 104.4 | 105.1 | 102.2 | 96.8  | 97.7  | 100.0 |
| Organic chemicals                                    | 428                  | 111.3 | 109.5 | 108.5 | 103.6 | 94.9  | 95.5  | 100.0 |
| Inorganic chemicals                                  | 14                   | 106.7 | 102.9 | 101.4 | 100.0 | 97.2  | 100.2 | 100.0 |
| Dyeing, tanning & colouring materials                | 37                   | 103.9 | 94.9  | 95.4  | 93.5  | 93.8  | 96.0  | 100.0 |
| Medicinal & pharmaceutical products                  | 250                  | 109.9 | 106.8 | 109.4 | 110.0 | 106.4 | 102.7 | 100.0 |
| Essential oils & perfume; toilet cleaning products   | 232                  | 90.9  | 95.3  | 95.4  | 96.1  | 99.2  | 101.5 | 100.0 |
| Plastics in primary forms                            | 355                  | 100.8 | 103.2 | 105.3 | 96.3  | 88.6  | 93.2  | 100.0 |
| Plastics in non-primary forms                        | 29                   | 102.9 | 102.6 | 104.0 | 104.7 | 99.7  | 99.7  | 100.0 |
| Chemical materials & products nes                    | 181                  | 98.2  | 98.1  | 99.6  | 105.8 | 104.1 | 103.0 | 100.0 |
| Manufactured Goods                                   | 318                  | 102.9 | 101.7 | 102.2 | 99.1  | 95.6  | 98.2  | 100.0 |
| Rubber manufactures nes                              | 22                   | 98.7  | 97.9  | 97.6  | 97.1  | 97.1  | 99.0  | 100.0 |
| Paper manufactures                                   | 41                   | 99.8  | 100.8 | 101.0 | 105.1 | 100.9 | 99.1  | 100.0 |
| Textile manufactures                                 | 19                   | 100.6 | 101.2 | 101.1 | 107.7 | 106.1 | 100.9 | 100.0 |
| Non-metal mineral manufactures nes                   | 14                   | 106.6 | 97.3  | 95.1  | 96.8  | 102.2 | 101.0 | 100.0 |
| Iron & steel   | 66                   | 114.5 | 114.4 | 113.8 | 108.9 | 95.1  | 94.5  | 100.0 |
| Non-ferrous metals                                   | 67                   | 96.1  | 93.9  | 96.3  | 81.7  | 84.0  | 97.2  | 100.0 |
| Manufactures of metals nes                           | 89                   | 100.6 | 100.2 | 101.3 | 102.2 | 99.1  | 100.3 | 100.0 |
| Machinery & Transport Equipment                      | 4,836                | 106.1 | 104.3 | 102.8 | 107.4 | 104.2 | 102.0 | 100.0 |
| Power-generating machinery & equipment               | 418                  | 93.7  | 94.4  | 95.1  | 98.6  | 98.7  | 99.7  | 100.0 |
| Machinery specialized for particular industries      | 437                  | 106.9 | 105.6 | 106.4 | 104.1 | 97.0  | 98.4  | 100.0 |
| Metal working machinery                              | 25                   | 90.4  | 90.4  | 91.9  | 95.2  | 97.8  | 98.4  | 100.0 |
| General industrial machinery                         | 212                  | 97.9  | 96.8  | 97.6  | 102.9 | 103.5 | 101.4 | 100.0 |
| Office machines & data-processing machines           | 467                  | 103.4 | 99.4  | 99.7  | 108.6 | 107.7 | 104.0 | 100.0 |
| Telecommunication apparatus                          | 366                  | 135.2 | 129.8 | 122.5 | 120.8 | 115.7 | 112.0 | 100.0 |
| Electrical machinery apparatus nes, electrical parts | 2,814                | 107.1 | 105.7 | 103.1 | 108.3 | 104.2 | 101.4 | 100.0 |
| Road vehicles  | 98                   | 86.6  | 88.2  | 92.4  | 94.9  | 96.2  | 100.2 | 100.0 |

*(continued on the next page)*

Notes: The Export Price Index measures changes in price of all exports of merchandise from Singapore, including re-exports.

<sup>1</sup> With effect from 2018, the weights are derived from the 2018 Singapore Merchandise Trade Statistics Export Values.

Download times series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15821](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15821)  
[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15816](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15816)

## 21.8 EXPORT PRICE INDEX *(continued)*

(2018=100)

| Item  | Weights <sup>1</sup> | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|---|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Miscellaneous Manufactured Articles                     | 908                  | 99.5  | 95.5  | 93.1  | 97.3  | 100.8 | 101.5 | 100.0 |
| Prefabricated building, sanitary plumbing, lighting nes | 3                    | 73.6  | 75.5  | 83.7  | 83.0  | 85.3  | 87.7  | 100.0 |
| Furniture, bedding, mattresses, cushions & others       | 5                    | 90.1  | 93.7  | 94.2  | 94.4  | 95.9  | 97.3  | 100.0 |
| Travel goods, handbags & similar containers             | 37                   | 76.5  | 82.7  | 89.8  | 94.1  | 94.4  | 93.3  | 100.0 |
| Articles of apparel & clothing accessories              | 40                   | 96.2  | 96.5  | 97.1  | 98.4  | 98.4  | 99.0  | 100.0 |
| Footwear  | 14                   | 98.3  | 98.4  | 98.7  | 100.2 | 100.4 | 100.3 | 100.0 |
| Professional scientific & controlling instruments       | 365                  | 94.5  | 93.3  | 92.0  | 99.1  | 100.5 | 101.6 | 100.0 |
| Photographic & optical goods nes; watches & clocks      | 98                   | 107.0 | 105.8 | 104.8 | 102.8 | 100.5 | 101.3 | 100.0 |
| Miscellaneous manufactured articles nes                 | 345                  | 103.5 | 95.8  | 91.2  | 95.1  | 102.0 | 102.4 | 100.0 |

Notes: The Export Price Index measures changes in price of all exports of merchandise from Singapore, including re-exports.

<sup>1</sup> With effect from 2018, the weights are derived from the 2018 Singapore Merchandise Trade Statistics Export Values.

Download times series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15821](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15821)

## 21.9 CONSTRUCTION MATERIAL MARKET PRICES

| Material   | Unit              | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
|--|-------------------|--------|--------|--------|--------|--------|--------|--------|
| Cement in bulk<br>(Ordinary Portland Cement)                     | \$/Tonne          | 100.87 | 100.23 | 97.93  | 92.97  | 82.95  | 75.91  | 78.08  |
| Steel Reinforcement Bars <sup>1</sup><br>(16-32 mm High Tensile) | \$/Tonne          | 887.13 | 766.90 | 653.90 | 501.40 | 500.52 | 688.83 | 786.43 |
| Granite <sup>2</sup><br>(20 mm Aggregate)                        | \$/Tonne          | 21.26  | 20.61  | 22.45  | 19.71  | 15.43  | 16.07  | 17.21  |
| Concreting Sand <sup>2</sup>                                     | \$/Tonne          | 24.10  | 22.99  | 23.25  | 22.68  | 18.30  | 17.12  | 18.59  |
| Ready Mixed Concrete <sup>3</sup>                                | \$/m <sup>3</sup> | 110.23 | 106.85 | 111.15 | 99.47  | 85.01  | 81.42  | 85.15  |

Source : Building and Construction Authority

1 Between January 2012 and December 2014, the market prices of steel reinforcement bars (without cut and bend) are based on fixed price supply contracts with contract period of 6 months or less.

From January 2015, the market prices of steel reinforcement bars (without cut and bend) 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".

Download times series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14810](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14810)

## 21.10 HOUSING & DEVELOPMENT BOARD RESALE PRICE INDEX

(1st Quarter 2009 = 100)  
(End of Period)

|                    | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|--------------------|-------|-------|-------|-------|-------|-------|-------|
| Resale Price Index | 146.7 | 145.8 | 137.0 | 134.8 | 134.6 | 132.6 | 131.4 |

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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15145](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15145)

## 21.11 PRIVATE PROPERTY PRICE INDEX BY TYPE OF PROPERTY

(End of Period)

| Type of Property                   | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| (1st Quarter 2009 = 100)           |       |       |       |       |       |       |       |
| Residential <sup>1</sup>           | 151.5 | 153.2 | 147.0 | 141.6 | 137.2 | 138.7 | 149.6 |
| Landed                             | 177.0 | 177.1 | 167.6 | 160.8 | 153.6 | 152.9 | 162.6 |
| Non-Landed                         | 144.8 | 147.6 | 142.5 | 137.4 | 133.8 | 135.6 | 146.8 |
| (4th Quarter 1998 = 100)           |       |       |       |       |       |       |       |
| Commercial <sup>2</sup>            |       |       |       |       |       |       |       |
| Office Space                       | 126.2 | 132.8 | 138.8 | 138.6 | 134.7 | 131.4 | 138.9 |
| Retail Space <sup>3</sup>          | 123.8 | 129.5 | 130.7 | 129.6 | 122.6 | 111.8 | 112.5 |
| (4th Quarter 2012 = 100)           |       |       |       |       |       |       |       |
| Industrial <sup>4</sup>            | 100.0 | 103.2 | 106.8 | 105.0 | 95.4  | 90.0  | 90.0  |
| Multiple-User Factory <sup>5</sup> | 100.0 | 103.2 | 107.7 | 105.9 | 98.7  | 94.0  | 93.8  |
| Single-User Factory <sup>6</sup>   | 100.0 | 97.8  | 99.0  | 97.2  | 85.4  | 79.3  | 79.6  |

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, 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 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.

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 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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15139](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15139)  
[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15646](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15646)  
[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15119](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15119)

## 21.12 PRICE INDICES OF NON-LANDED PRIVATE RESIDENTIAL PROPERTIES <sup>1</sup>

### BY LOCALITY

(1st Quarter 2009 = 100)  
(End of Period)

|                                     | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Core Central Region <sup>2</sup>    | 140.3 | 137.6 | 131.9 | 128.6 | 127.0 | 127.8 | 136.4 |
| Rest of Central Region <sup>3</sup> | 155.0 | 154.8 | 146.6 | 140.3 | 136.4 | 138.9 | 149.2 |
| Outside Central Region              | 158.9 | 169.3 | 165.6 | 159.4 | 154.0 | 156.1 | 170.7 |

Source : Urban Redevelopment Authority

Notes : Map of Central Region and areas in Core Central Region are available in the Urban Redevelopment Authority's website.

1 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 and data provided by licensed developers on new units sold. With effect from 2016, data are compiled based on transaction prices given in contracts 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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refid=15141](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refid=15141)



## 21.13 COMMERCIAL PROPERTY RENTAL INDEX IN CENTRAL REGION BY TYPE OF PROPERTY AND LOCALITY

(4th Quarter 1998 =100)  
(End of Period)

| Type of Property          | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|
| Office Space <sup>1</sup> |       |       |       |       |       |       |       |
| Central Region            | 170.5 | 172.8 | 189.8 | 177.4 | 162.8 | 163.4 | 175.5 |
| Central Area              | 173.7 | 176.9 | 196.2 | 183.8 | 168.6 | 168.1 | 181.4 |
| Fringe Area               | 143.1 | 143.9 | 154.4 | 144.8 | 133.6 | 139.7 | 145.0 |
| Retail Space <sup>2</sup> |       |       |       |       |       |       |       |
| Central Region            | 118.3 | 117.3 | 118.4 | 113.5 | 104.1 | 99.2  | 98.2  |
| Central Area              | 120.3 | 119.3 | 120.8 | 115.2 | 105.1 | 101.0 | 99.3  |
| Fringe Area               | 109.8 | 110.5 | 111.8 | 108.8 | 101.6 | 94.7  | 95.9  |

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.

- 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, entertainment and health & fitness) and referenced as 'retail space'.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15138](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15138)  
[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15135](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15135)

22



# Education



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 that seek to cater to the different strengths, interests and learning styles of students.

The bilingual policy is a cornerstone of Singapore's education system. It requires students to study two languages: English and a Mother Tongue. The learning of the Mother Tongue reinforces the cultural identity of Singaporeans and enables them to connect with communities across Asia and the world who speak that language or share that 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. They are also provided with opportunities to engage in hands-on learning through authentic settings which allow them to see the relevance of what they learn in the real-world context.

### Primary Education

At the primary level, students go through a six-year course designed to lay 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 helps to guide them to a suitable academic programme in secondary school.

### Secondary Education

At the secondary level, three core courses, namely Express course, Normal (Academic) course and Normal (Technical) course are offered to match the learning needs of students.

Specialised Schools, Specialised Schools for Normal (Technical) Students, Specialised Independent Schools, Independent Schools and schools which offer the Integrated Programme further contribute to the diverse secondary school landscape, to suit the unique needs of every student. 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*

Junior colleges offer a two-year pre-university education course while the centralised institute offers a three-year programme.

#### *Polytechnics*

The polytechnics offer a wide range of courses that equip students for careers in diverse fields.

#### *Institute of Technical Education (ITE)*

The ITE taps on industry expertise to ensure its graduates are well-equipped with skills needed by industries.

#### *Arts Institutions*

The LASALLE College of the Arts and the Nanyang Academy of Fine Arts offer a range of publicly-funded full-time diploma programmes in visual and performing arts. A range of full-time

## Education and Literacy ■

degree programmes are also offered to students who intend to pursue the creative arts at a higher level.

### Universities

There are six publicly-funded universities in Singapore.

#### ***National University of Singapore (NUS)***

NUS is a comprehensive and research-intensive university with sixteen faculties and schools, including a music conservatory. NUS offers traditional undergraduate programmes, the University Scholars Programme, a liberal arts degree programme at the Yale-NUS College, and a wide range of graduate programmes.

#### ***Nanyang Technological University (NTU)***

NTU is a comprehensive and research-intensive university, with a strong focus on engineering, science and technology. Apart from its five Colleges, NTU also has a medical school, and seven Autonomous Institutes, including the National Institute of Education.

#### ***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 is a specialised and research-intensive university. It focuses on design education in engineering and architecture. It also hosts an International Design Centre that conducts research on technologically-intensive 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 was restructured into 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.

### Continuing Education and Training (CET)

Working adults who wish to deepen their skills or acquire new ones may do so through Institutes of Higher Learning (IHLs). There is a wide range of learning options, which help to address manpower and skills gaps and enable the workforce to stay employable amidst rapid shifts in the economic landscape.

The ITE offers part-time *Nitec*, *Higher Nitec*, *Specialist Nitec*, and ITE Skills Certificate courses. It also offers MOE-subsidised lessons for Secondary 1 Normal to N- and O-Levels for adult learners. The polytechnics offer part-time programmes at diploma and post-diploma levels. The universities offer part-time degree courses at both undergraduate and postgraduate levels. In addition, ITE, polytechnics and universities offer tailored modular courses which allows more flexibility in learning.

Work-learn programmes were developed to equip Singaporeans with industry-relevant skills in authentic workplace learning environments.

# Education and Literacy ■

## Education Profile and Key Educational Indicators

The education composition of the population is commonly associated 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”, “Post-Secondary (Non-Tertiary)”, “Diploma & Professional Qualification” and “University”.

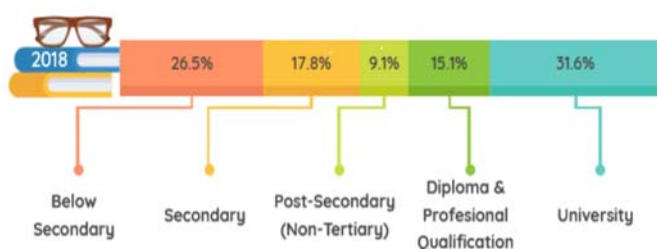
Statistics on the highest qualification attained of the population are collected through the Censuses of Population and the General Household Surveys conducted by the Singapore Department of Statistics (DOS) and the mid-year Labour Force Surveys conducted by the Ministry of Manpower. These statistics 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 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

Highest Qualification Attained in 2018  
(among Residents Aged 25 Years & Over)

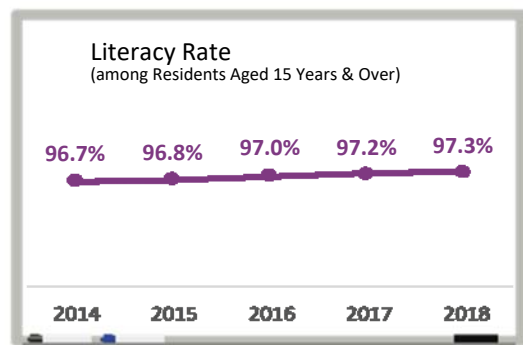


**Mean Years of Schooling:** Refers to the years of education a person received on average.

Mean Years of Schooling in 2018  
(among Residents Aged 25 Years & Over)



**Literacy Rate:** Refers to the proportion of population who are able to read with understanding (e.g. a newspaper). It is derived based on information as reported in surveys, including the Censuses of Population and General Household Surveys, as well as administrative data. Persons whose literacy is not known from surveys or administrative records are excluded from the computation of literacy rate.



## Other References

The Ministry of Education (MOE) publishes detailed education statistics which can be found in the “[Education Statistics Digest](#)”. 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

|   | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | Number<br>2018 |
|---|---------|---------|---------|---------|---------|---------|----------------|
| Total   | 685,841 | 675,034 | 668,697 | 661,365 | 651,655 | 657,561 | 654,229        |
| Primary Schools                               | 252,735 | 244,045 | 241,683 | 239,102 | 238,140 | 235,754 | 234,414        |
| Secondary Schools                             | 202,520 | 197,165 | 190,107 | 186,036 | 180,000 | 171,420 | 165,347        |
| Junior Colleges <sup>1</sup>                  | 32,087  | 32,165  | 31,613  | 29,559  | 28,442  | 29,252  | 29,012         |
| Institute of Technical Education <sup>2</sup> | 25,370  | 26,288  | 28,036  | 29,295  | 27,519  | 28,508  | 28,367         |
| Arts Institutions <sup>3</sup>                | 4,702   | 4,631   | 4,441   | 4,600   | 4,901   | 5,147   | 5,160          |
| Polytechnics <sup>4</sup>                     | 86,016  | 87,785  | 87,636  | 85,562  | 82,808  | 82,994  | 85,186         |
| National Institute of Education <sup>5</sup>  | 4,429   | 3,793   | 3,853   | 3,317   | 3,263   | 2,865   | 2,998          |
| Universities <sup>6</sup>                     | 77,982  | 79,162  | 81,328  | 83,894  | 86,582  | 101,621 | 103,745        |

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, SIM University (2014 to 2016) and Singapore University of Social Sciences (from 2017).

Notes : Data for primary and secondary schools, junior colleges and universities exclude private schools or institutions.

1 Includes Centralised Institute.

2 Refers to students in full-time courses.

3 Refers to students in full-time diploma and degree 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, Singapore University of Technology and Design, full-time undergraduates in SIM University (from 2014 to 2016) and Singapore University of Social Sciences (from 2017).

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## 22.2 STUDENTS AND TEACHERS IN EDUCATIONAL INSTITUTIONS, 2018

|   | Instituti-<br>ons | Students |         |         | Teachers |        |         | Number |
|---|-------------------|----------|---------|---------|----------|--------|---------|--------|
|   |                   | Total    | Males   | Females | Total    | Males  | Females |        |
| Total   | 373               | 654,229  | 336,844 | 317,385 | 51,288   | 21,164 | 30,124  |        |
| Primary Schools                               | 186               | 227,406  | 116,764 | 110,642 | 15,364   | 2,987  | 12,377  |        |
| Secondary Schools                             | 139               | 146,703  | 73,647  | 73,056  | 12,576   | 4,515  | 8,061   |        |
| Mixed Levels <sup>1</sup>                     | 16                | 36,311   | 19,523  | 16,788  | 2,994    | 1,101  | 1,893   |        |
| Junior Colleges <sup>2</sup>                  | 15                | 18,353   | 8,523   | 9,830   | 1,746    | 724    | 1,022   |        |
| Institute of Technical Education <sup>3</sup> | 3                 | 28,367   | 17,660  | 10,707  | 1,698    | 1,073  | 625     |        |
| Arts Institutions <sup>4</sup>                | 2                 | 5,160    | 1,524   | 3,636   | 903      | 509    | 394     |        |
| Polytechnics <sup>5</sup>                     | 5                 | 85,186   | 44,848  | 40,338  | 5,605    | 3,211  | 2,394   |        |
| National Institute of Education <sup>6</sup>  | 1                 | 2,998    | 926     | 2,072   | na       | na     | na      |        |
| Universities <sup>7</sup>                     | 6                 | 103,745  | 53,429  | 50,316  | 10,402   | 7,044  | 3,358   |        |

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 Singapore University of Social Science.

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 students in full-time courses.
- 4 Refers to LASALLE College of the Arts and Nanyang Academy of Fine Arts. Data refer to students in full-time diploma and degree courses.
- 5 Refers to Singapore Polytechnic, Ngee Ann Polytechnic, Temasek Polytechnic, Nanyang Polytechnic and Republic Polytechnic. Data for students exclude those enrolled in Polytechnic Foundation Programme.
- 6 Data for teachers are subsumed under Universities.
- 7 Refers to National University of Singapore, Nanyang Technological University, Singapore Management University, Singapore Institute of Technology, Singapore University of Technology and Design and Singapore University of Social Sciences.

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## 22.3

**ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED PRIMARY SCHOOLS  
BY LEVEL AND AGE**

|                       | Number  |         |         |         |         |         |         |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|
|                       | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
| Total                 | 252,735 | 244,045 | 241,683 | 239,102 | 238,140 | 235,754 | 234,414 |
| <b>Level</b>          |         |         |         |         |         |         |         |
| Primary 1             | 39,582  | 40,168  | 40,927  | 40,063  | 38,904  | 36,885  | 37,671  |
| Primary 2             | 39,258  | 39,407  | 40,179  | 40,774  | 40,077  | 38,997  | 37,092  |
| Primary 3             | 39,610  | 39,273  | 39,440  | 40,199  | 40,733  | 40,135  | 39,173  |
| Primary 4             | 42,652  | 39,510  | 39,252  | 39,461  | 40,136  | 40,618  | 40,180  |
| Primary 5             | 43,042  | 42,384  | 39,277  | 39,094  | 39,252  | 39,949  | 40,427  |
| Primary 6             | 48,591  | 43,303  | 42,608  | 39,511  | 39,038  | 39,170  | 39,871  |
| <b>Age (in years)</b> |         |         |         |         |         |         |         |
| Under 7               | 38,952  | 39,576  | 40,444  | 39,720  | 38,481  | 36,478  | 37,278  |
| 7 & Under 8           | 38,975  | 39,157  | 39,879  | 40,538  | 40,013  | 38,830  | 36,902  |
| 8 & Under 9           | 39,020  | 38,968  | 39,131  | 39,765  | 40,487  | 40,056  | 39,000  |
| 9 & Under 10          | 41,901  | 38,973  | 38,953  | 39,081  | 39,655  | 40,360  | 40,037  |
| 10 & Under 11         | 42,436  | 41,743  | 38,840  | 38,931  | 38,949  | 39,512  | 40,244  |
| 11 & Under 12         | 47,889  | 42,167  | 41,505  | 38,632  | 38,710  | 38,726  | 39,276  |
| 12 & Under 13         | 2,620   | 2,601   | 2,217   | 1,928   | 1,453   | 1,469   | 1,377   |
| 13 & Under 14         | 781     | 741     | 654     | 466     | 351     | 291     | 275     |
| 14 & Over             | 161     | 119     | 60      | 41      | 41      | 32      | 25      |

Source : Ministry of Education

Notes : Age is as at the start of the year.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=6580](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=6580)



## 22.4

**ENROLMENT IN GOVERNMENT, GOVERNMENT-AIDED,  
INDEPENDENT, SPECIALISED INDEPENDENT AND SPECIALISED SECONDARY  
SCHOOLS AND JUNIOR COLLEGES BY LEVEL AND AGE**

|                               | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    | Number |
|-------------------------------|---------|---------|---------|---------|---------|---------|---------|--------|
| <b>Total</b>                  | 234,607 | 229,330 | 221,720 | 215,595 | 208,442 | 200,672 | 194,359 |        |
| <b>Level</b>                  |         |         |         |         |         |         |         |        |
| Secondary 1                   | 45,198  | 48,094  | 42,969  | 42,217  | 39,550  | 38,982  | 39,086  |        |
| Express                       | 27,293  | 28,870  | 27,490  | 26,736  | 24,613  | 24,475  | 24,432  |        |
| Normal (Academic)             | 11,848  | 12,747  | 9,873   | 9,972   | 10,033  | 9,559   | 9,663   |        |
| Normal (Technical)            | 6,057   | 6,477   | 5,606   | 5,509   | 4,904   | 4,948   | 4,991   |        |
| Secondary 2                   | 45,705  | 45,548  | 48,328  | 43,256  | 42,477  | 39,734  | 39,030  |        |
| Express                       | 28,038  | 27,671  | 29,241  | 27,719  | 26,976  | 24,915  | 24,645  |        |
| Normal (Academic)             | 11,825  | 12,132  | 12,973  | 10,141  | 10,248  | 10,170  | 9,710   |        |
| Normal (Technical)            | 5,842   | 5,745   | 6,114   | 5,396   | 5,253   | 4,649   | 4,675   |        |
| Secondary 3                   | 50,795  | 46,715  | 46,712  | 49,202  | 44,250  | 43,409  | 40,532  |        |
| Express                       | 31,387  | 28,897  | 28,619  | 30,007  | 28,387  | 27,750  | 25,619  |        |
| Normal (Academic)             | 13,324  | 12,144  | 12,447  | 13,222  | 10,614  | 10,504  | 10,378  |        |
| Normal (Technical)            | 6,084   | 5,674   | 5,646   | 5,973   | 5,249   | 5,155   | 4,535   |        |
| Secondary 4                   | 51,325  | 49,190  | 45,183  | 45,413  | 47,869  | 43,031  | 42,238  |        |
| Express                       | 32,011  | 30,585  | 28,293  | 28,115  | 29,444  | 27,780  | 27,173  |        |
| Normal (Academic)             | 13,084  | 12,776  | 11,446  | 11,784  | 12,533  | 10,093  | 9,979   |        |
| Normal (Technical)            | 6,230   | 5,829   | 5,444   | 5,514   | 5,892   | 5,158   | 5,086   |        |
| Secondary 5 Normal (Academic) | 9,497   | 7,618   | 6,915   | 5,948   | 5,854   | 6,264   | 4,461   |        |
| Junior College 1 / Pre-U 1    | 16,727  | 16,890  | 15,937  | 14,512  | 14,602  | 15,373  | 14,398  |        |
| Junior College 2 / Pre-U 2    | 15,023  | 14,973  | 15,386  | 14,675  | 13,455  | 13,608  | 14,436  |        |
| Pre-U 3                       | 337     | 302     | 290     | 372     | 385     | 271     | 178     |        |
| <b>Age (in years)</b>         |         |         |         |         |         |         |         |        |
| Under 13                      | 41,639  | 45,172  | 39,910  | 39,483  | 37,139  | 37,155  | 37,274  |        |
| 13 & Under 14                 | 43,466  | 43,450  | 47,056  | 41,587  | 41,011  | 38,204  | 38,221  |        |
| 14 & Under 15                 | 48,216  | 44,159  | 44,160  | 47,723  | 42,044  | 41,381  | 38,445  |        |
| 15 & Under 16                 | 50,415  | 48,542  | 44,426  | 44,343  | 47,901  | 42,214  | 41,480  |        |
| 16 & Under 17                 | 28,366  | 26,209  | 24,837  | 22,433  | 22,213  | 23,962  | 20,511  |        |
| 17 & Under 18                 | 17,658  | 17,220  | 16,774  | 16,029  | 14,514  | 14,673  | 15,614  |        |
| 18 & Under 19                 | 3,704   | 3,598   | 3,578   | 3,173   | 2,880   | 2,433   | 2,275   |        |
| 19 & Under 20                 | 947     | 855     | 836     | 696     | 617     | 549     | 466     |        |
| 20 & Over                     | 196     | 125     | 143     | 128     | 123     | 101     | 73      |        |

Source : Ministry of Education

Notes : Normal (Technical) includes students on ITE Skill Certificate Courses.  
Age is as at the start of the year.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refid=11206](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refid=11206)

## 22.5 ENROLMENT IN POLYTECHNIC DIPLOMA COURSES BY TYPE OF COURSE

| Type of Course                           | Number |        |        |        |        |        |        |
|--|--------|--------|--------|--------|--------|--------|--------|
|  | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
| <b>MALES</b>                             | 44,092 | 45,299 | 44,893 | 43,235 | 41,287 | 40,930 | 41,480 |
| Education                                | 54     | 79     | 69     | 71     | 75     | 121    | 153    |
| Applied Arts <sup>1</sup>                | 2,637  | 2,546  | 2,685  | 2,287  | 2,172  | 2,163  | 2,248  |
| Humanities & Social Sciences             | 966    | 1,053  | 1,092  | 274    | 262    | 256    | 262    |
| Mass Communication & Information Science | 513    | 522    | 519    | 537    | 484    | 486    | 497    |
| Business & Administration <sup>2</sup>   | 6,906  | 7,440  | 7,414  | 6,624  | 6,284  | 6,143  | 6,285  |
| Legal Studies                            | 211    | 221    | 223    | 218    | 203    | 190    | 184    |
| Science & Related Technologies           | 1,764  | 1,818  | 1,852  | 1,823  | 1,773  | 1,679  | 1,612  |
| Health Sciences                          | 1,880  | 1,812  | 1,830  | 2,203  | 2,102  | 2,010  | 2,032  |
| Information Technology                   | 7,048  | 7,263  | 7,085  | 6,503  | 6,107  | 5,946  | 6,117  |
| Architecture & Building <sup>3</sup>     | 903    | 986    | 1,010  | 934    | 832    | 1,061  | 1,115  |
| Engineering Sciences                     | 20,252 | 20,426 | 19,405 | 19,234 | 18,567 | 18,525 | 18,446 |
| Services <sup>4</sup>                    | 958    | 1,133  | 1,709  | 2,527  | 2,426  | 2,350  | 2,529  |
| <b>FEMALES</b>                           | 38,773 | 39,541 | 39,407 | 38,518 | 36,841 | 36,283 | 36,353 |
| Education                                | 886    | 966    | 960    | 1,067  | 1,407  | 1,842  | 2,174  |
| Applied Arts <sup>1</sup>                | 3,346  | 3,389  | 3,448  | 3,186  | 3,064  | 3,128  | 3,253  |
| Humanities & Social Sciences             | 1,248  | 1,284  | 1,307  | 773    | 758    | 792    | 809    |
| Mass Communication & Information Science | 1,182  | 1,328  | 1,413  | 1,496  | 1,436  | 1,368  | 1,420  |
| Business & Administration <sup>2</sup>   | 11,139 | 11,881 | 12,267 | 10,968 | 10,425 | 10,036 | 10,004 |
| Legal Studies                            | 340    | 331    | 312    | 312    | 308    | 290    | 281    |
| Science & Related Technologies           | 2,971  | 2,990  | 3,046  | 2,881  | 2,723  | 2,507  | 2,442  |
| Health Sciences                          | 5,621  | 5,468  | 5,219  | 5,803  | 5,704  | 5,849  | 6,032  |
| Information Technology                   | 4,823  | 4,541  | 4,226  | 3,644  | 3,186  | 2,904  | 2,646  |
| Architecture & Building <sup>3</sup>     | 1,185  | 1,310  | 1,329  | 1,283  | 1,207  | 1,139  | 1,120  |
| Engineering Sciences                     | 5,472  | 5,385  | 4,920  | 5,253  | 4,892  | 4,792  | 4,666  |
| Services <sup>4</sup>                    | 560    | 668    | 960    | 1,852  | 1,731  | 1,636  | 1,506  |

Sources : Ministry of Education, 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 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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15199](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15199)

## 22.6

ENROLMENT IN UNIVERSITY FIRST DEGREE COURSES BY TYPE OF COURSE <sup>1</sup>

| Type of Course                               | Number |        |        |        |        |        |        |
|--|--------|--------|--------|--------|--------|--------|--------|
|  | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
| <b>MALES</b>                                 | 30,447 | 30,863 | 31,800 | 32,702 | 34,010 | 41,471 | 42,659 |
| Education                                    | 420    | 317    | 258    | 207    | 169    | 263    | 230    |
| Applied Arts <sup>2</sup>                    | 586    | 628    | 641    | 665    | 670    | 725    | 698    |
| Humanities & Social Sciences                 | 3,327  | 3,550  | 3,756  | 3,861  | 4,046  | 5,155  | 5,227  |
| Mass Communication                           | 184    | 173    | 174    | 174    | 178    | 411    | 414    |
| Accountancy                                  | 1,685  | 1,768  | 1,912  | 2,039  | 2,181  | 2,425  | 2,486  |
| Business & Administration                    | 2,705  | 2,782  | 2,980  | 3,111  | 3,284  | 5,212  | 5,430  |
| Law  | 757    | 755    | 799    | 844    | 853    | 879    | 890    |
| Natural, Physical &<br>Mathematical Sciences | 3,258  | 3,140  | 3,223  | 3,237  | 3,300  | 3,395  | 3,329  |
| Medicine                                     | 695    | 725    | 784    | 860    | 933    | 1,016  | 1,079  |
| Dentistry                                    | 81     | 83     | 84     | 85     | 75     | 76     | 89     |
| Health Sciences                              | 345    | 387    | 422    | 441    | 525    | 633    | 760    |
| Information Technology                       | 2,617  | 2,737  | 2,809  | 3,071  | 3,352  | 4,474  | 4,907  |
| Architecture & Building <sup>3</sup>         | 710    | 760    | 777    | 784    | 775    | 1,403  | 1,388  |
| Engineering Sciences                         | 12,732 | 12,687 | 12,895 | 12,971 | 13,314 | 14,631 | 14,930 |
| Services <sup>4</sup>                        | 345    | 371    | 286    | 352    | 355    | 654    | 671    |
| <b>FEMALES</b>                               | 30,309 | 30,943 | 32,063 | 33,412 | 34,266 | 41,176 | 42,307 |
| Education                                    | 1,189  | 1,021  | 845    | 771    | 583    | 1,320  | 1,260  |
| Applied Arts <sup>2</sup>                    | 761    | 864    | 937    | 934    | 958    | 1,038  | 1,034  |
| Humanities & Social Sciences                 | 6,760  | 7,095  | 7,535  | 8,054  | 8,449  | 10,603 | 10,789 |
| Mass Communication                           | 494    | 529    | 555    | 602    | 596    | 958    | 973    |
| Accountancy                                  | 2,316  | 2,274  | 2,456  | 2,684  | 2,909  | 3,225  | 3,140  |
| Business & Administration                    | 3,368  | 3,406  | 3,597  | 4,027  | 4,230  | 6,389  | 6,971  |
| Law  | 717    | 736    | 715    | 706    | 740    | 767    | 818    |
| Natural, Physical &<br>Mathematical Sciences | 4,625  | 4,715  | 4,922  | 4,989  | 4,967  | 4,646  | 4,231  |
| Medicine                                     | 679    | 744    | 801    | 859    | 912    | 946    | 966    |
| Dentistry                                    | 120    | 124    | 132    | 134    | 145    | 141    | 135    |
| Health Sciences                              | 948    | 1,054  | 1,076  | 1,126  | 1,335  | 1,611  | 1,952  |
| Information Technology                       | 1,236  | 1,321  | 1,343  | 1,504  | 1,513  | 1,851  | 2,143  |
| Architecture & Building <sup>3</sup>         | 1,119  | 1,123  | 1,213  | 1,189  | 1,205  | 1,521  | 1,509  |
| Engineering Sciences                         | 5,275  | 5,386  | 5,543  | 5,460  | 5,342  | 5,508  | 5,721  |
| Services <sup>4</sup>                        | 702    | 551    | 393    | 373    | 382    | 440    | 456    |

Sources : Ministry of Education, National University of Singapore, Nanyang Technological University, Singapore Management University, Singapore Institute of Technology, Singapore University of Technology and Design, SIM University (from 2014 to 2016) and Singapore University of Social Sciences (from 2017).

Notes : Data prior to 2015 are classified according to the Singapore Standard Educational Classification (SSEC) 2010, while data from 2015 are classified according to SSEC 2015.  
Covers full-time and part-time first degree courses.

- 1 With effect from 2017, there are courses whose main field of study is not elsewhere classifiable.
- 2 Includes Industrial Design.
- 3 Includes Real Estate.
- 4 Includes Maritime Studies.

## 22.7

## GRADUATES FROM POLYTECHNIC DIPLOMA COURSES BY TYPE OF COURSE

| Type of Course                              | Number |        |        |        |        |        |        |
|---|--------|--------|--------|--------|--------|--------|--------|
|   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
| <b>MALES</b>                                | 12,819 | 13,213 | 13,602 | 13,632 | 13,693 | 13,359 | 12,457 |
| Education                                   | 16     | 12     | 21     | 20     | 30     | 13     | 25     |
| Applied Arts <sup>1</sup>                   | 704    | 783    | 725    | 731    | 759    | 682    | 669    |
| Humanities & Social Sciences                | 188    | 258    | 315    | 86     | 92     | 90     | 77     |
| Mass Communication &<br>Information Science | 201    | 175    | 162    | 174    | 203    | 179    | 145    |
| Business & Administration <sup>2</sup>      | 2,098  | 2,118  | 2,306  | 2,171  | 2,273  | 2,167  | 1,921  |
| Legal Studies                               | 43     | 66     | 62     | 59     | 66     | 63     | 60     |
| Science & Related Technologies              | 546    | 547    | 555    | 577    | 590    | 589    | 551    |
| Health Sciences                             | 576    | 612    | 594    | 622    | 661    | 696    | 670    |
| Information Technology                      | 2,096  | 2,062  | 2,133  | 2,156  | 2,051  | 2,004  | 1,773  |
| Architecture & Building <sup>3</sup>        | 241    | 277    | 272    | 319    | 323    | 380    | 345    |
| Engineering Sciences                        | 5,870  | 5,938  | 5,990  | 5,946  | 5,838  | 5,704  | 5,562  |
| Services <sup>4</sup>                       | 240    | 365    | 467    | 771    | 807    | 792    | 659    |
| <b>FEMALES</b>                              | 12,011 | 12,189 | 12,354 | 12,378 | 12,573 | 12,446 | 11,782 |
| Education                                   | 202    | 302    | 273    | 298    | 292    | 387    | 416    |
| Applied Arts <sup>1</sup>                   | 855    | 963    | 995    | 977    | 1,024  | 1,000  | 941    |
| Humanities & Social Sciences                | 289    | 369    | 388    | 257    | 261    | 257    | 233    |
| Mass Communication &<br>Information Science | 452    | 463    | 393    | 470    | 498    | 524    | 437    |
| Business & Administration <sup>2</sup>      | 3,462  | 3,490  | 3,598  | 3,639  | 3,655  | 3,681  | 3,371  |
| Legal Studies                               | 90     | 126    | 87     | 87     | 92     | 94     | 93     |
| Science & Related Technologies              | 845    | 922    | 931    | 923    | 914    | 981    | 846    |
| Health Sciences                             | 1,971  | 1,868  | 1,843  | 1,697  | 1,895  | 1,771  | 1,895  |
| Information Technology                      | 1,589  | 1,513  | 1,488  | 1,300  | 1,281  | 1,099  | 1,001  |
| Architecture & Building <sup>3</sup>        | 271    | 353    | 435    | 396    | 420    | 444    | 383    |
| Engineering Sciences                        | 1,856  | 1,672  | 1,656  | 1,718  | 1,650  | 1,633  | 1,610  |
| Services <sup>4</sup>                       | 129    | 148    | 267    | 616    | 591    | 575    | 556    |

Sources : Ministry of Education, 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 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 <sup>1</sup>

| Type of Course                            | Number |       |       |       |       |       |       |
|---|--------|-------|-------|-------|-------|-------|-------|
|   | 2012   | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
| <b>MALES</b>                              | 6,778  | 7,724 | 7,756 | 7,872 | 7,703 | 8,963 | 9,404 |
| Education                                 | 116    | 167   | 124   | 99    | 79    | 65    | 73    |
| Applied Arts <sup>2</sup>                 | 108    | 138   | 165   | 187   | 173   | 175   | 189   |
| Humanities & Social Sciences              | 737    | 818   | 803   | 743   | 803   | 1,078 | 1,095 |
| Mass Communication                        | 37     | 62    | 44    | 42    | 35    | 78    | 68    |
| Accountancy                               | 447    | 399   | 473   | 480   | 439   | 574   | 596   |
| Business & Administration                 | 572    | 693   | 631   | 771   | 751   | 973   | 1,082 |
| Law                                       | 140    | 189   | 180   | 187   | 178   | 187   | 238   |
| Natural, Physical & Mathematical Sciences | 837    | 870   | 786   | 790   | 755   | 743   | 849   |
| Medicine                                  | 129    | 134   | 134   | 137   | 131   | 145   | 166   |
| Dentistry                                 | 21     | 21    | 15    | 19    | 25    | 23    | 14    |
| Health Sciences                           | 61     | 95    | 124   | 128   | 112   | 142   | 150   |
| Information Technology                    | 484    | 573   | 708   | 689   | 670   | 758   | 954   |
| Architecture & Building <sup>3</sup>      | 155    | 143   | 146   | 188   | 185   | 273   | 271   |
| Engineering Sciences                      | 2,880  | 3,286 | 3,288 | 3,258 | 3,283 | 3,593 | 3,514 |
| Services <sup>4</sup>                     | 54     | 136   | 135   | 154   | 84    | 145   | 128   |
| <b>FEMALES</b>                            | 7,228  | 8,085 | 7,620 | 7,638 | 8,192 | 9,574 | 9,593 |
| Education                                 | 526    | 422   | 401   | 317   | 341   | 328   | 358   |
| Applied Arts <sup>2</sup>                 | 149    | 152   | 229   | 233   | 259   | 276   | 293   |
| Humanities & Social Sciences              | 1,494  | 1,766 | 1,619 | 1,450 | 1,760 | 2,353 | 2,369 |
| Mass Communication                        | 133    | 100   | 114   | 130   | 153   | 192   | 196   |
| Accountancy                               | 589    | 688   | 649   | 556   | 664   | 752   | 752   |
| Business & Administration                 | 825    | 897   | 846   | 848   | 969   | 1,242 | 1,291 |
| Law                                       | 207    | 179   | 176   | 168   | 173   | 188   | 165   |
| Natural, Physical & Mathematical Sciences | 1,074  | 1,257 | 1,103 | 1,145 | 1,195 | 1,337 | 1,285 |
| Medicine                                  | 123    | 124   | 127   | 115   | 147   | 156   | 189   |
| Dentistry                                 | 21     | 27    | 30    | 32    | 28    | 33    | 39    |
| Health Sciences                           | 218    | 296   | 309   | 353   | 368   | 410   | 385   |
| Information Technology                    | 280    | 251   | 289   | 377   | 381   | 367   | 393   |
| Architecture & Building <sup>3</sup>      | 241    | 258   | 258   | 351   | 274   | 303   | 398   |
| Engineering Sciences                      | 1,213  | 1,323 | 1,251 | 1,375 | 1,385 | 1,478 | 1,346 |
| Services <sup>4</sup>                     | 135    | 345   | 219   | 188   | 95    | 124   | 108   |

Sources : Ministry of Education, National University of Singapore, Nanyang Technological University, Singapore Management University, Singapore Institute of Technology, Singapore University of Technology and Design (from 2015) and Singapore University of Social Sciences (from 2017).

Notes : Data prior to 2015 are classified according to the Singapore Standard Educational Classification (SSEC) 2010, while data from 2015 are classified according to SSEC 2015.

Covers full-time and part-time first degree courses.

Data refer to academic year.

1 With effect from 2017, there are courses whose main field of study is not elsewhere classifiable.

2 Includes Industrial Design.

3 Includes Real Estate.

4 Includes Maritime Studies.

## 22.9

ENROLMENT IN POLYTECHNIC ADVANCED DIPLOMA COURSES BY  
TYPE OF COURSE

| Type of Course                         | Number |       |       |       |       |       |       |
|--|--------|-------|-------|-------|-------|-------|-------|
|  | 2012   | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
| Total                                  | 3,151  | 2,945 | 3,336 | 3,809 | 4,680 | 5,781 | 7,353 |
| Education                              | 239    | 376   | 281   | 357   | 388   | 391   | 666   |
| Applied Arts <sup>1</sup>              | 78     | 22    | 48    | 71    | 132   | 237   | 387   |
| Humanities & Social Sciences           | 128    | 105   | 121   | 27    | 46    | 115   | 79    |
| Business & Administration <sup>2</sup> | 533    | 472   | 491   | 479   | 502   | 782   | 1,055 |
| Science & Related Technologies         | 148    | 118   | 197   | 176   | 264   | 282   | 528   |
| Health Sciences                        | 1,203  | 1,120 | 1,120 | 1,176 | 1,177 | 1,377 | 1,376 |
| Information Technology                 | 288    | 415   | 572   | 886   | 1,370 | 1,771 | 2,279 |
| Architecture & Building <sup>3</sup>   | 42     | 37    | 62    | 61    | 87    | 149   | 162   |
| Engineering Sciences                   | 427    | 222   | 439   | 556   | 589   | 579   | 675   |
| Services <sup>4</sup>                  | 65     | 58    | 5     | 20    | 125   | 98    | 146   |

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 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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15212](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15212)

## 22.10

## ENROLMENT IN HIGHER DEGREE COURSES BY TYPE OF COURSE

| Type of Course                               | Number |        |        |        |        |        |        |
|--|--------|--------|--------|--------|--------|--------|--------|
|  | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
| Total <sup>1</sup>                           | 19,040 | 19,137 | 19,198 | 19,548 | 20,079 | 20,670 | 20,417 |
| Education                                    | 1,266  | 1,273  | 1,229  | 1,364  | 1,397  | 1,306  | 1,296  |
| Humanities & Social Sciences                 | 1,957  | 2,085  | 2,133  | 2,104  | 2,148  | 2,825  | 2,495  |
| Mass Communication                           | 381    | 348    | 364    | 390    | 364    | 471    | 467    |
| Business & Administration <sup>2</sup>       | 2,746  | 2,997  | 3,014  | 3,302  | 3,806  | 3,262  | 3,683  |
| Law  | 305    | 289    | 275    | 281    | 262    | 261    | 258    |
| Natural, Physical &<br>Mathematical Sciences | 2,764  | 2,398  | 2,317  | 2,247  | 2,182  | 2,205  | 2,210  |
| Health Sciences <sup>3</sup>                 | 1,447  | 1,495  | 1,562  | 1,562  | 1,414  | 1,658  | 1,538  |
| Information Technology                       | 1,273  | 1,384  | 1,626  | 1,685  | 1,861  | 1,766  | 1,943  |
| Architecture & Building <sup>4</sup>         | 590    | 489    | 466    | 458    | 529    | 663    | 656    |
| Engineering Sciences                         | 6,119  | 6,229  | 6,059  | 5,967  | 5,902  | 6,094  | 5,634  |
| Services                                     | 179    | 105    | 104    | 149    | 143    | 77     | 152    |
| Others                                       | 13     | 12     | 27     | 36     | 41     | 49     | 50     |

Sources : National Institute of Education, National University of Singapore, Nanyang Technological University, Singapore Management University, Singapore University of Technology and Design, Singapore University of Social Sciences (from 2017) and Singapore Institute of Technology (from 2017).

Notes : Data prior to 2015 are classified according to the Singapore Standard Educational Classification (SSEC) 2010, while data from 2015 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, Singapore University of Social Sciences, Singapore Institute of Technology, 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.

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## 22.11 GRADUATES FROM POLYTECHNIC ADVANCED DIPLOMA COURSES BY TYPE OF COURSE

| Type of Course                         | Number |       |       |       |       |       |       |
|--|--------|-------|-------|-------|-------|-------|-------|
|  | 2012   | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
| Total                                  | 2,063  | 2,012 | 1,610 | 1,945 | 2,216 | 2,886 | 4,056 |
| Education                              | 152    | 215   | 123   | 164   | 182   | 172   | 276   |
| Applied Arts <sup>1</sup>              | 43     | 16    | 12    | 33    | 53    | 76    | 203   |
| Humanities & Social Sciences           | 66     | 56    | 50    | 0     | 24    | 106   | 64    |
| Business & Administration <sup>2</sup> | 427    | 251   | 209   | 206   | 157   | 284   | 546   |
| Science & Related Technologies         | 147    | 81    | 63    | 92    | 138   | 135   | 303   |
| Health Sciences                        | 653    | 773   | 640   | 720   | 694   | 798   | 827   |
| Information Technology                 | 141    | 158   | 245   | 384   | 573   | 813   | 1,230 |
| Architecture & Building <sup>3</sup>   | 28     | 41    | 38    | 31    | 37    | 125   | 104   |
| Engineering Sciences                   | 353    | 370   | 225   | 314   | 271   | 324   | 432   |
| Services <sup>4</sup>                  | 53     | 51    | 5     | 1     | 87    | 53    | 71    |

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 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.

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## 22.12

## GRADUATES FROM HIGHER DEGREE COURSES BY TYPE OF COURSE

| Type of Course                               | Number |       |       |       |       |       |       |
|--|--------|-------|-------|-------|-------|-------|-------|
|  | 2012   | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
| Total <sup>1</sup>                           | 7,186  | 7,514 | 7,824 | 7,811 | 8,280 | 9,143 | 9,571 |
| Education                                    | 459    | 561   | 531   | 406   | 522   | 474   | 548   |
| Humanities & Social Sciences                 | 732    | 739   | 855   | 818   | 864   | 1,348 | 1,241 |
| Mass Communication                           | 196    | 210   | 193   | 190   | 228   | 312   | 306   |
| Business & Administration <sup>2</sup>       | 1,518  | 1,561 | 1,738 | 1,769 | 1,936 | 2,004 | 2,255 |
| Law  | 207    | 189   | 173   | 167   | 174   | 155   | 161   |
| Natural, Physical &<br>Mathematical Sciences | 567    | 558   | 629   | 610   | 618   | 641   | 756   |
| Health Sciences <sup>3</sup>                 | 633    | 732   | 730   | 778   | 774   | 846   | 870   |
| Information Technology                       | 580    | 613   | 682   | 763   | 806   | 677   | 876   |
| Architecture & Building <sup>4</sup>         | 306    | 252   | 266   | 282   | 326   | 400   | 280   |
| Engineering Sciences                         | 1,896  | 1,989 | 1,947 | 1,905 | 1,933 | 2,214 | 2,140 |
| Services                                     | 92     | 83    | 66    | 100   | 91    | 34    | 95    |
| Others                                       | 0      | 3     | 4     | 1     | 5     | 11    | 15    |

Sources : National Institute of Education, National University of Singapore, Nanyang Technological University, Singapore Management University, Singapore University of Technology and Design (from 2013), Singapore University of Social Sciences (from 2017) and Singapore Institute of Technology (from 2018).

Notes : Data prior to 2015 are classified according to the Singapore Standard Educational Classification (SSEC) 2010, while data from 2015 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, Singapore University of Social Sciences, Singapore Institute of Technology, 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.

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## 22.13

## ENROLMENT AND GRADUATES OF ARTS INSTITUTIONS BY COURSE AND LEVEL, 2018

| Course/Level              | Number    |       |         |           |       |         |
|---------------------------|-----------|-------|---------|-----------|-------|---------|
|                           | Enrolment |       |         | Graduates |       |         |
|                           | Total     | Males | Females | Total     | Males | Females |
| Total                     | 5,160     | 1,524 | 3,636   | 1,445     | 412   | 1,033   |
| Business & Administration |           |       |         |           |       |         |
| Diploma                   | 212       | 56    | 156     | 62        | 16    | 46      |
| Design & Applied Arts     |           |       |         |           |       |         |
| Diploma                   | 2,200     | 568   | 1,632   | 541       | 149   | 392     |
| Degree                    | 768       | 167   | 601     | 253       | 57    | 196     |
| Fine & Applied Arts       |           |       |         |           |       |         |
| Degree                    | 118       | 23    | 95      | 34        | 5     | 29      |
| Fine & Performing Arts    |           |       |         |           |       |         |
| Diploma                   | 1,090     | 372   | 718     | 340       | 101   | 239     |
| Degree                    | 362       | 118   | 244     | 121       | 38    | 83      |
| Media Production          |           |       |         |           |       |         |
| Diploma                   | 276       | 155   | 121     | 58        | 31    | 27      |
| Degree                    | 134       | 65    | 69      | 36        | 15    | 21      |

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.

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[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15187](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15187)

## 22.14

**INTAKE OF STUDENTS/TRAINEES UNDER THE FULL-TIME INSTITUTIONAL  
TRAINING AND TRAINEESHIP PROGRAMMES AND STUDENTS/TRAINEES  
WHO COMPLETED THE PROGRAMMES, 2018**

| Type of Training/Level                         | Number                      |       |         |   |       |         |
|--|-----------------------------|-------|---------|---|-------|---------|
|  | Intake of Students/Trainees |       |         | Students/Trainees who Completed the Programmes <sup>1</sup> |       |         |
|  | Total                       | Males | Females | Total   | Males | Females |
| Total  | 15,218                      | 9,433 | 5,785   | 13,643  | 8,508 | 5,135   |
| Engineering                                    |                             |       |         |   |       |         |
| Diploma  | 155                         | 142   | 13      | 66  | 60    | 6       |
| Higher National ITE Certificate (Higher Nitec) | 3,055                       | 2,409 | 646     | 2,600   | 2,042 | 558     |
| National ITE Certificate (Nitec)               | 3,980                       | 3,205 | 775     | 3,844   | 3,112 | 732     |
| Info-Communications Technology                 |                             |       |         |   |       |         |
| Diploma  | 24                          | 17    | 7       | na  | na    | na      |
| Higher National ITE Certificate (Higher Nitec) | 920                         | 646   | 274     | 769   | 504   | 265     |
| National ITE Certificate (Nitec)               | 1,089                       | 745   | 344     | 1,145   | 807   | 338     |
| Business & Services                            |                             |       |         |   |       |         |
| Diploma  | 48                          | 23    | 25      | 19  | 12    | 7       |
| Higher National ITE Certificate (Higher Nitec) | 2,600                       | 1,054 | 1,546   | 2,119   | 828   | 1,291   |
| National ITE Certificate (Nitec)               | 3,347                       | 1,192 | 2,155   | 3,081   | 1,143 | 1,938   |

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.

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## 22.15 TRAINING PLACES TAKEN UP UNDER THE SKILLS TRAINING AND CONTINUING ACADEMIC EDUCATION PROGRAMMES AND PERSONS WHO COMPLETED THE PROGRAMMES, 2018

| Type of Training/Level                                  | Number                   |       |         |   |       |         |
|---|--------------------------|-------|---------|---|-------|---------|
|   | Training Places Taken Up |       |         | Persons who Completed the Programmes <sup>1</sup> |       |         |
|   | Total                    | Males | Females | Total   | Males | Females |
| Total   | 11,749                   | 7,404 | 4,345   | 3,719   | 2,583 | 1,136   |
| Skills Training Programme <sup>2</sup>                  | 10,115                   | 6,690 | 3,425   | 2,993   | 2,283 | 710     |
| Engineering   |                          |       |         |   |       |         |
| Higher National ITE Certificate ( <i>Higher Nitec</i> ) | 1,376                    | 1,201 | 175     | 170   | 153   | 17      |
| Specialist ITE Certificate ( <i>Specialist Nitec</i> )  | na                       | na    | na      | na  | na    | na      |
| National ITE Certificate ( <i>Nitec</i> )               | 2,186                    | 1,912 | 274     | 370   | 323   | 47      |
| ITE Skills Certificate ( <i>ISC</i> )                   | 2,091                    | 2,038 | 53      | 1,342   | 1,317 | 25      |
| Info-Communications Technology                          |                          |       |         |   |       |         |
| Higher National ITE Certificate ( <i>Higher Nitec</i> ) | 254                      | 199   | 55      | 18  | 16    | 2       |
| National ITE Certificate ( <i>Nitec</i> )               | 327                      | 251   | 76      | 54  | 46    | 8       |
| Business & Services                                     |                          |       |         |   |       |         |
| Higher National ITE Certificate ( <i>Higher Nitec</i> ) | 999                      | 267   | 732     | 86  | 30    | 56      |
| National ITE Certificate ( <i>Nitec</i> )               | 2,114                    | 463   | 1,651   | 330   | 69    | 261     |
| ITE Skills Certificate ( <i>ISC</i> )                   | 768                      | 359   | 409     | 623   | 329   | 294     |
| Continuing Academic Education Programme                 |                          |       |         |   |       |         |
| Continuing Education (Secondary 1-5)                    | 1,634                    | 714   | 920     | 726   | 300   | 426     |

Source : Institute of Technical Education

- 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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=6572](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=6572)

## 22.16 GOVERNMENT EXPENDITURE ON EDUCATION

Thousand Dollars

|   | FY2012     | FY2013     | FY2014     | FY2015     | FY2016     | FY2017     | FY2018     |
|---|------------|------------|------------|------------|------------|------------|------------|
| Total   | 10,496,911 | 11,638,313 | 11,598,458 | 11,934,956 | 12,468,854 | 12,690,630 | 13,090,000 |
| Recurrent Expenditure                               | 9,637,312  | 10,664,868 | 10,712,445 | 11,235,741 | 11,812,194 | 12,079,538 | 12,640,000 |
| Primary Schools                                     | 1,946,159  | 2,185,580  | 2,263,510  | 2,457,901  | 2,563,211  | 2,731,770  | 2,892,452  |
| Secondary Schools &<br>Junior Colleges <sup>1</sup> | 2,680,062  | 2,912,565  | 3,001,876  | 3,106,955  | 3,176,978  | 3,205,954  | 3,284,458  |
| Institute of Technical<br>Education                 | 351,658    | 376,896    | 399,949    | 432,961    | 459,931    | 471,088    | 485,354    |
| Tertiary  | 3,846,318  | 4,367,236  | 4,170,881  | 4,302,171  | 4,569,272  | 4,427,056  | 4,638,993  |
| Universities <sup>2</sup>                           | 2,536,971  | 2,969,921  | 2,736,642  | 2,897,770  | 3,138,310  | 3,046,680  | 3,254,804  |
| National Institute of<br>Education                  | 113,312    | 99,668     | 94,941     | 86,526     | 80,290     | 74,774     | 109,575    |
| Polytechnics <sup>3</sup>                           | 1,196,035  | 1,297,647  | 1,339,298  | 1,317,875  | 1,350,672  | 1,305,602  | 1,274,614  |
| Others <sup>4</sup>                                 | 813,115    | 822,591    | 876,229    | 935,753    | 1,042,802  | 1,243,670  | 1,338,743  |
| Development Expenditure                             | 859,599    | 973,445    | 886,013    | 699,215    | 656,660    | 611,092    | 450,000    |

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, Singapore University of Social Sciences (previously known as 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).

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## 22.17 GOVERNMENT RECURRENT EXPENDITURE ON EDUCATION PER STUDENT

|   | Dollars |        |        |        |        |        |        |
|---|---------|--------|--------|--------|--------|--------|--------|
|   | FY2012  | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 |
| Primary Schools                               | 7,396   | 8,549  | 9,123  | 10,081 | 10,596 | 11,338 | 12,020 |
| Secondary Schools <sup>1</sup>                | 9,940   | 11,434 | 12,261 | 13,213 | 13,869 | 14,527 | 15,518 |
| Junior Colleges <sup>2</sup>                  | 12,806  | 13,942 | 14,379 | 15,326 | 16,602 | 17,440 | 17,702 |
| Institute of Technical Education <sup>3</sup> | 11,837  | 12,491 | 12,650 | 13,619 | 13,968 | 14,582 | 14,743 |
| Polytechnics <sup>4</sup>                     | 14,487  | 15,304 | 15,681 | 16,118 | 15,934 | 16,561 | 16,408 |
| Universities <sup>5</sup>                     | 20,777  | 21,870 | 22,181 | 21,988 | 21,757 | 21,624 | 22,192 |

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).

From FY2018, data include funding to National Institute of Early Childhood Development (NIEC) offering publicly-funded full-time Higher Nitec courses.

4 Refers to publicly-funded full-time diploma courses offered by Singapore Polytechnic, Ngee Ann Polytechnic, Temasek Polytechnic, Nanyang Polytechnic, Republic Polytechnic, ITE, LASALLE College of the Arts and Nanyang Academy of Fine Arts.

From FY2018, data include funding to NIEC offering publicly-funded full-time diploma courses.

5 Refers to publicly-funded full-time degree courses offered by National University of Singapore, Nanyang Technological University, Singapore Management University, Singapore Institute of Technology, Singapore University of Technology & Design, LASALLE College of the Arts and Nanyang Academy of Fine Arts.

From FY2014, it includes Singapore University of Social Sciences (previously known as SIM University).

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## 22.18 SINGAPORE RESIDENTS AGED 25 YEARS AND OVER BY HIGHEST QUALIFICATION ATTAINED AND SEX

|                                      | 2012     | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
|--------------------------------------|----------|---------|---------|---------|---------|---------|---------|
|                                      | Thousand |         |         |         |         |         |         |
| Total                                | 2,626.4  | 2,669.1 | 2,732.6 | 2,750.9 | 2,795.2 | 2,846.0 | 2,877.0 |
| Below Secondary                      | 848.2    | 833.3   | 832.1   | 800.0   | 819.3   | 813.8   | 761.5   |
| Secondary                            | 499.8    | 501.2   | 502.5   | 519.2   | 500.4   | 488.8   | 511.2   |
| Post Secondary (Non-Tertiary)        | 239.4    | 232.4   | 238.0   | 250.5   | 249.8   | 253.5   | 260.7   |
| Diploma & Professional Qualification | 364.6    | 372.6   | 401.8   | 405.5   | 411.5   | 415.9   | 434.9   |
| University                           | 674.4    | 729.7   | 758.1   | 775.8   | 814.2   | 874.0   | 908.7   |
| Total Males                          | 1,259.1  | 1,277.8 | 1,309.9 | 1,316.0 | 1,334.5 | 1,363.3 | 1,376.6 |
| Below Secondary                      | 368.0    | 360.6   | 363.4   | 345.1   | 349.4   | 349.0   | 320.0   |
| Secondary                            | 217.9    | 220.7   | 217.0   | 227.4   | 218.6   | 216.9   | 225.5   |
| Post Secondary (Non-Tertiary)        | 132.1    | 127.7   | 130.2   | 137.3   | 139.3   | 135.4   | 143.1   |
| Diploma & Professional Qualification | 187.4    | 189.2   | 203.6   | 205.3   | 211.8   | 208.5   | 219.5   |
| University                           | 353.7    | 379.7   | 395.7   | 401.0   | 415.5   | 453.4   | 468.4   |
| Total Females                        | 1,367.3  | 1,391.4 | 1,422.7 | 1,434.9 | 1,460.6 | 1,482.6 | 1,500.5 |
| Below Secondary                      | 480.1    | 472.7   | 468.7   | 454.9   | 469.9   | 464.7   | 441.5   |
| Secondary                            | 281.9    | 280.6   | 285.5   | 291.8   | 281.8   | 271.9   | 285.6   |
| Post Secondary (Non-Tertiary)        | 107.3    | 104.7   | 107.8   | 113.2   | 110.6   | 118.2   | 117.6   |
| Diploma & Professional Qualification | 177.3    | 183.4   | 198.2   | 200.2   | 199.7   | 207.3   | 215.4   |
| University                           | 320.7    | 350.0   | 362.4   | 374.8   | 398.7   | 420.5   | 440.4   |

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.

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## 22.19 MEAN YEARS OF SCHOOLING

|   | Years |      |      |      |      |      |      |
|---|-------|------|------|------|------|------|------|
|   | 2012  | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Mean Years Of Schooling (25 Years & Over) | 10.3  | 10.5 | 10.6 | 10.7 | 10.7 | 10.9 | 11.1 |
| Males                                     | 10.9  | 11.0 | 11.1 | 11.2 | 11.2 | 11.3 | 11.6 |
| Females                                   | 9.9   | 10.0 | 10.1 | 10.3 | 10.3 | 10.4 | 10.6 |

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.

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## 22.20 LITERACY RATE

|                                 | Per Cent |      |      |      |      |      |      |
|---------------------------------|----------|------|------|------|------|------|------|
|                                 | 2012     | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Literacy Rate (15 Years & Over) | 96.4     | 96.6 | 96.7 | 96.8 | 97.0 | 97.2 | 97.3 |
| Males                           | 98.5     | 98.5 | 98.6 | 98.6 | 98.7 | 98.8 | 98.9 |
| Females                         | 94.4     | 94.7 | 94.9 | 95.2 | 95.4 | 95.7 | 95.9 |

Notes : Refers to resident population aged 15 years and over.  
Data for 2015 are from the General Household Survey.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12759](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=12759)



23



Health



The Ministry of Health (MOH) is committed to promoting good health, providing good 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 and insurance help to ensure affordability of healthcare. Safety nets are provided to ensure that no Singaporean is denied access to healthcare because of financial difficulty. There is also ongoing investment in healthcare facilities, manpower and information infrastructure to enhance the accessibility across the 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.

### Public Healthcare Services



Singapore's public healthcare establishments provide a full range of services covering primary care at polyclinics to tertiary care at hospitals. These include ten acute hospitals, one psychiatric hospital, four community hospitals and twenty polyclinics.

### Statutory Boards



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 health education, promotion and prevention programmes by 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 medicine, forensic science and analytical chemistry testing to serve the administration of justice and safeguard public health.

### Public Health



Statistics on notifiable communicable diseases are collected by MOH from physicians and laboratories. In addition, statistics on various diseases are obtained from healthcare institutions, including polyclinics and hospitals. The National Immunisation Registry collects and maintains vaccination records of children and adults who reside in Singapore, to promote cost-effective disease prevention.



**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 compiled from returns prescribed by MOH and from administrative data.

**Healthcare Personnel**



Data on registered healthcare personnel refer to the number of doctors, dentists, pharmacists, nurses and midwives, optometrists and opticians, allied health professionals, as well as traditional Chinese medicine practitioners registered under the respective acts. Manpower statistics pertaining to these healthcare personnel are derived from the registers maintained by the respective professional bodies.

**Number of Registered Health Personnel in 2018**

|   |  |               |
|---|--|---------------|
|  | <b>Doctors</b>                                       | <b>13,766</b> |
|  | <b>Dentists</b>                                      | <b>2,363</b>  |
|  | <b>Pharmacists</b>                                   | <b>3,216</b>  |
|  | <b>Registered Nurses</b>                             | <b>33,614</b> |
|  | <b>Enrolled Nurses</b>                               | <b>8,394</b>  |
|  | <b>Registered Midwives</b>                           | <b>117</b>    |
|  | <b>Optometrists and Opticians</b>                    | <b>2,633</b>  |
|  | <b>Occupational Therapists</b>                       | <b>1,201</b>  |
|  | <b>Physiotherapists</b>                              | <b>1,967</b>  |
|  | <b>Speech Therapists</b>                             | <b>642</b>    |
|  | <b>Traditional Chinese Medicine (TCM) Physicians</b> | <b>3,004</b>  |
|  | <b>Acupuncturists</b>                                | <b>252</b>    |



## 23.1 HEALTH FACILITIES

|                              | Number |      |      |      |      |      |      |
|------------------------------|--------|------|------|------|------|------|------|
|                              | 2012   | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Hospitals                    |        |      |      |      |      |      |      |
| Acute Hospitals <sup>1</sup> | 17     | 17   | 18   | 19   | 19   | 18   | 19   |
| Public                       | 8      | 8    | 8    | 9    | 9    | 9    | 10   |
| Not-for-Profit               | 1      | 1    | 1    | 1    | 1    | 1    | 1    |
| Private                      | 8      | 8    | 9    | 9    | 9    | 8    | 8    |
| 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    | 7    | 8    | 8    | 8    |
| Public <sup>2</sup>          | 1      | 1    | 1    | 3    | 3    | 3    | 4    |
| Not-for-Profit               | 4      | 4    | 4    | 4    | 4    | 4    | 4    |
| Private <sup>3</sup>         | 1      | 1    | 1    | 0    | 1    | 1    | 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 25 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 2014, data include Farrer Park Hospital.

With effect from 2015, data include Ng Teng Fong General Hospital.

Johns Hopkins Singapore International Medical Centre ceased operations with effect from 2017.

With effect from 2018, data include Sengkang General Hospital.

2 With effect from 2015, data include Jurong Community Hospital and Yishun Community Hospital.

With effect from 2018, data include Sengkang Community Hospital.

3 West Point Hospital closed in December 2015 and re-opened in September 2016. The hospital ceased operation with effect from September 2018.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15181](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15181)

## 23.1 HEALTH FACILITIES *(continued)*

|  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|--|-------|-------|-------|-------|-------|-------|-------|
| Number   |       |       |       |       |       |       |       |
| Residential Long-Term Care Facilities            |       |       |       |       |       |       |       |
| Nursing Homes                                    | 64    | 66    | 65    | 71    | 69    | 73    | 72    |
| Public   | 1     | 5     | 6     | 11    | 13    | 20    | 21    |
| Not-for-Profit                                   | 31    | 28    | 27    | 26    | 26    | 23    | 23    |
| Private  | 32    | 33    | 32    | 34    | 30    | 30    | 28    |
| 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     |
| Primary Care Facilities                          |       |       |       |       |       |       |       |
| Public - Polyclinics                             | 18    | 18    | 18    | 18    | 18    | 20    | 20    |
| Private - General Practitioner Clinics           | 1,743 | 1,805 | 1,868 | 1,933 | 2,025 | 2,116 | 2,222 |
| Dental Clinics                                   |       |       |       |       |       |       |       |
| Public (Total)                                   | 240   | 236   | 248   | 248   | 253   | 251   | 245   |
| Polyclinic Dental Clinics                        | 9     | 9     | 9     | 9     | 9     | 10    | 10    |
| Hospital/Institution Dental Clinics <sup>4</sup> | 6     | 6     | 6     | 7     | 8     | 8     | 7     |
| School Dental Clinics                            | 225   | 221   | 233   | 232   | 236   | 233   | 228   |
| Private  | 660   | 694   | 722   | 792   | 835   | 863   | 876   |
| Pharmacies                                       | 245   | 247   | 253   | 232   | 235   | 243   | 258   |
| Public   | 50    | 51    | 63    | 62    | 62    | 62    | 68    |
| Private  | 195   | 196   | 190   | 170   | 173   | 181   | 190   |

Source : Ministry of Health

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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.

4 Includes National Dental Centre.

With effect from January 2015, data include dental clinic in Jurong Medical Centre.

With effect from June 2015, data include dental clinic at Ng Teng Fong General Hospital.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15181](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15181)

## 23.2 BEDS IN INPATIENT FACILITIES

|                              | 2012  | 2013  | 2014  | 2015  | 2016   | 2017   | Number<br>2018 |
|------------------------------|-------|-------|-------|-------|--------|--------|----------------|
| Hospitals                    |       |       |       |       |        |        |                |
| Acute Hospitals <sup>1</sup> | 8,725 | 8,939 | 9,262 | 9,844 | 10,318 | 10,340 | 10,826         |
| Public                       | 7,170 | 7,377 | 7,652 | 8,128 | 8,561  | 8,623  | 9,071          |
| Not-for-Profit               | 283   | 283   | 283   | 316   | 316    | 271    | 273            |
| Private                      | 1,272 | 1,279 | 1,327 | 1,400 | 1,441  | 1,446  | 1,482          |
| Psychiatric Hospitals        | 2,010 | 2,010 | 1,950 | 1,950 | 1,950  | 1,950  | 1,950          |
| Public                       | 2,010 | 2,010 | 1,950 | 1,950 | 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   | 852   | 1,065 | 1,464 | 1,663  | 1,663  | 1,778          |
| Public <sup>2</sup>          | 100   | 110   | 142   | 503   | 690    | 690    | 799            |
| Not-for-Profit               | 722   | 722   | 905   | 961   | 961    | 969    | 979            |
| Private <sup>3</sup>         | 20    | 20    | 18    | 0     | 12     | 4      | 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.

Where a health facility provides more than one residential care service, the beds are counted under their respective service categories. For example, a facility providing both community hospital and inpatient hospice services will have the respective number of beds being reported under "Community Hospitals" and "Inpatient Hospices".

Beds for chronic sick services are reported under "Nursing Homes" beds.

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 2014, data include Farrer Park Hospital. With effect from 2015, data include Ng Teng Fong General Hospital. Johns Hopkins Singapore International Medical Centre ceased operations with effect from 2017. With effect from 2018, data include Sengkang General Hospital.
- 2 With effect from 2015, data include Jurong Community Hospital and Yishun Community Hospital. With effect from 2018, data include Sengkang Community Hospital.
- 3 West Point Hospital closed in December 2015 and re-opened in September 2016. The hospital ceased operation with effect from September 2018.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15276](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15276)

## 23.2 BEDS IN INPATIENT FACILITIES *(continued)*

|   | 2012  | 2013   | 2014   | 2015   | 2016   | 2017   | Number<br>2018 |
|---|-------|--------|--------|--------|--------|--------|----------------|
| Residential Long-Term Care Facilities<br>(by services offered) <sup>4</sup> |       |        |        |        |        |        |                |
| Nursing Homes <sup>5</sup>  | 9,721 | 10,838 | 10,968 | 12,185 | 13,022 | 14,918 | 15,205         |
| Public  | 202   | 1,230  | 1,372  | 2,488  | 3,110  | 5,281  | 5,581          |
| Not-for-Profit  | 6,119 | 5,924  | 6,021  | 5,802  | 6,058  | 5,872  | 5,953          |
| Private   | 3,400 | 3,684  | 3,575  | 3,895  | 3,854  | 3,765  | 3,671          |
| Inpatient Hospices  | 149   | 149    | 141    | 141    | 173    | 179    | 179            |
| Public  | 48    | 48     | 40     | 40     | 24     | 24     | 24             |
| Not-for-Profit  | 101   | 101    | 101    | 101    | 149    | 155    | 155            |
| 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).

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.

Where a health facility provides more than one residential care service, the beds are counted under their respective service categories. For example, a facility providing both community hospital and inpatient hospice services will have the respective number of beds being reported under "Community Hospitals" and "Inpatient Hospices".

Beds for chronic sick services are reported under "Nursing Homes" beds.

Hospitals are licensed for actual bed complement (i.e. beds that are regularly maintained and staffed).

4 Beds are classified by services offered regardless of facility.

5 Includes beds for chronic sick services.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15276](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15276)

## 23.3 HOSPITAL ADMISSIONS, PUBLIC SECTOR OUTPATIENT ATTENDANCES AND DAY SURGERIES

|  | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | Number<br>2018 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|----------------|
| Hospital Admissions <sup>1</sup>           |           |           |           |           |           |           |                |
| Acute Hospitals <sup>2</sup>               | 459,902   | 474,193   | 489,574   | 499,889   | 546,256   | 568,117   | 584,819        |
| Public                                     | 354,076   | 364,911   | 372,661   | 379,973   | 416,663   | 436,882   | 455,272        |
| Non-Public <sup>3</sup>                    | 105,826   | 109,282   | 116,913   | 119,916   | 129,593   | 131,235   | 129,547        |
| Psychiatric Hospitals                      | 8,382     | 8,110     | 9,050     | 8,986     | 9,028     | 9,316     | 9,215          |
| Public                                     | 8,382     | 8,110     | 9,050     | 8,986     | 9,028     | 9,316     | 9,215          |
| Non-Public <sup>3</sup>                    | 0         | 0         | 0         | 0         | 0         | 0         | 0              |
| Community Hospitals <sup>4</sup>           | 7,751     | 8,702     | 9,067     | 10,670    | 13,881    | 16,355    | 17,908         |
| Public                                     | 688       | 1,053     | 1,467     | 2,187     | 5,432     | 7,361     | 8,277          |
| Non-Public <sup>3</sup>                    | 7,063     | 7,649     | 7,600     | 8,483     | 8,449     | 8,994     | 9,631          |
| Public Sector Outpatient Attendances       |           |           |           |           |           |           |                |
| Specialist Outpatient Clinics <sup>5</sup> | 4,353,385 | 4,436,621 | 4,535,104 | 4,704,117 | 4,959,471 | 4,979,307 | 5,111,720      |
| Accident & Emergency Departments           | 985,289   | 1,006,800 | 968,371   | 965,426   | 1,008,718 | 993,458   | 1,005,403      |
| Polyclinics <sup>6</sup>                   | 4,614,038 | 4,623,623 | 4,648,374 | 4,874,697 | 5,263,999 | 5,925,787 | 6,323,814      |
| Dental Clinics <sup>7</sup>                | 893,058   | 943,971   | 966,240   | 1,007,992 | 1,058,533 | 1,061,516 | 1,078,037      |
| Day Surgeries                              | 246,313   | 262,381   | 272,915   | 298,029   | 326,214   | 339,933   | 351,536        |

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.

"Community Hospitals" includes multiple services i.e. community hospital (sub-acute and rehabilitation), chronic sick units and inpatient hospice.

1 Refers 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 Refers to inpatient discharges for all services (including chronic sick and inpatient hospice) in community hospital.

5 With effect from January 2015, data include Jurong Medical Centre. With effect from July 2017, data include Admiralty Medical Centre.

6 With effect from January 2017, data on polyclinic attendances cover consultations and other services offered at polyclinics, including nursing services and allied health services.

7 Includes dental services/clinics in hospitals, polyclinics, schools and National Dental Centre.

From January 2015, data include Jurong Medical Centre. From June 2015, data include dental clinic at Ng Teng Fong Hospital.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15188](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15188)



## 23.4 HOSPITAL ADMISSION<sup>1</sup> RATE BY SEX AND AGE

Per 1,000 resident population

|                                  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Acute Hospitals <sup>2</sup>     |       |       |       |       |       |       |       |
| Male                             | 100.7 | 104.5 | 108.2 | 110.5 | 123.7 | 127.4 | 129.8 |
| Age Group (Years)                |       |       |       |       |       |       |       |
| 0 - 14                           | 118.5 | 120.2 | 126.6 | 128.5 | 142.1 | 142.7 | 145.3 |
| 15 - 64                          | 66.7  | 70.0  | 71.0  | 71.5  | 81.5  | 83.8  | 84.1  |
| 65 & Above                       | 347.6 | 343.7 | 347.7 | 347.6 | 366.7 | 369.1 | 368.0 |
| Female                           | 105.5 | 107.7 | 111.0 | 111.9 | 123.4 | 127.4 | 129.5 |
| Age Group (Years)                |       |       |       |       |       |       |       |
| 0 - 14                           | 101.2 | 102.0 | 109.4 | 112.0 | 121.5 | 124.3 | 127.0 |
| 15 - 64                          | 77.2  | 78.3  | 80.0  | 80.1  | 88.6  | 90.6  | 92.1  |
| 65 & Above                       | 304.0 | 302.6 | 299.9 | 292.9 | 314.1 | 319.8 | 313.7 |
| Psychiatric Hospitals            |       |       |       |       |       |       |       |
| Male                             | 2.3   | 2.2   | 2.4   | 2.6   | 2.7   | 2.7   | 2.7   |
| Age Group (Years)                |       |       |       |       |       |       |       |
| 0 - 14                           | 0.1   | 0.2   | 0.2   | 0.1   | 0.2   | 0.2   | 0.1   |
| 15 - 64                          | 2.8   | 2.7   | 3.0   | 3.2   | 3.3   | 3.3   | 3.3   |
| 65 & Above                       | 1.8   | 1.8   | 2.0   | 2.3   | 2.1   | 2.2   | 2.3   |
| Female                           | 1.4   | 1.4   | 1.4   | 1.6   | 1.6   | 1.6   | 1.5   |
| Age Group (Years)                |       |       |       |       |       |       |       |
| 0 - 14                           | 0.1   | 0.1   | 0.1   | 0.2   | 0.2   | 0.2   | 0.2   |
| 15 - 64                          | 1.7   | 1.6   | 1.7   | 1.9   | 1.9   | 1.9   | 1.8   |
| 65 & Above                       | 1.4   | 1.7   | 1.5   | 1.6   | 1.5   | 1.6   | 1.4   |
| Community Hospitals <sup>3</sup> |       |       |       |       |       |       |       |
| Male                             | 1.6   | 1.8   | 1.9   | 2.2   | 3.1   | 3.6   | 4.0   |
| Age Group (Years)                |       |       |       |       |       |       |       |
| 0 - 14                           | -     | -     | -     | -     | 0.1   | 0.1   | 0.1   |
| 15 - 64                          | 0.6   | 0.6   | 0.6   | 0.7   | 1.1   | 1.1   | 1.3   |
| 65 & Above                       | 13.0  | 13.9  | 14.4  | 15.6  | 20.3  | 23.1  | 23.7  |
| Female                           | 2.1   | 2.3   | 2.4   | 2.7   | 3.7   | 4.3   | 4.5   |
| Age Group (Years)                |       |       |       |       |       |       |       |
| 0 - 14                           | -     | -     | -     | -     | -     | -     | -     |
| 15 - 64                          | 0.5   | 0.5   | 0.5   | 0.6   | 0.8   | 0.9   | 1.0   |
| 65 & Above                       | 16.0  | 16.8  | 16.7  | 18.0  | 23.3  | 25.9  | 26.3  |

Source : Ministry of Health

Notes : 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. Community Hospitals' includes multiple services i.e. community hospital (sub-acute and rehabilitation), chronic sick units and inpatient hospice.

- 1 Refers to inpatient discharges, excluding normal deliveries and legalised abortions.
- 2 Comprises both general hospitals and speciality centres (excluding Psychiatric Hospitals) with acute care inpatient facilities.
- 3 Refers to inpatient discharges for all services (including chronic sick and inpatient hospice) in community hospital.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15182](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15182)

## 23.5 REGISTERED HEALTH PERSONNEL

(End of Period)

|                              | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | Number<br>2018 |
|------------------------------|--------|--------|--------|--------|--------|--------|----------------|
| Doctors                      | 10,225 | 10,953 | 11,733 | 12,459 | 12,967 | 13,386 | 13,766         |
| Public                       | 6,131  | 6,661  | 7,330  | 7,909  | 8,358  | 8,573  | 8,819          |
| Non-Public <sup>1</sup>      | 3,515  | 3,678  | 3,790  | 3,914  | 3,979  | 4,107  | 4,225          |
| Not in active practice       | 579    | 614    | 613    | 636    | 630    | 706    | 722            |
| Specialists                  | 3,867  | 4,124  | 4,485  | 4,788  | 5,047  | 5,338  | 5,615          |
| Public                       | 2,342  | 2,511  | 2,829  | 3,052  | 3,299  | 3,523  | 3,741          |
| Non-Public <sup>1</sup>      | 1,293  | 1,351  | 1,411  | 1,470  | 1,485  | 1,528  | 1,565          |
| Not in active practice       | 232    | 262    | 245    | 266    | 263    | 287    | 309            |
| Non-Specialists              | 6,358  | 6,829  | 7,248  | 7,671  | 7,920  | 8,048  | 8,151          |
| Public                       | 3,789  | 4,150  | 4,501  | 4,857  | 5,059  | 5,050  | 5,078          |
| Non-Public <sup>1</sup>      | 2,222  | 2,327  | 2,379  | 2,444  | 2,494  | 2,579  | 2,660          |
| Not in active practice       | 347    | 352    | 368    | 370    | 367    | 419    | 413            |
| Dentists                     | 1,699  | 1,821  | 1,905  | 2,060  | 2,198  | 2,293  | 2,363          |
| Public                       | 357    | 396    | 444    | 449    | 486    | 477    | 525            |
| Non-Public <sup>1</sup>      | 1,215  | 1,411  | 1,435  | 1,541  | 1,644  | 1,748  | 1,768          |
| Not in active practice       | 127    | 14     | 26     | 70     | 68     | 68     | 70             |
| Dental Specialists           | 303    | 309    | 313    | 324    | 333    | 350    | 305            |
| Public                       | 86     | 88     | 96     | 102    | 106    | 112    | 113            |
| Non-Public <sup>1</sup>      | 203    | 219    | 216    | 215    | 219    | 232    | 189            |
| Not in active practice       | 14     | 2      | 1      | 7      | 8      | 6      | 3              |
| General Dental Practitioners | 1,396  | 1,512  | 1,592  | 1,736  | 1,865  | 1,943  | 2,058          |
| Public                       | 271    | 308    | 348    | 347    | 380    | 365    | 412            |
| Non-Public <sup>1</sup>      | 1,012  | 1,192  | 1,219  | 1,326  | 1,425  | 1,516  | 1,579          |
| Not in active practice       | 113    | 12     | 25     | 63     | 60     | 62     | 67             |
| Oral Health Therapists       | 337    | 364    | 377    | 400    | 401    | 416    | 389            |
| Public                       | 228    | 216    | 220    | 228    | 229    | 225    | 217            |
| Non-Public <sup>1</sup>      | 88     | 129    | 128    | 144    | 128    | 144    | 122            |
| Not in active practice       | 21     | 19     | 29     | 28     | 44     | 47     | 50             |
| Pharmacists                  | 2,172  | 2,376  | 2,563  | 2,757  | 2,875  | 3,047  | 3,216          |
| Public                       | 934    | 1,082  | 1,179  | 1,307  | 1,367  | 1,472  | 1,535          |
| Non-Public <sup>1</sup>      | 1,048  | 1,104  | 1,174  | 1,221  | 1,248  | 1,344  | 1,367          |
| Not in active practice       | 190    | 190    | 210    | 229    | 260    | 231    | 314            |

(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 "Non-Public" comprises "Private" and "Not-for-Profit" health facilities.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15173](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15173)

## 23.5 REGISTERED HEALTH PERSONNEL *(continued)*

(End of Period)

|                                       | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | Number<br>2018 |
|---------------------------------------|--------|--------|--------|--------|--------|--------|----------------|
| Registered Nurses                     | 25,971 | 27,556 | 28,864 | 29,894 | 31,615 | 32,672 | 33,614         |
| Public                                | 15,916 | 16,738 | 17,667 | 18,566 | 19,618 | 20,313 | 20,734         |
| Non-Public <sup>1</sup>               | 6,321  | 6,716  | 6,863  | 7,356  | 7,616  | 8,002  | 8,441          |
| Not in active practice                | 3,734  | 4,102  | 4,334  | 3,972  | 4,381  | 4,357  | 4,439          |
| Enrolled Nurses                       | 8,274  | 8,273  | 8,528  | 8,931  | 8,781  | 8,631  | 8,394          |
| Public                                | 4,995  | 4,890  | 5,006  | 5,305  | 5,149  | 5,020  | 4,854          |
| Non-Public <sup>1</sup>               | 2,027  | 2,049  | 2,078  | 2,377  | 2,322  | 2,301  | 2,241          |
| Not in active practice                | 1,252  | 1,334  | 1,444  | 1,249  | 1,310  | 1,310  | 1,299          |
| Registered Midwives                   | 262    | 246    | 226    | 180    | 165    | 137    | 117            |
| Public                                | 89     | 79     | 71     | 71     | 62     | 55     | 48             |
| Non-Public <sup>1</sup>               | 65     | 61     | 61     | 51     | 47     | 41     | 29             |
| Not in active practice                | 108    | 106    | 94     | 58     | 56     | 41     | 40             |
| Advanced Practice Nurses <sup>2</sup> | 88     | 117    | 145    | 172    | 197    | 218    | 238            |
| Public                                | 82     | 110    | 137    | 166    | 189    | 203    | 225            |
| Non-Public <sup>1</sup>               | 5      | 5      | 8      | 5      | 8      | 10     | 12             |
| Not in active practice                | 1      | 2      | 0      | 1      | 0      | 5      | 1              |
| Optometrists and Opticians            | 2,478  | 2,461  | 2,610  | 2,624  | 2,650  | 2,605  | 2,633          |
| Public                                | 155    | 159    | 159    | 156    | 166    | 175    | 187            |
| Non-Public <sup>1</sup>               | 2,124  | 2,210  | 2,337  | 2,345  | 2,265  | 2,316  | 2,332          |
| Not in active practice                | 199    | 92     | 114    | 123    | 219    | 114    | 114            |
| Occupational Therapists <sup>3</sup>  | na     | na     | 905    | 967    | 1,067  | 1,125  | 1,201          |
| Public                                | na     | na     | 501    | 498    | 521    | 512    | 539            |
| Non-Public <sup>1</sup>               | na     | na     | 403    | 429    | 477    | 508    | 529            |
| Not in active practice                | na     | na     | 1      | 40     | 69     | 105    | 133            |
| Physiotherapists <sup>3</sup>         | na     | na     | 1,394  | 1,549  | 1,693  | 1,814  | 1,967          |
| Public                                | na     | na     | 861    | 877    | 899    | 882    | 960            |
| Non-Public <sup>1</sup>               | na     | na     | 531    | 606    | 682    | 765    | 804            |
| Not in active practice                | na     | na     | 2      | 66     | 112    | 167    | 203            |

*(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 "Non-Public" comprises "Private" and "Not-for-Profit" health facilities.

2 Advanced Practice Nurses is a subset of Registered Nurses.

3 Registration of Allied Health professionals (Occupational Therapists, Physiotherapists and Speech Therapists) started in 2013.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=15173](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refld=15173)

## 23.5 REGISTERED HEALTH PERSONNEL *(continued)*

(End of Period)

|   | Number |       |       |       |       |       |       |
|---|--------|-------|-------|-------|-------|-------|-------|
|   | 2012   | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
| Speech therapists <sup>3</sup>                | na     | na    | 400   | 474   | 524   | 595   | 642   |
| Public  | na     | na    | 193   | 212   | 215   | 232   | 246   |
| Non-Public <sup>1</sup>                       | na     | na    | 207   | 244   | 269   | 307   | 319   |
| Not in active practice                        | na     | na    | 0     | 18    | 40    | 56    | 77    |
| Traditional Chinese Medicine (TCM) Physicians | 2,538  | 2,629 | 2,740 | 2,808 | 2,868 | 2,952 | 3,004 |
| In Active practice                            | 2,133  | 2,155 | 2,199 | 2,217 | 2,241 | 2,243 | 2,234 |
| Not in Active Practice                        | 405    | 474   | 541   | 591   | 627   | 709   | 770   |
| Acupuncturists <sup>4</sup>                   | 235    | 244   | 240   | 249   | 247   | 254   | 252   |
| In Active practice                            | 174    | 147   | 153   | 152   | 146   | 139   | 134   |
| Not in Active Practice                        | 61     | 97    | 87    | 97    | 101   | 115   | 118   |

Source : Ministry of Health

Notes : Registered health personnel in the public sector refer to Government, Government Restructured Hospitals, Statutory Boards and University personnel.

1 "Non-Public" comprises "Private" and "Not-for-Profit" health facilities.

3 Registration of Allied Health professionals (Occupational Therapists, Physiotherapists and Speech Therapists) started in 2013.

4 Refers to those registered only as Acupuncturists.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15173](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15173)

## 23.6 VISITS TO PUBLIC SECTOR DENTAL CLINICS

|                                     | 2012    | 2013    | 2014    | 2015      | 2016      | 2017      | Number<br>2018 |
|-------------------------------------|---------|---------|---------|-----------|-----------|-----------|----------------|
| Dental Clinics                      | 893,058 | 943,971 | 966,240 | 1,007,992 | 1,058,533 | 1,061,516 | 1,078,037      |
| Schools                             | 438,133 | 455,475 | 449,372 | 456,931   | 463,751   | 451,079   | 436,548        |
| Hospitals/Institutions <sup>1</sup> | 319,812 | 339,319 | 357,878 | 383,101   | 415,456   | 425,466   | 429,615        |
| Polyclinics                         | 135,113 | 149,177 | 158,990 | 167,960   | 179,326   | 184,971   | 211,874        |

Source : Ministry of Health

1 Includes National Dental Centre.

With effect from January 2015, data include dental clinic at Jurong Medical Centre.

With effect from June 2015, data include dental clinic at Ng Teng Fong General Hospital.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=1861](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=1861)

## 23.7 NOTIFICATIONS OF SPECIFIC NOTIFIABLE DISEASES

|                              | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | Number<br>2018 |
|------------------------------|--------|--------|--------|--------|--------|--------|----------------|
| Dengue/DHF                   | 4,632  | 22,170 | 18,326 | 11,294 | 13,085 | 2,767  | 3,285          |
| Malaria                      | 143    | 111    | 62     | 47     | 31     | 39     | 35             |
| Enteric fever <sup>1</sup>   | 141    | 107    | 77     | 76     | 70     | 81     | 59             |
| Viral Hepatitis <sup>2</sup> | 272    | 202    | 194    | 207    | 193    | 217    | 194            |
| Cholera                      | 2      | 2      | 2      | 3      | 2      | 3      | 3              |
| Poliomyelitis                | 0      | 0      | 0      | 0      | 0      | 0      | 0              |
| Diphtheria                   | 0      | 0      | 0      | 0      | 0      | 1      | 0              |
| Measles                      | 38     | 46     | 142    | 42     | 136    | 70     | 34             |
| Legionellosis                | 31     | 24     | 37     | 17     | 12     | 19     | 22             |
| Hand, Foot & Mouth Disease   | 37,125 | 31,741 | 22,171 | 28,216 | 42,154 | 33,663 | 40,217         |
| Nipah Virus Infection        | 0      | 0      | 0      | 0      | 0      | 0      | 0              |
| SARS                         | 0      | 0      | 0      | 0      | 0      | 0      | 0              |
| Tuberculosis <sup>3</sup>    | 2,203  | 2,028  | 2,018  | 2,000  | 2,310  | 2,191  | 2,182          |
| Leprosy                      | 15     | 12     | 6      | 3      | 7      | 6      | 6              |

Source : Ministry of Health

Notes : No cases of plague, smallpox and yellow fever were reported during the period.

1 Refers to typhoid and paratyphoid.

2 Refers to Hepatitis A, B, C and E.

3 Refers to cases among Singapore citizens, permanent residents and long-staying foreigners.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15943](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15943)

## 23.8 IMMUNISATION <sup>1</sup> BY PUBLIC AND NON-PUBLIC SECTORS

|                         | No of Children |        |        |        |        |        |        |
|-------------------------|----------------|--------|--------|--------|--------|--------|--------|
|                         | 2012           | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
| Vaccination against     |                |        |        |        |        |        |        |
| Tuberculosis (BCG)      |                |        |        |        |        |        |        |
| National                | 29,480         | 30,488 | 32,624 | 30,623 | 32,196 | 33,355 | 33,071 |
| Public                  | 12,255         | 12,527 | 12,952 | 12,501 | 13,418 | 14,977 | 15,128 |
| Non-Public <sup>2</sup> | 17,225         | 17,961 | 19,672 | 18,122 | 18,778 | 18,378 | 17,943 |
| Diphtheria              |                |        |        |        |        |        |        |
| National                | 28,485         | 29,471 | 31,618 | 30,388 | 31,301 | 32,295 | 32,951 |
| Public                  | 15,268         | 15,890 | 17,299 | 19,901 | 22,204 | 24,529 | 25,614 |
| Non-Public <sup>2</sup> | 13,217         | 13,581 | 14,319 | 10,487 | 9,097  | 7,766  | 7,337  |
| Poliomyelitis           |                |        |        |        |        |        |        |
| National                | 28,476         | 29,459 | 31,596 | 29,720 | 31,284 | 32,289 | 32,402 |
| Public                  | 15,262         | 15,882 | 17,295 | 19,624 | 22,195 | 24,527 | 25,675 |
| Non-Public <sup>2</sup> | 13,214         | 13,577 | 14,301 | 10,096 | 9,089  | 7,762  | 6,727  |
| Hepatitis B             |                |        |        |        |        |        |        |
| National                | 28,464         | 29,418 | 31,585 | 29,677 | 31,209 | 32,305 | 32,303 |
| Public                  | 15,238         | 15,815 | 17,220 | 19,471 | 21,986 | 24,301 | 25,400 |
| Non-Public <sup>2</sup> | 13,226         | 13,603 | 14,365 | 10,206 | 9,223  | 8,004  | 6,903  |
| Measles                 |                |        |        |        |        |        |        |
| National                | 28,072         | 28,975 | 31,259 | 29,331 | 30,750 | 32,065 | 31,882 |
| Public                  | 15,165         | 15,935 | 17,567 | 19,502 | 21,959 | 24,180 | 25,294 |
| Non-Public <sup>2</sup> | 12,907         | 13,040 | 13,692 | 9,829  | 8,791  | 7,885  | 6,588  |

Source : Health Promotion Board

1 Refers to immunisation given to children who are Singapore citizens or permanent residents.

2 "Non-Public" comprises "Private" and "Not-for-Profit" health facilities.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15175](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15175)

## 23.9 IMMUNISATION <sup>1</sup> COVERAGE FOR CHILDREN AT 2 YEARS OF AGE

|                       | Per Cent |      |      |      |      |      |      |
|-----------------------|----------|------|------|------|------|------|------|
|                       | 2012     | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Vaccination against : |          |      |      |      |      |      |      |
| Tuberculosis (BCG)    | 99       | 99   | 99   | 99   | 99   | 99   | 98   |
| Diphtheria            | 97       | 97   | 96   | 98   | 96   | 96   | 96   |
| Poliomyelitis         | 97       | 97   | 96   | 98   | 96   | 96   | 96   |
| Hepatitis B           | 97       | 97   | 96   | 96   | 96   | 96   | 96   |
| Measles               | 95       | 95   | 95   | 95   | 95   | 95   | 95   |

Source : Health Promotion Board

1 Refers to immunisation given to children who are Singapore citizens and permanent residents.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15177](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15177)

## 23.10 VACCINATION IN SCHOOL CHILDREN

|   | Thousand Doses |      |      |      |      |      |      |
|---|----------------|------|------|------|------|------|------|
|   | 2012           | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Diphtheria Tetanus <sup>1</sup>           | 44.2           | 43.2 | 41.7 | 41.7 | 41.4 | 43.0 | 42.7 |
| Poliomyelitis Immunisation <sup>1,2</sup> | 85.8           | 85.9 | 47.4 | 45.0 | 44.5 | 44.4 | 43.8 |
| Measles, Mumps and Rubella <sup>3</sup>   | 41.7           | 39.1 | 35.7 | 29.2 | 22.3 | 10.8 | 5.7  |

Source : Health Promotion Board

1 Booster doses were given to Primary 5 students and students who missed the Booster dose when they were in Primary 5.

2 With effect from 2014, School Health Service ceased to give polio vaccination for Primary 1 students due to a change in the National Childhood Immunisation Schedule.

3 With effect from December 2011, due to a change in the National Childhood Immunisation Schedule, babies received MMR Dose 1 at 12 months and MMR Dose 2 at 15 to 18 months.

Hence, from 2012, MMR Dose 2 were given to Primary 1 students and students who missed their MMR Dose 2 when they were in Primary 1.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15172](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15172)

## 23.11 STUDENT MEDICAL ASSESSMENT

|  | Thousand |       |       |       |       |       |       |
|--|----------|-------|-------|-------|-------|-------|-------|
|  | 2012     | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
| Total  | 422.2    | 414.9 | 407.5 | 400.9 | 377.0 | 370.8 | 367.9 |
| Primary 1 and equivalent age groups                | 39.6     | 40.4  | 40.7  | 40.3  | 39.3  | 37.2  | 38.2  |
| Primary 5 and equivalent age groups                | 43.4     | 42.8  | 39.8  | 39.6  | 39.8  | 40.5  | 41.0  |
| Screening of other educational levels <sup>1</sup> | 338.1    | 328.7 | 323.9 | 317.8 | 294.9 | 290.3 | 285.8 |
| Others <sup>2</sup>                                | 1.1      | 3.0   | 3.1   | 3.2   | 3.0   | 2.8   | 2.9   |

Source : Health Promotion Board

- 1 With effect from January 2016, data refer to screening by nurses for all Primary 2, 3, 4 and 6, as well as Secondary 1, 2 students, and only Secondary 3 & 4 students with health problems.  
Prior to January 2016, data refer to screening by nurses for all Primary 2, 3, 4 and 6, as well as Secondary 1, 2, 4 students, and only Secondary 3 students with health problems.
- 2 Refers to general medical examination done by doctors for students in other educational levels.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=1867](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=1867)



## 23.12 COMMON HEALTH PROBLEMS OF STUDENTS EXAMINED

|                                     | 2012                        | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|-------------------------------------|-----------------------------|-------|-------|-------|-------|-------|-------|
|                                     | Per 10,000 Males Examined   |       |       |       |       |       |       |
| Prevalence of :                     |                             |       |       |       |       |       |       |
| Defective Vision                    | 5,297                       | 5,271 | 5,178 | 5,175 | 4,835 | 4,833 | 4,756 |
| Overweight <sup>1</sup>             |                             |       |       |       |       |       |       |
| Primary 1 and equivalent age groups | 1,121                       | 1,199 | 1,089 | 1,082 | 1,166 | 1,188 | 1,128 |
| Primary 5 and equivalent age groups | 1,557                       | 1,590 | 1,593 | 1,524 | 1,710 | 1,798 | 1,794 |
|                                     | Per 10,000 Females Examined |       |       |       |       |       |       |
| Prevalence of :                     |                             |       |       |       |       |       |       |
| Defective Vision                    | 5,688                       | 5,663 | 5,586 | 5,562 | 5,143 | 5,194 | 5,157 |
| Overweight <sup>1</sup>             |                             |       |       |       |       |       |       |
| Primary 1 and equivalent age groups | 921                         | 979   | 929   | 917   | 962   | 1,033 | 966   |
| Primary 5 and equivalent age groups | 1,191                       | 1,232 | 1,217 | 1,183 | 1,271 | 1,343 | 1,288 |

Source : Health Promotion Board

<sup>1</sup> Body Mass Index percentile is used in the calculation of overweight prevalence ( $\geq 90$ th percentile).

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=10374](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=10374)  
[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15176](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15176)

24



# Hawkers and Food Establishments

# 24

## Hawkers and Food Establishments




Hawker stalls and food retail establishments are licensed by the National Environment Agency (NEA). Food factories were licensed by the Agri-Food & Veterinary Authority (AVA). NEA and Singapore Food Agency (SFA) ensure that food sold in Singapore is safe for consumption. From 1 April 2019, the holistic management of food industry from “farm to fork” is overseen by the SFA.

### Licensed Hawkers

Licensed hawkers refer to hawkers who are issued with the licence by NEA to operate stalls in hawker centres and markets, as well as itinerant street hawkers.

#### Licensed Hawkers by Type of Premises (End of Period) 2018

 **13,921** licenses issued in total

**13,401** market/  
food centre



**520** street



### 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 licence 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 coffeshop, 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

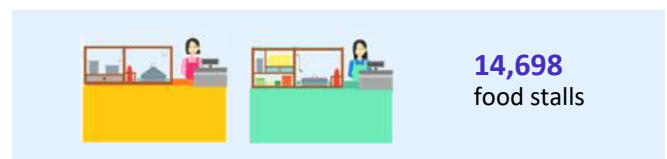
manufacturers, bakery and flour confectionery manufacturers, meat and fish processing establishments, slaughterhouses and cold stores used for the storage of meat and/or fish products.

These food establishments are subjected to regular inspections and food samples would be collected for laboratory analysis to ensure that the food produced is safe and fit for human consumption. They are also graded and classified under grades ‘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), 2018



## 24.1 LICENSED HAWKERS UNDER NATIONAL ENVIRONMENT AGENCY

(End of Period)

|                               | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | Number<br>2018 |
|-------------------------------|--------|--------|--------|--------|--------|--------|----------------|
| Total Licences Issued         | 14,165 | 14,227 | 14,466 | 14,055 | 13,871 | 13,865 | 13,921         |
| Type of Premises              |        |        |        |        |        |        |                |
| Market/Food Centre            | 13,410 | 13,537 | 13,828 | 13,440 | 13,310 | 13,329 | 13,401         |
| Street <sup>1</sup>           | 755    | 690    | 638    | 615    | 561    | 536    | 520            |
| Type of Goods Sold            |        |        |        |        |        |        |                |
| Market Produce                | 5,694  | 5,706  | 5,857  | 5,612  | 5,485  | 5,479  | 5,465          |
| Cooked Food                   | 5,831  | 5,939  | 6,049  | 5,943  | 5,970  | 5,999  | 6,090          |
| Piece & Sundries <sup>2</sup> | 2,640  | 2,582  | 2,560  | 2,500  | 2,416  | 2,387  | 2,366          |

Source : National Environment Agency

Notes : Data include Ministry of the Environment and Water Resources and Housing & Development Board 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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14624](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14624)

## 24.2 LICENSED FOOD ESTABLISHMENTS

(End of Period)

|                              | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | Number<br>2018 |
|------------------------------|--------|--------|--------|--------|--------|--------|----------------|
| Food Shops <sup>1</sup>      | 14,642 | 15,307 | 15,875 | 16,490 | 17,196 | 18,035 | 18,823         |
| Food Stalls <sup>2</sup>     | 13,889 | 13,776 | 13,979 | 14,179 | 14,350 | 14,567 | 14,698         |
| Food Factories <sup>3</sup>  | 1,476  | 1,482  | 1,548  | 1,618  | 1,664  | 1,738  | 1,801          |
| Supermarkets <sup>4</sup>    | 398    | 422    | 441    | 469    | 491    | 516    | 530            |
| Private Markets <sup>5</sup> | 286    | 280    | 323    | 318    | 331    | 313    | 323            |

Sources : National Environment Agency (NEA)  
 Agri-Food & Veterinary Authority of Singapore (AVA)  
 Singapore Food Agency (SFA)

Notes : From 1 April 2019, SFA took over food-related functions previously carried out by AVA.

- 1 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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14608](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14608)

25



## Community Services



The Ministry of Social and Family Development (MSF) aims to nurture resilient individuals, strong families and a caring society. MSF formulates and implements policies on social assistance, social services, family, child care and child development, vulnerable adults and elderly, disability, as well as social safeguards against problem gambling. In addition to its developmental role, MSF directly administers services which include the protection of children and young persons. Rehabilitation of youth and adult offenders, registration of civil marriages, licensing of child care centres, public education on family matters and disbursement of social assistance.

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, the Mental Capacity Act and the Vulnerable Adults Act. To address social needs, MSF works closely with its partners in the social service sector, which include Social Service Agencies (SSAs), Community Development Councils (CDCs), major funders such as the Singapore Totalisator Board (or Tote Board), corporate entities as well as the public. The Ministry also plays a key role in developing and working with the social service sector to grow a steady pipeline of social service professionals, develop career pathways, as well as to raise the sector's capabilities and skills to effectively deal with increasingly complex social issues.

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. It 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<sup>1</sup> of about 2,000 Grassroots Organisations (GROs) and five Community Development Councils.

### Community Development Councils

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 the 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

<sup>1</sup> Includes Citizens' Consultative Committees, Community Club Management Committees, Residents' Committees, Residents' Networks, 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 ■

of giving back so as to build a “Great Home and a Caring Community” and a “Cohesive and Compassionate Nation”.

### Volunteers

“Volunteers” refer to individuals, interest groups and organisations 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 child care centres and kindergartens. It is jointly overseen by the Ministry of Education (MOE) and MSF.

Child care centres typically provide full-day 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 also offer half-day and flexible programmes to cater to the different needs of parents and children.

Kindergartens typically 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.

MOE Kindergartens, run by MOE, provide kindergarten education for children aged 5 to 6 years old. They typically run two sessions a day, with each session being 4 hours, 5 days a week. Kindergarten Care services are offered to parents who require full-day services.

In 2018, there were 1,486 child care centres and 435 kindergartens in Singapore, located in HDB void decks, community spaces, primary schools 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 schools and in the community that administer the ComCare Student Care Fee Assistance (SCFA) scheme to support lower income families in accessing the service.

### ComCare Short-to-Medium Term Assistance

ComCare Short-to-Medium Term Assistance is targeted at low-income families and individuals, those who are temporarily unable to work (e.g. due to illness, or caregiving responsibilities), jobseekers who require financial assistance, and those earning a low income and require financial support. Beneficiaries may receive cash assistance for their basic living expenses, assistance with their household bills (e.g. public rental, utilities, and service and conservancy charges), MediFund assistance for medical bills, employment assistance, and referrals to relevant agencies or community organisations for other forms of support (e.g. Family Service Centres for casework and counselling). Officers from the Social Service Office (SSO) will work with the applicants to develop an action plan to improve the family’s circumstances.

### ComCare Long Term Assistance

ComCare Long Term Assistance is targeted at individuals who are permanently unable to



## Community Services ■

work due to old age, illness or disability, have limited or no means of income, and have little or no family support. Beneficiaries receive cash assistance for their basic living expenses and household bills, MediFund assistance for medical bills, as well as additional assistance for medical consumables and one-off essentials if needed. They also have access to government-funded social services such as Senior Activity Centres and befriending services.

### ComCare Interim Assistance

ComCare Interim Assistance schemes are administered by SSOs and community partners to provide immediate financial assistance to individuals and families who require urgent and temporary financial relief. The community touch-points administering ComCare Interim Assistance are the Citizens' Consultative Committees (Grassroots), the Family Service Centres, and the Community Justice Centre. The type and amount of assistance rendered depend on the needs and circumstances of each beneficiary, and may be in the form of financial assistance or other items.

### 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. This fee assistance is available to children attending student care centres registered with MSF, including special student care centres for students with special needs. The eligible 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 provide a suite of services, such as Information and Referral services, and

social work intervention. FSCs focus on serving low income and vulnerable individuals and families, to help them achieve independence, stability and resilience. There are currently 47 FSCs serving more than 27,000 clients a year.

### Services for Senior Citizens

As 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 in-place successfully. As part of the Action Plan for Successful Ageing, MOH works with the PA, the Council for Third Age (C3A), the Health Promotion Board (HPB) and various agencies to promote active and healthy ageing. MOH also undertakes the planning and development of aged care services for senior citizens, which include 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 overseeing the functions of the Senior Activity Centres, which allows MOH to better meet the social needs of the elderly, in addition to their healthcare needs.

In line with its core role of supporting low-income and vulnerable seniors, MSF oversees the Senior Group Homes and Sheltered Homes.



**39,331**

seniors having access to Senior Activity Centres in FY2018

### 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 Family Development. The SSIB provides updates on key social indicators and population statistics.

## 25.1 GRASSROOTS ORGANISATIONS

(End of Period)

|  | Number |      |      |      |      |      |      |
|--|--------|------|------|------|------|------|------|
|  | 2012   | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Community Development Councils   | 5      | 5    | 5    | 5    | 5    | 5    | 5    |
| Citizens' Consultative Committees (CCCs)   | 87     | 87   | 87   | 89   | 89   | 89   | 89   |
| CCC-Area Sub Committees  | 38     | 39   | 41   | 41   | 42   | 39   | 39   |
| Community Club Management Committees   | 106    | 107  | 107  | 108  | 109  | 110  | 110  |
| Residents' Committees/<br>Residents' Networks <sup>1</sup> /<br>Neighbourhood Committees | 705    | 723  | 743  | 774  | 824  | 852  | 885  |
| Malay Activity Executive Committees  | 97     | 99   | 98   | 98   | 97   | 98   | 97   |
| Indian Activity Executive Committees   | 94     | 95   | 94   | 94   | 96   | 99   | 98   |
| Senior Citizens' Executive Committees  | 309    | 295  | 292  | 286  | 268  | 265  | 256  |
| Youth Executive Committees   | 100    | 101  | 102  | 102  | 102  | 100  | 101  |
| Women's Executive Committees   | 104    | 105  | 104  | 105  | 104  | 104  | 104  |
| Community Emergency and Engagement Committees  | 86     | 87   | 87   | 87   | 88   | 89   | 89   |
| Community Sports Clubs   | 86     | 86   | 86   | 87   | 88   | 89   | 88   |
| T-Net Club Management Committees   | 8      | 8    | 8    | 8    | 8    | 8    | 8    |
| Building Fund Committees   | 44     | 50   | 53   | 53   | 51   | 55   | 54   |

Source : People's Association (PA)

<sup>1</sup> Residents' Networks were formed in 2018.Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15706](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15706)

## 25.2 VOLUNTEERS

(End of Period)

|   | 2012              | 2013   | 2014   | 2015   | 2016   | 2017   | Number<br>2018 |
|---|-------------------|--------|--------|--------|--------|--------|----------------|
|   | Community Service |        |        |        |        |        |                |
| Total (Volunteers)  | 44,616            | 46,884 | 48,486 | 49,445 | 49,848 | 50,558 | 51,141         |
| Community Development Councils  | 298               | 298    | 291    | 284    | 290    | 293    | 293            |
| CCCs / CCC-Area Sub Committees  | 4,796             | 4,999  | 5,153  | 5,280  | 5,477  | 5,451  | 5,592          |
| Community Club Management<br>Committees   | 3,723             | 3,789  | 3,804  | 3,807  | 3,858  | 3,874  | 3,890          |
| Residents' Committees (RC) <sup>1</sup> /<br>Residents' Networks <sup>2</sup> /<br>Neighbourhood Committees | 16,601            | 17,863 | 18,596 | 19,399 | 20,042 | 20,762 | 21,398         |
| Malay Activity Executive Committees   | 1,885             | 1,988  | 1,947  | 1,978  | 1,930  | 1,896  | 1,840          |
| Indian Activity Executive Committees  | 1,733             | 1,838  | 1,882  | 1,873  | 1,902  | 1,983  | 1,989          |
| Senior Citizens' Executive Committees   | 5,718             | 5,600  | 5,633  | 5,535  | 5,165  | 5,054  | 4,923          |
| Youth Executive Committees  | 2,392             | 2,462  | 2,689  | 2,503  | 2,516  | 2,409  | 2,473          |
| Women's Executive Committees  | 2,344             | 2,466  | 2,538  | 2,550  | 2,496  | 2,499  | 2,466          |
| Community Emergency and<br>Engagement Committees  | 2,160             | 2,105  | 2,131  | 2,146  | 2,156  | 2,146  | 2,155          |
| Community Sports Clubs  | 2,073             | 2,147  | 2,137  | 2,214  | 2,178  | 2,165  | 2,121          |
| T-Net Club Management Committees  | 140               | 147    | 161    | 163    | 155    | 157    | 155            |
| Building Fund Committees  | 753               | 887    | 925    | 919    | 884    | 955    | 887            |
| Constituency Grassroots Member Scheme   | na                | 295    | 599    | 794    | 799    | 914    | 959            |
|   | Welfare Service   |        |        |        |        |        |                |
| Total (Volunteers)  | 903               | 861    | 900    | 1,046  | 1,185  | 1,198  | 1,258          |
| Welfare Service Boards/Committees   | 15                | 17     | 17     | 18     | 18     | 17     | 16             |
| Volunteer Probation Officers  | 284               | 229    | 223    | 253    | 296    | 296    | 297            |
| Volunteers in MSF Youth Homes <sup>3</sup>  | 256               | 258    | 238    | 238    | 192    | 175    | 157            |
| Enable-A-Family (EAF) Volunteer Scheme  | 76                | 76     | 77     | 89     | 129    | 128    | 139            |
| Foster Parents <sup>4</sup>   | 243               | 243    | 282    | 357    | 420    | 453    | 498            |
| Volunteer Transport Minders <sup>5</sup>  | 29                | 38     | 49     | 52     | 58     | 44     | 48             |
| ProPALS <sup>6</sup>  | na                | na     | 14     | 39     | 72     | 85     | 103            |

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 Residents' Networks were formed in 2018.
- 3 Refers to the Singapore Boys' Home and Singapore Girls' Home.
- 4 Refers to the number of foster families under MSF's Fostering Scheme.
- 5 Volunteer Transport Minders are individuals who 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.
- 6 ProPALS (Promoting Pathways in Arts, Leisure and Sports) started in August 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 and employment (from 2018) 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

|   | 2012   | 2013    | 2014    | 2015    | 2016    | 2017    | Number<br>2018 |
|---|--------|---------|---------|---------|---------|---------|----------------|
| Number of Child Care Centres  | 1,002  | 1,077   | 1,148   | 1,243   | 1,332   | 1,398   | 1,486          |
| Child care centres which also provide infant care services <sup>1</sup> | 285    | 324     | 361     | 418     | 471     | 512     | 578            |
| Capacity in Child Care Centres  | 91,387 | 100,388 | 109,856 | 121,698 | 135,224 | 146,987 | 165,919        |
| Total Enrolment in Child Care Centres                                   | 79,679 | 86,124  | 92,932  | 99,175  | 106,155 | 114,318 | 123,660        |
| Full-Day Programme  | 69,075 | 75,986  | 82,872  | 89,855  | 97,672  | 106,327 | 115,626        |
| Anchor Operators <sup>2</sup>   | 15,879 | 19,076  | 23,668  | 28,219  | 33,105  | 38,847  | 45,021         |
| Social Service Agencies   | 10,514 | 10,793  | 10,058  | 9,945   | 7,048   | 6,973   | 6,917          |
| Private <sup>3</sup>  | 42,682 | 46,117  | 49,146  | 51,691  | 43,059  | 45,496  | 44,819         |
| Partner Operators <sup>4</sup>  | na     | na      | na      | na      | 14,460  | 15,011  | 18,869         |
| Half-Day Programme  | 8,504  | 7,940   | 7,230   | 6,912   | 6,362   | 6,180   | 5,954          |
| Flexicare Programme   | 2,100  | 2,198   | 2,830   | 2,408   | 2,121   | 1,811   | 2,080          |

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, i.e. PAP Community Foundation, My First Skool, MY World Preschool, Skool4Kidz, and E-Bridge Pre-school.
- 3 With effect from 2013, data for full-day programme in workplaces 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 is available in ECDA website (<https://www.ecda.gov.sg/parents/pages/POP.aspx#operators>).

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14612](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14612)

## 25.4 NUMBER AND ENROLMENT IN KINDERGARTENS

|                                  | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | Number<br>2018 |
|----------------------------------|--------|--------|--------|--------|--------|--------|----------------|
| Number of Kindergartens          | 504    | 498    | 503    | 492    | 480    | 471    | 435            |
| Total Enrolment in Kindergartens | 67,734 | 68,057 | 68,999 | 66,331 | 65,306 | 60,967 | 58,204         |
| Anchor Operators <sup>1</sup>    | 36,447 | 35,015 | 33,302 | 30,142 | 27,943 | 24,935 | 22,888         |
| Social Service Agencies          | 20,657 | 21,398 | 24,282 | 23,899 | 23,622 | 22,411 | 21,204         |
| Private                          | 10,586 | 11,589 | 11,173 | 11,290 | 11,904 | 11,183 | 11,159         |
| Government <sup>2</sup>          | 44     | 55     | 242    | 1,000  | 1,837  | 2,438  | 2,953          |

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 (from 2014) and Preschool Learning Academy at Temasek Polytechnic (from 2012 to June 2017).

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14596](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14596)

## 25.5 COMCARE SCHEMES

|   | Unit        | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|
| Overall <sup>1</sup>  | Households  | 34,908 | 42,246 | 41,086 | 41,920 | 39,548 | 39,162 | 39,300 |
|   | Individuals | 64,933 | 85,078 | 89,339 | 91,093 | 86,759 | 83,353 | 79,470 |
| ComCare Long-Term Assistance<br>(also known as Public Assistance) | Households  | 3,370  | 3,420  | 3,568  | 3,846  | 4,248  | 4,387  | 4,409  |
|   | Individuals | 3,608  | 3,660  | 3,831  | 4,134  | 4,540  | 4,788  | 4,675  |
| ComCare Short-to-Medium-Term<br>Assistance <sup>2</sup>           | Households  | 14,087 | 20,572 | 24,319 | 27,461 | 29,511 | 28,409 | 27,986 |
|   | Individuals | 35,941 | 51,776 | 59,150 | 67,926 | 70,407 | 65,910 | 64,191 |
| Student Care Fee Assistance                                       | Households  | 3,345  | 4,889  | 6,000  | 6,392  | 7,506  | 7,942  | 8,413  |
|   | Individuals | 4,269  | 6,292  | 7,828  | 8,339  | 9,605  | 10,170 | 10,331 |
| ComCare Interim Assistance  | Individuals | 5,361  | 11,293 | 18,018 | 14,316 | 12,228 | 9,778  | 7,090  |

Source : Ministry of Social and Family Development (MSF)

Notes : Financial Year begins on 1 April of the reporting year and ends on 31 March of the following year.  
Data refer to households and individuals that have received assistance under the respective ComCare Schemes within the Financial Year.

- 1 Overall data are based on unique headcounts. That is, a household/individual who received assistance from one or more ComCare Schemes is only counted once.
- 2 Comprises schemes that were previously known as Work Support Programme and ComCare Transitions.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14577](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14577)

## 25.6 SENIOR ACTIVITY CENTRES

|  | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 |
|--|--------|--------|--------|--------|--------|--------|--------|
| Number of Senior Activity Centres                          | 52     | 53     | 59     | 61     | 67     | 74     | 78     |
| Number of Seniors Having Access to Senior Activity Centres | 25,531 | 27,546 | 28,995 | 28,415 | 30,896 | 31,741 | 39,331 |

Source : Ministry of Health (MOH) (with effect from April 2018)  
Ministry of Social and Family Development (prior to April 2018)

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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14639](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14639)

## 25.7 RESIDENTS IN OLD FOLKS' HOMES BY TYPE OF ORGANISATION AND SEX

(End of Period)

|                                       | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | Number<br>2018 |
|---------------------------------------|--------|--------|--------|--------|--------|--------|----------------|
| Total                                 | 10,016 | 10,410 | 10,547 | 11,078 | 11,712 | 12,777 | 13,706         |
| Males                                 | 4,848  | 5,130  | 5,198  | 5,606  | 6,089  | 6,724  | 7,147          |
| Females                               | 5,168  | 5,280  | 5,349  | 5,472  | 5,623  | 6,053  | 6,559          |
| Government Welfare Homes <sup>1</sup> | 1,221  | 1,147  | 1,146  | 1,251  | 1,263  | 1,223  | 1,197          |
| Males                                 | 963    | 885    | 875    | 980    | 995    | 972    | 958            |
| Females                               | 258    | 262    | 271    | 271    | 268    | 251    | 239            |
| Sheltered Homes                       | 689    | 698    | 685    | 673    | 666    | 633    | 632            |
| Males                                 | 341    | 354    | 350    | 338    | 341    | 332    | 339            |
| Females                               | 348    | 344    | 335    | 335    | 325    | 301    | 293            |
| Voluntary Nursing Homes               | 4,978  | 5,295  | 5,418  | 5,903  | 6,253  | 6,997  | 7,703          |
| Males                                 | 2,155  | 2,386  | 2,475  | 2,819  | 3,060  | 3,478  | 3,804          |
| Females                               | 2,823  | 2,909  | 2,943  | 3,084  | 3,193  | 3,519  | 3,899          |
| Commercial Nursing Homes              | 3,128  | 3,270  | 3,298  | 3,251  | 3,530  | 3,924  | 4,174          |
| Males                                 | 1,389  | 1,505  | 1,498  | 1,469  | 1,693  | 1,942  | 2,046          |
| Females                               | 1,739  | 1,765  | 1,800  | 1,782  | 1,837  | 1,982  | 2,128          |

Sources : Government Welfare Homes and Sheltered Homes -  
 Ministry of Social and Family Development (with effect from November 2012)  
 Ministry of Community Development, Youth and Sports (prior to November 2012)  
 Voluntary Nursing Homes and Commercial Nursing Homes - Ministry of Health

<sup>1</sup> Includes only those aged 60 years and above.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14880](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14880)



## 25.8 FAMILY SERVICE CENTRES

|                          | Unit  | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 |
|--------------------------|-------|--------|--------|--------|--------|--------|--------|--------|
| Centres                  | No.   | 39     | 43     | 43     | 46     | 46     | 47     | 47     |
| Casework and Counselling | Cases | 28,695 | 31,074 | 32,844 | 28,486 | 25,050 | 24,993 | 27,559 |
| Information and Referral | No.   | 36,091 | 38,054 | 40,707 | 37,036 | 27,198 | 27,240 | 25,271 |

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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14581](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14581)

26



# Culture and Recreation



As a vibrant city of the arts, culture and media, and a sporting and learning nation, Singapore aims to provide a better quality of life for all.

### Cinema

Data on cinema attendances (box office and audience numbers) are compiled by the Singapore Film Commission, under the Infocomm Media Development Authority, from returns submitted by cinema operators, distributors, and the Cinematograph Film Exhibitors Association.



### Library

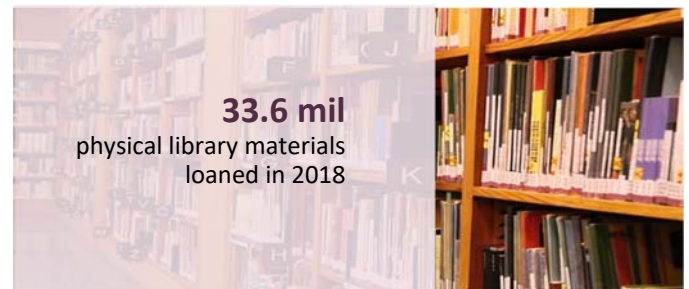
The National Library Board (NLB) aims to nurture the learning needs of a Knowledgeable Society, where all Singaporeans are Readers for Life and are actively engaged in Learning Communities. NLB has around 2.5 million members. In addition to the National Library, there are 26 public libraries located conveniently across Singapore comprising 13 libraries located in shopping malls, 10 stand-alone public libraries and 3 regional libraries. NLB also manages 3 mobile libraries (MOLLY) and 4 libraries belonging to government agencies and institutions.

NLB has a physical collection of 8.8 million books, serials and special materials. Out of this collection, some 2.8 million fiction items and 3.6 million non-fiction items are in the lending collection. Over 33 million loans were made in 2018.

The reference collection offered by the Lee Kong Chian Reference Library at the National Library Building consists of 2.4 million

items covering social sciences and humanities, arts, science and technology, business and management.

NLB also provides library users with on-site and remote access to a digital library at [www.nlb.gov.sg](http://www.nlb.gov.sg). Its eResources site offers more than 904,000 copies of eBooks, over 70 databases with more than 7,500 titles of electronic newspapers and magazines in over 60 languages, and approximately 2.2 million music tracks.



### Sports

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 Sport Facilities Master Plan and ActiveSG, the national movement for sport and physical activity, Singaporeans of all ages and abilities are able to conveniently participate in sport within their communities.

Active Health, a social movement introduced by Sport Singapore, encourages

## Culture and Recreation ■



Singaporeans to proactively take ownership of their health and wellness through the management of Physical Activity, Screen Time, Sleep and Nutrition.

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 Committees/Networks Centres, PAssion WaVe outlets and other community spaces. The PA also encourages the formation of

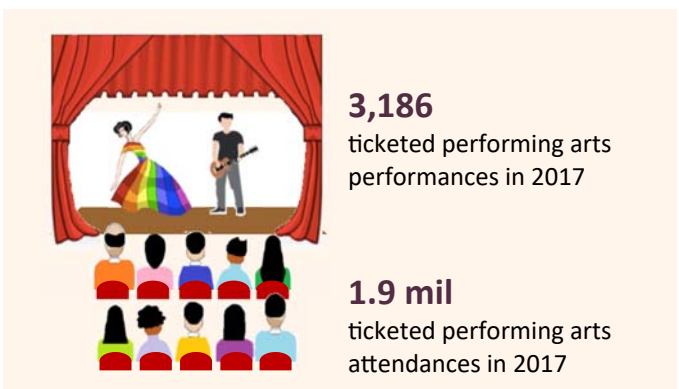
interest groups for residents to deepen their friendships through the pursuit of common interests.

### The Arts

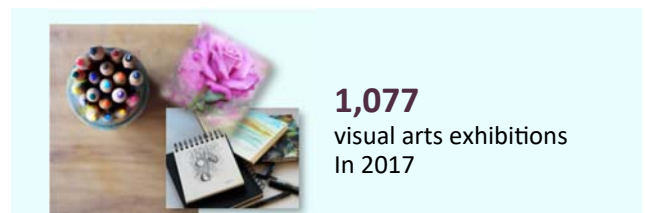
The Ministry of Culture, Community and Youth (MCCY)'s publication "Singapore Cultural Statistics", published annually since 2008, provides an update on the state of the arts and cultural landscape in Singapore. The statistics reported in this publication include data on arts and cultural performance, heritage events and museum exhibitions.

### Definitions

*Performing arts:* Refer 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.



*Visual arts:* Refer 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.



## 26.1 CINEMAS, SEATING CAPACITY AND ATTENDANCES

|                  | Unit           | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|------------------|----------------|------|------|------|------|------|------|------|
| Cinemas          | No. of Screens | 200  | 218  | 233  | 223  | 235  | 257  | 276  |
| Seating Capacity | '000           | 37   | 38   | 37   | 39   | 38   | 40   | 41   |
| Attendances      | Million        | 21.2 | 22.1 | 21.6 | 21.9 | 21.9 | 19.4 | 19.6 |

Source : Info-Communications Media Development Authority

Notes : Data are based on major commercial theatres. Information is gathered from various sources including websites, the local press, and local distributors and producers.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15958](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15958)

## 26.2 NATIONAL LIBRARY BOARD LIBRARY MEMBERSHIP, COLLECTIONS AND LOANS

|   | Unit | 2012     | 2013     | 2014     | 2015     | 2016     | 2017     | 2018     |
|---|------|----------|----------|----------|----------|----------|----------|----------|
| National Library                                | No.  | 1        | 1        | 1        | 1        | 1        | 1        | 1        |
| Public Library                                  | No.  | 24       | 25       | 25       | 26       | 26       | 26       | 26       |
| Membership <sup>1</sup>                         | '000 | 2,109.0  | 2,213.5  | 2,259.8  | 2,315.9  | 2,378.1  | 2,435.1  | 2,464.7  |
| Persons Aged 13 years and Over                  | '000 | 1,815.6  | 1,932.9  | 1,989.0  | 2,052.1  | 2,105.7  | 2,156.4  | 2,183.9  |
| Children Under 13 Years                         | '000 | 293.4    | 280.5    | 270.8    | 263.8    | 272.4    | 278.6    | 280.8    |
| Total Physical Collections <sup>2</sup>         | '000 | 8,303.0  | 8,090.7  | 8,726.2  | 7,899.8  | 7,549.9  | 7,540.3  | 8,820.2  |
| Total eBooks Collections <sup>3</sup>           | '000 | 3,155.6  | 3,225.6  | 3,522.0  | 4,145.1  | 4,579.7  | 696.5    | 904.2    |
| Loan of Physical Library Materials <sup>4</sup> | '000 | 38,082.6 | 35,537.4 | 34,034.7 | 31,824.4 | 32,061.7 | 29,325.3 | 33,587.6 |
| Persons Aged 13 Years and Over                  | '000 | 26,802.9 | 25,606.8 | 22,411.0 | 20,868.8 | 20,965.4 | 20,068.0 | 22,406.9 |
| Children Under 13 Years                         | '000 | 11,279.7 | 9,930.5  | 11,623.8 | 10,955.6 | 11,096.3 | 9,257.3  | 11,180.7 |
| Usage of Digital Library Materials <sup>5</sup> | '000 | 7,483.7  | 10,611.7 | 10,758.4 | 11,504.3 | 11,680.2 | 10,616.1 | 7,936.3  |

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 eBook copies made available on NLB's e-resource platforms such as Apabi, Overdrive and Tumblebooks, World eBook Library Database (WeL) etc. With effect from August 2017, subscription to WeL was discontinued.

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. Five libraries were closed for revamp in 2017.

5 Refers to different types of usages such as loans, pageviews, downloads and checkouts.

Prior to 2017, data were for e-Books. With effect from 2017, data were for e-books, e-magazines and e-newspapers.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14569](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14569)

## 26.3 VISITORS TO PLACES OF INTEREST

Thousand

|   | 2012     | 2013     | 2014     | 2015     | 2016     | 2017     | 2018     |
|---|----------|----------|----------|----------|----------|----------|----------|
| Asian Civilisations Museum <sup>1,2</sup>         | 524.8    | 452.4    | 423.2    | 349.6    | 534.3    | 488.6    | 524.9    |
| Chinese/Japanese Gardens <sup>3</sup>             | 911.0    | 693.1    | 951.0    | 939.5    | 1,314.4  | 925.0    | 659.2    |
| Gardens by the Bay <sup>4</sup>                   | 2,920.1  | 4,550.3  | 6,375.1  | 8,514.5  | 8,763.4  | 9,680.2  | 12,383.3 |
| Indian Heritage Centre <sup>1,5</sup>             | na       | na       | na       | 195.0    | 146.1    | 176.6    | 221.1    |
| Jurong BirdPark                                   | 901.4    | 777.6    | 717.4    | 810.1    | 772.1    | 827.2    | 789.2    |
| Malay Heritage Centre <sup>1,6</sup>              | 185.8    | 152.3    | 166.5    | 497.0    | 508.2    | 697.8    | 728.9    |
| National Gallery Singapore <sup>7</sup>           | na       | na       | na       | 275.6    | 1,585.3  | 1,849.7  | 1,732.7  |
| National Museum of Singapore <sup>1</sup>         | 885.8    | 1,199.0  | 902.1    | 774.6    | 777.4    | 901.5    | 959.6    |
| Night Safari                                      | 1,163.4  | 1,168.0  | 1,179.8  | 1,159.0  | 1,150.5  | 1,261.8  | 1,329.4  |
| Sentosa <sup>8,9</sup>                            | 20,500.0 | 18,600.0 | 19,400.0 | 19,500.0 | 19,300.0 | 19,100.0 | 19,700.0 |
| Singapore Art Museum <sup>1,10</sup>              | 656.1    | 729.0    | 743.7    | 903.4    | 732.9    | 414.7    | 280.8    |
| Singapore Discovery Centre <sup>8</sup>           | 194.8    | 212.3    | 209.8    | 270.0    | 210.0    | 196.3    | 206.0    |
| Singapore Philatelic Museum <sup>1</sup>          | 123.0    | 117.5    | 142.1    | 152.7    | 160.0    | 147.6    | 144.3    |
| Science Centre Singapore                          | 969.2    | 899.5    | 952.3    | 1,046.0  | 955.8    | 874.7    | 863.0    |
| Singapore Zoological Gardens                      | 1,756.4  | 1,804.1  | 1,678.2  | 1,833.4  | 1,797.0  | 1,891.8  | 2,109.1  |
| Sun Yat Sen Nanyang Memorial Hall <sup>1,11</sup> | 99.4     | 101.5    | 92.3     | 97.3     | 133.2    | 122.0    | 213.8    |
| The Peranakan Museum <sup>1</sup>                 | 269.9    | 373.9    | 417.1    | 475.7    | 508.3    | 473.2    | 213.2    |
| River Safari <sup>12</sup>                        | na       | 703.2    | 1,144.6  | 843.1    | 842.9    | 952.5    | 958.3    |

Sources : National Heritage Board  
 National Gallery Singapore  
 Science Centre Singapore  
 Singapore Zoological Gardens  
 National Parks Board  
 Singapore Discovery Centre  
 Singapore Art Museum  
 Jurong Gardens Pte Ltd  
 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, which makes use of tracking devices fixed at all the 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 Prior to April 2016, data were obtained from JTC Corporation. From April 2016, data are obtained from National Parks Board.

4 Gardens by the Bay was officially opened on 29 June 2012.

5 The Indian Heritage Centre opened on 7 May 2015.

6 Visitorship to the Malay Heritage Centre prior to 2015 is not directly comparable to future years due to updates in the data collection method.

Year 2017 and 2018 data have been revised based on the results of a validation study conducted by the National Heritage Board.

7 The National Gallery Singapore opened officially on 24 November 2015.

8 Refers to the financial year which begins in April of the current year and ends in March of the following year.

9 Excludes Southern Island arrivals and includes arrivals to Resorts World Sentosa.

10 Singapore Art Museum (SAM) had been incorporated as an independent company limited by guarantee in November 2013. From January 2014, visitorship data are provided by SAM. Visitorship data include visitors to SAM at 8Q. With effect from September 2018, only SAM at 8Q is open.

11 The National Heritage Board is the appointed operator of Sun Yat Sen Nanyang Memorial Hall from 2009.

Sun Yat Sen Nanyang Memorial Hall was closed for redevelopment from October 2010 to 7 October 2011.

Data for 2011 refer to the visitorship to Sun Yat Sen Nanyang Memorial Hall from 8 October to 31 December 2011.

12 River Safari was officially opened on 3 April 2013.

## 26.4 UTILISATION OF SPORTS FACILITIES

|                           | Number    |           |           |           |           |           |           |
|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                           | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
| <b>Attendances</b>        |           |           |           |           |           |           |           |
| Swimming pool             | 7,034,166 | 6,724,546 | 6,870,183 | 6,898,517 | 7,081,651 | 7,062,603 | 6,505,288 |
| Gymnasium                 | 2,298,340 | 2,523,844 | 2,562,218 | 2,554,524 | 2,451,235 | 2,477,814 | 2,430,080 |
| <b>Bookings</b>           |           |           |           |           |           |           |           |
| Total                     | 933,687   | 933,589   | 1,041,967 | 1,162,779 | 1,161,428 | 1,256,010 | 1,212,216 |
| Badminton <sup>1</sup>    | 538,381   | 526,660   | 579,431   | 638,485   | 669,217   | 727,432   | 774,341   |
| Tennis                    | 141,621   | 133,227   | 161,888   | 168,182   | 155,931   | 156,807   | 168,573   |
| Table-tennis <sup>1</sup> | 86,706    | 84,104    | 96,274    | 105,218   | 116,237   | 120,260   | 130,232   |
| Basketball <sup>1</sup>   | 27,646    | 39,362    | 41,883    | 34,661    | 33,978    | 48,016    | 16,555    |
| Squash                    | 34,479    | 37,610    | 41,742    | 54,973    | 54,704    | 54,591    | 52,896    |
| Football                  | 29,487    | 27,944    | 29,074    | 28,470    | 27,133    | 27,882    | 23,651    |
| Volleyball <sup>1</sup>   | 14,182    | 13,988    | 21,188    | 29,418    | 29,540    | 22,965    | 10,086    |
| Netball                   | 7,549     | 7,651     | 7,339     | 9,427     | 6,380     | 7,379     | 7,235     |
| Hockey                    | 4,800     | 5,345     | 5,268     | 6,601     | 5,933     | 6,499     | 6,057     |
| Rugby                     | 608       | 533       | 399       | 521       | 638       | 636       | 574       |
| Athletics                 | 324       | 277       | 642       | 2,358     | 2,939     | 2,398     | 2,026     |
| Others <sup>2</sup>       | 47,904    | 56,888    | 56,839    | 84,465    | 58,798    | 81,145    | 19,990    |

Source : Sport Singapore

Notes : Refers to sports facilities provided by Sport Singapore.

Prior to April 2014, data were from Singapore Sports Council. With effect from Apr 2014, data are from Sport Singapore.

1 Refers to bookings of courts at sports hall (indoor).

2 Refers to other bookings of sports hall (indoor) e.g. floorball, handball etc.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14774](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14774)



## 26.5 INTEREST GROUPS IN COMMUNITY CLUBS AND RESIDENTS' COMMITTEES/ RESIDENTS' NETWORKS <sup>1</sup>/NEIGHBOURHOOD COMMITTEES <sup>2</sup>

(End of Period)

| Type of Interest Groups    | Number                    |         |         |         |         |         |         |
|----------------------------|---------------------------|---------|---------|---------|---------|---------|---------|
|                            | 2012                      | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
|                            | Number of Interest Groups |         |         |         |         |         |         |
| Music, Drama & Dance       | 1,831                     | 1,932   | 2,368   | 2,447   | 2,589   | 2,597   | 2,756   |
| Dance                      | 672                       | 714     | 908     | 952     | 1,015   | 1,019   | 1,062   |
| Instrumental               | 259                       | 324     | 416     | 430     | 449     | 457     | 479     |
| Music Theory               | 1                         | 1       | 1       | 1       | 1       | 7       | 5       |
| Opera                      | 60                        | 57      | 76      | 78      | 79      | 78      | 84      |
| Speech and Drama           | 31                        | 39      | 57      | 60      | 68      | 69      | 78      |
| Vocal                      | 808                       | 797     | 910     | 926     | 977     | 967     | 1,048   |
| Sports & Fitness           | 3,372                     | 3,424   | 3,899   | 4,021   | 4,330   | 4,594   | 4,980   |
| Adventure Sports           | 2                         | 1       | 2       | 3       | 3       | 5       | 6       |
| Ball & Bat Games           | 867                       | 863     | 1,021   | 1,053   | 1,143   | 1,149   | 1,237   |
| Dance Fitness              | 61                        | 71      | 92      | 103     | 125     | 150     | 198     |
| Intellectual & Board Games | 339                       | 350     | 419     | 445     | 498     | 582     | 595     |
| Martial Arts               | 433                       | 441     | 513     | 528     | 554     | 555     | 587     |
| Mind Body Exercise         | 477                       | 474     | 534     | 546     | 565     | 631     | 682     |
| Recreational Sports        | 183                       | 194     | 217     | 227     | 247     | 284     | 324     |
| Strength & Conditioning    | 942                       | 960     | 1,018   | 1,029   | 1,074   | 1,127   | 1,235   |
| Water Sports               | 68                        | 70      | 83      | 87      | 121     | 111     | 116     |
|                            | Number of Members         |         |         |         |         |         |         |
| Music, Drama & Dance       | 22,454                    | 24,348  | 36,181  | 37,851  | 41,032  | 44,968  | 48,783  |
| Dance                      | 9,575                     | 10,500  | 15,979  | 17,222  | 19,089  | 22,160  | 23,356  |
| Instrumental               | 2,931                     | 3,387   | 5,398   | 5,590   | 6,147   | 6,521   | 7,366   |
| Music Theory               | 9                         | 11      | 12      | 12      | 12      | 98      | 58      |
| Opera                      | 725                       | 638     | 1,172   | 1,161   | 1,185   | 1,200   | 1,296   |
| Speech and Drama           | 325                       | 374     | 743     | 810     | 902     | 932     | 1,072   |
| Vocal                      | 8,889                     | 9,438   | 12,877  | 13,056  | 13,697  | 14,057  | 15,635  |
| Sports & Fitness           | 108,399                   | 111,136 | 129,133 | 125,291 | 131,916 | 138,612 | 150,237 |
| Adventure Sports           | 18                        | 11      | 20      | 39      | 40      | 71      | 107     |
| Ball & Bat Games           | 9,247                     | 9,184   | 13,559  | 14,601  | 16,032  | 16,783  | 18,774  |
| Dance Fitness              | 942                       | 1,273   | 2,558   | 3,058   | 3,479   | 2,914   | 4,182   |
| Intellectual & Board Games | 4,428                     | 4,467   | 6,173   | 6,812   | 7,778   | 9,546   | 10,143  |
| Martial Arts               | 6,597                     | 7,041   | 9,168   | 9,347   | 9,896   | 10,288  | 10,874  |
| Mind Body Exercise         | 8,052                     | 8,341   | 10,552  | 10,498  | 10,875  | 13,543  | 15,027  |
| Recreational Sports        | 2,054                     | 2,143   | 2,898   | 3,066   | 3,459   | 4,099   | 4,837   |
| Strength & Conditioning    | 76,257                    | 77,994  | 83,249  | 76,710  | 78,776  | 79,843  | 84,603  |
| Water Sports               | 804                       | 682     | 956     | 1,160   | 1,581   | 1,525   | 1,690   |

Source : People's Association (PA)

1 Residents' Networks were formed in 2018.

2 From 2018, data for Neighbourhood Committees are included.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=5275](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=5275)

## 26.6 SPORTS AND PERFORMING ARTS COURSES CONDUCTED BY COMMUNITY CLUBS, RESIDENTS' COMMITTEES/RESIDENTS' NETWORKS<sup>1</sup>/ NEIGHBOURHOOD COMMITTEES<sup>2</sup> AND PA WATER-VENTURE

| Type of Course             |         |         |         |         |         |         | Number  |
|----------------------------|---------|---------|---------|---------|---------|---------|---------|
|                            | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
| Classes                    |         |         |         |         |         |         |         |
| Music, Drama & Dance       | 19,627  | 19,025  | 19,182  | 19,349  | 18,576  | 17,946  | 17,364  |
| Dance                      | 9,056   | 9,143   | 9,640   | 9,827   | 9,992   | 9,982   | 9,844   |
| Instrumental               | 6,970   | 6,595   | 6,371   | 6,172   | 5,380   | 5,130   | 4,992   |
| Music Theory               | 21      | 14      | 18      | 155     | 122     | 116     | 114     |
| Opera                      | 220     | 213     | 217     | 224     | 233     | 208     | 202     |
| Speech and Drama           | 254     | 215     | 222     | 247     | 234     | 178     | 148     |
| Vocal                      | 3,106   | 2,845   | 2,714   | 2,724   | 2,615   | 2,332   | 2,064   |
| Sports & Fitness           | 15,742  | 14,590  | 15,404  | 16,007  | 15,527  | 14,985  | 13,521  |
| Adventure Sports           | 11      | 1       | 1       | 0       | 1       | 0       | 1       |
| Ball & Bat Games           | 436     | 341     | 368     | 293     | 280     | 276     | 247     |
| Dance Fitness              | 1,541   | 2,244   | 3,049   | 3,286   | 3,291   | 3,151   | 2,802   |
| Intellectual & Board Games | 121     | 128     | 96      | 72      | 105     | 91      | 55      |
| Martial Arts               | 4,315   | 4,175   | 4,200   | 4,679   | 4,612   | 4,393   | 4,101   |
| Mind Body Exercise         | 4,231   | 3,831   | 4,089   | 4,079   | 4,058   | 4,236   | 4,152   |
| Recreational Sports        | 453     | 427     | 429     | 408     | 351     | 274     | 193     |
| Strength & Conditioning    | 939     | 841     | 874     | 911     | 752     | 798     | 804     |
| Water Sports               | 3,695   | 2,602   | 2,298   | 2,279   | 2,077   | 1,766   | 1,166   |
| Participants               |         |         |         |         |         |         |         |
| Music, Drama & Dance       | 177,296 | 168,033 | 164,421 | 169,159 | 159,746 | 154,860 | 152,717 |
| Dance                      | 104,389 | 99,736  | 100,526 | 103,416 | 98,234  | 99,317  | 97,690  |
| Instrumental               | 21,501  | 19,465  | 18,404  | 19,064  | 15,246  | 14,177  | 13,979  |
| Music Theory               | 108     | 61      | 74      | 1,010   | 696     | 710     | 797     |
| Opera                      | 2,209   | 2,363   | 2,291   | 2,297   | 2,544   | 2,117   | 1,887   |
| Speech and Drama           | 3,843   | 3,029   | 3,031   | 3,120   | 2,809   | 2,418   | 1,766   |
| Vocal                      | 45,246  | 43,379  | 40,095  | 40,252  | 40,217  | 36,121  | 36,598  |
| Sports & Fitness           | 244,148 | 229,106 | 239,958 | 248,422 | 235,545 | 231,283 | 212,188 |
| Adventure Sports           | 79      | 2       | 7       | 0       | 4       | 0       | 3       |
| Ball & Bat Games           | 4,414   | 3,551   | 3,468   | 3,117   | 3,062   | 3,361   | 3,142   |
| Dance Fitness              | 33,860  | 49,386  | 62,857  | 64,109  | 57,898  | 52,584  | 44,957  |
| Intellectual & Board Games | 1,348   | 1,274   | 657     | 578     | 532     | 537     | 386     |
| Martial Arts               | 77,126  | 74,890  | 72,912  | 77,574  | 79,885  | 76,526  | 72,766  |
| Mind Body Exercise         | 69,696  | 60,546  | 63,304  | 65,710  | 62,312  | 65,678  | 63,878  |
| Recreational Sports        | 4,749   | 3,937   | 4,077   | 3,842   | 3,046   | 2,388   | 1,817   |
| Strength & Conditioning    | 16,419  | 14,392  | 13,773  | 13,498  | 11,629  | 13,528  | 13,428  |
| Water Sports               | 36,457  | 21,128  | 18,903  | 19,994  | 17,177  | 16,681  | 11,811  |

Source : People's Association (PA)

1 Residents' Networks were formed in 2018.

2 From 2018, data for Neighbourhood Committees are included.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15211](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15211)

## 26.7 THE ARTS

| Art Form   | Number     |           |           |           |           |           |            |
|--|------------|-----------|-----------|-----------|-----------|-----------|------------|
|  | 2011       | 2012      | 2013      | 2014      | 2015      | 2016      | 2017       |
| Total Performing Arts Activities <sup>1</sup>                                  | 7,727      | 8,360     | 7,437     | 8,152     | 8,300     | 9,010     | 9,582      |
| Ticketed Performances <sup>2</sup>   | 3,416      | 3,497     | 3,006     | 3,256     | 3,323     | 3,430     | 3,186      |
| Non-ticketed Performances <sup>3</sup>   | 4,311      | 4,863     | 4,431     | 4,896     | 4,977     | 5,580     | 6,396      |
| Visual Arts Exhibitions <sup>4</sup>   |            |           |           |           |           |           |            |
| Number   | 858        | 675       | 559       | 973       | 1,041     | 1,114     | 1,077      |
| Exhibition Days <sup>5</sup>   | 22,867     | 17,883    | 16,115    | 31,678    | 26,271    | 28,740    | 29,790     |
| Ticketed Attendance <sup>6</sup> at<br>Performing Arts Events                  | 2,311,313  | 2,062,124 | 1,897,162 | 1,876,922 | 1,946,322 | 1,812,697 | 1,911,266  |
| Non-Ticketed Attendance<br>at Arts <sup>7</sup> & Heritage Events <sup>8</sup> | 10,532,800 | 7,619,600 | 7,219,754 | 8,002,359 | 9,017,614 | 9,536,519 | 11,308,550 |

Sources: National Arts Council (NAC)  
National Heritage Board (NHB)  
People's Association (PA)

1 Refers to folk, traditional, classical and contemporary forms of dance, music (pop/rock concerts included) and theatre.

2 Refers to performances which require a ticket for entry.

3 Refers to performances for which no tickets are issued.

4 Refers to public exhibitions of abstract or representational art objects such as painting, sculpture, pottery, ceramics, creative photography, installation art and multi-media art. Applied arts such as film, graphic design, jewellery design and handicrafts are excluded.

Data are based on published and online sources such as newspapers, websites and publications, as well as data from Singapore Art Gallery Guide, Art Gallery Association, community art galleries, Gillman Barracks and National Heritage Board Museums.

5 Refers to the total number of days over which all exhibitions are held.

6 Refers to attendance at performing arts events that require a ticket for entry. It includes tickets sold and complimentary tickets issued.

7 Refers to attendance at performing arts events organised and supported by the NAC, Esplanade and PA.

8 Refers to attendance at outreach events organised by the NHB. These events include community outreach activities organised by NHB institutions and museums, including the Singapore Night Festival and the Singapore Heritage Festival. Data exclude incidental viewership and events where attendance figures are unable to be determined. Non-ticketed heritage events may also include some performing arts elements.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=1881](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=1881)

## 26.8 TICKET SALES FOR PERFORMING ARTS EVENTS

| Art Form                        |     | 2011      | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      |
|---------------------------------|-----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total Tickets Sold <sup>1</sup> | No. | 1,856,400 | 1,711,500 | 1,502,900 | 1,482,489 | 1,562,404 | 1,398,857 | 1,489,685 |
| Music                           | No. | 589,400   | 645,400   | 593,300   | 611,264   | 728,305   | 639,713   | 747,493   |
| Dance                           | No. | 104,700   | 82,800    | 100,600   | 75,661    | 75,973    | 70,874    | 69,266    |
| Theatre                         | No. | 1,148,400 | 965,200   | 800,400   | 783,594   | 745,171   | 677,909   | 662,597   |
| Others                          | No. | 13,900    | 18,100    | 8,600     | 11,970    | 12,955    | 10,361    | 10,329    |
| Total Gross Takings             | \$m | 166.5     | 144.7     | 122.6     | 100.0     | 121.8     | 82.4      | 87.7      |

Sources : National Arts Council

Notes : Performing Arts refer to folk, traditional, classical and contemporary forms of dance, music (pop/rock concerts included) and theatre.

- 1 Includes tickets sold through ticketing service providers like SISTIC and APACTix.  
Excludes tickets sold through Ticketcharge/Tickets.com and other site-specific or independent ticketing service providers.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15915](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15915)

## 26.9 REGISTERED ARTS AND CULTURAL SOCIETIES AND COMPANIES

(End of Period)

| Art Form            |                        |       |       |       |       | Number |
|---------------------|------------------------|-------|-------|-------|-------|--------|
|                     | 2013                   | 2014  | 2015  | 2016  | 2017  |        |
|                     | Societies <sup>1</sup> |       |       |       |       |        |
| Total               | 478                    | 487   | 502   | 492   | 504   |        |
| Music               | 147                    | 152   | 160   | 159   | 163   |        |
| Dance               | 45                     | 45    | 48    | 46    | 47    |        |
| Theatre             | 92                     | 94    | 95    | 89    | 90    |        |
| Visual Arts         | 80                     | 81    | 81    | 79    | 80    |        |
| Craft               | 5                      | 5     | 5     | 6     | 6     |        |
| Literary Arts       | 58                     | 58    | 59    | 59    | 61    |        |
| Others <sup>2</sup> | 51                     | 52    | 54    | 54    | 57    |        |
|                     | Companies <sup>3</sup> |       |       |       |       |        |
| Total               | 5,486                  | 5,412 | 5,749 | 5,423 | 4,945 |        |
| Music               | 1,555                  | 1,671 | 1,787 | 1,879 | 1,796 |        |
| Dance               | 369                    | 438   | 476   | 464   | 453   |        |
| Theatre             | 481                    | 493   | 513   | 525   | 496   |        |
| Visual Arts         | 1,171                  | 1,161 | 1,243 | 1,171 | 1,071 |        |
| Craft               | 666                    | 565   | 600   | 458   | 332   |        |
| Literary Arts       | 1,187                  | 1,015 | 1,038 | 843   | 715   |        |
| Others <sup>4</sup> | 57                     | 69    | 92    | 83    | 82    |        |

Source : National Arts Council

- 1 Refers to societies that are registered with the Registry of Societies.
- 2 Includes cultural or heritage societies that are multi-disciplinary and do not specialise in an art form.
- 3 Refers to commercial (for-profit) and non-profit companies registered with the Accounting and Corporate Regulatory Authority. The number of arts and cultural 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 equipment, (iii) conduct classes/courses in the arts (e.g. dance, music lessons).
- 4 Includes cultural or heritage companies that are multi-disciplinary and do not specialise in an art form.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14522](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14522)

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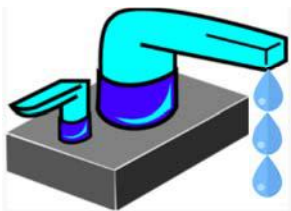
## Miscellaneous



### Water Supply

PUB, Singapore's national water agency, is responsible for managing Singapore's water supply, water catchment and used water in an integrated way. To ensure sustainability of our water supply, efforts are taken to diversify the supply sources and manage demand.

Today, Singapore has a robust and diversified supply of water through the four National Taps, namely, water from local catchments, imported water, NEWater and desalinated water. Singapore's drinking water quality is well within the requirements stipulated under the Environmental Public Health (Water Suitable for Drinking) Regulations and the World Health Organisation's Guidelines for Drinking Water Quality. As part of water demand management, PUB works with the community and various sectors to adopt water conservation measures, such as promoting water saving habits and improving the efficiency of water usage.



**495.5 mil m<sup>3</sup>** of potable water was sold in 2018

### 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 participating in the National Electricity Market of Singapore (NEMS), a real-time electricity trading pool operated and administered by the Energy Market Company. The power generation companies bid to sell electricity on a half-hourly basis through NEMS.

Of these 15 power generation companies, seven generate electricity using natural gas as their primary fuel. They are:

- ◆ 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

For the remaining power generation companies, the National Environment Agency (NEA), Keppel Seghers Tuas Waste-To-Energy Plant Pte Ltd and Senoko Waste-To-Energy Pte Ltd operate and sell electricity generated by their incineration plants. TP Utilities Pte Ltd generates electricity using mainly coal and biomass. ExxonMobil Asia Pacific Pte Ltd, Shell Eastern Petroleum Pte Ltd and Singapore Refinery Company Pte Ltd generate electricity with natural gas, mainly for their own use. TuasOne Pte Ltd commissioned an incineration plant which started generating electricity from October 2018.

As at December 2018, the total registered power generation capacity (excluding solar photovoltaics) was 13,492.7 MW (megawatt). As at September 2018, there was 183.4 MWp (megawatt-peak) of grid-connected solar photovoltaic capacity. The total amount of electricity produced in 2018 was 52,904.8 GWh (gigawatt-hour), while the peak demand was 7,370 MW.



**52,904.8** gigawatt-hours of electricity was generated in 2018

EMA progressively opened the electricity retail market to competition since

## Miscellaneous ■

2001. The liberalisation of the electricity market facilitates the supply of competitively-priced electricity and allows greater consumer choice.

The Open Electricity Market had a soft launch in April 2018, which allowed households and businesses in Jurong to buy electricity from an electricity retailer of their choice, with a price plan that best meets their needs. This initiative was later rolled out across Singapore by zones from 1 November 2018.

As at end December 2018, there were 31 licensed electricity retailers.

### 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 64% of households in Singapore and is used mainly for cooking and water heating. Total amount of town gas sold in 2018 was 1,764 million kilowatt-hours (kWh).



**1,764 mil** units of town gas was sold in 2018.

Natural gas is used mainly for power generation. In 2018, 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 on Jurong Island currently has a peak throughput capacity of 11 million tonnes per annum.

### Waste Management

Singapore aspires to become a 'Zero Waste Nation' by reducing the consumption of materials, reusing and recycling them to give them a second lease of life.

With limited land resources available for waste disposal, the following strategies are adopted for solid waste management:

- Minimise or prevent waste at source, through reducing waste generation and promoting reuse;
- Segregate recyclables from general waste;
- Dispose of incinerable waste at waste-to-energy plants for volume reduction and energy recovery; and
- Minimise landfill demand.



**4.63 mil** tonnes of waste was recycled in 2018.

Waste disposed of in Singapore is broadly classified into two categories:

- Domestic waste: Collected from residential premises, markets, food retail outlets, schools and trade premises; and
- Non-domestic waste: Collected from commercial and industrial premises.



**3.07 mil** tonnes of waste was disposed in 2018.

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 at waste-to-energy plants, and ferrous and non-ferrous metals are recovered from incineration ash. The remaining ash residues and non-incinerable waste are disposed of at the offshore Semakau Landfill.



## Miscellaneous ■

### 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.



**3,885**  
fire occurrences  
in 2018.

### Definitions

*Residential buildings:* Refer 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:* Refer to all buildings, either permanent or temporary, used for other than residential purposes, such as commercial, industrial, social and communal.

*Non-building structures:* Refer 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 instead of the time the offences were actually committed.



Crime rate was **587**  
per 100,000 population in 2018.

### 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, 2018



**3,097**  
bankruptcy  
applications



**1,656**  
bankruptcy  
orders made



**4,027**  
bankruptcy  
discharges

## 27.1 WATER SALES AND WATER PRICES

|   | Unit                            | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|---|---------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Sales of Potable Water  | Million m <sup>3</sup> per year | 490.9 | 498.6 | 506.3 | 514.7 | 517.0 | 499.4 | 495.5 |
| Domestic  | Million m <sup>3</sup> per year | 284.4 | 286.7 | 291.2 | 297.1 | 301.4 | 294.8 | 294.2 |
| Non-domestic  | Million m <sup>3</sup> per year | 206.5 | 211.9 | 215.1 | 217.6 | 215.6 | 204.5 | 201.3 |
| Sales of NEWater  | Million m <sup>3</sup> per year | 111.4 | 114.1 | 117.1 | 124.8 | 126.9 | 140.2 | 140.5 |
| Sales of Industrial Water   | Million m <sup>3</sup> per year | 25.3  | 27.6  | 27.6  | 25.0  | 21.0  | 19.9  | 20.6  |
| Potable Water Price <sup>1</sup> for Domestic Users, 0-40m <sup>3</sup> | \$ per m <sup>3</sup>           | 2.10  | 2.10  | 2.10  | 2.10  | 2.10  | 2.39  | 2.74  |
| Tariff  | \$ per m <sup>3</sup>           | 1.17  | 1.17  | 1.17  | 1.17  | 1.17  | 1.19  | 1.21  |
| Water Conservation Tax  | \$                              | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.42  | 0.61  |
| Waterborne Fee  | \$                              | 0.28  | 0.28  | 0.28  | 0.28  | 0.28  | 0.78  | 0.92  |
| Sanitary Appliance Fee <sup>2</sup>                                     | \$ per fitting                  | 2.80  | 2.80  | 2.80  | 2.80  | 2.80  | na    | na    |
| Potable Water Price <sup>1</sup> for Domestic Users, > 40m <sup>3</sup> | \$ per m <sup>3</sup>           | 2.61  | 2.61  | 2.61  | 2.61  | 2.61  | 3.21  | 3.69  |
| Tariff  | \$ per m <sup>3</sup>           | 1.40  | 1.40  | 1.40  | 1.40  | 1.40  | 1.46  | 1.52  |
| Water Conservation Tax  | \$                              | 0.63  | 0.63  | 0.63  | 0.63  | 0.63  | 0.73  | 0.99  |
| Waterborne Fee <sup>3</sup>   | \$                              | 0.28  | 0.28  | 0.28  | 0.28  | 0.28  | 1.02  | 1.18  |
| Sanitary Appliance Fee <sup>2</sup>                                     | \$ per fitting                  | 2.80  | 2.80  | 2.80  | 2.80  | 2.80  | na    | na    |
| Potable Water Price <sup>1</sup> for Non-domestic Users                 | \$ per m <sup>3</sup>           | 2.15  | 2.15  | 2.15  | 2.15  | 2.15  | 2.39  | 2.74  |
| Tariff  | \$ per m <sup>3</sup>           | 1.17  | 1.17  | 1.17  | 1.17  | 1.17  | 1.19  | 1.21  |
| Water Conservation Tax  | \$                              | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.42  | 0.61  |
| Waterborne Fee <sup>3</sup>   | \$                              | 0.56  | 0.56  | 0.56  | 0.56  | 0.56  | 0.78  | 0.92  |
| Sanitary Appliance Fee <sup>2</sup>                                     | \$ per fitting                  | 2.80  | 2.80  | 2.80  | 2.80  | 2.80  | na    | na    |
| Potable Water Price <sup>1</sup> for Shipping Customers                 | \$ per m <sup>3</sup>           | 3.06  | 3.06  | 3.06  | 3.06  | 3.06  | 3.37  | 3.80  |
| Tariff  | \$ per m <sup>3</sup>           | 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  | 0.67  | 0.96  |
| Waterborne Fee  | \$                              | 0.56  | 0.56  | 0.56  | 0.56  | 0.56  | 0.78  | 0.92  |
| NEWater Price <sup>1</sup>  | \$ per m <sup>3</sup>           | 1.78  | 1.78  | 1.78  | 1.78  | 1.78  | 2.19  | 2.33  |
| Tariff  | \$ per m <sup>3</sup>           | 1.22  | 1.22  | 1.22  | 1.22  | 1.22  | 1.28  | 1.28  |
| Water Conservation Tax <sup>4</sup>                                     | \$                              | na    | na    | na    | na    | na    | 0.13  | 0.13  |
| Waterborne Fee  | \$                              | 0.56  | 0.56  | 0.56  | 0.56  | 0.56  | 0.78  | 0.92  |
| Industrial Water Price <sup>1</sup>                                     | \$ per m <sup>3</sup>           | 0.58  | 1.21  | 1.21  | 1.21  | 1.21  | 1.44  | 1.58  |
| Tariff  | \$ per m <sup>3</sup>           | 0.58  | 0.65  | 0.65  | 0.65  | 0.65  | 0.66  | 0.66  |
| Waterborne Fee  | \$                              | na    | 0.56  | 0.56  | 0.56  | 0.56  | 0.78  | 0.92  |

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.

- 1 Water is charged by cubic metre (m<sup>3</sup>), 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.
- 3 From 1 July 2017, the Sanitary Appliance Fee has been combined with the Waterborne Fee into a single, volume-based fee.
- 4 From 1 July 2017, there is a 10% Water Conservation Tax imposed on NEWater.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14576](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14576)  
[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14539](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14539)

## 27.2 ELECTRICITY GENERATION, CONSUMPTION AND TARIFFS

|  | Unit | 2012     | 2013     | 2014     | 2015     | 2016     | 2017     | 2018     |
|--|------|----------|----------|----------|----------|----------|----------|----------|
| Electricity Generation <sup>1</sup>  | GWh  | 46,936.2 | 47,963.5 | 49,309.7 | 50,271.6 | 51,586.6 | 52,225.8 | 52,904.8 |
| Electricity Consumption <sup>2</sup>   | GWh  | 44,200.7 | 44,948.8 | 46,403.0 | 47,513.9 | 48,626.6 | 49,643.7 | 50,448.9 |
| Industrial-related   | GWh  | 18,572.5 | 18,842.8 | 19,753.2 | 20,088.0 | 20,418.4 | 21,516.3 | 21,450.7 |
| Manufacturing  | GWh  | 17,112.4 | 17,237.4 | 17,989.0 | 18,277.6 | 18,370.9 | 19,581.7 | 19,451.5 |
| Construction   | GWh  | 443.7    | 490.5    | 527.1    | 531.0    | 551.6    | 484.3    | 432.3    |
| Utilities  | GWh  | 978.9    | 1,074.8  | 1,198.0  | 1,237.2  | 1,450.1  | 1,402.6  | 1,518.6  |
| Other Industrial-related   | GWh  | 37.5     | 40.1     | 39.2     | 42.2     | 45.8     | 47.7     | 48.3     |
| Commerce and Service-related   | GWh  | 16,366.1 | 16,718.6 | 17,046.6 | 17,481.0 | 17,699.3 | 17,804.3 | 18,562.4 |
| Wholesale and Retail Trade   | GWh  | 1,909.4  | 1,967.1  | 2,020.5  | 2,107.4  | 2,073.4  | 1,994.5  | 2,292.9  |
| Accommodation and Food Services  | GWh  | 1,275.1  | 1,326.6  | 1,332.3  | 1,350.2  | 1,453.2  | 1,444.9  | 1,464.0  |
| Information and Communications   | GWh  | 1,084.4  | 1,149.1  | 1,294.5  | 1,426.7  | 1,848.0  | 1,873.5  | 2,230.5  |
| Financial and Insurance Activities   | GWh  | 2,204.2  | 2,257.9  | 2,574.1  | 2,718.1  | 2,361.7  | 2,342.8  | 2,358.9  |
| Real Estate Activities   | GWh  | 4,522.6  | 4,532.4  | 4,485.7  | 4,454.6  | 4,497.0  | 4,700.9  | 4,636.2  |
| Professional, Scientific & Technical,<br>Administration & Support Activities | GWh  | 930.8    | 932.7    | 681.0    | 713.7    | 683.4    | 703.8    | 719.9    |
| Other Commerce and Service-related   | GWh  | 4,439.6  | 4,552.8  | 4,658.5  | 4,710.3  | 4,782.6  | 4,743.9  | 4,860.1  |
| Transport-related  | GWh  | 2,328.6  | 2,369.1  | 2,441.0  | 2,444.8  | 2,639.4  | 2,750.8  | 2,943.6  |
| Households   | GWh  | 6,629.5  | 6,754.9  | 6,924.4  | 7,220.9  | 7,589.4  | 7,295.8  | 7,221.4  |
| Others   | GWh  | 304.0    | 263.4    | 237.7    | 279.1    | 280.1    | 276.5    | 270.7    |

(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 January 2016, data include output from solar generation.
- 2 Refers to the total electricity consumption by end users, including (embedded) consumption by autoproducers.  
From January 2016, data include consumption of output from solar generation.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14602](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14602)

## 27.2 ELECTRICITY GENERATION, CONSUMPTION AND TARIFFS (continued)

|                                       | Unit                           | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|---------------------------------------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Electricity Tariff <sup>3</sup>       |                                |       |       |       |       |       |       |       |
| Low Tension Supplies                  |                                |       |       |       |       |       |       |       |
| Domestic                              | ¢ per kWh                      | 27.93 | 26.25 | 25.59 | 21.73 | 18.90 | 20.65 | 22.87 |
| Non-Domestic                          | ¢ per kWh                      | 27.93 | 26.25 | 25.59 | 21.73 | 18.90 | 20.65 | 22.87 |
| High Tension Small Supplies           |                                |       |       |       |       |       |       |       |
| Contracted Capacity Charge            | \$ per kW per month            | 6.96  | 7.36  | 7.49  | 7.99  | 8.31  | 8.36  | 8.53  |
| Uncontracted Capacity Charge          | \$ per chargeable kW per month | 10.44 | 11.04 | 11.24 | 11.98 | 12.46 | 12.54 | 12.79 |
| Peak period (7.00 am to 11.00 pm)     | ¢ per kWh                      | 26.54 | 24.39 | 23.58 | 19.09 | 15.85 | 17.84 | 20.36 |
| Off-peak period (11.00 pm to 7.00 am) | ¢ per kWh                      | 16.25 | 14.96 | 14.35 | 11.69 | 9.66  | 10.80 | 12.27 |
| Reactive Power Charge                 | ¢ per chargeable kVARh         | 0.59  | 0.59  | 0.59  | 0.59  | 0.59  | 0.59  | 0.59  |
| High Tension Large Supplies           |                                |       |       |       |       |       |       |       |
| Contracted Capacity Charge            | \$ per kW per month            | 6.96  | 7.36  | 7.49  | 7.99  | 8.31  | 8.36  | 8.53  |
| Uncontracted Capacity Charge          | \$ per chargeable kW per month | 10.44 | 11.04 | 11.24 | 11.98 | 12.46 | 12.54 | 12.79 |
| Peak period (7.00 am to 11.00 pm)     | ¢ per kWh                      | 26.32 | 24.17 | 23.36 | 18.87 | 15.63 | 17.62 | 20.14 |
| Off-peak period (11.00 pm to 7.00 am) | ¢ per kWh                      | 16.24 | 14.95 | 14.34 | 11.68 | 9.65  | 10.79 | 12.26 |
| Reactive Power Charge                 | ¢ per chargeable kVARh         | 0.59  | 0.59  | 0.59  | 0.59  | 0.59  | 0.59  | 0.59  |
| Extra High Tension Supplies           |                                |       |       |       |       |       |       |       |
| Contracted Capacity Charge            | \$ per kW per month            | 6.52  | 6.81  | 6.90  | 7.26  | 7.50  | 7.54  | 7.65  |
| Uncontracted Capacity Charge          | \$ per chargeable kW per month | 9.78  | 10.21 | 10.35 | 10.89 | 11.25 | 11.31 | 11.47 |
| Peak period (7.00 am to 11.00 pm)     | ¢ per kWh                      | 25.36 | 23.22 | 22.41 | 17.99 | 14.79 | 16.74 | 19.23 |
| Off-peak period (11.00 pm to 7.00 am) | ¢ per kWh                      | 16.14 | 14.84 | 14.23 | 11.59 | 9.56  | 10.70 | 12.15 |
| Reactive Power Charge                 | ¢ per chargeable kVARh         | 0.48  | 0.48  | 0.48  | 0.48  | 0.48  | 0.48  | 0.48  |

Source : SP Group

<sup>3</sup> Excludes Goods and Services Tax.

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## 27.3 TOTAL FINAL ENERGY CONSUMPTION BY ENERGY TYPE AND SECTOR

|                               | Kilotonne Of Oil Equivalent |          |          |          |          |          |          |
|-------------------------------|-----------------------------|----------|----------|----------|----------|----------|----------|
|                               | 2011                        | 2012     | 2013     | 2014     | 2015     | 2016     | 2017     |
| Total                         | 12,501.6                    | 12,896.5 | 13,780.5 | 14,477.5 | 15,312.1 | 14,801.7 | 14,726.4 |
| Industry-related              | 7,733.2                     | 8,148.0  | 9,120.4  | 9,721.0  | 10,318.3 | 9,670.3  | 9,855.6  |
| Commerce and Services-related | 1,516.4                     | 1,558.0  | 1,614.2  | 1,629.8  | 1,671.3  | 1,691.3  | 1,694.6  |
| Transport-related             | 2,584.1                     | 2,512.9  | 2,355.1  | 2,427.1  | 2,589.1  | 2,674.3  | 2,435.4  |
| Households                    | 637.4                       | 650.7    | 667.5    | 678.4    | 707.5    | 739.2    | 714.6    |
| Others                        | 30.6                        | 26.9     | 23.4     | 21.3     | 26.0     | 26.7     | 26.2     |
| Coal and Peat                 | 5.7                         | 23.0     | 129.0    | 162.2    | 163.3    | 166.8    | 179.8    |
| Industry-related              | 5.7                         | 23.0     | 129.0    | 162.2    | 163.3    | 166.8    | 179.8    |
| Commerce and Services-related | -                           | -        | -        | -        | -        | -        | -        |
| Transport-related             | -                           | -        | -        | -        | -        | -        | -        |
| Households                    | -                           | -        | -        | -        | -        | -        | -        |
| Others                        | -                           | -        | -        | -        | -        | -        | -        |
| Crude Oil                     | -                           | -        | -        | -        | -        | -        | -        |
| Industry-related              | -                           | -        | -        | -        | -        | -        | -        |
| Commerce and Services-related | -                           | -        | -        | -        | -        | -        | -        |
| Transport-related             | -                           | -        | -        | -        | -        | -        | -        |
| Households                    | -                           | -        | -        | -        | -        | -        | -        |
| Others                        | -                           | -        | -        | -        | -        | -        | -        |
| Petroleum Products            | 7,614.0                     | 7,946.8  | 8,475.0  | 8,968.3  | 9,722.9  | 9,093.6  | 8,839.5  |
| Industry-related              | 5,153.4                     | 5,562.0  | 6,225.3  | 6,665.5  | 7,251.6  | 6,554.3  | 6,547.3  |
| Commerce and Services-related | 68.9                        | 68.3     | 87.3     | 78.9     | 80.0     | 77.3     | 75.2     |
| Transport-related             | 2,366.9                     | 2,292.7  | 2,133.3  | 2,199.8  | 2,364.5  | 2,436.1  | 2,192.0  |
| Households                    | 24.8                        | 23.7     | 29.1     | 24.1     | 26.7     | 25.8     | 25.1     |
| Others                        | -                           | -        | -        | -        | -        | -        | -        |
| Natural Gas                   | 1,183.9                     | 1,126.2  | 1,311.7  | 1,355.1  | 1,340.4  | 1,360.2  | 1,438.5  |
| Industry-related              | 1,019.7                     | 966.0    | 1,145.9  | 1,192.7  | 1,176.1  | 1,193.5  | 1,278.4  |
| Commerce and Services-related | 82.4                        | 82.5     | 89.3     | 85.3     | 88.2     | 92.1     | 88.5     |
| Transport-related             | 25.9                        | 20.0     | 18.1     | 17.4     | 14.3     | 11.2     | 6.9      |
| Households                    | 55.2                        | 56.9     | 57.5     | 58.9     | 59.9     | 60.9     | 62.2     |
| Others                        | 0.8                         | 0.8      | 0.8      | 0.8      | 2.0      | 2.6      | 2.4      |
| Electricity                   | 3,697.9                     | 3,800.6  | 3,864.9  | 3,989.9  | 4,085.5  | 4,181.1  | 4,268.6  |
| Industry-related              | 1,554.4                     | 1,597.0  | 1,620.2  | 1,698.5  | 1,727.3  | 1,755.7  | 1,850.1  |
| Commerce and Services-related | 1,365.1                     | 1,407.2  | 1,437.5  | 1,465.7  | 1,503.1  | 1,521.9  | 1,530.9  |
| Transport-related             | 191.2                       | 200.2    | 203.7    | 209.9    | 210.2    | 226.9    | 236.5    |
| Households                    | 557.4                       | 570.0    | 580.8    | 595.4    | 620.9    | 652.6    | 627.3    |
| Others                        | 29.8                        | 26.1     | 22.6     | 20.4     | 24.0     | 24.1     | 23.8     |
| Others                        | -                           | -        | -        | -        | -        | -        | -        |
| Industry-related              | -                           | -        | -        | -        | -        | -        | -        |
| Commerce and Services-related | -                           | -        | -        | -        | -        | -        | -        |
| Transport-related             | -                           | -        | -        | -        | -        | -        | -        |
| Households                    | -                           | -        | -        | -        | -        | -        | -        |
| Others                        | -                           | -        | -        | -        | -        | -        | -        |

Sources : Singapore Department of Statistics, Energy Market Authority, Enterprise Singapore and National Environment Agency.

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## 27.4 GAS SALES AND TARIFFS

|   | Unit          | 2012      | 2013      | 2014     | 2015     | 2016     | 2017     | 2018     |
|---|---------------|-----------|-----------|----------|----------|----------|----------|----------|
| Piped Gas Sales (Town Gas)                | Million Units | 1,641.3   | 1,662.7   | 1,666.2  | 1,695.4  | 1,740.6  | 1,756.0  | 1,764.3  |
| Domestic                                  | Million Units | 663.6     | 671.2     | 687.9    | 711.7    | 730.3    | 745.3    | 761.5    |
| Non-Domestic                              | Million Units | 977.7     | 991.6     | 978.4    | 983.9    | 1,010.3  | 1,010.7  | 1,003.0  |
| Liquefied Petroleum Gas Sales             | Net Tonnes    | 103,610.5 | 105,601.5 | 95,396.9 | 96,820.2 | 93,551.2 | 90,923.7 | 90,026.1 |
| Piped Gas Tariffs <sup>1</sup> (Town Gas) |               |           |           |          |          |          |          |          |
| General Tariff                            | ¢ per kWh     | 21.61     | 21.11     | 21.02    | 18.37    | 16.62    | 17.68    | 18.80    |
| Bulk Tariff A <sup>2</sup>                | ¢ per kWh     | 20.61     | 20.11     | 20.02    | 17.36    | 15.61    | 16.66    | 17.77    |
| Bulk Tariff B <sup>3</sup>                | ¢ per kWh     | 20.12     | 19.61     | 19.52    | 16.86    | 15.10    | 16.15    | 17.25    |

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 Excludes Goods and Services Tax.

Historical town gas tariffs are available from CityGas's Website (<https://www.citygas.com.sg/useful-info/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.

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[www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14833](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14833)

## 27.5 WASTE DISPOSED OF AND RECYCLED

|                                | Million Tonnes |      |      |      |      |      |      |
|--------------------------------|----------------|------|------|------|------|------|------|
|                                | 2012           | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Waste Disposed of <sup>1</sup> | 2.93           | 3.02 | 3.04 | 3.02 | 3.05 | 2.98 | 3.07 |
| Domestic                       | 1.65           | 1.64 | 1.65 | 1.65 | 1.66 | 1.61 | 1.56 |
| Non-domestic                   | 1.28           | 1.39 | 1.39 | 1.37 | 1.39 | 1.37 | 1.50 |
| Waste Recycled                 | 4.34           | 4.83 | 4.47 | 4.65 | 4.77 | 4.72 | 4.63 |

Sources : Ministry of the Environment and Water Resources  
National Environment Agency

1 Data from 2013 are revised due to a waste vehicle reclassification exercise.

Data from 2015 exclude metals recovered from incineration bottom ash in a metal recovery facility that is commissioned in 2015.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14551](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=14551)

## 27.6 FIRE OCCURRENCES

| Type of Property        | Number |       |       |       |       |       |       |
|-------------------------|--------|-------|-------|-------|-------|-------|-------|
|                         | 2012   | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
| Total                   | 4,485  | 4,136 | 4,724 | 4,604 | 4,114 | 3,871 | 3,885 |
| Building                | 3,766  | 3,485 | 3,453 | 3,403 | 3,324 | 3,124 | 2,926 |
| Residential             | 3,184  | 2,952 | 2,888 | 2,898 | 2,818 | 2,657 | 2,411 |
| Non-residential         | 582    | 533   | 565   | 505   | 506   | 467   | 515   |
| Non-Building Structures | 719    | 651   | 1,271 | 1,201 | 790   | 747   | 959   |

Source : Singapore Civil Defence Force

Notes : Data include minor fires, i.e., fires involving rubbish bins and rubbish chutes.

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## 27.7 CRIME CASES RECORDED

| Type of Offence                                | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
|--|--------|--------|--------|--------|--------|--------|--------|
| Number of Cases Recorded                       |        |        |        |        |        |        |        |
| Overall Crime                                  | 31,015 | 29,984 | 32,315 | 33,839 | 33,099 | 32,668 | 33,126 |
| Crimes Against Persons                         | 3,824  | 3,822  | 4,269  | 4,139  | 4,354  | 4,495  | 5,031  |
| Violent / Serious Property Crimes <sup>1</sup> | 389    | 418    | 535    | 299    | 249    | 216    | 210    |
| Housebreaking and Related Crimes               | 598    | 543    | 360    | 340    | 300    | 332    | 328    |
| Theft and Related Crimes                       | 18,476 | 17,075 | 16,722 | 15,615 | 14,122 | 13,431 | 12,196 |
| Commercial Crimes                              | 3,507  | 3,947  | 5,687  | 8,426  | 8,411  | 8,528  | 9,416  |
| Miscellaneous Crimes                           | 4,221  | 4,179  | 4,742  | 5,020  | 5,663  | 5,666  | 5,945  |
| Per 100,000 population                         |        |        |        |        |        |        |        |
| Overall Crime Rate                             | 584    | 555    | 591    | 611    | 590    | 582    | 587    |
| Crimes Against Persons                         | 72     | 71     | 78     | 75     | 78     | 80     | 89     |
| Violent / Serious Property Crimes <sup>1</sup> | 7      | 8      | 10     | 5      | 4      | 4      | 4      |
| Housebreaking and Related Crimes               | 11     | 10     | 7      | 6      | 5      | 6      | 6      |
| Theft and Related Crimes                       | 348    | 316    | 306    | 282    | 252    | 239    | 216    |
| Commercial Crimes                              | 66     | 73     | 104    | 152    | 150    | 152    | 167    |
| Miscellaneous Crimes                           | 79     | 77     | 87     | 91     | 101    | 101    | 105    |

Source : Singapore Police Force

- <sup>1</sup> 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.

Download time series at [www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15649](http://www.tablebuilder.singstat.gov.sg/publicfacing/createDataTable.action?refId=15649)

## 27.8 NUMBER OF BANKRUPTCY APPLICATIONS, ORDERS MADE AND DISCHARGES

|                             | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|
| Applications For Bankruptcy | 3,019 | 2,824 | 2,587 | 2,612 | 2,704 | 2,932 | 3,097 |
| Bankruptcy Orders Made      | 1,748 | 1,992 | 1,758 | 1,776 | 1,797 | 1,638 | 1,656 |
| Bankruptcy Discharges       | 1,881 | 2,584 | 3,546 | 3,499 | 4,359 | 2,030 | 4,027 |

Source : Insolvency Office

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