

information paper

on

economic statistics

SINGAPORE INPUT-OUTPUT TABLES 2007

Singapore Department of Statistics

March 2012

Papers in this Information Paper Series are intended to inform and clarify conceptual and methodological changes and improvements in official statistics. The views expressed are based on the latest methodological developments in the international statistical community. Statistical estimates presented in the papers are based on new or revised official statistics compiled from the best available data. Comments and suggestions are welcome.

© Singapore Department of Statistics. All rights reserved.

Please direct enquiries on this information paper to:

Input Output Tables Division
Singapore Department of Statistics
Tel : 6332 7584, 6332 3472
Email : info@singstat.gov.sg

Application for the copyright owner's written permission to reproduce any part of this publication should be addressed to the Chief Statistician and emailed to the above address.

SINGAPORE INPUT-OUTPUT TABLES 2007

Introduction

Input-Output (I-O) tables provide systematic and detailed information on production activities of an economy by recording transactions between producers and consumers in an economic system. They are primarily related to the production account in the System of National Accounts (SNA) and are made up of three basic tables and a set of symmetric tables.

To date, the Singapore Department of Statistics (DOS) has published eight sets of benchmark I-O tables for the reference years 1973, 1978, 1983, 1988, 1990, 1995, 2000 and 2005. The 2007 I-O tables are an intermediate set of tables as DOS works towards compiling more frequent I-O tables to provide more timely statistical information for analysis and policy formulation. The 2007 I-O tables are an update of the 2005 benchmark tables based on 2007 data while the methodologies and framework used to compile these tables are similar to those of the 2005 tables¹.

Sources and Methodology

Sources of Data

The data used for compiling 2007 I-O tables are obtained primarily from surveys and censuses conducted by DOS and other government agencies. This is supplemented by administrative data collected by various government bodies in the course of their operations, for example, government revenue and expenditure data (Table 1).

TABLE 1 MAIN DATA SOURCES

SURVEYS & CENSUSES	OTHERS
Census of Manufacturing Activities	Merchandise Trade Statistics
Survey of Utilities, Sewerage & Waste Management	Government Revenue & Expenditure Data
Annual Survey of Services	Audited Company Reports
Survey of Services on Financial Institutions/ Insurance Companies	
International Trade in Services	
Census of Population, General Household Survey & Household Expenditure Survey	

¹ A detailed discussion of the methodology, structure and applications of I-O tables can be found in [Singapore Input-Output Tables 2005](#).

Methodology

The Singapore I-O tables follow closely the concepts and principles recommended in the SNA. Some of these concepts are elaborated here.

i) Statistical Unit

For the compilation of the Singapore I-O tables, the establishment is chosen as the statistical unit for input data and the commodity as the unit of output data. The establishment, as defined by the SNA, *“is an enterprise, or part of an enterprise, that is situated in a single location and in which only a single productive activity is carried out or in which the principal productive activity accounts for most of the value-added.”* When establishments engaging in the same or similar kinds of activity are grouped together, an industry is formed. Commodities are goods and services that result from production of goods or provision of services.

ii) Valuation

In the Singapore I-O tables, the valuation of all inputs and output is at basic price which is defined as the amount receivable by the producer from the purchaser for a unit of good or service minus any tax payable and plus any subsidy receivable on the product.

This valuation is adopted for the compilation of the Singapore I-O tables as it is the most consistent valuation basis for all transactions. Trade and transport margins deducted are allocated to their own industry/commodity groups, and taxes on products are shown separately.

iii) Treatment of Imports and Exports

Goods that are imported and then subsequently re-exported without being processed are omitted in the compilation of the Singapore I-O tables. Transshipment of goods are also excluded. Exports of goods are valued free on board (f.o.b.) i.e. at the prices at the domestic customs frontier before being shipped out. For imports which are valued at cost, insurance, freight (c.i.f.) at the domestic customs frontier, the basic value of the goods is shown separately from the associated freight and insurance payments in the import matrix.

Reconciliation

The process of compiling I-O tables mainly involves reconciling the voluminous data from various sources, and fitting them together to form a complete picture of the economy.

Discrepancies in data from different sources may arise due to a variety of reasons, for example, differences in definitions, classifications, valuation, estimation methods as well as sampling errors. These are addressed by a reconciliation process involving detailed examination of the myriad data.

Basic Structure of Input-Output Tables

The Singapore I-O tables comprise three basic matrices, namely the make matrix, absorption matrix and import matrix. These three tables bring together the production, expenditure and income measures of GDP and form the basis from which the symmetric tables and all other applications of I-O tables are derived.

The 2007 I-O tables are compiled based on the same 136 industries and 136 commodities as that of the 2005 benchmark I-O tables. The classification of industries in the 2007 I-O tables follows that of the 2005 I-O tables and is based on the 2005 Singapore Standard Industrial Classification (SSIC 2005).

However, the classification of commodities has been updated and is based on the Standard International Trade Classification, Rev. 4 (SITC Rev.4) and the Harmonised Commodity Description and Coding System Nomenclature 2007 (HS 2007), as compared to the earlier versions of the SITC Rev.3 and HS 2002 used in the 2005 I-O tables. The commodity codes in the new classification are mapped to the same 136 commodity codes used in the 2005 tables².

For the purpose of this article, the I-O tables are presented using 12 industries and commodities³.

Make Matrix

The make matrix records all domestic production, broken down by industries and commodities. Each cell shows the output of the commodity along the column produced by the industry along the row. The sum of each row gives the total output of an industry which can be broken down into its primary and secondary production. The sum of each column shows the total output of a particular commodity by both its primary and secondary producers. In 2007, the Singapore economy produced \$694.6 billion worth of goods and services, shown in the lower-right corner of Table 2.

It can be observed that the entries on the diagonals of the make matrix are always larger than the off-diagonals. These are the primary commodities of the respective industries as the primary commodity output of a producing unit is related to its primary production activity which in turn determines its industry classification. For example, the non-oil manufacturing industry is the primary producer of the non-oil manufacturing commodity, producing \$202.0 billion worth of non-oil manufacturing goods. It is also the secondary producer of other commodities such as utilities, construction and business services.

An industry's share of the production of a commodity can also be determined from the make matrix by taking its output value in the column as a percentage of the column total. For example, the production of the business services commodity was \$73.5 billion, of which the business services industry produced \$62.5 billion or about 85 per cent of the total commodity output.

² The correspondence between the I-O industry/commodity codes, SSIC and SITC is given in Appendix 1.

³ The correspondence between the 12 industries and commodities, and the detailed 136 I-O industries and commodities is given in Appendix 2.

TABLE 2 MAKE MATRIX (\$ MILLION)

Sales by Industry	Sales by Commodity													Total industry output
	Agriculture	Manufacturing			Utilities	Construction	Wholesale & Retail Trade	Hotels & Restaurants	Transport & Storage	Information & Communications	Financial Services	Business Services	Other Services	
		Total	Non-oil	Oil										
Agriculture	247.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.2	0.0	0.0	3.6	0.0	252.4
Manufacturing	0.0	251,272.6	202,037.6	49,235.0	256.9	47.8	7,386.6	0.0	9.0	272.3	0.0	1,030.3	136.7	260,412.2
Non-oil	0.0	202,035.7	202,035.7	0.0	256.8	47.8	7,275.4	0.0	9.0	269.6	0.0	1,008.8	136.7	211,039.8
Oil	0.0	49,236.9	1.9	49,235.0	0.0	0.0	111.2	0.0	0.0	2.7	0.0	21.6	0.0	49,372.3
Utilities	0.0	0.0	0.0	0.0	11,505.1	2.1	42.6	0.0	5.4	0.0	0.0	103.2	0.0	11,658.4
Construction	0.0	0.0	0.0	0.0	0.0	37,453.6	58.6	0.0	23.5	10.9	0.0	268.8	0.0	37,815.5
Wholesale & Retail Trade	0.0	424.6	424.6	0.0	0.0	0.0	83,916.1	0.0	1,644.3	445.6	0.0	5,248.1	552.2	92,231.0
Hotels & Restaurants	0.0	0.0	0.0	0.0	0.0	0.0	20.4	10,662.7	4.8	49.1	0.0	365.6	42.8	11,145.5
Transport & Storage	0.0	68.7	68.7	0.0	0.0	0.0	213.9	0.9	72,230.9	83.0	0.0	1,399.6	55.5	74,052.4
Information & Communications	0.0	0.0	0.0	0.0	0.0	0.0	1,324.7	26.2	7.6	25,294.7	0.3	1,723.6	11.6	28,388.7
Financial Services	0.0	0.0	0.0	0.0	14.2	0.0	5.1	0.0	69.5	307.0	54,204.5	468.5	135.9	55,204.6
Business Services	0.0	0.0	0.0	0.0	242.3	11.1	232.4	154.5	87.5	252.8	1.8	62,484.3	75.4	63,542.0
Other Services	0.0	0.0	0.0	0.0	0.1	0.0	141.6	106.1	6.8	46.5	0.0	404.2	59,184.4	59,889.7
Total commodity output	247.4	251,765.9	202,530.9	49,235.0	12,018.6	37,514.7	93,342.1	10,950.4	74,090.5	26,761.8	54,206.5	73,499.7	60,194.5	694,592.3

Note: Figures may not add up due to rounding

Absorption Matrix

The second basic table, which is referred to as the absorption matrix, records the commodities purchased or used by industries as intermediate inputs to current production. A convention in I-O tables is to present other relevant information together with the absorption matrix. Table 3 shows a schematic form of the absorption matrix and the related matrices, broken down into its four constituent quadrants.

Quadrant 1 shows commodities purchased domestically by industries as intermediate inputs to current production while Quadrant 2 records the commodities consumed by final demand. Final demand consists of private consumption expenditure (PCE), government consumption expenditure (GCE), gross fixed capital formation (GFCF), changes in inventories, and exports of goods and services. Quadrant 3 shows the rest of the inputs required by industries, namely imports, taxes on products and value-added while Quadrant 4 shows imports and taxes on products which flow directly to final demand. Collectively, Quadrants 1 and 2 show the total usage of each commodity while Quadrants 1 and 3 show the inputs used to produce the total output of each industry.

The four quadrants presented together allows for the computation of GDP by each of the three approaches, namely the production approach, expenditure approach and income approach, using the equations shown in Table 4.

TABLE 4 DERIVATION OF GDP AT CURRENT MARKET PRICES

Production Approach	
GDP =	Output – Intermediate inputs + Taxes on products by final demand
Expenditure Approach	
GDP =	Total final demand – Total imports
Income Approach	
GDP =	Sum of factor income + Total taxes on products

Table 5 shows the absorption matrix for the Singapore economy in 2007. The total intermediate output used by domestic industries amounted to \$220.6 billion while total purchases by final consumers were \$474.0 billion.

The usage of commodities by industries and final consumers can be seen from the table. For example, total non-oil manufacturing commodity output was \$202.5 billion, of which \$45.7 billion worth of intermediate output was distributed to industries and \$156.8 billion was purchased by consumers as final demand. The bulk of the intermediate output was supplied to the non-oil manufacturing industry which amounted to \$35.7 billion, and the remaining was provided to other industries such as construction and business services. The final demand of non-oil manufacturing commodity was mainly for exports worth \$152.0 billion, which is a reflection of Singapore's export-oriented economy.

TABLE 3 SCHEMATIC REPRESENTATION OF ABSORPTION AND RELATED MATRICES

Sales by Commodity	Purchases by Industry						Total intermediate output	Final Demand						Total output
	Industry 1	Industry 2	....	....	....	Industry n		Private consumption expenditure	Government consumption expenditure	Gross fixed capital formation	Changes in inventories	Exports of goods & services	Total final demand	
Commodity 1 Commodity 2 Commodity n	Quadrant 1 Intermediate Usage							Quadrant 2 Final Demand						
Total intermediate inputs														
Imports of goods and services Taxes on products Value-added at basic prices Other taxes on production Compensation of employees Gross operating surplus	Quadrant 3 Imports of goods & services, taxes on products and primary inputs to production							Quadrant 4 Imports of goods & services and taxes on products to final demand						
Total inputs														

- Corresponds to aggregates shown as components of gross domestic product, production approach
- Corresponds to aggregates shown as components of gross domestic product, expenditure approach
- Corresponds to aggregates shown as components of gross domestic product, income approach

The use of intermediate inputs and value-added inputs by industries to produce their output can also be observed from Table 5. For example, the non-oil manufacturing industry required \$62.3 billion of domestic inputs and \$90.3 billion of imported inputs. It also required \$58.4 billion of value-added inputs, of which \$0.6 billion was other taxes on production, \$18.1 billion was compensation of employees and the remaining \$39.7 billion was gross operating surplus.

Import Matrix

Similar to the absorption matrix, an import matrix records the imports of goods and services by commodity entering industries as intermediate inputs, and final demand as consumption or capital formation. It is an expansion of the row vector of imports of goods and services in Table 5 to show the commodities making up the imports.

Total imports of goods and services in 2007 were \$267.1 billion, of which \$221.3 billion was purchased by industrial sectors as inputs for their production, with only \$45.8 billion used for final demand (Table 6). The bulk of the imports were manufacturing commodities which made up 68 per cent of total imports.

Use of Input-Output Tables

Besides providing detailed economic statistics on inter-industry flows, I-O tables can also be used for analysis and policy formulation.

In order to use these tables for analytical purposes, the absorption matrix (Table 5) has to be expressed in a symmetrical form, showing either the purchases of industrial output by industries and final demand, or the purchases of commodities by commodity production process. These symmetric tables are known as *industry-by-industry* tables or *commodity-by-commodity* tables.

Multipliers, an important tool for economic analysis, can be computed from the I-O tables. They measure the impact on the total economy as a result of an initial exogenous change in final demand. Different multipliers can be generated depending on the purpose of analysis. Some of the more commonly used multipliers are output, value-added and import multipliers.

While multiplier analysis is useful for measuring the impact on the entire economy, researchers may sometimes want to assess the impact of an exogenous change on specific sectors. Dependency analysis, another application of I-O tables, can be used to show how the multiplier effect is distributed across different sectors of the economy.

TABLE 5 ABSORPTION MATRIX AND RELATED MATRICES (\$ MILLION)

Sales by commodity	Purchases by Industry													Total intermediate output
	Agriculture	Manufacturing			Utilities	Construction	Wholesale & Retail Trade	Hotels & Restaurants	Transport & Storage	Information & Communications	Financial Services	Business Services	Other Services	
		Total	Non-oil	Oil										
Agriculture	6.4	35.0	35.0	0.0	0.0	0.0	0.1	22.5	1.3	0.2	0.6	1.1	4.6	71.7
Manufacturing	9.1	40,042.7	39,407.2	635.4	439.7	2,599.5	716.7	468.6	3,227.7	403.8	198.0	2,640.3	1,631.5	52,377.5
Non-oil	8.5	35,905.6	35,673.4	232.2	160.6	2,589.7	663.6	468.2	1,293.1	396.1	173.6	2,559.2	1,469.8	45,687.9
Oil	0.6	4,137.1	3,733.8	403.3	279.1	9.7	53.1	0.4	1,934.6	7.7	24.4	81.1	161.7	6,689.6
Utilities	7.0	3,276.8	2,894.7	382.0	2,552.5	74.6	459.8	420.1	282.2	154.3	117.7	719.4	648.4	8,712.8
Construction	1.2	356.3	259.1	97.2	19.5	15,731.4	20.5	10.5	31.2	19.0	24.9	635.2	1,865.3	18,715.2
Wholesale & Retail Trade	14.9	11,557.9	6,186.9	5,371.1	148.5	1,024.7	1,047.2	591.7	1,189.8	259.3	30.5	266.1	535.3	16,666.0
Hotels & Restaurants	1.9	269.5	257.3	12.2	9.4	56.0	485.4	56.4	983.2	108.4	198.4	202.7	197.0	2,568.3
Transport & storage	10.9	1,962.0	1,844.1	117.8	82.0	713.9	8,646.6	64.4	9,977.5	319.2	519.7	1,047.9	904.6	24,248.6
Information & communications	2.3	2,304.5	2,192.5	112.0	66.5	167.8	2,946.7	141.6	988.0	2,647.5	2,673.4	2,969.8	1,567.3	16,475.3
Financial services	7.6	1,749.2	1,532.6	216.6	213.4	460.0	3,135.7	171.4	744.9	131.4	11,645.6	2,309.1	4,590.1	25,158.3
Business Services	8.8	7,364.2	6,574.8	789.3	373.1	1,383.2	7,016.9	1,921.5	2,372.1	2,574.0	2,629.8	12,752.3	6,435.1	44,830.9
Other Services	2.6	1,382.8	1,133.9	248.8	47.6	250.4	1,167.7	404.4	700.7	355.9	220.4	556.8	5,685.2	10,774.4
Total intermediate inputs	72.5	70,300.8	62,318.3	7,982.5	3,952.1	22,461.6	25,643.3	4,273.2	20,498.7	6,973.0	18,259.1	24,100.6	24,064.2	220,599.1
Imports of goods and services	70.1	128,884.0	90,286.2	38,597.7	4,428.0	7,378.1	17,312.0	1,718.2	29,082.5	12,096.5	7,932.6	6,751.5	5,608.7	221,262.1
Taxes on products	1.1	125.3	78.8	46.5	95.5	3.2	35.9	14.7	41.4	10.3	99.7	68.7	160.9	656.8
Value-added at basic prices	108.5	61,102.1	58,356.5	2,745.6	3,182.8	7,972.6	49,239.8	5,139.4	24,429.8	9,308.9	28,913.3	32,621.2	30,055.9	252,074.2
Other taxes on production	4.3	658.0	623.4	34.6	176.2	337.4	346.0	119.2	480.3	165.5	106.7	1,230.8	888.5	4,512.9
Compensation of employees	55.9	18,600.0	18,074.2	525.8	482.7	5,867.9	17,416.0	2,870.9	8,102.4	4,823.1	14,538.8	14,689.7	19,171.2	106,618.5
Gross operating surplus	48.4	41,844.1	39,658.8	2,185.3	2,523.9	1,767.3	31,477.8	2,149.3	15,847.1	4,320.3	14,267.7	16,700.7	9,996.2	140,942.9
Total inputs	252.4	260,412.2	211,039.8	49,372.3	11,658.4	37,815.5	92,231.0	11,145.5	74,052.4	28,388.7	55,204.6	63,542.0	59,889.7	694,592.3

Note: Figures may not add up due to rounding

TABLE 5 ABSORPTION MATRIX AND RELATED MATRICES (\$ MILLION) (cont'd)

Sales by commodity	Final Demand						Total output
	Private consumption expenditure	Government consumption expenditure	Gross fixed capital formation	Changes in inventories	Exports of goods & services	Total final demand	
Agriculture	70.3	0.0	0.0	0.1	105.3	175.7	247.4
Manufacturing	3,859.6	0.0	4,161.5	-1,894.7	193,262.0	199,388.4	251,765.9
Non-oil	2,784.3	0.0	4,161.5	-2,063.3	151,960.5	156,843.0	202,530.9
Oil	1,075.3	0.0	0.0	168.6	41,301.5	42,545.4	49,235.0
Utilities	1,787.8	0.0	0.0	0.2	1,517.8	3,305.8	12,018.6
Construction	0.0	0.0	17,816.7	0.0	982.8	18,799.5	37,514.7
Wholesale & Retail Trade	8,343.5	0.0	2,984.0	0.0	65,348.6	76,676.1	93,342.1
Hotels & Restaurants	8,269.7	0.0	0.0	0.0	112.3	8,382.0	10,950.4
Transport & storage	4,971.5	0.0	0.0	0.0	44,870.4	49,841.9	74,090.5
Information & communications	2,267.9	0.0	1,888.4	0.0	6,130.1	10,286.5	26,761.8
Financial services	8,227.2	0.0	0.0	0.0	20,821.0	29,048.3	54,206.5
Business Services	6,794.6	0.0	6,666.2	0.0	15,208.0	28,668.8	73,499.7
Other Services	21,232.5	25,598.4	1,568.0	0.0	1,021.2	49,420.1	60,194.5
Total intermediate inputs	65,824.8	25,598.4	35,084.8	-1,894.4	349,379.5	473,993.2	694,592.3
Imports of goods and services	23,907.6	0.0	20,921.0	1,015.6	0.0	45,844.2	267,106.4
Taxes on products	9,834.1	0.0	5,029.0	0.0	0.0	14,863.0	15,519.8
Value-added at basic prices	0.0	0.0	0.0	0.0	0.0	0.0	252,074.2
Other taxes on production	0.0	0.0	0.0	0.0	0.0	0.0	4,512.9
Compensation of employees	0.0	0.0	0.0	0.0	0.0	0.0	106,618.5
Gross operating surplus	0.0	0.0	0.0	0.0	0.0	0.0	140,942.9
Total inputs	99,566.4	25,598.4	61,034.8	-878.8	349,379.5	534,700.5	1,229,292.8

Note: Figures may not add up due to rounding

TABLE 6 IMPORT MATRIX (\$ MILLION)

Import by commodity	Purchases by Industry													Total intermediate output
	Agriculture	Manufacturing			Utilities	Construction	Wholesale & Retail Trade	Hotels & Restaurants	Transport & Storage	Information & Communications	Financial Services	Business Services	Other Services	
		Total	Non-oil	Oil										
Agriculture	38.6	544.8	544.8	0.0	0.0	0.0	0.0	507.3	4.9	0.0	0.0	0.3	39.7	1,135.6
Manufacturing	31.6	112,744.4	74,436.2	38,308.2	628.5	7,182.5	1,380.8	1,128.5	7,757.8	3,565.9	111.6	2,830.5	5,094.2	142,456.2
Non-oil	28.5	67,357.4	67,217.3	140.1	121.3	6,299.5	770.8	1,080.5	988.9	3,558.3	101.3	2,775.1	4,908.1	87,989.8
Oil	3.1	45,387.1	7,218.9	38,168.2	507.1	883.0	609.9	48.0	6,768.8	7.5	10.3	55.4	186.1	54,466.4
Utilities	0.0	770.2	744.7	25.6	3,736.6	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.9	4,513.1
Construction	0.0	58.2	58.2	0.0	2.4	14.9	5.0	0.0	0.0	0.0	0.0	56.4	6.5	143.3
Wholesale & Retail Trade	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
Hotels & Restaurants	0.0	340.7	322.7	18.0	6.4	67.3	327.0	19.8	185.7	167.4	295.6	434.3	93.0	1,937.2
Transport & storage	0.0	196.2	193.4	2.8	0.4	4.7	9,143.9	8.3	17,710.8	147.1	107.4	324.6	84.3	27,727.7
Information & communications	0.0	124.9	82.1	42.8	0.6	3.5	293.5	0.9	72.0	5,899.1	199.0	122.6	15.0	6,731.2
Financial services	0.0	179.6	142.7	36.9	8.5	6.3	206.9	5.9	188.8	15.4	4,967.7	65.3	23.5	5,667.9
Business Services	0.0	13,911.4	13,751.5	159.9	41.9	98.3	5,954.3	46.8	3,010.2	2,267.5	2,236.3	2,895.5	177.4	30,639.8
Other Services	0.0	13.5	9.9	3.6	2.7	0.6	0.6	0.7	152.3	34.1	15.0	20.6	69.9	310.0
Imports of goods & services	70.1	128,884.0	90,286.2	38,597.7	4,428.0	7,378.1	17,312.0	1,718.2	29,082.5	12,096.5	7,932.6	6,751.5	5,608.7	221,262.1

Note: Figures may not add up due to rounding

TABLE 6 IMPORT MATRIX (\$ MILLION) (cont'd)

Sales by commodity	Final Demand					Total output
	Private consumption expenditure	Government consumption expenditure	Gross fixed capital formation	Changes in inventories	Total final demand	
Agriculture	1,258.1	0.0	24.7	110.6	1,393.5	2,529.0
Manufacturing	16,606.2	0.0	20,801.7	890.4	38,298.3	180,754.5
Non-oil	16,590.5	0.0	20,801.7	-541.6	36,850.6	124,840.4
Oil	15.6	0.0	0.0	1,432.0	1,447.7	55,914.0
Utilities	0.0	0.0	0.0	14.6	14.6	4,527.8
Construction	0.0	0.0	56.6	0.0	56.6	199.9
Wholesale & Retail Trade	0.0	0.0	0.0	0.0	0.0	0.2
Hotels & Restaurants	0.0	0.0	0.0	0.0	0.0	1,937.2
Transport & storage	1,036.9	0.0	0.0	0.0	1,036.9	28,764.6
Information & communications	0.0	0.0	38.0	0.0	38.0	6,769.2
Financial services	0.0	0.0	0.0	0.0	0.0	5,667.9
Business Services	0.0	0.0	0.0	0.0	0.0	30,639.8
Other Services	5,006.4	0.0	0.0	0.0	5,006.4	5,316.3
Imports of goods & services	23,907.6	0.0	20,921.0	1,015.6	45,844.2	267,106.4

Note: Figures may not add up due to rounding

Conclusion

The 2007 I-O tables seek to provide more timely statistical information for analysis and policy formulation. The complete set of tables at the detailed industry and commodity levels can be downloaded from the DOS website at www.singstat.gov.sg.

SINGAPORE DEPARTMENT OF STATISTICS
28 MARCH 2012

APPENDICES

Classification of Industry/Commodity

Industry/Commodity Classification	Singapore Standard Industrial Classification, 2005 (SSIC 2005)	Standard International Trade Classification, Rev.4 (SITC Rev.4)
001 Nursery products	01141, 01142, 01149 (Part)	292 (Part)
002 Other agriculture	0111x, 01120, 01130, 01149(Part), 01190, 01300(Part), 0140x, 02000	041, 042(Part), 043, 044, 045, 054(Part), 057(Part), 072(Part),121(Part), 222, 223(Part), 263(Part), 264(Part), 265(Part), 292(Part)
003 Livestock	0121x, 0122x, 0123x, 01300(Part)	001, 012(Part), 025, 061(Part), 098(Part), 211(Part), 212(Part), 261(Part), 268(Part), 291(Part), 431(Part)
004 Aquarium fish	03203	034 (Part)
005 Other fisheries	0310x, 03201, 03202, 03204, 03205, 03209, 0330x	034(Part), 036(Part), 291(Part), 292(Part)
006 Food preparations	1511x, 1512x, 1513x	011, 012(Part), 016, 017, 034(Part), 035, 036(Part), 037, 054(Part), 056(Part), 057(Part), 058, 059, 062(Part), 098(Part), 411(Part)
007 Bread, biscuits and Confectionery	1541x	048(Part)
008 Sugar, Chocolate & related products	15322, 1542x, 1543x	061(Part), 062(Part), 072(Part), 073
009 Oils & fats	1514x	081(part), 091, 411(Part), 421, 422, 431(Part)
010 Dairy products	1520x	022(Part), 023, 024, 098(Part) 111(Part), 592(Part)
011 Coffee & tea	15451, 15452, 15453, 15454	071, 074, 098(Part)
012 Other food products	1531x, 15321, 15329, 15330, 15440, 15455, 1549x	022(Part), 042(Part) 046, 047, 048(Part), 056(Part), 072(Part), 075, 081(Part), 098(Part), 223(Part), 278(Part), 291(Part), 292(Part), 592(Part)

Industry/Commodity Classification	Singapore Standard Industrial Classification, 2005 (SSIC 2005)	Standard International Trade Classification, Rev.4 (SITC Rev.4)
013 Soft drinks	1604x	111(Part)
014 Alcoholic drinks and tobacco products	16010, 16020, 16030, 1700x	098(Part),112, 121(Part), 122, 512(Part)
015 Yarn, fabrics & textile articles	1810x, 1821x, 18220, 18230, 18290, 19301	261(Part), 263(Part), 264(Part), 265(Part), 266(Part), 267(Part), 268(Part), 269(Part), 651(Part), 652, 653, 654, 655, 656, 657(Part), 658, 659(Part), 821(Part)
016 Wearing apparel	1910x, 19302, 19303, 19309	657(Part), 841, 842, 843, 844, 845, 846, 848(Part)
017 Footwear, leather & fur products	1920x, 20110, 2012x, 2020x	211(Part), 212(Part), 611, 612, 613, 831 , 848(Part), 851, 885(Part)
018 Wood and wooden products (except furniture)	2110x, 2121x, 2122x, 2123x, 2129x, 36105, 36996(Part), 36997(Part)	244, 245(Part), 246, 247, 248, 292(Part), 633, 634, 635, 811(Part), 899(Part)
019 Paper and paper products	22010, 2202x, 2209x, 36997(Part)	251(Part), 598(Part), 641, 642(Part), 657(Part), 663(Part)
020 Newspapers, books and magazines	23111, 23112	892(Part)
021 Other printing	23113, 23114, 23115, 23119, 2312x	642(Part), 892(Part),
022 Petroleum and petroleum products	10001, 24100, 2420x	278(Part), 325, 333, 334(Part), 335(Part), 342, 344(Part)
023 Industrial chemicals and gases	2521x, 25269	274(Part), 281(Part), 285(Part), 335(Part), 431(Part), 511(Part), 512(Part), 513(Part), 514(Part), 515(Part), 516(Part), 522, 523, 524, 525, 554(Part)
024 Petrochemicals	2510x	335(Part), 511(Part),

Industry/Commodity Classification	Singapore Standard Industrial Classification, 2005 (SSIC 2005)	Standard International Trade Classification, Rev.4 (SITC Rev.4)
		512(Part), 513(Part), 514(Part), 515(Part), 516(Part), 571, 572, 573, 574(Part), 575(Part)
025 Pharmaceutical products	2600x	511(Part), 512(Part), 513(Part), 514(Part), 515(Part), 516(Part), 541(Part), 542, 598(Part)
026 Perfumes, cosmetics & toiletries	25242, 25243	551(Part), 553(Part)
027 Cleaning and polishing preparations	25241, 25244	554(Part), 591(Part), 598(Part)
028 Paints	2523x	532(Part), 533(Part), 598(Part)
029 Food chemicals and additives	25261	514(Part), 516(Part), 532(Part), 533(Part), 551(Part), 598(Part)
030 Other chemical products	2522x, 25250, 25262, 25263, 2529x, 36992	081(Part), 245(Part), 266(Part), 267(Part), 272(Part), 273(Part), 335(Part), 531, 532(Part), 533(Part), 553(Part), 562, 574(Part), 575(Part), 591(Part), 592(Part), 593, 597, 598(Part), 651(Part), 663(Part), 667(Part), 882(Part), 895(Part), 899(Part)
031 Rubber and rubber products	2711x, 2712x, 2719x	231, 232, 292(Part), 621, 625, 629, 657(Part), 848(Part)
032 Plastic precision products	27216	893(Part)
033 Other plastic products	27211, 27212, 27213, 27214, 27215, 27217, 27218, 27219, 27220, 36996(Part), 36997(Part)	581, 582, 583, 773(Part), 848(Part), 893(Part)
034 Glass and glass products	28100	664(Part), 665, 773(Part)
035 Fibreglass and fibreglass products	28992	651(Part), 664(Part)
036 Bricks, cement & concrete products	10002, 1110x, 11900, 2892x, 28930, 2894x, 28950	273(Part), 278(Part), 598(Part), 661(Part),

Industry/Commodity Classification	Singapore Standard Industrial Classification, 2005 (SSIC 2005)	Standard International Trade Classification, Rev.4 (SITC Rev.4)
		662, 663(Part)
037 Non-metallic mineral products	2891x, 28991, 28993, 28994, 28995, 28999	272(Part), 277(Part), 278(Part), 321, 322, 335(Part), 661(Part), 663(Part), 666, 667(Part), 773(Part), 812(Part)
038 Basic metals	2910x, 2920x, 2930x	274(Part), 281(Part), 283, 284, 285(Part), 286, 287, 289(Part), 671, 672, 673, 674, 675, 676, 677, 679(Part), 681, 682(Part), 683(Part), 684(Part), 685, 686, 687, 689(Part), 699(Part), 971(Part)
039 Structural metal products	3011x, 30131, 30994	679(Part), 682(Part), 683(Part), 684(Part), 691, 699(Part), 811(Part)
040 Metal stampings	30911, 30912, 30913, 30914, 30915	
041 Metal precision components	30993, 30995, 30997	694(Part), 699(Part),
042 Non-insulated cable products	3094x	678, 682(Part), 683(Part), 684(Part), 693(Part), 699(Part)
043 Metal containers	30120, 3095x	692, 699(Part)
044 Treatment and coating of metals	3092x	
045 Other metal products	30139, 30919, 3093x, 30991, 30992, 30996, 30998, 30999, 31122, 31129(Part), 31131, 31260, 36912, 36996(Part), 36997(Part)	682(Part), 683(Part), 684(Part), 689(Part), 693(Part), 694(Part), 695, 696, 697(Part), 699(Part), 711, 718(Part), 743(Part), 746, 747(Part), 748(Part), 749(Part), 778(Part), 812(Part), 848(Part), 891(Part), 895(Part)
046 Computers and computer peripheral equipment	33411, 33415, 33416, 33419	726(Part), 751(Part), 752(Part), 759(Part)

Industry/Commodity Classification	Singapore Standard Industrial Classification, 2005 (SSIC 2005)	Standard International Trade Classification, Rev.4 (SITC Rev.4)
047 Data storage	33412, 33413, 33414, 33417	752(Part), 898(Part)
048 Audio and video equipment	3330x	761(Part), 762, 763, 764(Part)
049 Semiconductors	3311x	776(Part)
050 Electron tubes and electronic display devices	33191, 33198	776(Part), 778(Part), 871(Part)
051 Printed circuit boards	33194, 33195, 33196	759(Part), 764(Part), 771(Part), 772(Part), 778(Part)
052 Communication equipment	3320x, 33904	751(Part), 752(Part), 761(Part), 764(Part), 778(Part)
053 Other electronic products	33192, 33193, 33197, 33199, 3349x, 33901, 33902, 33903, 33909	751(Part), 759(Part), 771(Part), 772(Part), 776(Part), 778(Part), 898(Part)
054 Lifting and hoisting machinery	3114x	723(Part), 728(Part), 744(Part)
055 Other industrial machinery and equipment	31110, 31121, 31129(Part), 31132, 31192, 31193, 31199, 31210, 3122x, 31233, 3124x, 31250, 3127x, 31291, 31293, 31294, 31295, 31299	699(Part), 712, 713(Part), 714(Part), 718(Part), 721, 722, 723(Part), 724(Part), 725, 726(Part), 727(Part), 728(Part), 731, 733, 735, 737(Part), 741(Part), 742(Part), 743(Part), 744(Part), 745(Part), 747(Part), 748(Part), 749(Part), 759(Part), 775(Part), 778(Part), 784(Part), 786(Part), 812(Part), 874(Part)
056 Refrigerators and air-conditioners	31191	741(Part), 743(Part), 775(Part)
057 Oil rigs and oilfield machinery	31231, 31232, 31239	679(Part), 723(Part), 743(Part), 793(Part)
058 General engineering works	31292	
059 Electrical industrial apparatus	3210x, 3220x, 32305, 32900	716, 727(Part), 737(Part), 745(Part),

Industry/Commodity Classification	Singapore Standard Industrial Classification, 2005 (SSIC 2005)	Standard International Trade Classification, Rev.4 (SITC Rev.4)
		771(Part), 772(Part), 773(Part), 775(Part), 778(Part)
060 Recorded Media	23200, 36991	898(Part)
061 Household appliances	3260x	697(Part), 724(Part), 741(Part), 742(Part), 743(Part), 745(Part), 775(Part)
062 Storage and primary batteries	3240x	778(Part)
063 Electrical wires and cables	32301, 32302, 32303, 32304, 32309	773(Part)
064 Lamp and lighting fixtures	32500, 36997(Part)	778(Part), 813, 894(Part)
065 Land transport equipment	3510x, 35300, 3590x	713(Part), 743(Part), 748(Part), 778(Part), 781, 782, 783, 784(Part), 785, 786(Part), 791, 891(Part)
066 Building of ships and boats	35201, 35203(Part)	793(Part)
067 Repairing of ships and boats	35202, 35203(Part)	
068 Marine engine and ship parts	35204	713(Part), 748(Part)
069 Aircraft	3540x	713(Part), 714(Part), 778(Part), 792, 899(Part)
070 Medical instruments	34111, 34112, 34113, 34114, 34119	541(Part), 741(Part), 743(Part), 774(Part), 872(Part), 893(Part), 899(Part)
071 Scientific instruments (including watches & clocks)	3412x, 34130, 3430x	745(Part), 747(Part), 774(Part), 873, 874(Part), 885(Part)
072 Photographic and optical goods	34115, 3420x	871(Part), 874(Part), 881, 882(Part), 883, 884
073 Furniture (except of stone)	36101, 36102, 36103, 36104, 36106, 36109	821(Part), 872(Part)
074 Jewellery	36911, 36919, 36998	277(Part), 667(Part),

Industry/Commodity Classification	Singapore Standard Industrial Classification, 2005 (SSIC 2005)	Standard International Trade Classification, Rev.4 (SITC Rev.4)
		897, 961, 971(Part)
075 Other Manufacturing	31300, 36920, 36930, 3694x, 36993, 36994, 36995, 36999	291(Part), 659(Part), 751(Part), 759(Part), 811(Part), 821(Part), 874(Part), 894(Part), 895(Part), 896, 898(Part), 899(Part)
076 Scrap	35205, 4300x	081(Part), 121(Part), 251(Part), 261(Part), 263(Part), 267(Part), 268(Part), 269(Part), 278(Part), 282, 288, 289(Part), 291(Part), 334(Part), 541(Part), 579, 599, 689(Part), 778(Part), 793(Part), 931, 971(Part)
077 Electricity	4010x	351
078 Gas	4020x	343, 344(Part), 345
079 Water	41000	
080 Building construction	4521x, 45230, 45242(Part), 45243, 45244(Part), 45249(Part), 45291, 45292, 45301, 45302(Part), 45303, 45304, 45305, 45306, 45307, 45308(Part), 45309, 45401(Part), 45402(Part), 45403(Part), 45404(Part), 45405(Part), 45406(Part), 45409(Part)	
081 Other construction	4510x, 4522x, 45241, 45242(Part), 45244(Part), 45249(Part), 45299, 45302(Part), 45308(Part) , 45401(Part), 45402(Part), 45403(Part), 45404(Part), 45405(Part), 45406(Part), 45409(Part), 45500	
082 Wholesale trade of computer products	50523, 50524, 50525	
083 Wholesale trade of other products	50100, 5021x, 5022x, 5029x, 5031x, 5032x, 5033x, 5034x, 5035x, 5036x, 5037x, 5039x, 5041x, 5042x, 5043x, 5049x, 5051x, 50521, 50522, 5059x, 5061x, 5062x, 5091x, 50920,	

Industry/Commodity Classification	Singapore Standard Industrial Classification, 2005 (SSIC 2005)	Standard International Trade Classification, Rev.4 (SITC Rev.4)
	5093x, 5099x	
084 Retail trade of computer products	51473, 51474	
085 Retail trade of other products	5110x, 5120x, 5131x, 5132x, 5141x, 5142x, 5143x, 5144x, 5145x, 5146x, 51471, 51472, 5148x, 5149x, 51500, 5160x	
086 Food & beverage services	5821x, 5822x, 58230, 58240, 58250, 58290	
087 Accommodation services	5811x, 5812x	
088 Passenger transport by land	5210x, 52211, 52212, 52213, 52214, 52215, 52219	
089 Water transport	53101, 53109, 53201, 53209, 55396	
090 Supporting services to water transport	53102, 55310, 5532x, 55391, 55392, 55395, 55397, 55399, 55523	
091 Port operation services	55393, 55394	
092 Air transport	54001, 54009	
093 Supporting services to air transport	54002, 54003, 55401, 55402, 55405, 55409	
094 Airport operation services	55403, 55404	
095 Freight transport by land	5223x, 52300, 55209	
096 Logistics service providers & courier services	55104, 55521, 56020	
097 Other transport services	55511, 55519, 55522, 55524, 55529, 55901, 55909	
098 Warehousing services	55101, 55102, 55103, 55109	
099 Sight-seeing & tourism	52220, 53103, 53202, 53203, 7821x, 78290(Part)	
100 Communications	56010, 6201x, 6202x, 62090, 63131	
101 Life insurance	66101, 66103(Part), 66201, 66203(Part)	

Industry/Commodity Classification	Singapore Standard Industrial Classification, 2005 (SSIC 2005)	Standard International Trade Classification, Rev.4 (SITC Rev.4)
102 General and other insurance	66102, 66103(Part), 66104, 66202, 66203(Part), 66300, 66400, 6690x	
103 Banks & finance companies	6512x, 6513x, 6514x, 65150, 65929, 65991	
104 Other financial services	6511x, 65190, 65910, 65921, 65923, 65925, 65926, 65931, 65932, 65933, 65934(Part), 6594x, 6596x, 65992, 65993, 65999	
105 Fund management	6595x	
106 Real estate	55201, 7010x, 70210, 70221, 70222, 70223, 70224, 70229	
107 Legal services	73110, 91120(Part)	
108 Accounting and secretarial services	7312x, 76291, 78521, 78522, 78529	
109 Information technology	60014, 6002x, 6311x, 6312x, 63132, 63133, 63139, 6319x, 63903, 63909, 92201	
110 Publishing	60011, 60012, 60013, 60019	
111 Architectural and engineering services	7411x, 74121, 74122, 74123, 74124, 74125(Part), 74129, 74220, 91120(Part)	
112 Industrial design services	7421x	
113 Petroleum and mining consultants	74126	
114 Employment and labour contracting	7811x, 78120	
115 Advertising	76110	
116 Exhibitions	78921, 78922, 78924	
117 Leasing of machinery and equipment	7111x, 71120, 71130, 71210, 7122x, 7129x, 71301, 71302	
118 Management consultants	73221(Part), 73222, 73224, 73225, 73226, 73229(Part), 7612x	
119 Hotel management services	73223	

Industry/Commodity Classification	Singapore Standard Industrial Classification, 2005 (SSIC 2005)	Standard International Trade Classification, Rev.4 (SITC Rev.4)
120 Research and development	75101(Part), 75102(Part), 75103(Part), 75104(Part), 75105(Part), 75109, 75200(Part), 76293	
121 Business representative offices & HQ activities	7321x	
122 Other business and technical services	63901, 71400, 76219, 7622x, 76292, 76299, 7851x, 78523, 78524, 7891x, 7899x, 91110, 91120(Part), 92202	
123 Producers of government services	63902(Part), 65934(Part), 74125(Part), 75200(Part), 80102(Part), 80103(Part), 80201(Part), 80209(Part), 80301, 80303, 80409(Part), 80509(Part), 86025(Part), 86031, 90211(Part), 90219(Part), 90220(Part), 90299(Part), 90309(Part), 91919(Part), 94111, 94119, 94191, 94199, 94210, 9422x, 94231, 94232, 94233, 94234, 94235	
124 Security services	7830x	
125 Education	80101(Part), 80102(Part), 80103(Part), 80104(Part), 80105(Part), 80201(Part), 80202(Part), 80203, 80204, 80209(Part), 80302, 80401(Part), 80402(Part), 80403(Part), 80404, 80405, 80406, 80409(Part), 80501, 80502, 80509(Part), 91120(Part)	
126 Medical and health services	76300, 85010(Part), 85021(Part), 85022(Part), 85023(part), 85024, 85091(Part), 85092, 85093, 85094, 85095(Part), 85099(Part), 91120(Part)	
127 Environmental health services	42001, 42002, 42009, 7841x, 78420	
128 Media entertainment	6111x, 6112x, 6120x, 61300, 6140x	
129 Museums, parks & performing arts	78290(Part), 78923, 90101(Part), 90102, 90103(Part), 90104(Part), 90109(Part), 90211(Part), 90212,	

Industry/Commodity Classification	Singapore Standard Industrial Classification, 2005 (SSIC 2005)	Standard International Trade Classification, Rev.4 (SITC Rev.4)
		90220(Part), 90291, 90299(Part)
130 Sports & recreation	71303, 71309, 90301, 90302(Part), 90303(Part), 90304, 90309(Part), 90901, 90902, 90903(Part), 90904, 90909(Part), 93095, 93096	
131 Personal and household services	71304, 76211, 86011(Part), 86021(Part), 86022(Part), 86023(Part), 86024(Part), 86025(part), 86026(Part), 86027(Part), 86029(Part), 9301x, 9302x, 93030, 93040, 93091, 93092, 93093, 93094, 93099	
132 Repairs of household goods	92302, 92303, 92304, 92305, 92306, 92307, 92309	
133 Repairs of road transport equipment	9210x, 92301	
134 Domestic services	9500x	
135 Non-profit bodies	63902(Part), 65922, 65924, 65934(Part), 73221(Part), 73229(Part), 75101(part), 75102(Part), 75103(Part), 75104(Part), 75105(Part), 75200(Part), 78999, 80101(Part), 80102(Part), 80202(Part), 80104(Part), 80105(Part), 80201(Part), 80209(Part), 80401(Part), 80402(Part), 80403(Part), 80409(Part), 85010(Part), 85021(Part), 85022(Part), 85023(Part), 85091(Part), 85095(Part), 85099(Part), 86011(Part), 86019, 86021(Part), 86022(Part), 86023(Part), 86024(Part), 86025(Part), 86026(Part), 86027(Part), 86029(Part), 86032, 86039, 90101(Part), 90103(Part), 90104(Part), 90109(Part), 90211(Part), 90219(Part), 90220(Part), 90299(Part), 90302(Part), 90303(Part), 90309(Part), 90903(Part), 90909(Part), 91120(Part), 91200, 91911, 91912, 91913, 91914,	

Industry/Commodity
Classification

Singapore Standard
Industrial Classification, 2005
(SSIC 2005)

Standard International
Trade Classification, Rev.4
(SITC Rev.4)

91919(Part), 91920, 9199x, 94239

136 Ownership of dwellings

Correspondence between the 12 Industrial Sectors and the 136 I-O Codes

Industrial Sector		I-O Codes	
1	Agriculture	001	Nursery products
		002	Other agriculture
		003	Livestock
		004	Aquarium fish
		005	Other fisheries
2	Manufacturing (Non-Oil)	006	Food preparations
		007	Bread, biscuits & confectionery
		008	Sugar, chocolate & related products
		009	Oils & fats
		010	Dairy products
		011	Coffee & tea
		012	Other food products
		013	Soft drinks
		014	Alcoholic drinks & tobacco products
		015	Yarn, fabrics & textile articles
		016	Wearing apparel
		017	Footwear, leather & fur products
		018	Wood & wooden products (except furniture)
		019	Paper & paper products
		020	Newspapers, books & magazines
		021	Other printing
		023	Industrial chemicals & gases
		024	Petrochemicals
		025	Pharmaceutical products
		026	Perfumes, cosmetics & toiletries
		027	Cleaning & polishing preparations
		028	Paints
		029	Food chemicals & additives
		030	Other chemical products
		031	Rubber & rubber products
		032	Plastic precision products
		033	Other plastic products
		034	Glass & glass products
		035	Fibreglass & fibreglass products
		036	Bricks, cement & concrete products
		037	Non-metallic mineral products
		038	Basic metals
		039	Structural metal products
		040	Metal stampings
		041	Metal precision components
		042	Non-insulated cable products
		043	Metal containers
		044	Treatment & coating of metals
		045	Other metal products
		046	Computers & computer peripheral equipment
		047	Data storage

Industrial Sector		I-O Codes	
2	Manufacturing (Non-Oil) (cont'd)	048	Audio & video equipment
		049	Semiconductors
		050	Electron tubes & electronic display devices
		051	Printed circuit boards
		052	Communication equipment
		053	Other electronic products
		054	Lifting & hoisting machinery
		055	Other industrial machinery & equipment
		056	Refrigerators & air-conditioners
		057	Oil rigs & oilfield machinery
		058	General engineering works
		059	Electrical industrial apparatus
		060	Recorded media
		061	Household appliances
		062	Storage & primary batteries
		063	Electrical wires & cables
		064	Lamp & lighting fixtures
		065	Land transport equipment
		066	Building of ships & boats
		067	Repairing of ships & boats
		068	Marine engines & ship parts
		069	Aircraft
		070	Medical instruments
		071	Scientific instruments (including watches & clocks)
		072	Photographic & optical goods
		073	Furniture (except of stone)
		074	Jewellery
		075	Other manufacturing
3	Manufacturing (Oil)	022	Petroleum & petroleum products
4	Utilities	076	Scrap
		077	Electricity
		078	Gas
		079	Water
5	Construction	080	Building construction
		081	Other construction
6	Wholesale and Retail Trade	082	Wholesale trade of computer products
		083	Wholesale trade of other products
		084	Retail trade of computer products
		085	Retail trade of other products
7	Hotels & Restaurants	086	Food & beverage services
		087	Accommodation services
8	Transport & Storage	088	Passenger transport by land
		089	Water transport
		090	Supporting services to water transport
		091	Port operation services
		092	Air transport
		093	Supporting services to air transport
		094	Airport operation services
		095	Freight transport by land
		096	Logistics service providers & courier services

Industrial Sector		I-O Codes	
8	Transport & Storage (cont'd)	097 098 099	Other transport services Warehousing services Sight-seeing & tourism
9	Information & Communications	100 109 110 128	Communications Information technology Publishing Media entertainment
10	Financial Services	101 102 103 104 105	Life insurance General & other insurance Banks & finance companies Other financial services Fund management
11	Business Services	106 107 108 111 112 113 114 115 116 117 118 119 120 121 122 124 127	Real estate Legal services Accounting & secretarial services Architectural & engineering services Industrial design services Petroleum & mining consultants Employment & labour contracting Advertising Exhibitions Leasing of machinery & equipment Management consultants Hotel management services Research & development Business representative offices & HQ activities Other business & technical services Security services Environmental health services
12	Other Services	123 125 126 129 130 131 132 133 134 135 136	Producers of government services Education Medical & health services Museums, parks & performing arts Sports & recreation Personal & household services Repairs of household goods Repairs of road transport equipment Domestic services Non-profit bodies Ownership of dwellings

SINGAPORE DEPARTMENT OF STATISTICS

INFORMATION DISSEMINATION SERVICES

Statistics Singapore Website

The *Statistics Singapore Website* was launched by the Singapore Department of Statistics (DOS) in January 1995. Internet users can access the website by connecting to:

<http://www.singstat.gov.sg>

Key Singapore statistics are available via the following sections:

- **Statistics**
which provides key data on Singapore's economy and population.
- **News**
which covers the Performance of Singapore Economy, the Consumer Price Index, the Wholesale Trade Index, Business Receipts Index for Service Industries, Retail Sales and Catering Trade Indices, Manufacturing Performance, Singapore External Trade, Tourism Sector Performance, Real Estate Information and Employment Situation.
- **Publications – Papers & Analyses**
which provides papers on economic and social topics.
- **Themes**
which presents official statistics compiled by DOS and the Research and Statistics Units in the various ministries and statutory boards according to themes. Within each theme, relevant statistics and related press releases, publications and references are provided.

Statistical resources are available via:

- **Publication Catalogue**
which lists the latest editions of publications released by DOS at <http://www.singstat.gov.sg/pubn/catalog.html>. All softcopy DOS publications are available for free downloading. Statistical tables of DOS publications in Excel format are also available.
- **Advance Release Calendar**
which covers key Singapore economic indicators.

The website also provides a convenient gateway to international statistical websites under the “Statistical Resources” section:

- **Guide to International Statistics**
which covers international databases, classifications and links, and statistical terms and definitions.
- **IMF Dissemination Standards Bulletin Board**
which provides metadata about Singapore's key indicators in the real, fiscal, financial and external sectors, including dissemination practices and information about pre-release access of current indicators.

SingStat Express

SingStat Express is a personalised data delivery service which sends the latest press releases, notices of publication, newsletter, occasional and information papers to subscribers via email. SMS alert service is also available to local users. Subscription details are available from the *Statistics Singapore Website* (www.singstat.gov.sg/express).

SINGAPORE DEPARTMENT OF STATISTICS

INFORMATION DISSEMINATION SERVICES (*cont'd*)

Really Simple Syndication

Really Simple Syndication (RSS) is an easy way to stay updated on the latest statistical news released via the *Statistics Singapore Website*. The SingStat RSS feed delivers statistical news highlights and hyperlinks to the source documents whenever the updates are posted. More information is available at <http://www.singstat.gov.sg/svcs/rss.html>.

Data on SMS

Data on SMS is a free mobile service for local data users to receive the latest data for key indicators via SMS. Simply key **data** and SMS to **74688** (or SGOVT) for the service. More information is available at <http://www.singstat.gov.sg/svcs/dataonsms.html>.

SingStat Time Series (STS) Online System

The *SingStat Time Series (STS) Online System* is an internet-accessible time series retrieval system. The *STS* includes more than 7,000 historical data series on Singapore society and economy from several domains, including national accounts, balance of payments, investments, finance, labour, prices, business expectations, trade, manufacturing, tourism, demography, health and education.

Besides the usual monthly, quarterly and annual data, *STS* includes also seasonally adjusted data series for key economic indicators providing for a better analysis and understanding of current economic trends. The *STS* also offers:

- Web-based search engine that is easy to use;
- “Bookmark” features that enable users to save and organise links in their personalised portals.

Subscription to *STS* is opened to local and overseas users. More information on *STS* is available via *Statistics Singapore Website*. For enquiries, please contact our Department at **Tel: 6332-7119**.

E-survey

The *E-survey* enables business organisations to complete and submit their survey forms through the internet. Using secured encryption protocols, the *E-survey* ensures that the information transmitted through the net is secured and protected. The system features online helps and validation checks to assist respondents in completing their survey forms. With the *E-survey*, respondents can do away with the tedious paper work and manual tasks of mailing or faxing their survey returns to the Department.

Statistical Enquiries and Feedback

If you have any statistical enquiries or comment or suggestions on our statistical publications and electronic services, you are welcomed to:

- | | | |
|---|----|--|
|  E-mail us | at | info@singstat.gov.sg |
|  Fax to us | at | (65) 6332-7689 |
|  Call us | at | 1800-3238118* (local callers)
(65) 6332-7738 (overseas callers) |

* Calls from mobile telephone lines to 1800 local toll free number may be subject to mobile airtime charges as imposed by the relevant mobile service provider.