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2005

SINGAPORE DEPARTMENT OF STATISTICS



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PREFACE

The Yearbook of Statistics Singapore, 2005 is the thirty-eighth edition of an annual series published by the Singapore Department of Statistics. The publication provides a comprehensive, current statistical record of the key socio-demographic and economic characteristics of Singapore. Users are able to get a snapshot of the Singapore economy and population based on the latest available information.

Improvements are continuously made to the Yearbook to enhance its value to users. New data series on topics of interest are added as and when appropriate. Since 1968 when the Yearbook was first released, the number of tables in the publication has increased from 124 to 263.

In addition to this Yearbook, the Department disseminates official statistics on Singapore through a variety of electronic services. These include the Statistics Singapore Website, SingStat DataShop, SingStat Time Series Online System and SingStat Express. Internet users can now purchase softcopies of statistical publications via the DataShop. For users who have specific data needs, the Department's Statistical Information Services offers personalized assistance on cost-recovery basis.

The data series in the Yearbook are compiled by the Singapore Department of Statistics and 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 for the past thirty-seven years. I look forward to their continued support.

Mrs Leow Bee Geok
Acting Chief Statistician
Singapore

June 2005

Our

Mission

To develop and manage a national statistical information system of quality and integrity to support Singapore's social and economic development.

Performance Pledge

We pledge to maintain high service standards in meeting the data needs of local and overseas users :

Accessibility

We provide a wide range of products and services which are readily accessible by the general public.

Relevance

We make special efforts to improve the relevance of statistical data to meet user needs.

Reliability

We benchmark ourselves against international best practices in statistical activities and adopt rigorous quality assurance standards.

Timeliness

We strive for the earliest possible release of data, while balancing the need to maintain data quality.

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NOTATIONS

na	not available
nec	not elsewhere classified
-	nil or negligible

NOTES

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

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

NOTES ON CHANGES AND REVISIONS

From time to time, changes are made to the Yearbook of Statistics Singapore to maintain its currency and relevance. Such changes include addition of new series and replacement of existing series as a result of revision necessitated by changed circumstances. In this edition, changes have been incorporated in the following tables :

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Table 22.3	Enrolment in Child Care Centres by Type of Programme and Organisation

With effect from 2005 issue:

- Table on Innovation & Quality Circles has been removed.

KEY INDICATORS

1.1 NATIONAL INCOME

Year	Gross National Income (GNI) \$ M	Per Capita GNI \$	Gross National Saving \$M	Gross Capital Formation \$M	Gross Domestic Product \$M	Gross Fixed Capital Formation \$M
	At Current Market Prices				At 1995 Market Prices	
1994	110,234.9	32,222	53,114.3	35,701.8	110,109.4	35,569.3
1999	142,875.1	36,163	69,767.4	44,739.5	148,108.3	48,717.8
2000	158,316.4	39,405	72,355.5	51,798.8	162,379.0	52,933.8
2001	153,798.3	37,228	65,819.3	40,016.1	159,212.3	50,537.0
2002	154,609.8	37,065	64,134.6	36,035.0	164,255.2	45,129.1
2003	158,423.2	37,853	70,843.8	23,887.9	166,491.8	43,037.3
2004	176,026.2	41,513	80,160.1	33,037.6	180,496.0	46,648.5
Percentage Change Over Previous Year						
1994	16.5	12.9	26.3	1.3	11.4	9.6
1999	1.1	0.4	-6.9	1.0	6.8	-4.9
2000	10.8	9.0	3.7	15.8	9.6	8.7
2001	-2.9	-5.5	-9.0	-22.7	-2.0	-4.5
2002	0.5	-0.4	-2.6	-9.9	3.2	-10.7
2003	2.5	2.1	10.5	-33.7	1.4	-4.6
2004	11.1	9.7	13.2	38.3	8.4	8.4

1.2 INFLATION, LABOUR AND BUSINESS COSTS

Year	Measures of Inflation			Unit Labour Cost Index		Unit Business Cost Index of Manufacturing (1993 = 100)
	Consumer Price Index (2004 = 100)	Domestic Supply Price Index (2000 = 100)	Gross Domestic Product Deflator (1995 = 100)	Overall Economy (1993 = 100)	Manufacturing (1993 = 100)	
1994	91.4	98.7	97.9	102.1	96.9	99.7
1999	96.0	90.8	94.5	101.0	82.9	91.6
2000	97.2	100.0	98.3	102.7	80.5	92.5
2001	98.2	98.3	96.6	107.4	93.0	99.3
2002	97.8	95.2	96.4	106.2	86.8	94.2
2003	98.3	97.1	96.7	105.4	83.0	92.6
2004	100.0	102.1	100.0	101.2	75.4	89.9
Percentage Change Over Previous Year						
1994	3.1	-2.0	2.7	2.1	-3.1	-0.3
1999	-	2.1	-4.6	-8.8	-15.3	-9.5
2000	1.3	10.1	4.1	1.7	-2.9	1.0
2001	1.0	-1.7	-1.7	4.6	15.7	7.4
2002	-0.4	-3.2	-0.2	-1.1	-6.8	-5.1
2003	0.5	2.0	0.2	-0.7	-4.3	-1.7
2004	1.7	5.2	3.5	-4.0	-9.1	-3.0

1.3 MANUFACTURING AND BUILDING & CONSTRUCTION

Year	Manufacturing			Building & Construction ²			
	Net Investment Commitments	Total Output ¹	Index of Industrial Production ¹ (2003 = 100)	Written Permission	Building Plan Approval	Building Commencement	Building Completion
	Million Dollars			Thousand Square Metres of Gross Floor Area			
1994	5,764.6	103,013	64.9	na	na	na	na
1999	8,037.4	136,937	87.8	2,862	1,845	2,087	3,348
2000	9,208.9	163,721	101.3	3,594	2,415	2,725	3,457
2001	9,171.7	138,323	89.5	2,981	2,339	2,799	2,589
2002	9,008.7	147,296	97.1	2,624	2,602	2,183	3,446
2003	7,511.0	158,697	100.0	1,482	1,683	1,446	2,192
2004	8,258.1	189,789	113.9	2,301	1,672	1,404	2,439
Percentage Change Over Previous Year							
1994	47.3	15.0	12.9	na	na	na	na
1999	2.7	9.9	13.9	-29.6	-52.4	4.2	-32.5
2000	14.6	19.6	15.4	25.6	30.9	30.6	3.3
2001	-0.4	-15.5	-11.6	-17.1	-3.1	2.7	-25.1
2002	-1.8	6.5	8.5	-12.0	11.2	-22.0	33.1
2003	-16.6	7.7	3.0	-43.5	-35.3	-33.8	-36.4
2004	9.9	19.6	13.9	55.3	-0.7	-2.9	11.3

¹ Prior to 2002, data refer to establishments engaging 10 or more workers.

From 2002, data include establishments with less than 10 workers.

Total output refers to manufacturing output and other operating income.

Rubber processing and granite quarrying are excluded.

² Figures exclude hostels, HDB flats, tenement houses, parsonages and Executive Condominiums.

The series have been revised. Data prior to 1998 are not available.

1.4 EXTERNAL TRADE AND TOURISM

Year	External Trade					Tourism	
	Total	Exports			Imports	Visitors Arrivals ¹	Hotel Rooms Available ²
		Total	Domestic Exports	Re-exports			
	Million Dollars						Thousand
1994	303,723.0	147,327.2	88,533.3	58,793.9	156,395.8	6,898.3	24,609
1999	382,431.2	194,289.6	116,324.9	77,964.7	188,141.6	6,958.2	27,542
2000	470,001.4	237,826.3	135,938.0	101,888.3	232,175.1	7,691.3	28,212
2001	425,718.4	218,026.3	118,444.3	99,581.9	207,692.1	7,522.2	27,859
2002	432,213.3	223,901.4	119,437.7	104,463.7	208,311.9	7,566.8	27,877
2003	473,906.9	251,095.7	138,884.8	112,211.0	222,811.2	6,126.9	27,470
2004	580,370.4	303,476.3	166,502.5	136,973.7	276,894.1	8,328.6	28,359
Percentage Change Over Previous Year							
1994	18.1	23.3	17.4	33.4	13.7	7.4	2.7
1999	8.1	5.7	9.8	0.2	10.8	11.5	0.5
2000	22.9	22.4	16.9	30.7	23.4	10.5	2.4
2001	-9.4	-8.3	-12.9	-2.3	-10.5	-2.2	-1.3
2002	1.5	2.7	0.8	4.9	0.3	0.6	0.1
2003	9.6	12.1	16.3	7.4	7.0	-19.0	-1.5
2004	22.5	20.9	19.9	22.1	24.3	35.9	3.2

1 Exclude arrivals of Malaysians by land.

2 Refer to gazetted hotels.

1.5 TRANSPORT AND COMMUNICATIONS

Year	Cargo Handled					International Telephone Call Minutes ²
	Air ¹		Sea		Container Throughput	
	Discharged	Loaded	General	Bulk		
	Tonnes		Thousand Tonnes		Thousand TEUs	
1994	529,334	480,430	157,247	132,828	10,400	451
1999	756,771	743,622	188,553	137,349	15,945	859
2000	848,269	834,220	199,577	126,014	17,087	1,048
2001	780,638	726,424	186,076	127,411	15,571	2,561
2002	834,490	803,306	198,521	136,635	16,941	2,829
2003	803,056	808,351	206,448	141,247	18,411	3,074
2004	870,582	904,507	240,882	152,536	21,329	4,131
Percentage Change Over Previous Year						
1994	19.2	21.8	10.2	1.3	15.0	20.6
1999	16.1	17.6	9.0	-1.4	5.3	8.6
2000	12.1	12.2	5.8	-8.3	7.2	22.0
2001	-8.0	-12.9	-6.8	1.1	-8.9	144.5
2002	6.9	10.6	6.7	7.2	8.8	10.5
2003	-3.8	0.6	4.0	3.4	8.7	8.7
2004	8.4	11.9	16.7	8.0	15.8	34.4

1 Refer to Changi Airport only.

Data exclude passenger baggage, diplomatic cargo and aircraft stores.

2 Figures prior to 1996 refer to financial year.

For 1998 to 2000, data include real-time fax and budget call services.

Prior to 2001, data exclude calls to Malaysia.

From 2001, figures include traffic contributed by new service providers such as ISR operators.

With effect from July 2004, figures include all Service-Based Operators (SBO).

1.6 GOVERNMENT FINANCE

Year	Operating Revenue ¹	Operating Expenditure ²	Development Expenditure ³	Public Debt ⁴		
				Total	Domestic	External
	Million Dollars					
1994	23,280.3	9,699.8	4,418.3	75,344.4	75,339.7	4.7
1999	25,597.3	13,907.4	11,039.3	125,777.1	125,777.1	-
2000	31,090.9	18,896.9	9,077.6	134,370.4	134,370.4	-
2001	30,265.7	17,845.5	9,998.6	148,999.9	148,999.9	-
2002	25,401.2	19,243.9	7,877.1	156,751.3	156,751.3	-
2003	24,643.1	19,236.2	7,953.1	169,331.9	169,331.9	-
2004	26,345.8	19,935.8	8,482.2	186,598.2	186,598.2	-
Percentage Change Over Previous Year						
1994	19.2	6.1	29.6	7.9	7.9	-59.5
1999	-0.8	-2.3	4.6	9.2	9.2	-
2000	21.5	35.9	-17.8	6.8	6.8	-
2001	-2.7	-5.6	10.1	10.9	10.9	-
2002	-16.1	7.8	-21.2	5.2	5.2	-
2003	-3.0	0.0	1.0	8.0	8.0	-
2004	6.9	3.6	6.7	10.2	10.2	-

1 Refer to receipts credited to the Consolidated Revenue Account and Development Fund Account, but excludes interest income, investment income and capital receipts.

2 Refer to Expenditure on Manpower, Other Operating Expenditure (excluding expenses on investment and agency fees on land sales), Grants-in-Aid and Pensions (up to first quarter 1995).

3 Exclude loans to statutory boards and industrial and commercial enterprises.

From FY2001, land-related expenditure items are no longer classified under Development Expenditure.

These expenditures are therefore excluded from the period April 2001 onwards.

4 Refer to end of year.

1.7 BANKING AND FINANCE

End of Year	Money Supply (M1)	Official Foreign Reserves	Total Assets / Liabilities			
			Commercial Banks	Merchant Banks	Finance Companies	Asian Currency Units
	Million Dollars					
1994	23,411.5	85,165.5	201,952.5	45,049.4	18,997.7	416,345.4
1999	31,109.1	128,457.0	321,045.4	56,999.6	20,742.4	477,241.7
2000	33,261.9	139,260.0	335,816.0	59,871.2	19,801.1	481,693.0
2001	36,082.9	139,942.1	373,747.9	56,398.4	14,961.1	465,472.8
2002	35,828.2	142,721.3	353,115.0	52,564.3	13,722.3	482,612.3
2003	38,722.6	163,189.5	362,528.4	58,203.4	7,902.7	509,145.9
2004	44,162.2	183,844.0	398,236.7	59,245.4	8,308.5	581,579.6

Percentage Change Over Previous Year

1994	2.3	9.4	18.6	6.7	26.7	7.8
1999	14.2	3.1	4.0	-5.9	-5.5	-5.1
2000	6.9	8.4	4.6	5.0	-4.5	0.9
2001	8.5	0.5	11.3	-5.8	-24.4	-3.4
2002	-0.7	2.0	-5.5	-6.8	-8.3	3.7
2003	8.1	14.3	2.7	10.7	-42.4	5.5
2004	14.0	12.7	9.8	1.8	5.1	14.2

End of Year	Commercial Banks		Finance Companies			CPF
	Deposits of Non-Bank Customers	Advances to Non-Bank Customers ¹	Deposits from Individuals & Institutions	Loans for		Amount Due to Members
				Hire Purchase of Motor Vehicles	Housing	
	Million Dollars					
1994	99,032.2	90,974.2	13,790.3	4,729.8	2,314.3	57,649.2
1999	174,454.1	147,185.5	14,321.9	3,860.4	3,500.1	88,396.9
2000	171,316.4	154,042.1	13,645.9	5,094.6	2,768.0	90,298.3
2001	182,551.4	162,920.8	10,641.4	4,054.2	1,884.7	92,221.2
2002	180,138.4	161,283.4	9,855.7	3,734.2	1,547.9	96,422.6
2003	194,231.5	171,443.5	5,530.2	2,317.7	756.3	103,539.6
2004	206,176.3	179,088.6	5,667.6	2,193.4	952.4	111,873.8

Percentage Change Over Previous Year

1994	16.0	16.0	30.5	39.5	26.7	10.2
1999	7.5	-2.9	-6.7	8.6	-8.4	3.7
2000	-1.8	4.7	-4.7	32.0	-20.9	2.2
2001	6.6	5.8	-22.0	-20.4	-31.9	2.1
2002	-1.3	-1.0	-7.4	-7.9	-17.9	4.6
2003	7.8	6.3	-43.9	-37.9	-51.1	7.4
2004	6.1	4.5	2.5	-5.4	25.9	8.0

¹ Include bills financing.

1.8 POPULATION AND LAND AREA

Year	Mid-Year Population ¹		Land Area ²	Population Density	Median Age ³	Dependency Ratio ⁴	Sex Ratio ³
	Total	Resident					
	Thousand		Square Kilometres	Per Square Kilometre	Years	Per Hundred	Males Per 1,000 Females
1994	3,421.1	2,961.4	646.1	5,295	31.5	41.4	1,013
1999	3,950.9	3,221.9	659.9	5,987	33.7	40.6	1,001
2000	4,017.7	3,263.2	682.7	5,885	34.2	40.4	998
2001	4,131.2	3,319.1	682.3	6,055	34.6	40.4	996
2002	4,171.3	3,378.3	685.4	6,086	34.9	40.2	993
2003	4,185.2	3,437.3	697.1	6,004	35.3	39.8	990
2004	4,240.3	3,486.9	699.0	6,066	35.7	39.1	988

1 Total population comprises Singapore residents and non-residents.

The resident population comprises Singapore citizens and permanent residents.

2 The area of Singapore is generated from the Lot Base System based on the Cadastral maps as at 8 January 2005.

Prior to 2001, the area is based on topographical maps.

3 Refer to Singapore residents (citizens and permanent residents).

4 Residents under 15 years and those 65 years and over divided by residents aged 15 -64 years.

1.9 VITAL STATISTICS

Year	Population Growth Rate	Rate of Natural Increase	Crude Birth Rate	Crude Death Rate	Infant Mortality Rate	Total Fertility Rate	Gross Reproduction Rate
	Per Cent	Per 1,000 Population			Per 1,000 Live-births	Per Female Aged 15-44 years	
1994	1.9	11.6	16.2	4.7	4.1	1.71	0.83
1999	1.5	8.3	12.8	4.5	3.3	1.47	0.70
2000	1.3	9.2	13.7	4.5	2.5	1.60	0.77
2001	1.7	7.5	11.8	4.4	2.2	1.41	0.68
2002	1.8	7.0	11.4	4.4	2.9	1.37	0.66
2003	1.7	5.9	10.3	4.4	2.5	1.25	0.61
2004	1.4	5.8	10.1	4.3	1.9	1.25	0.60

Note : Data refer to Singapore residents (citizens and permanent residents).

1.10 EMPLOYMENT

Year	Labour Force ¹	Unemployment Rate ¹	Labour Force Participation Rate ¹			CPF Contributors in Labour Force	Union Members Among Employed
			Total	Males	Females		
	Thousand		Per Cent				
1994	1,693.1	1.9	64.9	79.6	50.9	67.3	14.1
1999	1,976.0	3.6	64.7	77.8	52.7	62.0	15.4
2000	2,192.3	3.5	68.6	81.1	55.5	58.1	15.0
2001	2,119.7	2.7	65.4	77.8	54.3	59.9	16.5
2002	2,128.5	4.2	64.7	77.2	53.4	60.3	19.3
2003	2,150.1	4.4	64.2	75.8	53.9	59.7	20.5
2004	2,183.3	4.3	64.2	75.6	54.2	60.7	21.5

- 1 Refer to persons aged 15 years and over in June of the respective years. Data for 2000 are from Census of Population. Data exclude construction workers living at worksites and workers who commute daily from abroad to work in Singapore, except for year 2000.
Unemployment rates were seasonally adjusted.

1.11 HEALTH

Year		Life Expectancy at Birth			Doctors	Dentists	Nurses ¹	Per Capita Government Expenditure on Health ²
		Total	Males	Females				
		Years			Per 10,000 Population			Dollar
1994		76.2	74.1	78.4	13	2	34	255
1999		77.6	75.6	79.7	13	2	39	276
2000		78.1	76.1	80.1	14	3	40	302
2001		78.4	76.4	80.3	14	3	41	385
2002		78.6	76.6	80.7	14	3	42	367
2003		78.9	77.0	80.9	15	3	44	480
2004		79.3	77.4	81.3	15	3	45	404

- 1 Refer to registered and enrolled nurses.

- 2 Exclude expenditure of restructured hospitals. Refer to only government health expenditure which includes government subventions to restructured hospitals.

1.12

EDUCATION AND LITERACY

Year	Pupils Per Teacher		Combined Gross Enrolment Ratio ¹	Literacy Rate ²	Residents Aged 25 Years & Over ³	
	Primary	Secondary			Mean Years of Schooling	% with Secondary or Higher Qualification
	Number		Per Cent			
1994	24	22	82.9	90.5	7.3	42.9
1999	27	20	87.1	92.2	8.1	49.6
2000	26	20	87.5	92.5	8.6	54.7
2001	25	20	87.0	93.2	8.4	52.4
2002	24	19	87.3	93.7	8.5	53.4
2003	25	19	87.4	94.2	8.6	54.0
2004	24	19	87.4	94.6	8.8	55.1

Year	Passes At			Annual Output		
	PSLE ⁴	GCE 'O' Level ⁵	GCE 'A' Level ⁶	ITE ⁷	Polytechnic ⁸	University ⁹
	Per Cent			Number		
1994	92.9	89.4	88.1	8,035	10,287	7,514
1999	96.2	92.1	86.5	8,501	14,641	9,463
2000	95.8	92.3	85.6	8,427	15,073	9,406
2001	96.7	93.5	87.9	8,263	15,966	9,859
2002	96.3	94.2	89.1	7,751	16,585	10,212
2003	97.2	94.7	90.6	8,201	16,117	10,363
2004	97.4	95.0	92.3	8,633	17,837	10,545

1 Defined as resident students enrolled in primary, secondary and pre-university classes, Institute of Technical Education (ITE) and tertiary institutions divided by resident population aged 6-20 years.

2 Refer to resident population aged 15 years and over.

3 Refer to non-students.

4 Data refer to students eligible for secondary schools.

5 At least 3 'O' level passes.

6 At least 2 'A' and 2 'AO' level passes including General Paper.

7 Refer to trainees who completed full-time institutional training or traineeship programmes.

8 Refer to graduates from full-time and part-time diploma courses.

9 From 2003, refer to first degree graduates from National University of Singapore (NUS), Nanyang Technological University (NTU) and Singapore Management University (SMU). Prior to 2003, refer to first degree graduates from NUS and NTU.

1.13 PUBLIC HOUSING AND UTILITIES USAGE

Year	Public Housing ¹				Domestic Electricity Consumption Per Resident
	Public Flats		Per Cent of Population ⁴ Living in		
	Total ² Number Managed	Per Cent ³ Owner-occupied	Public Flats	Owner-occupied Public Flats	Kilowatt Hour
1994	676,558	90	86	80	1,170.4
1999	823,760	92	86	82	1,658.7
2000	846,649	93	86	82	1,754.8
2001	863,552	93	85	82	1,803.1
2002	866,071	94	85	83	1,879.0
2003	874,183	94	84	82	1,893.1
2004	876,985	94	84	82	1,871.2

1 Refer to flats managed by Housing and Development Board.

2 As at end of year.

3 Refer to percentage of sold flats over total units under management.

4 Refers to resident population.

1.14 CULTURE, RECREATION AND PUBLIC SAFETY

Year	CableTV Subscribers ¹	TV Licences ¹	Cinema Attendances	Loan of Library Materials ²	Daily Newspaper Circulation	Crime Rate ³ Per 100,000 Population
	Per 1,000 Population					
1994	9	218	5,220	2,847	317	1,261
1999	64	210	3,739	6,266	291	911
2000	78	233	3,345	6,109	298	807
2001	91	246	3,283	6,709	396	704
2002	104	246	3,421	7,223	423	763
2003	111	249	3,499	8,336	408	799
2004	118	251	3,744	6,219	383	813

1 Indicator is computed based on resident population.

2 Loans include books, magazines and AV materials (such as Video Tapes, VCDs, CDs, CD-Roms, DVDs and music scores). Prior to 2004, data include materials borrowed from public libraries, government libraries and academic libraries. Data for 2004 include materials borrowed from public libraries only.

3 Singapore Police Force has revised the crime rates to exclude Immigration Act Offences handled by the Police.

1.15 OTHER SOCIAL INDICATORS

Year	Residential Fixed Lines	Mobile Phone Subscribers ¹	Pager Subscribers ¹	Dial-up Internet Subscribers	Private Cars	Public Buses ¹
	Per 1,000 Resident Population					
1994	276	65	226	1	104	3
1999	347	372	304	181	113	3
2000	353	608	209	595	114	3
2001	349	692	117	578	115	3
2002	340	778	70	592	113	3
2003	328	831	42	523	111	3
2004	315	911	25	492	112	3

¹ Indicator is computed based on total population.

Although rain falls throughout the year, the wettest months are usually during the first half of the Northeast Monsoon season (November to January). During the Southwest Monsoon season, from May to September, early morning sea squalls occasionally hit the island.

Annual rainfall (mm)	2145
Wettest month (mm)	304
Driest month (mm)	102

Wettest day (mm)	45
Driest day (mm)	4

The ambient air quality in Singapore is

continuously monitored by the National Environment Agency through the Automatic Air Quality Monitoring System (AAQMS). The system comprises remote air monitoring stations linked to a central Control Station (CCS) via dial-up.

The monitoring stations monitor both

analysts and equipment are deployed at the monitoring stations. The stations also monitor concentrations of major air pollutants such as sulphur dioxide, oxides of nitrogen, carbon monoxide, ozone, and respirable suspended particles (RSP).

Annual mean (µg/m³)	24
24-hour mean (µg/m³)	37
Annual mean (µg/m³)	24

The air quality in terms of pollution standards index (PSI) was 'good' on 88 per cent of the days and 'moderate' on 12 per cent of the days. The overall air pollution levels for 2004 were within the WHO and Joint Goals and the United States Environmental Protection Agency (USEPA) standards.

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

The land area of Singapore is approximately 699.7 square kilometres. This comprises the main island and a number of islets scattered off its north-east and south. The main island measures about 42 kilometres from east to west and 23 kilometres from north to south with a coastline of 150.5 kilometres.

Singapore can be geographically divided into three major areas - the central area with heavy deposits of granite in Bukit Timah, Bukit Panjang, Bukit Merah and Bukit Merah Ridge and East-West Ridge. The eastern coastal area consisting of

The main features of the climate of Singapore are the relatively stable temperature throughout the year due to its close proximity to the Equator and high humidity and abundant rainfall due to the maritime exposure of the island. The average daily maximum and minimum temperatures are around 30.9°C and 24.0°C respectively. The relative humidity is usually between 65 and 70 per cent on dry afternoons but frequently exceeds 90 per cent in the early hours of the morning before sunrise.

2 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 land area of Singapore is approximately 699.0 square kilometres. This comprises the main island and a number of islets scattered off its north-east and south. The main island measures about 42 kilometres from east to west and 23 kilometres from north to south with a coastline of 150.5 kilometres.

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

The main features of the climate of Singapore are the relatively stable temperature throughout the year due to its close proximity to the Equator and high humidity and abundant rainfall due to the maritime exposure of the island. The average daily maximum and minimum temperatures are around 30.9°C and 24.0°C respectively. The relative humidity is usually between 65 and 70 per cent on dry afternoons but frequently exceeds 90 per cent in the early hours of the morning before sunrise.

Although rain falls throughout the year, the wettest months are usually during the first part of the Northeast Monsoon season from November to January. During the Southwest Monsoon season, from May to September, early morning line squalls occasionally hit the island.

Air Pollution

The ambient air quality in Singapore is routinely monitored by the National Environment Agency through the Telemetric Air Quality Monitoring and Management System (TAQMMS). The system comprises remote air monitoring stations linked to a Central Control Station (CCS) via dial-up telephone lines.

The monitoring stations monitor both ambient and roadside air quality. Automatic analysers and equipment are deployed at the monitoring stations to measure the concentrations of major air pollutants such as sulphur dioxide, oxides of nitrogen, carbon monoxide, ozone, and respirable suspended particles (PM 10).

The air quality in terms of Pollutant Standards Index (PSI) was 'good' on 88 per cent of the days and 'moderate' on 12 per cent of the days. The overall air pollution levels for 2004 were within the WHO Long Term Goals and the United States Environmental Protection Agency (USEPA) standards.

2.1 AIR TEMPERATURE AND SUNSHINE

	1994	1999	2000	2001	2002	2003	2004
Air Temperature in Degree Celsius							
Means							
Daily Maximum	31.3	31.3	31.4	31.3	32.0	31.4	31.7
Daily Minimum	24.7	24.7	24.7	24.9	25.2	25.1	25.1
Absolute Extremes							
Maximum	34.2	34.4	34.3	34.0	34.8	34.3	35.1
Minimum	20.5	21.6	20.2	21.5	22.0	22.0	21.1
Bright Sunshine							
Daily Mean Hours	5.4	5.4	5.2	5.2	6.3	5.4	6.0

Source : National Environment Agency

2.2 MEAN RELATIVE HUMIDITY AND RAINFALL

	1994	1999	2000	2001	2002	2003	2004
Mean Relative Humidity ¹							
at 2.00 pm (Per Cent)	72	73	73	73	70	73	71
Rainfall							
Total (mm)	1,942	2,134	2,371	2,783	1,749	2,391	2,136
Maximum in a Day (mm)	178	77	128	211	84	194	178
Number of Rainy Days	160	177	188	184	139	186	147

Source : National Environment Agency

- 1 The ratio of the actual amount of water vapour in a given volume of air to the amount that would be present were the air saturated at the same temperature, expressed in percentages.

2.3 AIR POLLUTION LEVELS

	1994	1999	2000	2001	2002	2003	2004
Sulphur Dioxide ($\mu\text{g} / \text{m}^3$) (mean)							
Industrial	29	25	25	25	23	19	19
Urban	17	28	23	22	18	15	12
Sub-Urban	12	19	19	19	14	12	11
Nitrogen Dioxide ($\mu\text{g} / \text{m}^3$) (mean)							
Industrial	30	43	34	25	29	23	25
Urban	32	38	35	31	30	28	26
Sub-Urban	24	29	22	22	21	22	26
PM 10 ($\mu\text{g} / \text{m}^3$) (mean)							
Industrial	54	36	32	29	33	30	32
Urban	45	32	29	29	32	28	30
Sub-Urban	46	35	31	29	29	26	30
Carbon Monoxide (mg / m^3) (8-hourly mean)							
Industrial	1.0	0.9	0.8	1.1	0.9	0.7	0.6
Urban	0.7	0.9	1.0	1.0	0.7	0.6	0.6
Sub-Urban	0.9	0.8	0.8	0.8	0.7	0.5	0.5
Ozone ($\mu\text{g} / \text{m}^3$) (8-hourly mean)							
Industrial	15	16	12	13	14	13	20
Urban	12	22	15	23	21	18	17
Sub-Urban	18	6	14	23	24	15	18

Source : National Environment Agency

Notes : Standards for Air Quality

Sulphur Dioxide $\leq 80 \mu\text{g}/\text{m}^3$ (annual mean)

Nitrogen Dioxide $\leq 100 \mu\text{g}/\text{m}^3$ (annual mean)

PM 10 (Particulate Matter ≤ 10 microns) $\leq 50 \mu\text{g}/\text{m}^3$ (annual mean)

Carbon Monoxide $\leq 10 \text{mg}/\text{m}^3$ (annual 8-hourly mean)

Ozone $\leq 157 \mu\text{g}/\text{m}^3$ (annual 8-hourly mean)

All measurements of air quality are corrected to reference temperature of 25°C and pressure of 760 mm of mercury.

any classified as late registrants. A birth registration after the year 1960 is not valid unless it is effected within the year in which it occurred. Under the year 1960, a birth must be registered within 42 days of its occurrence. Births which are classified separately from deaths 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 and at designated government hospitals. Deaths and still-births can also be registered at the nearest Police Division or Neighbourhood Police Centre or Post Office. The registration system is computerized and the records of vital statistics are readily accessible.

Measures of natality and mortality include the crude birth and crude death rates. From 1980 onwards, these are defined as the number of live births and deaths respectively per 1,000 residents per annum. This rate is based on the population census figures for the year 1980. The crude birth rate is defined as the number of live births per 1,000 residents per annum. The crude death rate is defined as the number of deaths per 1,000 residents per annum.

Registration of marriages is compulsory in Singapore. Marriages other than Muslim marriages are registered under the Women's Charter 1961. Muslim marriages are to be lodged with the Registrar of Marriages regardless of the venue of solemnization. Muslim marriages are also registered with the Registrar of Marriages. Registration of Muslim marriages in Singapore became compulsory from 1 July 1999 when the Mohammedan Marriage Ordinance 1998 (Ordinance No XXV of 1998) was enacted. This Ordinance was subsequently repealed and replaced by the Administration of Muslim Law Act 1986.

Further information on Muslim divorces are compiled from records maintained by the Syariah Court while those on non-

Population Census with reference to the 1990 and earlier Censuses, the population comprised citizens and permanent residents who were present and domiciled in Singapore on Census Day. In addition, 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 for one year or more, were included. With the change to the register-based approach in 1990, the de jure concept was adopted. All persons registered in their places of usual residence, under a valid address, were counted. Even though they may be temporarily away on Census Day, non-residents staying or working in Singapore for one year or more were also included. Non-residents who are citizens or permanent residents but who are away for more than 12 months and have their permanent address elsewhere are not included in the resident population.

In the 1990 and earlier Censuses, the population comprised citizens and permanent residents who were present and domiciled in Singapore on Census Day. In addition, 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 for one year or more, were included. With the change to the register-based approach in 1990, the de jure concept was adopted. All persons registered in their places of usual residence, under a valid address, were counted. Even though they may be temporarily away on Census Day, non-residents staying or working in Singapore for one year or more were also included. Non-residents who are citizens or permanent residents but who are away for more than 12 months and have their permanent address elsewhere are not included in the resident population.

The Registration of Births and Deaths Act (cap 207) specifies that a birth must be registered within 42 days of the date of birth. Births registered after 42 days from occurrence

3 DEMOGRAPHY

Population Census

Singapore's first census was taken in April 1871. Regular censuses were subsequently undertaken at ten-year intervals up to 1931. The Second World War delayed the next census till 1947. In the pre-war censuses, Singapore was included as part of the Straits Settlements and, later, part of Malaya. Separate censuses for Singapore were carried out since 1947. The other three post-independence censuses were conducted in 1970, 1980 and 1990. In 1995, Singapore also conducted her first mid-decade mini census and her first registered-based Census in 2000.

In the 1990 and earlier Censuses, the population comprised citizens and permanent residents who were present and enumerated in Singapore on Census Day. In addition, 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 for one year or more, were included. With the change to the register-based approach in 2000, the "de jure" concept was adopted. All persons registered at their places of usual residence, under a valid address, were counted, even though they may be temporarily away on Census Day. Non-residents staying or working in Singapore for one year or more were also included.

Mid-Year Population Estimates

Singapore residents refer to citizens and those who have been granted permanent residence in Singapore. Total population comprises Singapore residents and non-residents.

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 3 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 and at designated government hospitals. Deaths and still-births can also be registered at the nearest Police Divisional Headquarter / Neighbourhood Police Centre or Post. The registration system is comprehensive and the records of vital statistics are virtually complete.

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

Marriages

Registration of marriages is compulsory in Singapore. Marriages other than Muslim marriages are 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.

Divorces

Pertinent information on Muslim divorces are compiled from records maintained by the Syariah Court while those on non-

3 DEMOGRAPHY (cont'd)

Muslim divorces are compiled from petitions submitted to the Family Court. Time-dependent variables, eg. the year of occurrence, age of divorcees, and duration of marriage are based on the date of registration for Muslim divorces and date decree made absolute for non-Muslim divorces.

Definitions

Rates on fertility and reproduction pertain to residents only.

Age-specific fertility rate : It refers to the number of births by mothers of a specific age group during a given year, per thousand females in that age group.

Total fertility rate (TFR): It is the average number of children that would be born per female, if all females lived to the end of their childbearing years and bore children according to a given set of age-specific fertility rates. 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: It gives the average number of daughters produced by each female during her whole reproductive period and is similarly computed as in the case of TFR, on the basis of female births only. This rate implicitly assumes that all females live to the end of their childbearing years.

Net reproduction rate: It is a refinement of the gross reproduction rate, in that it takes into account the mortality of females from birth to the end of their reproductive years. It is the average number of female children that would replace one female if current fertility and mortality levels prevail. It is also the measure of replacement of population.

Age-specific marriage rate: It is defined as the number of persons within a specific age group marrying in a given year, out of every thousand unmarried persons in the same age group. From 1984 onwards, the rates refer to Singapore residents only.

Other References

Vital statistics on births and deaths are compiled and published monthly in the "Singapore Demographic Bulletin". The annual "Report on Registration of Births and Deaths" published by the Registrar-General of Births and Deaths also provides demographic and socio-economic characteristics of parents and characteristics of births, detailed causes of death, together with statistical tables and charts.

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

3.1 POPULATION AND GROWTH RATE

Year	Total Population	Singapore Residents	Growth Rate	
			Total Population	Singapore Residents
	Thousand		Per Cent	
Census				
1901	227.6	na	na	na
1911	303.3	na	2.9	na
1921	418.4	na	3.3	na
1931	557.7	na	2.9	na
1947	938.1	na	3.3	na
1957	1,445.9	na	4.4	na
1970	2,074.5	2,013.6	2.8	na
1980	2,413.9	2,282.1	1.5	1.3
1990	3,047.1	2,735.9	2.3	1.7
2000	4,017.7	3,263.2	2.8	1.8
Mid-Year Estimates				
1991	3,135.8	2,795.4	2.9	2.2
1992	3,232.1	2,851.1	3.1	2.0
1993	3,315.4	2,906.5	2.6	1.9
1994	3,421.1	2,961.4	3.2	1.9
1995	3,525.6	3,014.6	3.1	1.8
1996	3,670.4	3,067.8	4.1	1.8
1997	3,793.7	3,121.1	3.4	1.7
1998	3,922.0	3,174.8	3.4	1.7
1999	3,950.9	3,221.9	0.7	1.5
2000 (Census)	4,017.7	3,263.2	1.7	1.3
2001	4,131.2	3,319.1	2.8	1.7
2002	4,171.3	3,378.3	1.0	1.8
2003	4,185.2	3,437.3	0.3	1.7
2004	4,240.3	3,486.9	1.3	1.4

Notes : Figures for 1980 and earlier Censuses refer to all persons present in Singapore and enumerated on Census Day. From 1990 to 1999, data have been revised following the Census 2000 register-based approach. Figures from 2001 adopt the same concept.

Total population comprises Singapore residents and non-residents. The resident population comprises Singapore citizens and permanent residents.

3.2 VITAL RATES

Year	Rate of Natural Increase	Crude Birth Rate	Crude Death Rate	Infant Mortality Rate	Total Fertility Rate	Gross Re- production Rate
	Per 1,000 Population			Per 1,000 Live-births	Per Female Aged 15-44 years	
1950	33.4	45.4	12.0	82.2	na	na
1955	36.2	44.3	8.1	49.5	na	na
1960	31.3	37.5	6.2	34.9	5.76	2.78
1965	24.1	29.5	5.4	26.3	4.66	2.27
1970	17.0	22.1	5.2	20.5	3.07	1.49
1975	12.6	17.7	5.1	13.9	2.07	1.00
1980	12.7	17.6	4.9	8.0	1.82	0.88
1985	11.7	16.6	4.9	7.6	1.61	0.78
1990	13.5	18.2	4.7	6.6	1.83	0.88
1994	11.6	16.2	4.7	4.1	1.71	0.83
1999	8.3	12.8	4.5	3.3	1.47	0.70
2000	9.2	13.7	4.5	2.5	1.60	0.77
2001	7.5	11.8	4.4	2.2	1.41	0.68
2002	7.0	11.4	4.4	2.9	1.37	0.66
2003	5.9	10.3	4.4	2.5	1.25	0.61
2004	5.8	10.1	4.3	2.0	1.24	0.60

Notes : Figures prior to 1980 refer to total population.
From 1980, figures refer to Singapore residents (citizens and permanent residents).

3.3 MID-YEAR ESTIMATES OF SINGAPORE RESIDENTS BY AGE GROUP AND SEX

Age Group (Years)	Thousand						
	1994	1999	2000	2001	2002	2003	2004
Males							
Total	1,490.6	1,611.6	1,630.3	1,656.0	1,682.8	1,710.1	1,732.8
0 - 4	127.1	114.0	110.3	110.0	108.0	105.3	102.7
5 - 9	115.8	131.2	129.9	128.4	128.8	127.8	124.8
10 - 14	107.6	117.9	121.7	127.5	132.6	135.0	134.3
15 - 19	103.3	108.0	109.1	109.1	108.3	111.3	118.3
20 - 24	119.8	106.6	106.5	107.7	108.5	110.7	110.7
25 - 29	135.6	131.2	129.5	127.0	126.5	122.5	120.4
30 - 34	155.9	146.6	142.2	139.4	140.0	142.1	143.7
35 - 39	151.9	162.6	162.3	162.1	160.8	159.0	154.3
40 - 44	127.5	154.1	158.0	161.0	162.4	164.3	166.1
45 - 49	93.0	127.9	132.7	138.9	145.1	150.4	154.5
50 - 54	67.1	92.0	104.1	112.8	116.1	121.0	126.6
55 - 59	55.0	64.9	62.2	62.7	71.6	80.8	89.4
60 - 64	45.3	51.9	54.4	58.1	60.1	60.9	61.6
65 - 69	35.3	41.0	42.7	43.4	43.2	44.5	47.4
70 - 74	23.0	30.4	31.9	32.8	33.2	34.3	35.3
75 - 79	14.3	16.7	17.9	19.5	21.0	22.7	24.0
80 & Over	13.1	14.6	14.9	15.7	16.4	17.4	18.9
Females							
Total	1,470.8	1,610.3	1,632.9	1,663.2	1,695.5	1,727.2	1,754.1
0 - 4	119.2	106.3	102.9	102.3	100.8	98.5	96.5
5 - 9	108.0	123.3	122.1	121.1	120.6	120.3	116.9
10 - 14	99.6	110.3	113.7	119.5	125.2	127.3	126.9
15 - 19	96.9	100.9	102.3	102.0	101.7	105.0	111.8
20 - 24	119.6	106.7	106.1	107.3	108.2	109.6	108.7
25 - 29	137.9	139.4	138.1	136.2	136.7	133.8	131.9
30 - 34	153.8	150.7	148.7	148.1	150.2	153.8	156.0
35 - 39	148.4	160.4	160.7	161.6	161.1	160.4	158.2
40 - 44	123.5	151.5	155.1	157.7	159.3	161.3	163.5
45 - 49	90.9	124.8	129.9	136.2	142.3	147.6	152.0
50 - 54	66.9	91.1	103.0	111.7	114.9	119.1	124.0
55 - 59	55.4	66.2	63.3	63.3	72.0	81.4	89.7
60 - 64	46.4	54.0	56.7	61.0	63.8	64.5	64.6
65 - 69	37.5	44.2	46.4	47.2	47.0	48.4	51.7
70 - 74	26.4	34.2	36.1	37.5	38.2	39.1	40.5
75 - 79	19.1	21.5	22.2	23.8	25.5	27.4	29.5
80 & Over	21.4	24.9	25.5	26.8	28.1	29.8	31.4

3.4

SINGAPORE RESIDENTS BY AGE GROUP, ETHNIC GROUP
AND SEX, END JUNE 2004

Ethnic Group / Sex	Total	0 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	Thousand
									35 - 39
Total	3,486.9	199.2	241.7	261.3	230.1	219.4	252.3	299.7	312.5
Males	1,732.8	102.7	124.8	134.3	118.3	110.7	120.4	143.7	154.3
Females	1,754.1	96.5	116.9	126.9	111.8	108.7	131.9	156.0	158.2
Chinese	2,650.1	135.7	168.3	183.3	163.9	163.1	199.1	232.4	234.9
Males	1,310.5	70.0	87.0	94.5	84.7	82.5	95.8	110.8	115.1
Females	1,339.6	65.7	81.3	88.8	79.3	80.6	103.4	121.6	119.9
Malays	479.3	36.5	44.2	49.6	42.8	35.3	29.0	33.3	41.2
Males	240.1	18.9	22.9	25.5	21.9	18.1	14.3	16.3	20.2
Females	239.2	17.7	21.3	24.1	20.9	17.2	14.7	17.0	21.0
Indians	293.1	21.6	23.6	23.5	19.6	17.9	20.4	27.6	29.0
Males	151.6	11.1	12.0	11.9	9.9	8.7	8.9	14.1	15.8
Females	141.5	10.5	11.6	11.6	9.7	9.2	11.5	13.6	13.2
Others	64.3	5.4	5.7	4.8	3.7	3.1	3.8	6.3	7.4
Males	30.6	2.7	2.8	2.4	1.8	1.4	1.5	2.5	3.3
Females	33.7	2.6	2.8	2.4	1.9	1.7	2.3	3.8	4.1

Ethnic Group / Sex	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	Thousand
									80 & Over
Total	329.6	306.5	250.6	179.2	126.2	99.1	75.8	53.5	50.3
Males	166.1	154.5	126.6	89.4	61.6	47.4	35.3	24.0	18.9
Females	163.5	152.0	124.0	89.7	64.6	51.7	40.5	29.5	31.4
Chinese	250.0	241.3	202.6	147.2	104.7	80.1	59.8	41.2	42.3
Males	125.5	121.4	102.6	73.5	51.0	38.4	26.8	16.6	14.3
Females	124.5	120.0	100.0	73.7	53.7	41.7	33.0	24.6	28.0
Malays	45.4	37.3	26.9	17.4	11.4	10.8	8.1	5.9	4.2
Males	22.8	18.7	13.2	8.5	5.2	5.1	3.6	3.0	2.2
Females	22.6	18.6	13.8	8.9	6.2	5.7	4.5	2.9	2.0
Indians	27.5	22.7	17.2	11.9	8.4	6.8	6.8	5.5	3.1
Males	14.5	11.9	8.7	6.0	4.5	3.3	4.3	4.0	2.1
Females	13.0	10.9	8.5	5.9	3.9	3.5	2.5	1.5	0.9
Others	6.7	5.1	3.8	2.7	1.7	1.4	1.1	0.9	0.7
Males	3.2	2.5	2.1	1.5	0.9	0.6	0.6	0.4	0.3
Females	3.5	2.5	1.7	1.2	0.8	0.7	0.6	0.5	0.4

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

3.5 AGE-SPECIFIC AND TOTAL FERTILITY RATES

Age Group (Years)	1994	1999	2000	2001	2002	2003	2004
Per Thousand Resident Females							
15 - 19	7.4	8.4	8.8	8.4	8.0	6.6	6.5
20 - 24	46.9	37.2	42.2	35.7	34.6	32.3	32.1
25 - 29	129.1	105.0	110.0	96.1	91.4	81.9	80.2
30 - 34	109.1	97.5	107.7	94.6	95.9	88.3	88.3
35 - 39	42.6	38.5	43.3	39.4	38.0	35.5	34.8
40 - 44	6.7	6.4	7.6	6.8	5.8	6.0	6.2
Per Resident Female							
Total Fertility Rate	1.71	1.47	1.60	1.41	1.37	1.25	1.24

Note : The age-specific and total fertility rates were computed based on resident live-births per 1,000 resident females and per resident female respectively.

Resident live-births refer to those with at least one parent who is a Singapore citizen or permanent resident.

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

	1994	1999	2000	2001	2002	2003	2004
Number							
Total	49,554	43,336	46,997	41,451	40,760	37,485	37,174
Males	25,541	22,572	24,509	21,494	20,977	19,268	19,221
Females	24,013	20,763	22,488	19,957	19,780	18,217	17,953
Birth Order							
1st	20,438	18,778	19,930	17,595	17,524	16,408	16,624
2nd	17,648	15,170	16,948	14,501	14,873	13,457	13,330
3rd	8,561	6,671	7,164	6,651	6,009	5,490	5,112
4th	2,223	1,970	2,134	1,909	1,674	1,498	1,481
5th	496	523	557	524	446	417	405
6th & over	185	221	260	266	230	213	221
Place of Occurrence							
Public Sector Hospitals	22,007	20,091	21,336	19,356	19,514	17,523	17,107
Private Sector Hospitals	27,396	23,096	25,515	21,943	21,125	19,841	19,942
Nursing Homes	-	-	-	-	-	-	-
Other Locations	151	149	146	152	121	121	125

Source : Registry of Births and Deaths

Note : Figures for males and females may not add up to the total due to unknown sex.

Data include birth order not stated.

Data for 2004 are based on date of registration.

3.7 MALE AND FEMALE AGE-SPECIFIC DEATH RATES

Age Group (Years)	Per Thousand Residents						
	1994	1999	2000	2001	2002	2003	2004
Males							
Total	5.2	4.9	4.9	4.8	4.8	4.9	4.7
Under 1 ¹	4.3	3.2	2.8	2.4	3.5	2.8	2.2
1 - 4	0.4	0.2	0.3	0.3	0.2	0.2	0.2
5 - 9	0.2	0.1	0.1	0.1	0.1	0.2	0.1
10 - 14	0.3	0.2	0.3	0.1	0.1	0.2	0.1
15 - 19	0.5	0.4	0.3	0.4	0.3	0.5	0.3
20 - 24	0.7	0.7	0.7	0.7	0.6	0.7	0.7
25 - 29	0.7	0.6	0.6	0.7	0.6	0.6	0.4
30 - 34	0.8	0.7	0.8	0.7	0.6	0.8	0.7
35 - 39	1.3	1.0	1.3	1.0	1.1	0.9	0.9
40 - 44	2.0	1.7	1.8	1.6	1.6	1.6	1.6
45 - 49	3.2	2.5	2.7	2.5	2.7	2.7	2.3
50 - 54	6.0	4.7	4.2	4.6	4.3	4.1	4.1
55 - 59	10.5	8.3	7.8	8.1	8.4	7.4	7.0
60 - 64	17.8	15.9	14.3	13.2	13.0	12.8	11.9
65 - 69	30.4	24.8	24.1	23.2	22.4	22.1	20.4
70 & Over	70.4	63.8	62.5	58.3	57.7	57.7	54.9
Females							
Total	4.2	4.1	4.1	3.9	4.0	3.9	3.8
Under 1 ¹	4.0	3.4	2.2	2.1	2.3	2.2	1.8
1 - 4	0.3	0.2	0.3	0.3	0.2	0.2	0.2
5 - 9	0.1	0.1	0.2	0.1	0.1	0.1	0.1
10 - 14	0.2	0.2	0.2	0.1	0.1	0.1	0.1
15 - 19	0.3	0.3	0.2	0.3	0.3	0.2	0.3
20 - 24	0.3	0.3	0.2	0.2	0.3	0.4	0.3
25 - 29	0.3	0.3	0.3	0.2	0.3	0.2	0.2
30 - 34	0.4	0.4	0.5	0.5	0.4	0.3	0.3
35 - 39	0.8	0.6	0.7	0.6	0.7	0.5	0.5
40 - 44	1.1	1.0	1.0	0.9	0.8	0.8	1.0
45 - 49	2.1	1.9	1.7	1.5	1.5	1.5	1.5
50 - 54	3.6	2.6	2.7	2.6	2.8	2.6	2.5
55 - 59	6.6	4.8	4.3	4.6	4.2	3.8	4.4
60 - 64	10.6	8.2	8.1	7.2	7.6	6.9	6.6
65 - 69	17.0	14.9	15.0	12.8	12.9	12.1	11.7
70 & Over	54.6	51.6	50.0	47.5	47.6	46.6	42.4

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

3.8 DEATHS BY BROAD GROUP OF CAUSES

Causes of Death	Number						
	1994	1999	2000	2001	2002	2003	2004
Total	14,946	15,516	15,693	15,367	15,820	16,036	15,860
Infective & Parasitic Diseases	366	311	276	296	289	250	296
of which : Tuberculosis	101	107	101	104	92	79	79
Neoplasms	3,785	4,168	4,278	4,384	4,465	4,187	4,353
of which: Cancer	3,756	4,134	4,238	4,339	4,425	4,146	4,303
Endocrine, Nutritional & Metabolic Diseases	374	444	458	629	530	473	545
of which : Diabetes	334	350	355	512	425	373	474
Diseases of the Blood & Blood-Forming Organs	24	50	54	52	44	39	33
Diseases of the Nervous System & Sense Organs	71	105	107	122	94	67	81
Diseases of the Circulatory System	5,460	5,810	5,749	5,588	5,401	5,727	5,423
of which : Heart & Hypertensive Diseases	3,653	4,061	3,976	4,075	3,856	4,067	3,714
Cerebrovascular Disease	1,692	1,633	1,625	1,409	1,393	1,556	1,562
Diseases of the Respiratory System	2,564	2,357	2,505	2,239	2,763	2,992	2,851
of which : Pneumonia	1,670	1,641	1,794	1,540	2,079	2,340	2,232
Bronchitis	12	14	15	32	30	11	7
Diseases of the Digestive System	394	412	326	307	339	383	356
Diseases of the Genito-Urinary System	444	470	486	487	594	587	641
Congenital Anomalies	148	95	85	79	69	59	49
of which : Congenital Anomalies of Heart	90	48	48	33	40	32	28
Certain Causes of Perinatal Mortality	68	52	48	24	52	41	22
Accidents, Poisonings & Violence	1,122	1,066	1,133	1,036	1,053	1,062	1,028
of which :							
Motor Vehicle Accidents	265	215	221	200	203	220	205
Other Accidents	220	240	245	237	200	213	232
Suicides	347	309	348	357	361	346	381
Other Diseases & Causes	126	176	188	124	127	167	182
of which : Senility	2	17	5	5	1	1	1

Source : Registry of Births and Deaths

Note : Deaths are classified according to the Ninth (1975) Revision of the International Classification of Diseases.

3.9 AGE AT FIRST MARRIAGE AND DIVORCE

	Years						
	1994	1999	2000	2001	2002	2003	2004
Mean Age at First Marriage ¹							
Grooms	29.4	29.7	29.8	29.9	30.0	30.2	30.5
Brides	26.3	26.7	26.8	26.8	26.9	27.2	27.3
Mean Age of Divorcees ²							
Males	38.3	39.7	39.7	39.8	39.8	40.0	na
Females	34.9	36.2	36.3	36.3	36.5	36.5	na

1 Marriages between spinsters and bachelors.

2 Include annulments of marriages.

3.10 AGE-SPECIFIC MARRIAGE RATES

Age Group (Years)	1994	1999	2000	2001	2002	2003	2004
Males (per thousand unmarried male residents)							
15 - 19	1.4	1.4	1.7	1.7	1.5	1.2	1.1
20 - 24	29.5	28.7	24.8	21.9	20.4	17.8	18.2
25 - 29	106.7	116.2	109.3	97.4	99.7	93.0	83.1
30 - 34	108.6	106.8	102.2	100.9	99.4	100.3	101.3
35 - 39	76.6	68.5	66.8	70.4	67.0	59.7	74.6
40 - 44	54.7	49.1	45.1	43.6	41.0	39.2	46.1
General Marriage Rate	54.6	54.7	49.5	46.9	47.5	44.0	43.1
Females (per thousand unmarried female residents)							
15 - 19	7.9	7.2	7.5	6.9	6.3	5.2	4.9
20 - 24	70.1	65.4	57.8	50.9	49.5	43.5	41.5
25 - 29	130.1	143.5	137.1	117.7	119.8	118.2	105.1
30 - 34	75.8	80.7	72.0	66.5	70.6	68.0	69.3
35 - 39	38.4	37.3	33.6	32.2	31.6	27.3	31.4
40 - 44	16.5	17.8	17.6	14.5	13.8	15.2	15.6
General Marriage Rate	57.4	57.2	51.5	46.3	47.8	44.3	42.0

3.11 GROOMS BY AGE GROUP

Age Group (Years)	Number						
	1994	1999	2000	2001	2002	2003	2004
Women's Charter							
Total	20,243	21,561	18,550	18,279	19,257	18,091	18,091
Under 20	79	84	85	97	62	51	41
20 - 24	2,639	2,424	1,889	1,767	1,705	1,447	1,427
25 - 29	8,533	9,604	8,025	7,784	8,333	7,532	6,882
30 - 34	5,311	4,970	4,439	4,452	4,872	4,865	5,028
35 - 39	2,232	2,360	2,121	2,087	2,207	2,035	2,194
40 - 44	854	1,133	1,089	1,107	1,065	1,092	1,214
45 - 49	324	528	501	523	545	559	666
50 & Over	271	458	401	462	468	510	639
Muslim Law Act							
Total	4,411	4,087	4,011	4,001	3,941	3,871	4,098
Under 20	73	76	103	98	95	88	88
20 - 24	890	739	688	697	666	656	711
25 - 29	1,806	1,542	1,479	1,451	1,497	1,391	1,377
30 - 34	868	755	705	733	723	748	784
35 - 39	382	427	442	448	422	441	471
40 - 44	168	250	278	245	232	231	278
45 - 49	81	140	140	146	148	155	185
50 & Over	143	158	176	183	158	161	204

Source : Registry of Marriages

Registry of Muslim Marriages

Note : Data on marriages registered under the Women's Charter exclude marriages previously solemnized outside Singapore or under religious and customary rites.

3.12

BRIDES BY AGE GROUP

Age Group (Years)	Number						
	1994	1999	2000	2001	2002	2003	2004
Women's Charter							
Total	20,243	21,561	18,550	18,279	19,257	18,091	18,091
Under 20	519	496	452	428	357	294	322
20 - 24	7,257	6,387	5,159	5,034	5,037	4,260	4,088
25 - 29	8,218	9,748	8,509	8,297	9,111	8,723	8,307
30 - 34	2,709	2,968	2,662	2,804	3,048	3,070	3,397
35 - 39	1,018	1,145	1,028	1,032	967	994	1,143
40 - 44	336	484	463	409	407	437	448
45 - 49	124	210	174	160	203	194	226
50 & Over	62	123	103	115	127	119	160
Muslim Law Act							
Total	4,411	4,087	4,011	4,001	3,941	3,871	4,098
Under 20	402	383	431	393	390	326	361
20 - 24	1,815	1,441	1,327	1,416	1,362	1,379	1,405
25 - 29	1,175	1,162	1,139	1,123	1,159	1,075	1,143
30 - 34	547	460	463	419	422	469	471
35 - 39	251	320	302	310	276	260	298
40 - 44	118	173	182	178	185	179	220
45 - 49	58	93	96	100	92	124	128
50 & Over	45	55	71	62	55	59	72

Source : Registry of Marriages

Registry of Muslim Marriages

Note : Data on marriages registered under the Women's Charter exclude marriages previously solemnized outside Singapore or under religious and customary rites.

3.13 MARRIAGES REGISTERED BY ETHNIC GROUP OF COUPLE

Ethnic Group							Number
	1994	1999	2000	2001	2002	2003	2004
Women's Charter							
Total	20,243	21,561	18,550	18,279	19,257	18,091	18,091
Chinese	17,681	18,689	15,737	15,150	16,112	14,414	14,294
Indians	1,044	877	844	827	859	657	668
Others	144	217	208	344	307	264	301
Inter-ethnic	1,374	1,778	1,761	1,958	1,979	1,621	1,723
Muslim Law Act							
Total	4,411	4,087	4,011	4,001	3,941	3,871	4,098
Malays	3,381	2,919	2,806	2,913	2,837	2,749	2,816
Indians	222	218	221	210	214	200	191
Others	13	22	21	22	27	29	51
Inter-ethnic	795	928	963	856	863	893	1,040

Source : Registry of Marriages

Registry of Muslim Marriages

Note : Data on marriages registered under the Women's Charter exclude marriages previously solemnized outside Singapore or under religious and customary rites.

Total under Women's Charter for 2003 and 2004 include couples whose ethnic group was not reported.

3.14 AGE-SPECIFIC DIVORCE RATES

Age Group (Years)	1993	1998	1999	2000	2001	2002	2003
Males (per thousand married resident males)							
20 - 24	12.7	28.0	32.7	27.1	30.4	43.8	50.3
25 - 29	13.9	18.9	15.6	15.0	15.1	18.0	20.7
30 - 34	10.0	11.7	11.2	11.1	11.3	13.8	14.4
35 - 39	7.9	9.9	9.2	9.3	7.9	10.7	11.7
40 - 44	6.2	7.6	7.4	7.0	6.9	7.1	8.5
45 - 49	4.5	6.1	6.0	5.9	5.6	5.7	6.5
50 & Over	1.9	3.1	2.7	2.7	2.4	2.7	3.1
General Divorce Rate	6.0	7.5	6.9	6.7	6.3	7.1	7.8
Females (per thousand married resident females)							
20 - 24	17.4	29.0	23.6	22.3	25.0	29.0	37.7
25 - 29	11.5	14.8	14.0	13.6	14.5	16.6	17.7
30 - 34	9.1	11.0	10.2	10.1	9.3	12.0	13.1
35 - 39	6.6	8.3	8.0	7.8	7.3	8.3	9.9
40 - 44	4.8	6.7	6.4	6.0	5.6	6.4	7.1
45 - 49	3.6	5.7	4.8	4.6	4.5	4.7	5.0
50 & Over	1.2	2.1	2.0	2.0	1.9	2.0	2.5
General Divorce Rate	6.1	7.6	7.0	6.7	6.4	7.2	8.0

Note : Figures include annulments of marriages.

3.15

MALE DIVORCEES BY AGE GROUP

Age Group (Years)								Number
	1994	1999	2000	2001	2002	2003	2004	
Women's Charter								
Total ¹	2,690	3,770	3,553	3,743	4,293	4,456	4,531	
Under 20	-	-	-	-	-	-	-	na
20 - 24	28	33	37	32	33	36	na	
25 - 29	317	420	381	404	418	426	na	
30 - 34	621	737	684	765	903	855	na	
35 - 39	615	769	725	727	907	912	na	
40 - 44	476	661	561	633	640	719	na	
45 - 49	310	468	456	478	517	574	na	
50 & Over	265	477	488	527	613	707	na	
Muslim Law Act								
Total	1,082	1,563	1,607	1,347	1,532	2,105	1,855	
Under 20	6	4	5	3	6	9	3	
20 - 24	51	62	72	69	69	95	123	
25 - 29	192	204	229	192	203	276	258	
30 - 34	305	322	286	253	273	421	386	
35 - 39	223	343	354	263	378	464	382	
40 - 44	133	251	284	251	265	373	295	
45 - 49	69	167	167	158	157	217	178	
50 & Over	103	210	210	158	181	250	230	

Source : Subordinate Courts

Syariah Court

Note : Figures for divorces under Women's Charter include annulments of marriages.

1 Includes age not stated.

3.16 FEMALE DIVORCEES BY AGE GROUP

							Number
Age Group (Years)	1994	1999	2000	2001	2002	2003	2004
Women's Charter							
Total ¹	2,690	3,770	3,553	3,743	4,293	4,456	4,531
Under 20	3	1	1	-	2	1	na
20 - 24	152	170	150	166	141	176	na
25 - 29	569	764	725	789	828	779	na
30 - 34	648	829	768	791	1,011	1,040	na
35 - 39	565	698	602	674	750	811	na
40 - 44	389	516	490	486	551	589	na
45 - 49	180	330	326	358	383	396	na
50 & Over	117	255	274	300	340	434	na
Muslim Law Act							
Total	1,082	1,563	1,607	1,347	1,532	2,105	1,855
Under 20	25	19	24	25	30	33	29
20 - 24	151	158	189	169	171	240	242
25 - 29	238	288	297	270	274	399	373
30 - 34	272	331	315	231	305	427	400
35 - 39	176	294	323	257	294	398	303
40 - 44	109	237	204	195	222	290	230
45 - 49	51	117	120	102	120	171	144
50 & Over	60	119	135	98	116	147	134

Source : Subordinate Courts
Syariah Court

Note : Figures for divorces under Women's Charter include annulments of marriages.

1 Includes age not stated.

3.17 DIVORCES BY ETHNIC GROUP OF COUPLE

Ethnic Group	Number						
	1994	1999	2000	2001	2002	2003	2004
Women's Charter							
Total ¹	2,690	3,770	3,553	3,743	4,293	4,456	4,531
Chinese	2,322	3,103	2,899	3,100	3,465	3,648	na
Indians	209	259	211	222	256	280	na
Others	22	198	226	189	256	234	na
Inter-ethnic	137	210	217	232	316	294	na
Muslim Law Act							
Total	1,082	1,563	1,607	1,347	1,532	2,105	1,855
Malays	912	1,183	1,131	1,015	1,148	1,640	1,425
Indians	31	52	76	55	93	86	68
Others	1	14	40	12	8	6	10
Inter-ethnic	138	314	360	265	283	373	352

Source : Subordinate Courts
Syariah Court

Note : Figures for divorces under the Women's Charter include annulments of marriage.

¹ Includes age not stated.

LABOUR AND PRODUCTIVITY

Annual Labour Force Survey (LFS) and the Household Survey (HS). The data refer to persons aged fifteen years and over. The reference period refers to the full calendar week preceding the date of interview.

with during the reference week (i) was available for one hour or more either for pay, profit or family gain; (ii) had a job or business but was temporarily absent because of illness, injury, mechanical breakdown, management dispute or other reasons; and (iii) was not working during the reference period but were available for work and were looking for work. Persons in the process of starting a new business or taking over an existing one were also included. Persons who were engaged or employed during the reference week but were not working during the reference week were also included. Persons who were engaged or employed during the reference week but were not working during the reference week were also included. Persons who were engaged or employed during the reference week but were not working during the reference week were also included.

Age-Sex Specific Labour Force Participation Rate is the economically active population as a percentage of the total population in the specific age-sex group. The LFS and HS provide a breakdown of the labour force by age and sex, and by economic activity. The LFS and HS provide a breakdown of the labour force by age and sex, and by economic activity.

development, productivity, and labour force participation. The data refer to persons aged fifteen years and over. The reference period refers to the full calendar week preceding the date of interview.

Statistics on average monthly earnings of workers are compiled based on the payroll of CPE contributors. The data include all full-time and part-time employees who have contributed to the CPE but exclude all individuals who are employed persons who have made voluntary contributions. Statistics on weekly hours worked are compiled from surveys conducted

of 32 employers. The data refer to persons aged fifteen years and over. The reference period refers to the full calendar week preceding the date of interview. The data include all full-time and part-time employees who have contributed to the CPE but exclude all individuals who are employed persons who have made voluntary contributions. Statistics on weekly hours worked are compiled from surveys conducted

Workers' Development Agency (WDA) is a statutory body established in 1971 to assist employers and employees in the Singapore labour market. The WDA provides training, counselling, and other services to employers and employees. The WDA also provides information on the labour market and on the needs of employers and employees. The WDA also provides information on the labour market and on the needs of employers and employees.

4 LABOUR AND PRODUCTIVITY

Labour Force

Labour force data are based on the mid-year Labour Force Surveys except for 1990, 1995 and 2000 which were based on Population Censuses and the mid-decade (1995) General Household Survey (GHS). The data refer to persons aged fifteen years and over. The reference period refers to the full calendar week preceding the date of interview.

Definitions

Employed Persons : Refer to those who, during the reference week (i) worked for one hour or more either for pay, profit or for family gains or (ii) had a job or business but were temporarily absent because of illness, injury, mechanical breakdown, labour-management dispute or other reasons.

Unemployed Persons : Refer to those who did not work during the reference period but were available for work and were looking for a job with pay. Persons in the process of starting their own business or taking up a new job after the reference period were also considered as unemployed.

Economically Active Persons : Refer to those who were either employed or unemployed during the reference week.

Economically Inactive Persons : Refer to those who were not working, did not have a job to return to and were not looking for a job during the reference period.

Age-Sex Specific Labour Force Participation Rate : Refers to the economically active population as a percentage of the total population in the specific age-sex groups.

Unemployment Rate : Refers to unemployed persons as a percentage of the total economically active population.

Labour Productivity : Refers to the output per worker.

Monthly Earnings and Hours Worked

Statistics on average monthly earnings of workers are compiled based on the payroll of CPF contributors. The data include all full-time and part-time employees who have contributed to the CPF but exclude all identifiable self-employed persons who have made voluntary CPF contributions. Statistics on weekly hours worked are compiled from surveys conducted by the Ministry of Manpower. The surveys cover private sector establishments with at least 25 employees.

Definitions

Monthly Earnings : Refers to all remuneration received before deduction of the employee's CPF contributions and personal income tax. They include basic wage, overtime payments, commissions, allowances and other monetary payments, annual wage supplement (AWS) and variable bonuses but exclude employer's CPF contributions.

Weekly Hours : Refer to the total number of paid hours worked during a week. It is the sum of standard hours and paid overtime hours worked.

Workforce Development Agency (WDA)

Singapore citizens and permanent residents who seek assistance to find employment, and employers who have job vacancies can register with the CareerLink centres operated by the Singapore Workforce Development Agency (WDA) and its Distributed CareerLink Network (DCN) partners, comprising the Community Development Councils, National Trades Union Congress, Singapore National Employers Federation and other self-help groups. The service is provided free of charge.

4 LABOUR AND PRODUCTIVITY (cont'd)

It is, however, not compulsory for unemployed persons to register for jobs or employers to notify job vacancies to WDA or its DCN partners.

Definitions

An unemployed registrant refers to an unemployed job-seeker who is registered for employment assistance with the CareerLink centres operated by WDA and its DCN partners. The registration is valid for 2 months, after which the job-seeker has to re-register if he wants further assistance.

A new unemployed registrant refers to an unemployed job-seeker who is either seeking employment assistance the first time or is re-registering for employment assistance after the expiry of his 2-month registration period.

Statistics on job seekers and vacancies are compiled by the Employment Facilitation Division of the WDA.

Multifactor Productivity

Multifactor productivity, or MFP, measures relate output to a combined set of two or more factor inputs, usually labour and capital. A change in multifactor productivity measures the change in output that cannot be accounted for by the change in combined factor inputs. MFP measures therefore reflect the combined effects of factors such as technical progress, improvements in management practices, innovations, better organisation of the shop-floor, and the diffusion of technology across firms.

Central Provident Fund

The Central Provident Fund (CPF) was set up in 1955 to provide financial security for workers in their old age. Over the years, it has evolved into a comprehensive social security

savings scheme. The overall scope and benefits of the CPF encompass: Retirement, Healthcare, Home Ownership, Family Protection and Asset Enhancement.

Both the worker and his employer contribute to the worker's savings with the CPF. Different contribution rates apply to workers in different age groups. The current CPF contribution rates are as follows:

Age	Employer %	Employee %	Total %
50 years and below	13	20	33
Above 50 to 55 years	11	19	30
Above 55 to 60 years	6	12.5	18.5
Above 60 to 65 years	3.5	7.5	11
Above 65 years	3.5	5	8.5

Each member has three accounts – the Ordinary, Medisave and Special Account. At age 55, the member also has a Retirement Account under the CPF Minimum Sum Scheme. CPF savings can be used under the various CPF schemes. *Ordinary Account* savings can be used for housing, approved investments, CPF insurance and education. *Medisave Account* savings can be used for hospitalization and approved medical expenses, and to pay for premiums of approved medical insurance for members and their dependants. *Special Account* is for old age, contingency purposes and investment in retirement-related financial products.

Savings in the CPF earn interest. The rate is based on the 12-month fixed deposit and month-end savings rates of the major local banks and it is revised quarterly. The CPF Act guarantees members a minimum interest rate of 2.5% p.a. on their CPF savings. Savings in the Special, Medisave and Retirement Accounts earn an additional interest of 1.5

4 LABOUR AND PRODUCTIVITY (cont'd)

percentage points above the prevailing CPF interest rate.

Members can withdraw their CPF savings when they reach 55 years of age after setting aside the CPF Minimum Sum in their Retirement Account. This is to ensure that they have a minimum regular income to meet their basic needs during retirement. The CPF Minimum Sum from 1 July 2004 is \$84,000 (or \$84,500 after adjustment for inflation). It will be increased gradually until it reaches \$120,000 on 1 July 2013. In addition, members who can set aside the full CPF Minimum Sum may have to set aside the Medisave Required Amount, which is \$5,000 (or \$5,100 after adjustment for inflation) for the period 1 January to 31 December 2005. This is to ensure that members set aside sufficient savings for the healthcare needs in their retirement.

Standards, Productivity and Innovation Board (SPRING Singapore)

The mission of SPRING Singapore is to enhance the competitiveness of enterprises for a vibrant Singapore economy. Its vision is to develop dynamic and innovative Singapore enterprises. SPRING Singapore focuses on four strategic thrusts in enhancing the competitiveness of enterprises.

Strategic Thrust 1: Nurture a pro-business environment

SPRING Singapore partners the private sector to promote an entrepreneurial mindset and culture, and fosters the growth of start-ups through relevant initiatives.

SPRING Singapore promotes the review and removal of rules and regulations that stifle enterprise growth. It also facilitates efficient enterprise access to finance, land/space, manpower, technology and business support services. SPRING Singapore serves as the first stop for SMEs that need information and assistance for upgrading.

SPRING Singapore administers the Weights & Measures Act to protect consumers by ensuring that market transactions based on weights and measures are accurate. It also administers the Singapore Consumer Protection Registration Scheme to ensure that consumer electrical, electronic and gas appliances and products used in homes are safe.

Strategic Thrust 2: Support and drive the development of key industries

SPRING Singapore works with other agencies to upgrade the local industries in key clusters such as retail, F&B and furniture through the adoption of industry best practices and upgrading of industries capabilities.

Strategic Thrust 3: Enhance productivity & innovation and capabilities of enterprises

SPRING Singapore enterprises with capabilities to upgrade their know-how, and creates conditions that encourage a productivity & innovation and service focus in enterprises, and catalyses enterprise development through the plugging of financing gaps in enterprises.

Strategic Thrust 4: Increase access to markets and business opportunities

SPRING Singapore helps enterprises gain access to markets by reducing technical barriers to trade, providing quality assurance for Singapore products/services and linking local enterprises to business opportunities, both locally and overseas.

Trade Unions

Data on trade unions and membership are compiled from returns submitted to the Registrar of Trade Unions and cover both employees' and employers' unions.

4 LABOUR AND PRODUCTIVITY (cont'd)

Trade Disputes

Data on trade disputes relate only to cases referred to the Labour Relations Department of the Ministry of Manpower.

A trade dispute refers to any dispute between/among workers and employers regarding employment, non-employment, the terms of employment or the conditions of work.

Industrial Stoppages

Data on industrial stoppages refer to cases reported to and handled by the Labour

Relations Department of the Ministry of Manpower and include both strikes and lockouts.

Other References

Similar data are in the "Singapore Yearbook of Manpower Statistics" published by the Manpower Research and Statistics Department of the Ministry of Manpower.

Detailed statistics on the labour force are published in the "Report on Labour Force in Singapore."

4.1 LABOUR FORCE

	1994	1999	2000	2001	2002	2003	2004
Labour Force ('000)	1,693.1	1,976.0	2,192.3	2,119.7	2,128.5	2,150.1	2,183.3
Males	1,012.0	1,138.6	1,324.3	1,190.4	1,202.0	1,188.1	1,202.3
Females	681.0	837.4	868.0	929.2	926.5	962.0	981.0
Employed ('000)	1,649.3	1,885.9	2,094.8	2,046.7	2,017.4	2,033.7	2,066.9
Males	987.1	1,087.2	1,270.8	1,148.7	1,137.1	1,122.6	1,137.7
Females	662.2	798.6	824.0	898.0	880.3	911.1	929.2
Unemployed ('000)	43.8	90.1	97.5	72.9	111.2	116.4	116.4
Males	24.9	51.4	53.5	41.7	65.0	65.6	64.6
Females	18.9	38.7	44.0	31.2	46.2	50.8	51.9
Labour Force Participation Rate (%)	64.9	64.7	68.6	65.4	64.7	64.2	64.2
Males	79.6	77.8	81.1	77.8	77.2	75.8	75.6
Females	50.9	52.7	55.5	54.3	53.4	53.9	54.2
Unemployment Rate ¹ (%)	1.9	3.6	3.5	2.7	4.2	4.4	4.3

Source : Ministry of Manpower (Other than 2000)

Notes : Refers to persons aged 15 years and over as at June of the respective years. Data for 2000 are from the Census of Population.

Data exclude construction workers living at worksites and workers who commute daily from abroad to work in Singapore, except for year 2000.

¹ Seasonally adjusted.

4.2 AGE-SPECIFIC LABOUR FORCE PARTICIPATION RATES

Age Group (Years)	1994	1999	2000	2001	2002	2003	2004
Total	64.9	64.7	68.6	65.4	64.7	64.2	64.2
15 - 19	23.3	17.2	19.1	17.6	13.8	13.0	13.7
20 - 24	79.0	74.0	77.4	73.7	70.1	71.6	71.0
25 - 29	87.5	87.1	91.1	88.8	88.5	89.6	88.4
30 - 34	80.6	83.6	87.1	84.3	85.1	86.2	86.2
35 - 39	78.2	79.4	82.0	80.3	80.3	81.7	82.2
40 - 44	76.5	78.5	79.8	80.0	80.0	79.9	80.5
45 - 49	73.6	78.0	77.3	78.4	77.9	77.3	78.7
50 - 54	64.0	69.1	69.1	70.9	72.0	72.5	73.0
55 - 59	49.5	53.5	51.7	55.4	58.2	56.8	58.2
60 - 64	30.6	34.6	31.7	34.8	34.9	33.4	34.4
65 - 69	20.5	20.2	17.9	20.1	19.2	19.0	18.2
70 - 74	12.6	11.0	9.1	10.6	9.9	10.1	8.7
75 & Over	5.3	4.7	3.2	3.9	4.2	3.3	2.5

Source : Ministry of Manpower (Other than 2000)

Notes : Refers to persons aged 15 years and over as at June of the respective years. Data for 2000 are from the Census of Population.

Data exclude construction workers living at worksites and workers who commute daily from abroad to work in Singapore, except for year 2000.

4.3 AGE-SPECIFIC MALE LABOUR FORCE PARTICIPATION RATES

Age Group (Years)	Per Cent						
	1994	1999	2000	2001	2002	2003	2004
Total	79.6	77.8	81.1	77.8	77.2	75.8	75.6
15 - 19	23.6	17.2	18.0	17.2	12.9	12.6	12.3
20 - 24	79.0	70.8	75.9	70.5	67.8	67.4	68.1
25 - 29	96.2	93.4	96.5	94.5	93.9	93.4	92.1
30 - 34	98.2	97.9	98.3	97.9	98.1	98.3	97.8
35 - 39	98.7	98.2	98.2	98.5	98.2	98.1	97.7
40 - 44	98.8	97.5	97.5	98.1	97.7	97.2	97.3
45 - 49	97.1	96.7	96.3	96.5	96.7	96.0	96.3
50 - 54	91.1	92.2	91.2	90.9	92.1	91.8	93.2
55 - 59	74.5	76.1	74.4	74.9	79.3	78.8	78.0
60 - 64	48.9	51.7	49.6	53.2	53.3	49.8	52.0
65 - 69	34.4	33.1	29.5	32.6	31.6	30.6	28.8
70 - 74	21.7	18.7	15.9	18.5	16.0	17.4	13.6
75 & Over	11.1	9.5	6.3	7.5	8.0	6.6	4.9

Source : Ministry of Manpower (Other than 2000)

Notes : Refers to persons aged 15 years and over as at June of the respective years. Data for 2000 are from the Census of Population.

Data exclude construction workers living at worksites and workers who commute daily from abroad to work in Singapore, except for year 2000.

4.4 AGE-SPECIFIC FEMALE LABOUR FORCE PARTICIPATION RATES

Age Group (Years)	Per Cent						
	1994	1999	2000	2001	2002	2003	2004
Total	50.9	52.7	55.5	54.3	53.4	53.9	54.2
15 - 19	23.0	17.2	20.1	17.9	14.6	13.5	15.0
20 - 24	79.0	76.6	78.7	76.3	71.9	74.6	73.2
25 - 29	79.4	81.9	84.9	84.5	84.3	86.7	85.6
30 - 34	64.5	70.5	73.6	73.0	74.4	76.4	76.6
35 - 39	58.3	60.8	63.0	63.4	63.3	66.9	68.5
40 - 44	54.4	60.2	60.7	62.5	62.6	63.1	64.3
45 - 49	49.7	59.6	57.4	60.3	59.7	59.1	61.7
50 - 54	38.1	46.4	46.7	50.7	51.4	53.6	52.9
55 - 59	26.1	32.0	29.6	37.2	38.4	35.6	39.3
60 - 64	12.8	19.1	15.3	18.3	18.6	18.6	18.0
65 - 69	8.1	8.9	7.5	9.3	7.9	9.4	9.3
70 - 74	4.8	4.2	3.6	4.5	4.9	4.3	4.7
75 & Over	1.4	1.4	1.2	1.6	1.7	1.1	1.0

Source : Ministry of Manpower (Other than 2000)

Notes : Refers to persons aged 15 years and over as at June of the respective years. Data for 2000 are from the Census of Population.

Data exclude construction workers living at worksites and workers who commute daily from abroad to work in Singapore, except for year 2000.

4.5 EMPLOYED PERSONS AGED 15 YEARS AND OVER BY OCCUPATIONAL STATUS

Occupational Status	Thousand						
	1994	1999	2000	2001	2002	2003	2004
Total	1,649.3	1,885.9	2,094.8	2,046.7	2,017.4	2,033.7	2,066.9
Employers	95.5	107.4	89.3	94.9	95.0	95.0	100.4
Own Account Workers	111.8	147.5	121.8	169.9	166.7	164.3	174.2
Employees	1,424.0	1,610.8	1,876.1	1,762.8	1,739.9	1,759.3	1,777.6
Contributing Family Workers	18.0	20.2	7.6	19.2	15.8	15.1	14.7

Source : Ministry of Manpower (Other than 2000)

Notes : Refers to persons aged 15 years and over as at June of the respective years. Data for 2000 are from the Census of Population.

Data exclude construction workers living at worksites and workers who commute daily from abroad to work in Singapore, except for year 2000.

4.6 EMPLOYED PERSONS AGED 15 YEARS AND OVER BY OCCUPATION

Occupation	Thousand						
	1994	1999	2000	2001	2002	2003	2004
Total	1,649.3	1,885.9	2,094.8	2,046.7	2,017.4	2,033.7	2,066.9
Legislators, Senior Officials and Managers	178.8	233.1	249.3	275.5	268.8	271.4	271.0
Professionals	119.5	202.4	186.6	241.7	231.6	247.8	249.6
Technicians and Associate Professionals	237.0	324.4	313.1	339.9	339.7	339.5	359.0
Clerical Workers	240.2	260.4	231.5	274.9	270.9	270.1	271.7
Service Workers, Shop and Market Sales Workers	224.2	251.6	211.9	230.6	228.3	218.0	228.2
Agricultural and Fishery Workers	2.9	2.1	1.5	2.0	1.8	1.6	1.3
Production Craftsmen, Plant and Machine Operators, Cleaners and Labourers	583.1	548.5	847.7	607.3	604.8	606.0	606.0
Others	63.7	63.4	53.3	74.8	71.4	79.3	80.2

Source : Ministry of Manpower (Other than 2000)

Notes : Refers to persons aged 15 years and over as at June of the respective years. Data for 2000 are from the Census of Population.

Data are classified according to the Singapore Standard Occupational Classification 2000.

Data exclude construction workers living at worksites and workers who commute daily from abroad to work in Singapore, except for year 2000.

4.7 EMPLOYED PERSONS AGED 15 YEARS AND OVER BY INDUSTRY

Industry	Thousand						
	1990	1995	2000	2001	2002	2003	2004
Total	1,537.0	1,702.1	2,094.8	2,046.7	2,017.4	2,033.7	2,066.9
Manufacturing	445.0	403.6	434.9	384.0	367.6	364.8	356.7
Construction	123.3	114.2	274.0	124.9	119.1	114.5	114.7
Wholesale & Retail Trade	240.2	242.9	286.8	303.6	304.4	296.5	319.7
Hotels & Restaurants	96.7	103.5	114.5	128.3	125.3	128.4	129.3
Transport, Storage & Communications	146.6	183.3	196.5	228.2	218.8	216.0	212.5
Financial Intermediation	61.1	86.8	96.3	108.7	107.9	104.7	107.2
Real Estate, Renting & Business Activities	111.9	175.7	226.2	243.1	237.4	243.0	254.0
Community, Social & Personal Services	299.7	374.0	452.7	506.2	518.7	548.0	554.5
Others ¹	12.6	18.2	12.9	19.7	18.4	17.8	18.2

Source : Ministry of Manpower (Other than 1990, 1995 and 2000)

Notes : Refers to persons aged 15 years and over as at June of the respective years.

Data for 1990 and 2000 are from the Census of Population.

Data for 1995 are from the General Household Survey (GHS).

Data are classified according to the Singapore Standard Industrial Classification 2000.

Data exclude construction workers living at worksites and workers who commute daily from abroad to work in Singapore, except for years 1990 and 2000.

1 Includes Agriculture, Fishing, Mining & Quarrying, Utilities and Activities Not Adequately Defined.

4.8 EMPLOYED PERSONS AGED 15 YEARS AND OVER BY INDUSTRY AND OCCUPATION, 2004

Thousand					
Occupation	Total	Manufacturing	Construction	Wholesale & Retail Trade	Hotels & Restaurants
Total	2,066.9	356.7	114.7	319.7	129.3
Legislators, Senior Officials & Managers	271.0	51.6	23.9	86.7	10.0
Professionals	249.6	50.5	10.1	14.2	1.4
Technicians & Associate Professionals	359.0	66.7	9.2	38.0	3.6
Clerical Workers	271.7	38.8	11.2	52.5	9.5
Service Workers, Shop & Market Sales Workers	228.2	4.5	0.4	94.1	51.5
Production Craftsmen, Plant & Machine Operators, Cleaners & Labourers	606.0	144.6	59.9	34.1	53.3
Others ²	81.4	-	-	-	-

Occupation	Transport, Storage & Communications	Financial Intermediation	Real Estate, Renting & Business Activities	Community, Social & Personal Services	Others ¹
Total	212.5	107.2	254.0	554.5	18.2
Legislators, Senior Officials & Managers	21.7	15.7	40.4	18.9	2.1
Professionals	11.4	21.8	58.7	79.0	2.5
Technicians & Associate Professionals	32.1	40.9	56.2	107.4	5.0
Clerical Workers	41.1	27.0	38.0	51.4	2.1
Service Workers, Shop & Market Sales Workers	15.2	0.4	19.9	41.4	0.8
Production Craftsmen, Plant & Machine Operators, Cleaners & Labourers	91.1	1.4	40.8	176.6	4.2
Others ²	-	-	-	79.8	1.5

Source : Ministry of Manpower

Note : The industries and occupations are classified according to the Singapore Standard Industrial Classification 2000 and Singapore Standard Occupational Classification 2000 respectively.

Data exclude construction workers living at worksites and workers who commute daily from abroad to work in Singapore.

1 Includes Agriculture, Fishing, Mining & Quarrying, Utilities and Activities Not Adequately Defined.

2 Includes Agricultural & Fishery Workers and Workers Not Classifiable by Occupation.

4.9 GOVERNMENT EMPLOYEES BY DIVISIONAL STATUS (End of Period)

Divisional Status	Number						
	1994	1999	2000	2001	2002	2003	2004
Total	59,537	66,370	63,316	61,032	60,240	61,601	61,516
Division I	15,998	24,779	24,400	24,765	25,783	27,636	28,638
Division II	18,416	19,253	18,939	18,227	17,605	17,187	16,608
Division III	18,041	16,257	14,993	13,772	12,843	12,754	12,250
Division IV	7,082	6,081	4,984	4,268	4,009	4,024	4,020

Source : Public Service Commission

Public Service Division, Prime Minister's Office (wef 1995)

Note : Figures exclude daily-rated employees.

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

Age Group (Years)	Thousand						
	1994	1999	2000	2001	2002	2003	2004
Total	2,521.8	2,828.1	2,880.0	2,922.7	2,963.2	2,978.5	3,018.0
Up to 20	105.7	88.8	90.3	88.2	82.2	78.5	80.3
> 20 - 25	235.7	197.0	202.2	202.5	206.9	207.1	206.7
> 25 - 30	327.0	280.6	271.7	268.5	261.0	251.7	247.3
> 30 - 35	413.3	348.1	331.4	318.3	312.8	309.2	307.2
> 35 - 40	389.2	423.2	419.0	411.2	397.5	379.5	358.9
> 40 - 45	322.6	393.8	404.6	412.2	418.6	424.2	425.8
> 45 - 50	226.0	326.3	342.5	359.2	372.4	382.7	392.6
> 50 - 55	142.0	222.9	251.8	267.7	280.2	294.9	308.7
Over 55	330.0	517.8	536.0	565.4	602.3	622.8	662.9
Not specified	30.3	29.6	30.5	29.5	29.3	27.9	27.6

Source : Central Provident Fund Board

Note : Data include self-employed who had made CPF contributions.

4.11 CENTRAL PROVIDENT FUND CONTRIBUTORS BY AGE GROUP

(End of Period)

	Thousand						
Age Group (Years)	1994	1999	2000	2001	2002	2003	2004
Total	1,138.9	1,224.5	1,272.9	1,269.6	1,283.7	1,283.0	1,324.4
Up to 20	37.3	31.6	35.0	27.9	28.9	27.2	31.0
> 20 - 25	137.1	108.7	111.0	103.9	103.4	100.6	103.1
> 25 - 30	201.6	199.4	199.9	196.9	191.7	184.2	184.4
> 30 - 35	203.5	196.2	197.5	195.2	197.7	199.7	205.1
> 35 - 40	181.8	192.4	197.3	195.5	193.4	190.4	190.9
> 40 - 45	144.4	174.6	182.3	183.0	183.3	182.9	187.2
> 45 - 50	101.3	136.5	145.9	151.6	156.9	160.6	166.9
> 50 - 55	57.6	91.5	104.8	109.9	113.7	116.5	122.9
> 55 - 60	39.4	46.1	46.4	50.6	58.7	64.6	73.4
Over 60	34.4	47.4	52.7	55.1	56.0	56.3	59.5
Not specified	0.5	0.1	0.1	-	-	-	-

Source : Central Provident Fund Board

Note : Data from 1992 exclude self-employed who had made CPF contributions.

4.12 CENTRAL PROVIDENT FUND CONTRIBUTORS BY WAGE LEVEL

(End of Period)

	Thousand						
Monthly Wage Level (\$)	1994	1999	2000	2001	2002	2003	2004
Total	1,138.9	1,224.5	1,272.9	1,269.6	1,283.7	1,283.0	1,324.4
Up to 200	15.7	14.7	14.4	13.9	15.2	15.8	15.7
200 - 399	40.5	33.7	33.3	32.4	25.2	24.5	25.1
400 - 599	50.8	44.9	47.9	52.7	48.9	49.1	45.9
600 - 799	71.6	52.6	52.4	47.5	64.8	67.4	68.1
800 - 999	105.4	61.8	57.3	54.2	53.2	53.6	60.4
1,000 - 1,499	268.8	212.6	193.2	184.9	181.3	179.1	178.5
1,500 - 1,999	199.0	208.5	204.0	202.4	198.3	196.1	195.6
2,000 - 2,499	124.1	162.4	166.8	167.2	168.3	167.4	169.9
2,500 - 2,999	73.2	115.5	125.4	127.9	128.3	126.9	130.9
3,000 - 3,499	49.4	78.9	91.0	90.5	93.3	94.3	98.7
3,500 - 3,999	34.0	50.2	59.8	61.1	63.7	63.7	67.4
4,000 - 4,499	22.6	40.7	45.6	46.7	47.9	48.5	53.5
4,500 - 4,999	14.2	29.6	33.6	32.7	34.5	35.0	38.1
5,000 - 5,499	14.5	23.4	29.0	28.8	29.6	29.6	32.9
5,500 & Over	49.6	93.3	117.1	126.7	131.2	131.9	143.6
Not specified	5.2	1.7	2.1	-	-	0.1	0.1

Source : Central Provident Fund Board

Note : Data from 1992 exclude self-employed who had made CPF contributions.

4.13

CENTRAL PROVIDENT FUND CONTRIBUTORS BY INDUSTRY

(End of Period)

Industry								Thousand
	1994	1999	2000	2001	2002	2003	2004	
Total	1,138.9	1,224.5	1,272.9	1,269.6	1,283.7	1,283.0	1,324.4	
Agriculture & Fishing	2.6	3.0	3.4	3.1	3.6	3.4	3.1	
Quarrying	0.4	0.4	0.3	0.4	0.3	0.3	-	
Manufacturing	296.9	253.3	256.3	246.4	244.9	241.2	248.2	
Utilities	6.6	6.8	7.0	5.0	5.1	4.8	4.3	
Construction	58.6	79.0	79.1	74.4	70.7	71.1	69.7	
Commerce	280.0	290.9	300.6	298.0	305.7	305.2	316.7	
Transport & Communications	111.3	116.1	124.6	125.3	125.3	122.4	123.8	
Financial & Business Services	186.8	241.7	261.4	267.7	270.7	272.5	291.1	
Other Services	195.5	233.2	240.0	248.9	257.2	261.8	267.1	
Activities Not Adequately Defined	0.2	0.1	0.2	0.4	0.2	0.3	0.4	

Source : Central Provident Fund Board

Note : Data prior to 1998 are classified according to the Singapore Standard Industrial Classification (SSIC) 1990.

Data for 1999 and 2000 are classified according to SSIC 1996.

Data from 2001 onwards are classified according to SSIC 2000.

Data exclude self-employed who had made CPF contributions.

4.14

EMPLOYMENT SERVICE

	Number	
	2003 ¹	2004
Job Seekers on 'Live' Register ²	13,916	7,749
Males	6,791	3,940
Females	7,125	3,809
New Job Registrants ³	21,528	42,870
Males	10,633	22,152
Females	10,895	20,718
Job Seekers Attended to at Careerlink Centres	32,545	117,135
Job Seekers Given Job Referrals	21,874	78,579
Job Seekers Placed in Employment	9,689	27,104

Source : Singapore Workforce Development Agency (WDA)

Note : WDA, which was set up in Sep 2003, has taken over from Ministry of Manpower (MOM) on the provision of employment services. Henceforth, local job seekers can go to Careerlink centres operated by WDA and its Distributed Careerlink Network (DCN) partners, comprising the Community Development Councils, National Trades Union Congress, Singapore National Employers Federation, and other self-help groups. The figures on Employment Services provided are the results of the collective efforts of WDA together with its DCN partners.

¹ Data cover Sep to Dec 2003.² A job seeker can register for employment services via the internet or at the CareerLink centres. A registration is valid for 2 months, after which the job seeker has to re-register if he needs further assistance. Figures are for end of period.³ New job registrants refer to job seekers who are either seeking employment services for the first time or re-registering for assistance after the expiry of the 2-month registration period.

4.15 CHANGES IN LABOUR PRODUCTIVITY BY INDUSTRY

Industry	Per Cent						
	1994	1999	2000	2001	2002	2003	2004
Total ¹	6.6	7.3	5.4	-5.3	4.6	2.6	6.6
Total (excluding Construction) ¹	7.1	7.5	5.2	-6.1	4.3	2.0	6.5
Goods Producing Industries ²	8.7	11.9	9.5	-9.2	9.2	6.1	9.4
Manufacturing	11.3	17.0	11.5	-13.5	10.3	5.2	9.7
Construction	4.0	-2.5	0.5	-0.3	-1.9	0.8	-1.6
Services Producing Industries ²	6.0	3.9	2.2	-2.8	2.3	0.5	5.2
Wholesale & Retail Trade	10.1	8.2	10.7	-6.6	3.4	7.4	12.7
Hotels & Restaurants	0.8	5.3	5.7	-2.4	-1.4	-11.1	8.0
Transport & Communications	8.1	7.1	2.3	-0.1	5.7	-2.4	8.5
Financial Services	3.2	4.5	-4.4	-2.3	-1.5	3.2	2.1
Business Services	4.2	-1.0	-4.4	-7.4	4.5	-2.1	-1.1
Other Services Industries	3.1	1.2	3.6	1.8	2.6	0.3	2.6

Source : Singapore Department of Statistics

Ministry of Manpower

Note : The industries are classified according to the Singapore Standard Industrial Classification 2000.

1 Based on Gross Domestic Product at 1995 Market Prices.

2 Based on Gross Value Added at 1995 Basic Prices.

4.16 MULTIFACTOR PRODUCTIVITY : CONTRIBUTIONS TO GROWTH IN REAL GDP

	1994	1999	2000	2001	2002	2003	2004
Percentage Change in Real GDP	10.8	6.6	9.2	-2.0	3.1	1.4	8.1
Percentage Contribution to Growth in Real GDP of :							
Capital Input	4.0	3.3	3.4	2.7	1.9	1.5	1.8
Labour Input	2.1	-0.2	1.9	1.7	-0.7	-0.6	0.8
Multifactor Productivity Growth	4.7	3.6	3.9	-6.4	1.9	0.4	5.5

Note : All growth rates are expressed in log terms.

4.17

AVERAGE MONTHLY EARNINGS BY INDUSTRY

Industry	Dollars						
	1994	1999	2000	2001	2002	2003	2004
Total	2,086	2,813	3,063	3,134	3,158	3,213	3,329
Manufacturing	1,995	2,803	3,036	3,117	3,154	3,265	3,350
Construction	1,865	2,226	2,333	2,330	2,384	2,411	2,453
Wholesale & Retail Trade	1,945	2,561	2,721	2,752	2,780	2,831	2,890
Hotels & Restaurants	1,160	1,291	1,332	1,339	1,312	1,283	1,298
Transport, Storage & Communications	2,133	2,836	3,105	3,283	3,166	3,297	3,439
Financial Services	2,896	4,528	4,931	5,131	5,307	5,393	5,639
Business & Real Estate Services	2,336	3,056	3,281	3,332	3,357	3,352	3,389
Community, Social & Personal Services	2,286	2,955	3,336	3,340	3,384	3,409	3,668

Source : Ministry of Manpower

Central Provident Fund Board

Note : Average monthly earnings are computed using data obtained from the CPF Board. They include bonuses, if any, but exclude employers' CPF contributions. Data exclude all identifiable self-employed.

Data prior to 2001 are classified according to the Singapore Standard Industrial Classification (SSIC) 1996.

From 2001, data are classified according to SSIC 2000.

4.18

AVERAGE WEEKLY HOURS WORKED BY INDUSTRY

Industry	Hours					
	1999	2000	2001	2002	2003	2004
Total	46.8	47.0	46.2	46.0	46.0	46.3
Total (excl Construction)	45.9	46.1	45.4	45.2	45.2	46.3
Manufacturing	49.2	49.8	48.6	48.9	49.0	49.8
Construction	51.3	51.6	50.9	50.6	51.1	51.7
Wholesale & Retail Trade	43.8	43.9	43.3	43.0	43.1	43.4
Hotels & Restaurants	40.6	41.2	40.4	38.8	38.3	38.4
Transport & Communications	46.2	46.2	45.9	45.6	45.4	45.3
Financial Services	43.0	43.5	43.1	42.5	42.5	42.6
Business Services	44.9	44.8	44.4	44.3	44.9	45.0

Source : Ministry of Manpower

Note : The data refer to private sector establishments with at least 25 employees.

Prior to 2000, data are classified according to the Singapore Standard Industrial Classification (SSIC) 1996.

From 2000, data are classified according to SSIC 2000.

4.19 AVERAGE MONTHLY RECRUITMENT RATE BY INDUSTRY AND OCCUPATIONAL GROUP

	1994	1999	2000	2001	2002	2003	2004	Per Cent
Total	3.5	2.6	3.2	2.5	2.4	2.4	2.8	
Industry								
Manufacturing	3.5	2.3	2.8	1.8	2.0	1.9	2.4	
Construction	2.6	2.3	2.6	2.5	2.0	2.1	2.3	
Wholesale & Retail Trade	4.8	3.5	4.3	3.3	2.9	2.9	3.3	
Hotels & Restaurants	5.7	4.6	4.6	4.4	4.8	4.6	5.3	
Transport, Storage & Communications	2.3	1.7	2.4	1.9	1.5	1.4	1.8	
Financial Services	2.8	1.8	2.4	1.7	1.4	1.6	2.2	
Business & Real Estate Services	4.1	3.8	4.5	3.5	3.3	3.4	3.9	
Community, Social & Personal Services	3.2	2.7	3.0	2.8	2.5	2.5	2.5	
Others ¹	2.2	1.7	1.3	1.4	1.6	1.2	1.6	
Occupational Group								
Professionals, Managers, Executives & Technicians	2.5	2.1	2.8	2.0	1.7	1.7	2.1	
Clerical, Sales & Service Workers	4.6	3.4	4.1	3.4	3.1	3.2	3.7	
Production & Transport Operators, Cleaners & Labourers	3.4	2.5	2.9	2.3	2.4	2.4	2.9	

Source : Ministry of Manpower

Note : Data refer to private sector establishments with at least 25 employees.

Data prior to 2000 are classified according to the Singapore Standard Industrial Classification (SSIC) 1996 and Singapore Standard Occupational Classification (SSOC) 1990.

From 2000, data are classified according to SSIC 2000 and SSOC 2000.

¹ Includes Agriculture, Fishing, Quarrying and Utilities.

4.20

AVERAGE MONTHLY RESIGNATION RATE BY INDUSTRY AND
OCCUPATIONAL GROUP

	1994	1999	2000	2001	2002	2003	2004	Per Cent
Total	3.1	2.2	2.5	2.3	2.1	2.0	2.2	
Industry								
Manufacturing	3.1	1.9	2.1	1.8	1.7	1.6	1.7	
Construction	2.1	2.2	2.2	2.4	2.1	2.1	1.9	
Wholesale & Retail Trade	4.4	2.8	3.3	2.8	2.4	2.5	2.7	
Hotels & Restaurants	5.5	4.2	4.3	4.3	4.5	4.8	4.7	
Transport, Storage & Communications	1.8	1.4	1.7	1.5	1.3	1.2	1.3	
Financial Services	2.0	1.4	1.8	1.4	1.1	1.2	1.6	
Business & Real Estate Services	3.5	3.0	3.5	2.9	2.7	2.8	3.0	
Community, Social & Personal Services	2.7	2.1	2.5	2.2	2.1	2.1	2.1	
Others ¹	2.0	1.1	0.9	0.9	1.1	1.0	1.2	
Occupational Group								
Professionals, Managers, Executives & Technicians	1.8	1.6	2.0	1.5	1.4	1.3	1.6	
Clerical, Sales & Service Workers	4.1	2.9	3.5	3.1	2.8	2.9	3.1	
Production & Transport Operators, Cleaners & Labourers	3.1	2.2	2.2	2.2	2.1	2.1	2.1	

Source : Ministry of Manpower

Note : Data refer to private sector establishments with at least 25 employees.

Data prior to 2000 are classified according to the Singapore Standard Industrial Classification (SSIC) 1996 and Singapore Standard Occupational Classification (SSOC) 1990.

From 2000, data are classified according to SSIC 2000 and SSOC 2000.

¹ Includes Agriculture, Fishing, Quarrying and Utilities.

4.21

SKILLS DEVELOPMENT FUND VALUE OF ASSISTANCE AND TRAINING PLACES COMMITTED BY TYPE OF TRAINING

Type of Training	1993	1998	1999	2000	2001	2002	2003
Value of Assistance Committed (Thousand Dollars)							
Total	89,336	81,883	86,570	97,016	111,890	108,842	93,229
Productivity & Quality-related Skills	7,994	11,899	13,806	19,792	13,659	15,663	14,695
Computer-related Skills	9,311	15,093	11,449	19,878	21,585	10,335	8,545
Technical Production & Engineering Skills	8,711	8,191	15,903	15,761	19,094	8,705	6,594
Technical Service Skills	24,920	21,037	24,685	25,056	39,011	45,241	42,884
Management & Supervisory Skills	15,904	12,757	10,121	8,000	11,154	11,041	8,402
Trade & Craft Skills	21,492	11,832	9,643	7,395	6,375	10,994	7,403
Others	1,003	1,074	962	1,133	1,011	6,863	4,706
Training Places (Number)							
Total	506,010	530,755	575,240	599,102	647,679	651,274	562,331
Productivity & Quality-related Skills	75,678	117,847	157,082	154,591	143,836	171,847	143,856
Computer-related Skills	98,661	128,966	109,356	162,228	155,989	98,440	89,598
Technical Production & Engineering Skills	100,104	66,645	73,684	75,097	79,284	81,277	51,969
Technical Service Skills	134,577	128,993	146,511	136,529	179,605	204,636	194,894
Management & Supervisory Skills	80,045	70,777	70,226	57,651	68,791	74,496	65,438
Trade & Craft Skills	12,682	9,425	10,278	4,180	10,443	10,104	7,013
Others	4,263	8,102	8,103	8,826	9,731	10,474	9,563

Source : SPRING Singapore

Ministry of Manpower (wef 2001)

Singapore Workforce Development Agency (wef 2002)

Note : The period refers to financial year beginning on 1 April and ending on 31 March the following year.

Figures exclude BEST, WISE and Vocational Training Scheme (VTS).

4.22 TRADE UNIONS AND MEMBERSHIP

(End of Period)

Industry							Number
	1994	1999	2000	2001	2002	2003	2004
Employee Class							
Unions	82	76	72	71	70	68	68
Members	232,927	289,707	314,478	338,311	389,676	417,166	443,893
Employer Class							
Unions	3	3	3	3	3	3	3
Members	1,088	1,807	1,827	1,971	2,047	2,052	1,981

Source : Ministry of Manpower

4.23 LABOUR RELATIONS

							Number
	1994	1999	2000	2001	2002	2003	2004
Trade Disputes	333	246	231	266	260	252	182
Claims Registered ¹	333	246	231	266	260	252	182
Wages	207	132	142	128	126	140	100
Others	126	114	89	138	134	112	82
Cases Referred to IAC ²	15	20	15	23	18	38	26
IAC Awards	10	12	9	18	17	30	18
Industrial Stoppages	-	-	-	-	-	-	-

Source : Ministry of Manpower

¹ Refer to main cause of individual disputes referred to the Conciliation Section.

"Wages" include Wage Increase and Conditions of Service.

"Others" include Retrenchment Benefits, Bonus or Gratuity and other Industrial Matters (eg Sales Commission, Shift Allowances, etc).

² IAC = Industrial Arbitration Court.

NATIONAL INCOME AND BALANCE OF PAYMENTS

5 NATIONAL INCOME AND BALANCE OF PAYMENTS

National Income Estimates

The output, expenditure and income approaches are adopted for compiling national income aggregates of Singapore. The concepts, definitions and methodology given in the United Nations' publication, "A System of National Accounts, 1993" are closely followed.

The development of the Singapore economy depends heavily on foreign capital, foreign technology and foreign workers. Consequently, a large share of the compensation of employees and operating surplus, as recorded in national accounts, accrue to foreigners and foreign enterprises.

Per capita Gross National Income as conventionally defined on a residential basis is therefore not a true reflection of the income of Singaporeans. Hence, a series on indigenous per capita GNI which excludes the foreigners' contribution is compiled.

This involves the calculation of income accruing to foreign workers and foreign enterprises which are residents of Singapore and the exclusion of this amount from the GNI.

Definitions

Gross National Income (GNI): It refers to the total income receivable by the residents and resident institutional units of a country during a period of time before subtracting capital consumption.

Indigenous GNI: It refers to the aggregate value of GNI accrued to Singaporeans.

Gross Domestic Product (GDP): It refers to the aggregate value of output produced within the domestic territory of Singapore.

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

Income Components of GDP: It refers to the sum of incomes receivable by each institutional sector from the domestic production of goods and services which includes compensation of employees, gross operating surplus and taxes (less subsidies, if any) on production and on imports.

GDP at Constant Prices : In order to compare the real value of output/expenditure over time, it is necessary to remove the effect of price changes. This is achieved by selecting the price structure of 1995 as the base according to which the goods and services in other years are revalued. The resulting aggregates after adjustment for price changes are known as constant-price estimates.

GDP Deflators: They are the aggregate price indices of the GDP of the economy. They measure implicitly the price level of the current GDP relative to the base year 1995, which is set at 100. The deflators are derived as the ratio of current price estimates to the corresponding constant price estimates.

Valuation of GDP Estimates: GNI, GDP, expenditure on GDP and income components of GDP are valued at market prices, that is, they are valued at the actual transacted prices and include customs and excise duties and other indirect taxes levied less subsidies.

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

5 NATIONAL INCOME AND BALANCE OF PAYMENTS (cont'd)

Balance of Payments Estimates

The balance of payments is a systematic record of all economic transactions between residents of an economy and residents of the rest of the world in a given period. It is very useful for assessing the external performance of an economy and for formulating policies connected with it.

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

- a) The current account which consists of transactions relating to Singapore's current national income and expenditure. These include exports and imports of goods and services, income receipts and payments as well as current transfers.
- b) The capital and financial account which covers transactions affecting the foreign financial assets and liabilities of Singapore. Hence it records transactions that affect the national income in future periods.
- c) Official reserves which shows the changes in Singapore's foreign reserves holdings. It consists 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.

The compilation of Singapore's balance of payments estimates is based on the principles recommended by the International Monetary Fund's "Balance of Payments Manual, 5th Edition". The structure and classification of Singapore's balance of payments accounts follow the fifth edition of the manual.

Studies to improve the balance of payments estimates are an on-going process and the estimates are revised as and when appropriate.

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: It refers to the difference between total exports and total imports of goods on an f.o.b. basis.

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

Income Balance: It refers to the difference between factor income accrued to Singapore residents from abroad and factor income accrued to non-Singapore residents.

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

Capital and Financial Account Balance: It 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: It 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.

Direct Investment

Data on foreign direct investment in Singapore are compiled from the Survey of Financial Structure and Operations of Companies, and the Survey on Foreign Debt Transactions.

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

Definitions

Direct Investment: It refers to investment in affiliates in which the parent company owns at least 10 per cent of the total paid-up shares. It is made up of the following two main components:

Direct Equity Investment: It comprises ordinary paid-up shares of affiliates and the amount of reserves (e.g. retained surpluses, revaluation gains, share premium) attributable to the parent companies. For branches of non-banks, the net amount due to the parent companies is taken as an approximation of the magnitude of direct equity

investment. For branches of banks, the net fixed assets of the branch is used.

Net Inter-Company Debt: It refers to the net outstanding debt owed by affiliates to their parent companies. The debt could be in the form of loans, debt securities and trade credits.

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 and other recent methodological and conceptual changes is available in the information paper "Rebasing of the Singapore System of National Accounts to Reference Year 1995". Significant changes in treatment and classification of the balance of payments are described in the occasional paper "Implementation of IMF Balance of Payments Manual, 5th Edition in Singapore's Balance of Payments". Analyses on the national output and balance of payments of Singapore may be found in the "Economic Survey of Singapore" published by the Ministry of Trade & Industry annually.

5.1 INDIGENOUS GROSS NATIONAL INCOME

(At Current Market Prices)

	1994	1999	2000	2001	2002	2003	2004
Million Dollars							
Total Gross Domestic Product	107,851.1	139,896.8	159,595.9	153,771.4	158,387.7	160,923.6	180,554.4
Share of Resident Foreigners & Resident Foreign Companies in GDP	32,231.9	54,446.5	62,021.1	63,646.1	66,217.5	65,179.7	71,418.4
Indigenous GDP	75,619.2	85,450.3	97,574.8	90,125.3	92,170.2	95,743.9	109,136.0
Net Factor Receipts of Singaporeans from Rest of the World	12,021.0	22,293.5	21,524.3	19,437.3	18,305.8	19,347.3	20,000.9
Indigenous GNI	87,640.2	107,743.8	119,099.1	109,562.6	110,476.0	115,091.2	129,136.9
Per Capita Indigenous GNI (\$)	29,594	33,441	36,498	33,010	32,702	33,483	37,035
Percentage Change Over Previous Year							
Total Gross Domestic Product	14.4	1.9	14.1	-3.6	3.0	1.6	12.2
Share of Resident Foreigners & Resident Foreign Companies in GDP	10.2	13.9	13.9	2.6	4.0	-1.6	9.6
Indigenous GDP	16.3	-4.6	14.2	-7.6	2.3	3.9	14.0
Net Factor Receipts of Singaporeans from Rest of the World	14.6	29.4	-3.5	-9.7	-5.8	5.7	3.4
Indigenous GNI	16.0	0.9	10.5	-8.0	0.8	4.2	12.2
Per Capita Indigenous GNI (\$)	13.9	-0.6	9.1	-9.6	-0.9	2.4	10.6

5.2 OUTPUT, SAVING AND INVESTMENT

(At Current Market Prices)

	1994	1999	2000	2001	2002	2003	2004
Million Dollars							
Gross National Income (GNI)							
GNI at Market Prices	110,234.9	142,875.1	158,316.4	153,798.3	154,609.8	158,423.2	176,026.2
Gross Domestic Product at Market Prices	107,851.1	139,896.8	159,595.9	153,771.4	158,387.7	160,923.6	180,554.4
Net Income from Abroad	2,383.8	2,978.3	-1,279.5	26.9	-3,777.9	-2,500.4	-4,528.2
Generation of Gross National Saving							
Gross National Saving	53,114.3	69,767.4	72,355.5	65,819.3	64,134.6	70,843.8	80,160.1
Gross Domestic Saving	51,740.3	68,527.6	75,635.8	67,893.9	69,954.6	75,325.9	86,621.8
Gross Domestic Product at Market Prices	107,851.1	139,896.8	159,595.9	153,771.4	158,387.7	160,923.6	180,554.4
Less : Private & Government Consumption Expenditure	56,190.9	71,222.0	82,627.4	86,155.5	88,963.3	88,691.9	95,468.9
Statistical Discrepancy	80.1	-147.2	-1,332.7	278.0	530.2	3,094.2	1,536.3
Net Income from Abroad	2,383.8	2,978.3	-1,279.5	26.9	-3,777.9	-2,500.4	-4,528.2
Net Current Transfers from Abroad	-1,009.8	-1,738.5	-2,000.8	-2,101.5	-2,042.1	-1,981.7	-1,933.5
Finance of Gross Capital Formation							
Gross Capital Formation	35,701.8	44,739.5	51,798.8	40,016.1	36,035.0	23,887.9	33,037.6
Gross National Saving	53,114.3	69,767.4	72,355.5	65,819.3	64,134.6	70,843.8	80,160.1
Net Capital Transfers from Abroad	-128.5	-324.0	-280.5	-288.9	-286.7	-292.0	-308.4
Net Borrowing from/Lending (-) to Abroad	-17,284.0	-24,703.9	-20,276.2	-25,514.3	-27,812.9	-46,663.9	-46,814.1

5.3 GROSS DOMESTIC PRODUCT BY INDUSTRY

Industry	Million Dollars						
	1994	1999	2000	2001	2002	2003	2004
At Current Market Prices							
GDP at Current Market Prices	107,851.1	139,896.8	159,595.9	153,771.4	158,387.7	160,923.6	180,554.4
Goods Producing Industries	35,772.5	46,223.4	54,423.9	49,103.6	50,815.5	51,241.5	59,785.7
Manufacturing	26,165.4	32,520.6	41,854.9	36,337.6	39,467.7	40,541.3	48,960.5
Construction	7,733.7	11,125.0	9,966.0	9,443.9	8,404.6	7,829.3	7,671.7
Utilities	1,654.5	2,378.2	2,413.7	3,144.6	2,777.3	2,707.7	2,961.6
Other Goods Industries ¹	218.9	199.6	189.3	177.5	165.9	163.2	191.9
Services Producing Industries	67,268.7	89,815.7	97,446.9	99,289.4	102,308.0	102,235.8	111,395.5
Wholesale & Retail Trade	14,324.0	18,007.1	20,003.4	19,084.5	20,872.4	22,051.1	25,249.5
Hotels & Restaurants	2,926.9	3,271.5	3,522.6	3,547.4	3,435.9	3,067.7	3,480.8
Transport & Communications	12,919.7	16,830.8	18,343.7	17,576.6	17,776.4	17,336.4	19,525.4
Financial Services	12,994.2	17,503.9	17,754.9	19,122.6	18,952.5	18,697.4	19,982.6
Business Services	13,353.9	19,687.8	21,463.5	22,039.4	22,030.5	21,594.2	22,472.2
Other Services Industries	10,750.0	14,514.6	16,358.8	17,918.9	19,240.3	19,489.0	20,685.0
Owner-Occupied Dwellings	3,900.4	5,062.3	5,337.2	5,610.1	5,635.2	5,656.6	5,702.1
Less : FISIM ²	6,620.2	9,941.5	8,842.9	10,183.0	9,583.8	8,300.6	7,404.5
Gross Value Added at Basic Prices	100,321.4	131,159.9	148,365.1	143,820.1	149,174.9	150,833.3	169,478.8
Add : Taxes on Products	7,529.7	8,736.9	11,230.8	9,951.3	9,212.8	10,090.3	11,075.6
At 1995 Market Prices							
GDP at 1995 Market Prices	110,109.4	148,108.3	162,379.0	159,212.3	164,255.2	166,491.8	180,496.0
Goods Producing Industries	36,307.3	49,160.9	54,601.5	49,682.8	51,273.0	51,511.3	56,604.3
Manufacturing	26,721.7	35,357.5	40,711.9	35,999.6	38,793.6	39,858.0	45,397.0
Construction	7,652.7	11,216.7	11,132.9	10,846.0	9,530.2	8,627.6	8,070.5
Utilities	1,710.2	2,389.4	2,569.1	2,660.6	2,782.5	2,860.1	2,952.4
Other Goods Industries ¹	213.5	197.3	187.6	176.6	166.7	165.6	184.4
Services Producing Industries	68,456.2	93,184.7	100,596.1	103,012.3	106,161.6	107,526.5	115,593.2
Wholesale & Retail Trade	14,365.3	17,901.3	20,577.0	19,896.2	20,417.0	21,788.8	24,969.9
Hotels & Restaurants	3,014.7	3,502.1	3,785.1	3,764.2	3,697.0	3,329.6	3,742.2
Transport & Communications	12,854.7	19,140.4	20,521.3	21,333.5	22,649.9	22,236.7	24,264.0
Financial Services	12,733.4	16,668.2	17,261.0	17,908.1	17,170.0	17,910.5	18,987.4
Business Services	14,653.2	20,767.0	21,876.1	22,320.9	23,378.9	23,028.2	23,537.2
Other Services Industries	10,876.0	15,205.7	16,575.6	17,789.4	18,848.8	19,232.7	20,092.5
Owner-Occupied Dwellings	3,915.6	5,365.8	5,705.7	5,961.2	6,083.8	6,252.2	6,424.4
Less : FISIM ²	6,463.8	8,955.2	8,775.8	9,285.9	9,130.9	9,261.4	9,745.3
Gross Value Added at Basic Prices	102,226.8	138,756.2	152,127.5	149,370.4	154,387.5	156,028.6	168,876.6
Add : Taxes on Products	7,956.1	9,352.1	10,251.5	9,841.9	9,867.7	10,463.2	11,619.4

Notes : The industries are classified according to Singapore Standard Industrial Classification 2000.

As the constant price series are chain-linked at the base year, they are not additive prior to the base year. Thus, prior to 1995, the aggregates at 1995 prices may not be equal to the sum of their components.

¹ Comprise Agriculture, Fishing and Quarrying.

² Refers to Financial Intermediation Services Indirectly Measured.

5.4 EXPENDITURE ON GROSS DOMESTIC PRODUCT

	Million Dollars						
	1994	1999	2000	2001	2002	2003	2004
At Current Market Prices							
Total	107,851.1	139,896.8	159,595.9	153,771.4	158,387.7	160,923.6	180,554.4
Private Consumption Expenditure	47,183.3	57,214.8	65,213.7	67,478.1	69,431.3	69,712.5	76,275.6
Government Consumption Expenditure	9,007.6	14,007.2	17,413.7	18,677.4	19,532.0	18,979.4	19,193.3
Gross Fixed Capital Formation	36,201.5	47,091.9	47,538.2	45,576.7	40,187.2	39,012.2	43,321.8
Changes in Inventories	-499.7	-2,352.4	4,260.6	-5,560.6	-4,152.2	-15,124.3	-10,284.2
Net Exports of Goods & Services	16,038.5	23,788.1	23,837.0	27,877.8	33,919.6	51,438.0	53,584.2
Statistical Discrepancy	-80.1	147.2	1,332.7	-278.0	-530.2	-3,094.2	-1,536.3
At 1995 Market Prices							
Total	110,109.4	148,108.3	162,379.0	159,212.3	164,255.2	166,491.8	180,496.0
Private Consumption Expenditure	47,657.9	57,738.3	65,798.1	67,910.7	69,972.3	70,359.0	76,390.1
Government Consumption Expenditure	9,064.9	15,034.8	17,776.0	18,572.1	19,591.8	19,159.3	18,848.5
Gross Fixed Capital Formation	35,569.3	48,717.8	52,933.8	50,537.0	45,129.1	43,037.3	46,648.5
Changes in Inventories	-321.5	-2,817.7	2,520.6	-6,724.0	-4,127.9	-14,684.1	-10,325.6
Net Exports of Goods & Services	17,573.0	30,618.8	25,918.8	31,645.7	36,667.8	51,445.2	52,155.3
Statistical Discrepancy	253.6	-1,183.7	-2,568.3	-2,729.2	-2,977.9	-2,824.9	-3,220.8

Note : As the constant price series are chain-linked at the base year, they are not additive prior to the base year. Thus, prior to 1995, the aggregates at 1995 prices may not be equal to the sum of their components.

5.5 PRIVATE CONSUMPTION EXPENDITURE

Million Dollars

	1994	1999	2000	2001	2002	2003	2004
At Current Market Prices							
Total	47,183.3	57,214.8	65,213.7	67,478.1	69,431.3	69,712.5	76,275.6
Food & Beverages	7,664.9	8,402.9	8,734.4	9,075.8	9,502.3	9,688.6	10,237.9
Clothing & Footwear	2,950.9	2,635.5	3,005.8	2,642.2	2,656.1	2,547.1	2,719.3
Rent & Utilities	6,428.3	9,063.6	9,759.0	10,471.2	10,447.8	10,597.5	10,718.4
Furniture & Household Equipment	3,998.5	4,838.4	5,219.2	4,850.7	4,957.2	4,991.6	5,236.2
Medical Services	2,262.4	3,381.7	3,558.9	4,041.2	4,371.3	4,215.7	5,110.4
Transport & Communications	10,300.3	11,511.1	14,101.2	14,251.9	13,574.4	14,670.3	15,981.7
Recreation & Education	8,256.0	9,019.7	10,313.4	9,586.5	9,624.4	9,880.9	10,818.3
Other Goods & Services	11,072.2	11,374.9	13,241.7	12,549.1	13,282.2	12,202.9	13,689.3
Add : Residents' Expenditure Abroad	4,756.4	5,746.4	6,293.3	8,455.5	9,114.1	7,659.8	10,523.7
Less : Non-residents' Expenditure							
Locally	10,506.6	8,759.4	9,013.2	8,446.0	8,098.5	6,741.9	8,759.6
At 1995 Market Prices							
Total	47,657.9	57,738.3	65,798.1	67,910.7	69,972.3	70,359.0	76,390.1
Food & Beverages	7,725.9	8,090.9	8,394.8	8,680.9	9,137.6	9,146.1	9,340.0
Clothing & Footwear	2,974.3	2,709.2	3,105.5	2,710.8	2,730.3	2,595.3	2,758.8
Rent & Utilities	6,705.1	9,417.8	9,984.1	10,575.7	10,875.2	11,196.5	11,473.6
Furniture & Household Equipment	4,056.8	4,829.5	5,244.3	4,887.8	5,050.6	5,099.1	5,363.5
Medical Services	2,381.9	3,109.5	3,230.9	3,541.3	3,785.7	3,564.2	4,221.2
Transport & Communications	10,408.6	12,186.5	15,135.2	15,964.5	15,559.1	16,979.3	18,839.7
Recreation & Education	8,410.6	8,916.7	10,325.6	9,478.0	9,542.6	9,636.7	10,515.8
Other Goods & Services	10,880.9	11,890.8	13,578.0	12,947.6	13,457.0	12,332.9	13,543.3
Add : Residents' Expenditure Abroad	4,763.9	5,633.5	6,087.4	7,958.4	8,445.7	7,054.0	9,650.4
Less : Non-residents' Expenditure							
Locally	10,639.1	9,046.1	9,287.7	8,834.3	8,611.5	7,245.1	9,316.2

Note : As the constant price series are chain-linked at the base year, they are not additive prior to the base year. Thus, prior to 1995, the aggregates at 1995 prices may not be equal to the sum of their components.

5.6 GROSS FIXED CAPITAL FORMATION

Million Dollars							
	1994	1999	2000	2001	2002	2003	2004
At Current Market Prices							
Total	36,201.5	47,091.9	47,538.2	45,576.7	40,187.2	39,012.2	43,321.8
Construction & Works	18,681.2	25,994.3	24,464.9	23,200.1	20,567.2	18,650.8	18,197.1
Residential Buildings	8,767.2	13,153.0	10,807.6	9,316.2	9,203.8	8,444.8	7,933.4
Non-residential Buildings	7,757.8	9,036.1	9,644.6	9,008.9	7,790.5	6,879.7	7,177.7
Other Construction & Works	2,156.2	3,805.2	4,012.7	4,875.0	3,572.9	3,326.3	3,086.0
Transport Equipment	4,842.0	6,255.8	3,991.6	6,913.2	5,981.3	6,146.9	6,546.1
Machinery & Equipment	12,678.3	14,841.8	19,081.7	15,463.4	13,638.7	14,214.5	18,578.6
At 1995 Market Prices							
Total	35,569.3	48,717.8	52,933.8	50,537.0	45,129.1	43,037.3	46,648.5
Construction & Works	18,889.4	26,669.5	27,702.2	27,433.1	24,353.9	21,687.5	20,231.1
Residential Buildings	8,859.4	13,707.8	12,388.9	11,244.0	11,077.2	9,955.8	8,934.7
Non-residential Buildings	7,864.4	9,214.5	10,843.1	10,549.8	9,170.9	7,971.1	7,968.0
Other Construction & Works	2,128.6	3,747.2	4,470.2	5,639.3	4,105.8	3,760.6	3,328.4
Transport Equipment	4,535.8	5,571.7	3,902.0	5,491.3	4,890.1	4,885.1	5,204.7
Machinery & Equipment	12,146.4	16,476.6	21,329.6	17,612.6	15,885.1	16,464.7	21,212.7

Note : As the constant price series are chain-linked at the base year, they are not additive prior to the base year. Thus, prior to 1995, the aggregates at 1995 prices may not be equal to the sum of their components.

5.7 GROSS DOMESTIC PRODUCT DEFLATORS BY INDUSTRY

(1995=100)

Industry	1994	1999	2000	2001	2002	2003	2004
GDP at Market Prices	97.9	94.5	98.3	96.6	96.4	96.7	100.0
Goods Producing Industries	98.5	94.0	99.7	98.8	99.1	99.5	105.6
Manufacturing	97.9	92.0	102.8	100.9	101.7	101.7	107.9
Construction	101.1	99.2	89.5	87.1	88.2	90.7	95.1
Utilities	96.7	99.5	94.0	118.2	99.8	94.7	100.3
Other Goods Industries ¹	102.5	101.2	100.9	100.5	99.5	98.6	104.1
Services Producing Industries	98.3	96.4	96.9	96.4	96.4	95.1	96.4
Wholesale & Retail Trade	99.7	100.6	97.2	95.9	102.2	101.2	101.1
Hotels & Restaurants	97.1	93.4	93.1	94.2	92.9	92.1	93.0
Transport & Communications	100.5	87.9	89.4	82.4	78.5	78.0	80.5
Financial Services	102.0	105.0	102.9	106.8	110.4	104.4	105.2
Business Services	91.1	94.8	98.1	98.7	94.2	93.8	95.5
Other Services Industries	98.8	95.5	98.7	100.7	102.1	101.3	102.9
Owner-Occupied Dwellings	99.6	94.3	93.5	94.1	92.6	90.5	88.8
FISIM ²	102.4	111.0	100.8	109.7	105.0	89.6	76.0
Gross Value Added at Basic Prices	98.1	94.5	97.5	96.3	96.6	96.7	100.4
Taxes on Products	94.6	93.4	109.6	101.1	93.4	96.4	95.3

Note : Data on industry are classified according to the Singapore Standard Industrial Classification 2000.

1 Comprise Agriculture, Fishing and Quarrying.

2 Refers to Financial Intermediation Services Indirectly Measured.

5.8 DEFLATORS OF EXPENDITURE ON GROSS DOMESTIC PRODUCT

(1995=100)

	1994	1999	2000	2001	2002	2003	2004
Total	97.9	94.5	98.3	96.6	96.4	96.7	100.0
Private Consumption Expenditure	99.0	99.1	99.1	99.4	99.2	99.1	99.9
Government Consumption Expenditure	99.4	93.2	98.0	100.6	99.7	99.1	101.8
Gross Fixed Capital Formation	101.8	96.7	89.8	90.2	89.0	90.6	92.9
Exports of Goods & Services	94.5	92.6	97.4	98.5	97.7	98.1	98.4
Imports of Goods & Services	94.8	94.5	97.9	99.7	98.4	97.8	97.8

5.9 INCOME COMPONENTS OF GROSS DOMESTIC PRODUCT

(At Current Market Prices)

	Million Dollars						
	1994	1999	2000	2001	2002	2003	2004
Total	107,851.1	139,896.8	159,595.9	153,771.4	158,387.7	160,923.6	180,554.4
Compensation of Employees	45,661.1	61,532.1	69,076.5	71,072.0	72,710.5	72,974.4	75,829.4
Gross Operating Surplus	50,690.1	66,000.6	76,752.8	68,485.1	72,446.1	74,462.0	87,563.8
of Financial Corporations	7,986.3	10,847.3	10,461.4	11,224.7	12,038.2	10,646.3	11,098.8
of Non-financial Corporations	38,186.8	51,422.9	60,690.8	52,880.1	55,385.9	57,056.9	68,061.7
of Others ¹	11,137.2	13,671.9	14,443.5	14,563.3	14,605.8	15,059.4	15,807.8
Less : FISIM ²	6,620.2	9,941.5	8,842.9	10,183.0	9,583.8	8,300.6	7,404.5
Taxes on Production & Imports	11,813.3	12,067.9	14,806.5	13,412.3	12,111.3	12,848.2	14,613.2
Statistical Discrepancy	-313.4	296.2	-1,039.9	802.0	1,119.8	639.0	2,548.0

1 Refers to unincorporated enterprises and non-profit institutions.

2 Refers to Financial Intermediation Services Indirectly Measured.

5.10 BALANCE OF PAYMENTS

	Million Dollars						
	1994	1999	2000	2001	2002	2003	2004
A Current Account Balance	17,412.5	25,027.9	20,556.7	25,803.2	28,099.6	46,955.9	47,122.5
Goods Balance	2,068.7	21,067.4	21,947.8	28,169.9	31,388.7	48,999.1	52,754.3
Exports of Goods	149,565.8	210,812.7	257,472.3	239,511.1	246,368.5	275,952.9	333,421.7
Imports of Goods	147,497.1	189,745.3	235,524.5	211,341.2	214,979.8	226,953.8	280,667.4
Services Balance	13,969.8	2,720.7	1,889.2	-292.1	2,530.9	2,438.9	829.9
Exports of Services	35,198.3	44,683.3	50,985.6	51,996.8	55,180.2	60,215.4	69,580.3
Transportation	6,174.4	18,116.6	20,501.9	20,530.2	21,397.5	21,772.2	24,694.1
Travel	10,357.9	8,625.3	8,864.4	8,286.4	7,942.5	6,597.9	8,603.2
Insurance	503.8	608.2	962.9	1,189.4	1,421.5	2,068.3	2,213.6
Government	159.9	148.9	164.4	176.0	172.0	159.6	172.4
Construction	na	280.4	231.8	346.2	543.2	563.3	526.9
Financial	na	2,016.9	2,534.9	2,122.7	2,351.3	3,248.8	4,408.6
Computer & Information	na	387.0	426.2	558.2	632.0	582.1	595.0
Royalties	na	113.3	152.9	170.2	328.6	331.9	378.0
Social	na	20.3	25.9	37.4	35.3	44.2	46.2
Other Business Services	18,002.3	14,366.4	17,120.3	18,580.1	20,356.3	24,847.1	27,942.3
Imports of Services	21,228.5	41,962.6	49,096.4	52,288.9	52,649.3	57,776.5	68,750.4
Transportation	7,327.7	18,793.0	22,100.6	22,179.8	18,915.9	22,037.8	26,127.9
Travel	5,908.0	7,140.3	7,823.9	10,529.1	11,349.8	9,523.3	13,089.5
Insurance	1,177.6	1,982.8	2,649.2	2,648.9	2,752.0	3,122.5	3,626.9
Government	150.2	216.1	217.2	281.3	316.2	312.9	374.1
Construction	na	313.5	214.1	309.3	236.8	215.4	201.5
Financial	na	545.7	707.6	642.0	766.0	864.7	1,169.3
Computer & Information	na	306.1	390.1	494.3	487.5	606.9	620.4
Royalties	na	6,614.3	7,252.3	6,121.1	6,391.2	8,376.0	9,540.1
Social	na	23.4	39.3	50.5	125.5	103.9	108.5
Other Business Services	6,665.0	6,027.4	7,702.1	9,032.6	11,308.4	12,613.1	13,892.2
Income Balance	2,383.8	2,978.3	-1,279.5	26.9	-3,777.9	-2,500.4	-4,528.2
Income Receipts	14,943.4	27,496.3	26,928.0	24,842.3	23,797.5	25,380.3	26,043.3
Income Payments	12,559.6	24,518.0	28,207.5	24,815.4	27,575.4	27,880.7	30,571.5
Current Transfers (Net)	-1,009.8	-1,738.5	-2,000.8	-2,101.5	-2,042.1	-1,981.7	-1,933.5
General Government	-203.4	-108.8	-227.6	-171.0	-185.3	-232.2	-188.0
Other Sectors	-806.4	-1,629.7	-1,773.2	-1,930.5	-1,856.8	-1,749.5	-1,745.5
B Capital and Financial Account Balance	-13,632.6	-23,499.2	-9,816.8	-33,264.1	-18,507.8	-34,519.4	-22,133.5
Capital Account (Net)	-128.5	-324.0	-280.5	-288.9	-286.7	-292.0	-308.4
Financial Account (Net)	-13,504.1	-23,175.2	-9,536.3	-32,975.2	-18,221.1	-34,227.4	-21,825.1
Direct Investment	6,068.7	14,993.6	19,653.2	-15,390.2	3,092.4	9,800.7	9,114.5
Abroad	na	-13,183.4	-8,765.4	-40,692.2	-7,331.6	-6,455.2	-18,030.2
In Reporting Country	na	28,177.0	28,418.6	25,302.0	10,424.0	16,255.9	27,144.7
Portfolio Investment	-11,801.3	-15,402.5	-25,398.4	-20,053.7	-24,101.0	-18,240.2	-19,176.8
Assets	na	-21,162.8	-23,003.6	-20,547.4	-23,482.1	-23,473.3	-23,128.0
Banks	na	-977.8	-1,395.4	-507.9	-1,352.4	-301.7	-1,438.0
Official	na	-13,191.1	-9,574.6	-7,975.0	-7,461.2	-7,167.0	-7,756.1
Others	na	-6,993.9	-12,033.6	-12,064.5	-14,668.5	-16,004.6	-13,933.9
Liabilities	na	5,760.3	-2,394.8	493.7	-618.9	5,233.1	3,951.2
Banks	na	1,104.6	-932.2	791.0	-401.6	168.8	240.9
Others	na	4,655.7	-1,462.6	-297.3	-217.3	5,064.3	3,710.3

(continued on next page)

5.10 BALANCE OF PAYMENTS (continued)

Million Dollars

	1994	1999	2000	2001	2002	2003	2004
Other Investment	-7,771.5	-22,766.3	-3,791.1	2,468.7	2,787.5	-25,787.9	-11,762.8
Assets	-16,800.4	-33,258.8	-26,710.1	-6,456.1	-12,486.2	-33,792.1	-61,907.1
Banks	-6,554.5	-16,734.6	3,394.1	-10,527.6	2,068.9	18,723.4	-8,947.6
Official	-6,387.3	-1,534.4	-4,065.6	-1,036.3	-441.6	-14,100.5	-15,396.7
Others	-3,858.6	-14,989.8	-26,038.6	5,107.8	-14,113.5	-38,415.0	-37,562.8
Liabilities	9,028.9	10,492.5	22,919.0	8,924.8	15,273.7	8,004.2	50,144.3
Banks	8,261.8	5,347.3	13,278.0	14,725.8	-608.1	-15,838.9	6,734.4
Others	767.1	5,145.2	9,641.0	-5,801.0	15,881.8	23,843.1	43,409.9
C Net Errors and Omissions	3,521.8	5,792.5	1,095.5	5,859.0	-7,305.3	-662.0	-4,556.0
D Overall Balance (A+B+C)	7,301.7	7,321.2	11,835.4	-1,601.9	2,286.5	11,774.5	20,433.0
E Official Reserves (Net) ¹	-7,301.7	-7,321.2	-11,835.4	1,601.9	-2,286.5	-11,774.5	-20,433.0
Special Drawing Rights	-9.7	12.1	-29.6	-56.5	-29.6	-60.9	-21.4
Reserves Position in the IMF	-20.3	-294.0	40.5	-51.8	-5.4	-166.9	-0.3
Foreign Exchange Assets	-7,271.7	-7,039.3	-11,846.3	1,710.2	-2,251.5	-11,546.7	-20,411.3

1 Increase in assets is indicated by a minus (-) sign.

5.11 STOCK OF FOREIGN DIRECT INVESTMENT IN SINGAPORE BY INDUSTRY

(End of Period)

Industry	Million Dollars						
	1993	1998	1999	2000	2001	2002	2003
Total	66,962.3	144,951.9	169,144.5	195,023.7	222,318.6	235,324.5	244,390.8
Manufacturing	22,750.1	52,672.1	57,655.8	70,499.0	82,653.5	86,669.1	91,914.9
Construction	487.3	1,457.2	1,505.1	2,110.7	1,740.4	2,001.3	1,452.6
Commerce	9,494.7	21,680.2	27,307.6	29,557.8	32,943.2	38,212.1	39,511.6
Transport, Storage & Communications	2,081.8	5,434.5	6,371.1	8,610.3	9,885.9	10,291.5	11,302.3
Financial & Insurance Services	27,392.7	52,999.8	64,220.2	70,100.7	78,610.2	79,417.3	83,069.2
Real Estate	2,864.2	5,304.9	5,620.7	6,412.9	6,151.1	6,718.8	6,211.1
Business Services	1,730.5	5,240.1	6,392.9	7,836.8	9,650.3	11,359.0	10,439.3
Others	161.0	163.0	71.0	-104.5	684.1	655.5	489.9

Note : Prior to 1998, data comprises foreign direct equity investment (i.e. paid-up shares and reserves) only.
From 1998 onwards, data incorporate net lending from foreign investors to their affiliates in Singapore.

5.12 STOCK OF SINGAPORE'S DIRECT INVESTMENT ABROAD BY INDUSTRY

(End of Period)

Industry	Million Dollars						
	1993	1998	1999	2000	2001	2002	2003
Total	22,181.4	75,622.4	92,719.9	98,291.1	133,612.4	148,923.4	153,484.2
Manufacturing	4,549.8	17,685.5	22,870.3	24,969.3	26,863.4	31,090.3	31,951.1
Construction	187.2	897.5	797.4	779.9	679.8	712.0	748.9
Commerce	2,284.9	6,576.4	7,613.7	8,125.6	9,758.8	10,138.9	11,234.1
Transport, Storage & Communications	546.4	2,916.6	5,521.6	6,185.0	10,614.9	13,424.2	13,430.9
Financial & Insurance Services	12,225.1	37,913.8	44,717.5	47,436.6	73,871.8	82,044.3	85,624.7
Real Estate	1,420.2	6,091.5	6,869.4	7,019.3	7,922.7	7,284.6	7,407.1
Business Services	766.3	2,446.9	2,890.1	2,250.8	2,235.3	2,410.8	1,360.6
Others	201.5	1,094.2	1,439.9	1,524.6	1,665.7	1,818.4	1,726.8

Note : Prior to 1994, data comprises direct equity investment abroad (i.e. paid-up shares and reserves) only.
From 1994 onwards, data incorporate net lending from Singapore parent company to their overseas affiliates.

5.13 STOCK OF FOREIGN DIRECT INVESTMENT IN SINGAPORE BY COUNTRY

(End of Period)

Million Dollars

	1993	1998	1999	2000	2001	2002	2003
Total	66,962.3	144,951.9	169,144.5	195,023.7	222,318.6	235,324.5	244,390.8
Asia	22,970.3	43,898.1	46,292.5	50,155.2	51,969.4	55,865.1	55,333.8
ASEAN	4,174.6	9,079.0	8,995.8	9,290.2	9,703.5	9,646.0	9,030.6
Brunei Darussalam	91.5	177.2	292.0	312.6	355.0	368.0	347.4
Indonesia	193.5	1,368.9	1,025.9	1,652.2	1,625.4	1,777.6	1,744.3
Malaysia	2,726.1	6,525.3	6,201.2	5,569.0	6,032.8	5,788.1	5,166.9
Philippines	167.8	117.3	748.6	1,037.0	1,038.1	930.9	828.2
Thailand	991.2	787.3	701.1	675.6	634.0	745.3	914.1
Vietnam ¹	1.3	3.8	6.3	8.2	10.8	28.3	24.0
Myanmar ²	3.3	98.8	20.0	35.3	6.8	7.2	5.1
Cambodia ³	na	0.4	0.7	0.4	0.7	0.7	0.5
China	223.6	753.1	967.3	931.2	890.8	961.7	841.2
Hong Kong SAR	4,014.1	4,645.6	4,837.5	6,277.1	5,799.8	4,920.9	4,025.8
Taiwan	520.2	2,660.6	2,300.8	3,381.3	4,751.7	5,063.5	5,676.8
Japan	13,878.2	26,106.5	28,284.2	29,202.0	29,954.2	33,122.1	32,974.0
Korea, Republic of	-132.6	114.1	304.4	295.7	32.2	1,147.8	1,678.2
India	176.7	292.1	281.6	264.4	350.3	410.8	355.0
Others	101.5	247.2	321.0	513.2	486.9	592.3	752.3
Europe	19,191.3	49,955.2	62,625.7	72,741.6	87,314.5	94,682.9	104,127.7
European Union	15,573.9	36,103.2	45,154.6	52,706.7	66,922.7	76,265.1	84,293.6
France	1,034.8	3,770.2	3,656.3	4,919.2	4,688.8	4,987.4	5,282.3
Germany	1,074.7	2,125.2	2,347.4	4,230.0	6,363.5	7,385.0	6,366.4
Netherlands	4,382.2	9,480.4	22,875.2	29,155.7	35,900.3	25,255.4	27,368.0
United Kingdom	7,164.9	17,629.7	11,863.4	8,939.4	14,721.9	32,833.7	39,525.1
Other EU Countries	1,917.3	3,097.7	4,412.4	5,462.5	5,248.3	5,803.6	5,751.7
Switzerland	3,388.4	13,021.1	15,698.3	16,114.4	15,668.9	15,205.1	15,537.9
Others	229.0	830.9	1,772.8	3,920.4	4,722.9	3,212.7	4,296.3
United States	12,716.0	22,975.9	24,790.6	31,813.5	37,180.0	35,030.9	37,586.8
Canada	2,376.0	3,169.0	4,183.5	3,068.9	3,181.9	2,768.1	2,529.8
Australia	3,254.3	3,765.5	3,051.7	3,255.6	2,651.3	2,517.1	2,090.1
New Zealand	172.4	160.5	164.4	208.3	196.8	205.3	156.5
Caribbean/Latin America	5,444.6	19,720.1	26,464.7	31,329.9	36,542.8	40,407.3	38,292.0
Other Countries nec	837.3	1,307.5	1,571.3	2,450.6	3,281.9	3,847.9	4,274.2

Note : Prior to 1998, data comprises foreign direct equity investment (i.e. paid-up shares and reserves) only.
 From 1998 onwards, data incorporate net lending from foreign investors to their affiliates in Singapore.

1 With effect from 1995, Vietnam is included in ASEAN total.

2 With effect from 1997, Myanmar is included in ASEAN total.

3 With effect from 1999, Cambodia is included in ASEAN total.

5.14 STOCK OF SINGAPORE'S DIRECT INVESTMENT ABROAD BY COUNTRY

(End of Period)

Country	Million Dollars						
	1993	1998	1999	2000	2001	2002	2003
Total	22,181.0	75,622.4	92,719.9	98,291.1	133,612.4	148,923.4	153,484.2
Asia	11,642.5	42,905.2	53,831.7	57,542.8	64,537.6	71,068.1	75,594.8
ASEAN	6,106.7	18,141.5	21,802.8	23,568.9	26,482.9	30,885.8	33,717.6
Brunei Darussalam	74.7	63.9	84.6	98.1	56.8	142.6	58.5
Indonesia	620.0	4,484.7	5,507.5	5,461.8	5,598.3	7,693.5	9,925.8
Malaysia	4,619.3	8,610.0	8,516.8	9,754.0	11,239.4	13,325.6	13,296.9
Philippines	201.6	1,297.6	2,287.3	2,555.6	2,741.7	2,863.0	2,957.3
Thailand	591.1	1,986.4	3,297.9	3,494.4	4,506.0	4,103.5	4,618.7
Vietnam 1	70.2	1,050.9	1,149.7	1,069.7	1,067.0	1,386.5	1,433.9
Myanmar 2	7.8	634.2	811.0	1,028.0	1,045.2	1,061.7	1,129.3
Cambodia 3	3.2	123.4	152.1	112.4	229.2	259.1	232.2
China	651.7	12,186.3	14,295.6	15,710.2	15,721.4	18,046.3	19,019.7
Hong Kong SAR	3,846.8	7,668.0	10,405.2	8,508.0	11,493.2	11,975.1	11,579.9
Taiwan	394.1	1,287.6	2,028.7	3,571.4	3,586.3	3,344.3	3,530.1
Japan	96.4	865.5	1,052.7	993.8	1,466.3	1,642.7	2,126.3
Korea, Republic of	48.5	669.0	1,682.5	2,403.3	2,754.0	2,477.5	2,243.7
India	21.5	315.2	743.5	884.7	766.9	408.4	1,155.2
Others	395.6	1,648.9	1,820.7	1,902.5	2,266.6	2,287.9	2,222.5
Europe	1,566.2	9,585.1	12,928.7	8,934.9	12,689.5	15,487.1	13,287.7
European Union	1,380.2	8,943.2	12,139.1	7,155.6	10,405.4	11,417.3	9,431.4
France	3.8	98.0	91.6	103.5	163.7	248.9	274.2
Germany	-7.8	12.9	75.8	120.9	156.3	113.2	101.3
Netherlands	499.1	2,113.6	2,260.6	1,188.0	1,293.0	1,214.9	501.4
United Kingdom	328.4	3,275.8	3,387.4	4,903.4	6,843.3	6,974.4	7,156.2
Other EU Countries	556.8	3,442.9	6,323.7	839.8	1,949.1	2,865.8	1,398.3
Switzerland	54.4	32.9	54.5	211.2	447.8	531.0	585.2
Others	131.6	609.0	735.2	1,568.1	1,836.3	3,538.9	3,271.1
United States	1,773.2	3,063.9	4,196.7	6,187.5	7,328.7	8,245.4	8,989.6
Canada	27.0	178.2	255.6	285.1	55.7	22.1	107.7
Australia	582.9	1,708.7	2,464.3	2,486.9	2,518.6	3,325.2	4,809.1
New Zealand	1,829.7	640.1	522.9	866.0	512.6	883.4	1,059.7
Caribbean/Latin America	na	10,626.6	11,720.0	12,791.2	39,661.1	42,132.9	42,579.6
Other Countries nec	4,760.0	6,914.6	6,800.0	9,196.8	6,308.4	7,759.1	7,056.0

1 Note : Prior to 1994, data comprises direct equity investment abroad (i.e. paid-up shares and reserves) only.
From 1994 onwards, data incorporate net lending from Singapore parent company to their overseas affiliates.

2 With effect from 1995, Vietnam is included in ASEAN total.

3 With effect from 1997, Myanmar is included in ASEAN total.

4 With effect from 1999, Cambodia is included in ASEAN total.

RESEARCH

RESEARCH AND DEVELOPMENT

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## 6 RESEARCH AND DEVELOPMENT

### R&D IN SINGAPORE

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

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

#### Definitions

#### R&D Manpower

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

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

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

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

#### R&D Expenditure

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. Figures for R&D expenditure in each current year are expressed in nominal terms and are not adjusted for inflation.

#### Patents

Refers to patents that are a result of R&D activities carried out in Singapore. Patent data published in the National Survey of R&D is as reported by survey respondents. The patent number for the same invention is counted as one irrespective of the number of countries the patent is being applied or awarded.



## 6.1 ORGANISATIONS PERFORMING R&D BY SECTOR

| Sector                     | Number |      |      |      |      |      |      |
|----------------------------|--------|------|------|------|------|------|------|
|                            | 1993   | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
| Total                      | 436    | 604  | 624  | 582  | 558  | 564  | 662  |
| Private                    | 410    | 571  | 593  | 539  | 513  | 519  | 617  |
| Higher Education           | 6      | 6    | 6    | 6    | 6    | 7    | 9    |
| Government                 | 15     | 13   | 12   | 24   | 24   | 25   | 24   |
| Public Research Institutes | 5      | 14   | 13   | 13   | 15   | 13   | 12   |

Source : Agency for Science, Technology and Research

## 6.2 R&D MANPOWER BY OCCUPATION

| Occupation         | Number |        |        |        |        |        |        |
|--------------------|--------|--------|--------|--------|--------|--------|--------|
|                    | 1993   | 1998   | 1999   | 2000   | 2001   | 2002   | 2003   |
| Total              | 10,748 | 19,007 | 20,612 | 25,220 | 25,162 | 26,824 | 28,825 |
| Researchers        |        |        |        |        |        |        |        |
| RSE <sup>1</sup>   | 6,629  | 12,655 | 13,817 | 14,483 | 15,366 | 15,654 | 17,074 |
| FPGRS <sup>2</sup> | -      | -      | -      | 3,819  | 3,211  | 3,723  | 4,065  |
| Non-Degree         | 1,231  | 2,275  | 2,465  | 2,498  | 2,068  | 2,154  | 2,374  |
| Technicians        | 1,865  | 2,203  | 2,375  | 2,262  | 2,371  | 2,398  | 2,549  |
| Supporting Staff   | 1,023  | 1,874  | 1,955  | 2,158  | 2,146  | 2,895  | 2,763  |

Source : Agency for Science, Technology and Research

1 RSE denotes Research Scientists and Engineers

Data exclude postgraduate students.

2 FPGRS denotes Full-time Postgraduate Research Students.

Data for 2000 include both full-time and part-time postgraduate students.

Data for 2001 onwards include full-time postgraduate students only.

## 6.3 R&D EXPENDITURE BY SECTOR

| Sector                     | Million Dollars |         |         |         |         |         |         |
|----------------------------|-----------------|---------|---------|---------|---------|---------|---------|
|                            | 1993            | 1998    | 1999    | 2000    | 2001    | 2002    | 2003    |
| Total                      | 998.2           | 2,492.3 | 2,656.4 | 3,009.5 | 3,232.7 | 3,404.7 | 3,424.5 |
| Private                    | 618.9           | 1,536.1 | 1,670.9 | 1,866.0 | 2,045.0 | 2,091.3 | 2,081.2 |
| Higher Education           | 157.3           | 305.8   | 310.0   | 338.3   | 367.0   | 430.0   | 457.5   |
| Government                 | 106.5           | 299.8   | 304.9   | 423.8   | 425.1   | 449.1   | 435.8   |
| Public Research Institutes | 115.5           | 350.5   | 370.6   | 381.4   | 395.6   | 434.3   | 450.0   |

Source : Agency for Science, Technology and Research



## 6.4 R&D EXPENDITURE BY AREA OF RESEARCH, 2003

| Million Dollars                             |         |                |                         |                   |                            |
|---------------------------------------------|---------|----------------|-------------------------|-------------------|----------------------------|
| Area of Research                            | Total   | Private Sector | Higher Education Sector | Government Sector | Public Research Institutes |
| Total                                       | 3,424.5 | 2,081.2        | 457.5                   | 435.8             | 450.0                      |
| Agricultural & Food Sciences                | 34.0    | 27.3           | 1.8                     | 4.9               | -                          |
| Engineering & Technology                    | 1,976.9 | 1,281.6        | 239.5                   | 258.4             | 197.5                      |
| Biomedical & Related Sciences               | 497.3   | 169.2          | 94.4                    | 91.8              | 141.8                      |
| Natural Sciences (excl Biological Sciences) | 477.8   | 239.7          | 94.4                    | 76.2              | 67.6                       |
| Others                                      | 438.5   | 363.4          | 27.4                    | 4.5               | 43.1                       |

Source : Agency for Science, Technology and Research

## 6.5 R&D EXPENDITURE BY TYPE OF COSTS, 2003

| Million Dollars                         |         |                |                         |                   |                            |
|-----------------------------------------|---------|----------------|-------------------------|-------------------|----------------------------|
| Type of Costs                           | Total   | Private Sector | Higher Education Sector | Government Sector | Public Research Institutes |
| Total                                   | 3,424.5 | 2,081.2        | 457.5                   | 435.8             | 450.0                      |
| Capital Costs                           | 447.9   | 215.8          | 61.2                    | 54.6              | 116.3                      |
| Land, Buildings & Other Structures      | 103.0   | 28.4           | -                       | 35.3              | 39.4                       |
| Vehicles, Plants, Machinery & Equipment | 344.9   | 187.3          | 61.2                    | 19.4              | 76.9                       |
| Manpower Costs                          | 1,538.4 | 866.9          | 303.9                   | 178.4             | 189.2                      |
| Researchers                             | 1,340.3 | 762.2          | 285.0                   | 141.1             | 151.9                      |
| RSE <sup>1</sup>                        | 1,179.3 | 670.9          | 221.2                   | 135.2             | 151.9                      |
| FPGRS <sup>2</sup>                      | 62.9    | -              | 62.9                    | -                 | -                          |
| Non-Degree                              | 98.1    | 91.3           | 0.8                     | 5.9               | 0.1                        |
| Technicians                             | 80.8    | 39.4           | 11.6                    | 16.7              | 13.1                       |
| Others                                  | 117.4   | 65.3           | 7.4                     | 20.5              | 24.2                       |
| Other Operating Costs                   | 1,438.2 | 998.5          | 92.4                    | 202.8             | 144.5                      |

Source : Agency for Science, Technology and Research

1 RSE denotes Research Scientists and Engineers.

2 FPGRS denotes Full-time Postgraduate Research Students



## 6.6 R&D OUTPUT

|                                                                                                                     | 1998   | 1999   | 2000   | 2001   | 2002   | 2003   |
|---------------------------------------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|
| Patents Owned <sup>1</sup> (No)                                                                                     | 847    | 1,077  | 1,268  | 1,456  | 1,739  | 2,314  |
| Patents Applied (No)                                                                                                | 579    | 673    | 774    | 913    | 936    | 1,001  |
| Patents Awarded (No)                                                                                                | 136    | 161    | 239    | 410    | 451    | 460    |
| Revenue from Royalties & Licensing of<br>Patents / New Technologies Developed<br>in Singapore (\$m)                 | 51     | 672    | 75     | 55     | 88     | 132    |
| Sales Revenue derived from Commercialised<br>Products / Processes Attributed to R&D<br>Performed in Singapore (\$m) | 13,370 | 10,664 | 15,578 | 16,660 | 11,445 | 10,360 |

Source : Agency for Science, Technology and Research

1 As at end of period.







# 7 THE CORPORATE SECTOR

Table 7.1

|                                                       | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010  |
|-------------------------------------------------------|------|------|------|------|------|------|------|------|-------|
| Ratio of Return on Total Equity (ROE)                 | 1.00 | 0.84 | 0.78 | 0.71 | 0.65 | 0.59 | 0.53 | 0.47 | 0.41  |
| Ratio of Return on Capital Employed (ROCE)            | 0.84 | 0.71 | 0.65 | 0.59 | 0.53 | 0.47 | 0.41 | 0.35 | 0.29  |
| Ratio of Return on Assets (ROA)                       | 0.41 | 0.35 | 0.29 | 0.23 | 0.17 | 0.11 | 0.05 | 0.00 | -0.05 |
| Ratio of Return on Equity (ROE) - Adjusted            | 1.00 | 0.84 | 0.78 | 0.71 | 0.65 | 0.59 | 0.53 | 0.47 | 0.41  |
| Ratio of Return on Capital Employed (ROCE) - Adjusted | 0.84 | 0.71 | 0.65 | 0.59 | 0.53 | 0.47 | 0.41 | 0.35 | 0.29  |
| Ratio of Return on Assets (ROA) - Adjusted            | 0.41 | 0.35 | 0.29 | 0.23 | 0.17 | 0.11 | 0.05 | 0.00 | -0.05 |

## THE CORPORATE SECTOR

It is defined as the ratio of pre-tax profit before deduction interest payments to average capital employed in the beginning and at the end of the year. This ratio measures the efficiency of the company in their use of resources available to them.

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

Other References The report 'Singapore's Corporate Sector', published by the Singapore Department of Statistics contains monthly data and detailed tables showing the aggregated balance sheets and profit and loss accounts.

Return It is defined as the amount of paid-up capital and reserves of a company. Paid-up capital is the amount contributed by shareholders to the company and reserves refer to the company's retained surplus.

Return on Assets (ROA) It is defined as the ratio of the net profit of a branch to the total assets of the branch. For branches of other foreign corporations, the net amount owing to the local office is used.

Return on Capital Employed (ROCE) It is defined as the ratio of shareholders' equity and retained profits to the foreign head office's total assets. The ratio measures the dependence of companies on external funding, i.e. funding which is not from its shareholders or its overseas headquarter in the form of the total branch of a foreign enterprise. The lower is this ratio, the higher is the company's dependence on external funding.



## 7 THE CORPORATE SECTOR

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Data on the Corporate Sector covered all companies incorporated or registered in Singapore, including branches of foreign companies. Partnerships and sole proprietorships were, however, not included because of the difficulty in obtaining financial statements for such business enterprises. All data are extracted from audited financial accounts. These were collected either directly via a postal survey or from the Accounting and Corporate Regulatory Authority (ACRA).

### Definitions

*Equity:* It is defined as the amount of paid-up capital and reserves of a company. Paid-up capital is the amount contributed by shareholders to the company and reserves refer to the company's retained surpluses, revaluation gains, share premium and other reserve funds earmarked for contingencies, improvements, etc. For Singapore branches of foreign banks, the net fixed assets of a branch is used as an approximation of the amount of foreign capital invested in Singapore. For branches of other foreign corporations, the net amount owing to the head office is used.

*Equity Ratio:* It is defined as the ratio of shareholders' equity and net amount due to foreign head office to total assets. The ratio measures the dependence of companies on external funding i.e. funding which is not from its shareholders or its overseas headquarters in the case of the local branch of a foreign enterprise. The lower is this ratio, the higher is the company's dependence on external funding.

*Current Ratio:* It is defined as the ratio of current assets (including the outstanding funds due from holding and related companies) to current liabilities (including the outstanding amount due to holding and related companies). This ratio measures the liquidity of companies, i.e. their ability to meet current debt payments when due. A ratio of 1 indicates that the company has exactly balanced its current liabilities with current assets. The lower is the ratio below 1, the higher is the risk of the company running into a liquidity problem. A ratio above 1 indicates an excess of liquidity in the company.

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

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

### Other References

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



## 7.1 TOTAL EQUITY BY MAIN INDUSTRIAL SECTORS

(End of Period)

|                                 | Billion Dollars |       |       |       |       |       |       |
|---------------------------------|-----------------|-------|-------|-------|-------|-------|-------|
|                                 | 1992            | 1997  | 1998  | 1999  | 2000  | 2001  | 2002  |
| Total                           | 188.9           | 417.3 | 440.2 | 480.9 | 563.6 | 613.9 | 642.7 |
| Financial Services Sector       | 81.4            | 178.2 | 190.7 | 214.4 | 260.2 | 288.9 | 287.9 |
| Non-Financial Sector            | 107.5           | 239.1 | 249.5 | 266.5 | 303.4 | 324.9 | 354.8 |
| Manufacturing                   | 34.6            | 74.0  | 79.5  | 81.7  | 103.5 | 107.7 | 116.7 |
| Construction                    | 1.7             | 4.1   | 5.9   | 4.4   | 7.3   | 5.7   | 7.3   |
| Commerce                        | 18.6            | 35.6  | 36.7  | 41.3  | 46.4  | 51.3  | 61.9  |
| Transport & Storage             | 16.5            | 32.5  | 36.9  | 43.8  | 45.7  | 58.1  | 66.1  |
| Insurance Services              | 2.4             | 4.9   | 5.1   | 5.7   | 5.8   | 6.3   | 6.3   |
| Real Estate & Business Services | 31.3            | 69.8  | 65.2  | 70.2  | 81.7  | 81.0  | 82.1  |
| Others                          | 2.4             | 18.2  | 20.3  | 19.4  | 13.0  | 14.8  | 14.4  |

## 7.2 TOTAL ASSETS BY MAIN INDUSTRIAL SECTORS

(End of Period)

|                                 | Billion Dollars |         |         |         |         |         |         |
|---------------------------------|-----------------|---------|---------|---------|---------|---------|---------|
|                                 | 1992            | 1997    | 1998    | 1999    | 2000    | 2001    | 2002    |
| Total                           | 1,048.4         | 1,947.5 | 2,062.4 | 2,107.9 | 2,371.1 | 2,457.2 | 2,500.1 |
| Financial Services Sector       | 759.0           | 1,295.6 | 1,358.2 | 1,383.6 | 1,561.0 | 1,589.9 | 1,593.3 |
| Non-Financial Sector            | 289.4           | 652.0   | 704.2   | 724.3   | 810.1   | 867.3   | 906.8   |
| Manufacturing                   | 71.7            | 146.7   | 153.6   | 164.2   | 195.8   | 203.3   | 216.0   |
| Construction                    | 14.7            | 39.2    | 50.2    | 41.8    | 49.9    | 49.0    | 46.7    |
| Commerce                        | 75.5            | 151.6   | 147.3   | 154.8   | 168.5   | 173.9   | 193.1   |
| Transport & Storage             | 37.4            | 73.6    | 83.9    | 93.9    | 106.2   | 126.3   | 130.8   |
| Insurance Services              | 13.8            | 30.1    | 30.4    | 38.6    | 46.0    | 61.1    | 69.6    |
| Real Estate & Business Services | 70.9            | 181.6   | 204.5   | 195.9   | 214.0   | 224.5   | 223.7   |
| Others                          | 5.5             | 29.1    | 34.3    | 35.2    | 29.7    | 29.0    | 26.9    |



## 7.3 RETURNS ON EQUITY BY MAIN INDUSTRIAL SECTORS

(End of Period)

|                                 |      |      |      |      |      |       | Per Cent |
|---------------------------------|------|------|------|------|------|-------|----------|
|                                 | 1992 | 1997 | 1998 | 1999 | 2000 | 2001  | 2002     |
| Total                           | 13.6 | 8.2  | 3.6  | 11.0 | 12.5 | 6.9   | 7.8      |
| Financial Services Sector       | 12.0 | 3.5  | 0.2  | 10.1 | 11.5 | 6.5   | 7.1      |
| Non-Financial Sector            | 14.7 | 11.6 | 6.1  | 11.7 | 13.4 | 7.2   | 8.3      |
| Manufacturing                   | 20.0 | 17.2 | 13.7 | 13.7 | 18.7 | 10.6  | 12.2     |
| Construction                    | 9.1  | 0.6  | -2.7 | -6.4 | 9.0  | -10.4 | -5.7     |
| Commerce                        | 16.3 | 6.8  | -0.4 | 12.3 | 13.9 | 10.8  | 12.6     |
| Transport & Storage             | 19.1 | 15.1 | 13.0 | 15.4 | 16.8 | 11.9  | 8.2      |
| Insurance Services              | 14.5 | 18.3 | 6.0  | 20.1 | 24.4 | 19.2  | 17.3     |
| Real Estate & Business Services | 6.2  | 7.7  | -2.4 | 9.7  | 5.7  | -2.6  | 2.6      |
| Others                          | 9.8  | 10.1 | 8.4  | 4.4  | 5.2  | 10.3  | -2.6     |

## 7.4 RETURNS ON ASSETS BY MAIN INDUSTRIAL SECTORS

(End of Period)

|                                 |      |      |      |      |      |      | Per Cent |
|---------------------------------|------|------|------|------|------|------|----------|
|                                 | 1992 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002     |
| Total                           | 3.5  | 5.0  | 4.2  | 5.1  | 5.8  | 4.0  | 3.3      |
| Financial Services Sector       | 2.3  | 4.7  | 4.5  | 5.0  | 5.7  | 4.1  | 3.0      |
| Non-Financial Sector            | 6.6  | 5.6  | 3.7  | 5.3  | 6.0  | 3.7  | 3.9      |
| Manufacturing                   | 10.6 | 9.7  | 8.1  | 7.9  | 10.5 | 6.8  | 7.2      |
| Construction                    | 1.8  | 0.6  | 0.5  | -0.3 | 1.6  | -0.9 | -0.4     |
| Commerce                        | 5.6  | 3.4  | 1.8  | 4.5  | 5.1  | 4.3  | 4.7      |
| Transport & Storage             | 9.7  | 8.2  | 7.2  | 8.2  | 8.8  | 6.4  | 4.7      |
| Insurance Services              | 2.7  | 3.0  | 1.0  | 3.2  | 3.3  | 2.2  | 1.7      |
| Real Estate & Business Services | 4.1  | 4.5  | 1.1  | 4.6  | 3.4  | 0.3  | 2.0      |
| Others                          | 5.1  | 7.0  | 5.8  | 3.2  | 3.5  | 5.6  | -0.8     |



## 7.5 EQUITY RATIOS OF COMPANIES BY MAIN INDUSTRIAL SECTORS

(End of Period)

|                                    | 1992 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------------------------------------|------|------|------|------|------|------|------|
| Total                              | 0.19 | 0.25 | 0.24 | 0.25 | 0.24 | 0.26 | 0.27 |
| Financial Services Sector          | 0.13 | 0.20 | 0.19 | 0.18 | 0.17 | 0.20 | 0.21 |
| Non-Financial Sector               | 0.37 | 0.37 | 0.35 | 0.37 | 0.37 | 0.38 | 0.39 |
| Manufacturing                      | 0.48 | 0.50 | 0.52 | 0.50 | 0.53 | 0.53 | 0.54 |
| Construction                       | 0.12 | 0.10 | 0.12 | 0.11 | 0.15 | 0.12 | 0.16 |
| Commerce                           | 0.25 | 0.24 | 0.25 | 0.27 | 0.28 | 0.30 | 0.32 |
| Transport & Storage                | 0.44 | 0.44 | 0.44 | 0.47 | 0.43 | 0.46 | 0.51 |
| Insurance Services                 | 0.17 | 0.16 | 0.17 | 0.15 | 0.13 | 0.10 | 0.09 |
| Real Estate & Business<br>Services | 0.44 | 0.38 | 0.32 | 0.36 | 0.38 | 0.36 | 0.37 |
| Others                             | 0.44 | 0.63 | 0.59 | 0.55 | 0.44 | 0.51 | 0.53 |

## 7.6 CURRENT RATIOS OF COMPANIES BY MAIN INDUSTRIAL SECTORS

(End of Period)

|                                    | 1992 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------------------------------------|------|------|------|------|------|------|------|
| Total                              | 1.04 | 1.04 | 1.03 | 1.03 | 1.05 | 1.06 | 1.09 |
| Financial Services Sector          | 1.04 | 1.06 | 1.05 | 1.04 | 1.05 | 1.06 | 1.07 |
| Non-Financial Sector               | 1.04 | 0.98 | 0.98 | 0.99 | 1.06 | 1.06 | 1.12 |
| Manufacturing                      | 1.31 | 1.28 | 1.28 | 1.23 | 1.32 | 1.29 | 1.33 |
| Construction                       | 0.86 | 0.94 | 0.95 | 0.90 | 0.96 | 0.98 | 1.02 |
| Commerce                           | 1.09 | 1.05 | 1.09 | 1.12 | 1.13 | 1.14 | 1.20 |
| Transport & Storage                | 1.00 | 1.06 | 1.10 | 0.98 | 1.14 | 0.95 | 1.09 |
| Insurance Services                 | 2.07 | 2.65 | 2.42 | 2.78 | 2.27 | 1.87 | 1.84 |
| Real Estate & Business<br>Services | 0.65 | 0.58 | 0.59 | 0.66 | 0.74 | 0.81 | 0.82 |
| Others                             | 1.02 | 1.02 | 1.02 | 0.88 | 0.72 | 1.04 | 1.17 |







## COMPANIES AND BUSINESSES



### Coverage and Sources of Data

Data on companies and businesses include all those registered with the Accounting and Corporate Regulatory Authority (ACRA) as well as those registered with professional bodies, e.g. legal services and medical services. These data are compiled from the administrative records of ACRA and from other sources such as the Singapore Department of Statistics' surveys, government gazettes and newspapers.

### Definitions

*Company:* Refers to a business entity registered under the Companies Act, Chapter 50. It is a legal entity (i.e. it has the right to own properties, to sue or be sued). It usually has the words 'Pte. Ltd.' or 'Ltd.' as part of its name.

*Business:* Refers to business firm, operating either as a sole-proprietorship or a partnership. It may be set up by individuals or companies. A sole-proprietorship is a business firm owned by one person or one locally incorporated company. There are no partners.

The sole-proprietor has absolute say in the running of the business firm. A partnership is made up of more than one person or company. Generally, all partners have equal rights in the management of the partnership. A partnership may comprise up to twenty partners. If there are more than twenty partners, the business entity must be registered as a company under the Companies Act, Chapter 50.

*Active Company/Business:* Refers to entities which are still in operation, and not dormant, liquidated, dissolved, under receivership or struck off. New entities formed but have not started operations are excluded.

*Formation:* Refers to companies and businesses registered with the ACRA and other relevant organisations (e.g. The Law Society of Singapore, Singapore Medical Council, Board of Architects or Professional Engineers Board).

*Cessation:* Refers to companies and businesses which have ceased operation during the reference year. Cessation status includes ceased operations, struck off, liquidated, dissolved or under receivership.



## 8.1 ACTIVE COMPANIES BY INDUSTRY

(End of period)

| Industry                                    |        |        |        |        |        |        | Number  |
|---------------------------------------------|--------|--------|--------|--------|--------|--------|---------|
|                                             | 1998   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004    |
| Total                                       | 79,595 | 82,679 | 86,524 | 90,920 | 93,238 | 97,568 | 104,333 |
| Agriculture, Fishing, Mining<br>& Quarrying | 288    | 282    | 293    | 239    | 266    | 285    | 279     |
| Manufacturing                               | 9,299  | 9,364  | 8,817  | 8,446  | 8,199  | 8,026  | 8,544   |
| Construction                                | 6,416  | 7,054  | 7,407  | 7,795  | 8,114  | 8,369  | 8,503   |
| Commerce                                    | 30,737 | 31,801 | 32,819 | 34,313 | 35,295 | 37,227 | 39,889  |
| Transport & Communications                  | 5,850  | 6,014  | 6,345  | 6,722  | 6,800  | 7,058  | 7,388   |
| Financial & Business Services               | 23,390 | 24,345 | 26,751 | 28,928 | 29,802 | 31,259 | 33,601  |
| Social, Personal & Community Services       | 3,595  | 3,802  | 4,073  | 4,452  | 4,728  | 5,302  | 6,080   |
| Others                                      | 20     | 17     | 19     | 25     | 34     | 42     | 49      |

Source : Singapore Department of Statistics  
Accounting and Corporate Regulatory Authority

## 8.2 ACTIVE BUSINESSES BY INDUSTRY

(End of period)

| Industry                                    |         |         |         |         |         |         | Number  |
|---------------------------------------------|---------|---------|---------|---------|---------|---------|---------|
|                                             | 1998    | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
| Total                                       | 101,583 | 103,877 | 103,760 | 105,251 | 106,319 | 114,286 | 112,620 |
| Agriculture, Fishing, Mining<br>& Quarrying | 498     | 506     | 502     | 429     | 435     | 457     | 446     |
| Manufacturing                               | 11,860  | 11,660  | 10,812  | 10,294  | 9,923   | 9,686   | 9,615   |
| Construction                                | 13,858  | 13,910  | 13,711  | 13,539  | 13,491  | 13,867  | 13,520  |
| Commerce                                    | 40,677  | 41,293  | 40,827  | 41,423  | 41,814  | 45,372  | 44,538  |
| Transport & Communications                  | 5,654   | 5,748   | 5,802   | 6,239   | 6,447   | 6,939   | 6,912   |
| Financial & Business Services               | 16,334  | 17,307  | 18,318  | 19,041  | 19,645  | 21,804  | 21,444  |
| Social, Personal & Community Services       | 12,656  | 13,395  | 13,730  | 14,231  | 14,503  | 16,074  | 16,046  |
| Others                                      | 46      | 58      | 58      | 55      | 61      | 87      | 99      |

Source : Singapore Department of Statistics  
Accounting and Corporate Regulatory Authority



### 8.3 FORMATION OF COMPANIES BY INDUSTRY

| Industry                                    | 1994  | 1999  | 2000   | 2001  | 2002   | 2003   | 2004   |
|---------------------------------------------|-------|-------|--------|-------|--------|--------|--------|
| Total                                       | 9,811 | 8,018 | 11,032 | 8,511 | 11,338 | 13,544 | 17,153 |
| Agriculture, Fishing, Mining<br>& Quarrying | 27    | 21    | 26     | 37    | 46     | 44     | 68     |
| Manufacturing                               | 1,140 | 809   | 821    | 747   | 789    | 754    | 1,018  |
| Construction                                | 553   | 629   | 667    | 546   | 615    | 652    | 720    |
| Commerce                                    | 3,719 | 2,663 | 3,027  | 2,717 | 4,048  | 5,007  | 6,150  |
| Transport & Communications                  | 573   | 493   | 1,096  | 558   | 685    | 748    | 1,042  |
| Financial & Business Services               | 3,275 | 2,976 | 4,707  | 3,123 | 4,136  | 4,977  | 6,594  |
| Others                                      | 524   | 427   | 688    | 783   | 1,019  | 1,362  | 1,561  |

Source : Accounting and Corporate Regulatory Authority

### 8.4 CESSATION OF COMPANIES BY INDUSTRY

| Industry                                    | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|---------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Total                                       | 2,380 | 5,685 | 5,165 | 4,920 | 6,721 | 7,580 | 6,413 |
| Agriculture, Fishing, Mining<br>& Quarrying | 19    | 16    | 22    | 27    | 18    | 25    | 21    |
| Manufacturing                               | 333   | 494   | 513   | 467   | 546   | 599   | 438   |
| Construction                                | 175   | 352   | 345   | 328   | 359   | 508   | 388   |
| Commerce                                    | 998   | 2,580 | 2,215 | 2,055 | 2,589 | 2,896 | 2,374 |
| Transport & Communications                  | 158   | 369   | 387   | 358   | 528   | 546   | 488   |
| Financial & Business Services               | 642   | 1,680 | 1,533 | 1,540 | 2,446 | 2,697 | 2,423 |
| Others                                      | 55    | 194   | 150   | 145   | 235   | 309   | 281   |

Source : Accounting and Corporate Regulatory Authority



## 8.5 FORMATION OF BUSINESSES BY INDUSTRY

| Industry                                    | Number |        |        |        |        |        |        |
|---------------------------------------------|--------|--------|--------|--------|--------|--------|--------|
|                                             | 1994   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
| Total                                       | 21,856 | 26,586 | 25,425 | 24,705 | 25,343 | 25,819 | 25,013 |
| Agriculture, Fishing, Mining<br>& Quarrying | 110    | 88     | 105    | 142    | 112    | 106    | 142    |
| Manufacturing                               | 1,723  | 1,697  | 1,991  | 1,755  | 1,337  | 937    | 954    |
| Construction                                | 2,505  | 3,158  | 2,847  | 2,286  | 1,783  | 1,474  | 1,346  |
| Commerce                                    | 9,923  | 10,650 | 9,753  | 10,074 | 10,655 | 11,084 | 10,645 |
| Transport & Communications                  | 1,315  | 1,664  | 1,683  | 1,392  | 1,263  | 1,339  | 1,304  |
| Financial & Business Services               | 4,010  | 6,086  | 6,287  | 5,878  | 6,679  | 6,922  | 6,651  |
| Others                                      | 2,270  | 3,243  | 2,759  | 3,178  | 3,514  | 3,957  | 3,971  |

Source : Singapore Department of Statistics  
Accounting and Corporate Regulatory Authority

## 8.6 CESSATION OF BUSINESSES BY INDUSTRY

| Industry                                    | Number |        |        |        |        |        |        |
|---------------------------------------------|--------|--------|--------|--------|--------|--------|--------|
|                                             | 1994   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
| Total                                       | 19,823 | 22,340 | 24,394 | 23,046 | 11,539 | 14,891 | 16,773 |
| Agriculture, Fishing, Mining<br>& Quarrying | 108    | 93     | 96     | 113    | 40     | 64     | 74     |
| Manufacturing                               | 2,036  | 1,808  | 1,776  | 1,689  | 928    | 1,059  | 1,055  |
| Construction                                | 2,249  | 3,126  | 3,236  | 3,088  | 1,341  | 1,788  | 1,664  |
| Commerce                                    | 9,502  | 9,492  | 10,352 | 9,348  | 4,863  | 6,323  | 7,301  |
| Transport & Communications                  | 1,153  | 1,271  | 1,342  | 1,359  | 616    | 770    | 852    |
| Financial & Business Services               | 3,055  | 4,244  | 5,064  | 5,096  | 2,418  | 3,144  | 3,736  |
| Others                                      | 1,720  | 2,306  | 2,528  | 2,353  | 1,333  | 1,743  | 2,091  |

Source : Singapore Department of Statistics  
Accounting and Corporate Regulatory Authority







## AGRICULTURE.

## ANIMAL PRODUCTION



### General

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

### Horticulture

The main crops cultivated are vegetables and orchids. Vegetable cultivation is highly intensive, producing mainly leafy vegetables like bayam, cai xin, kai lan, bai cai and xiao bai cai. Bean sprouts are also produced.

A number of farms and nurseries grow orchids, ornamental and foliage plants for export and domestic sale. Singapore is renowned for her orchid cut flowers, which are exported to many countries. The orchid and other horticultural enterprises are supported by plant tissue laboratories which produce several hundred thousands of plantlets.

### Fisheries

Local fish production comprises mainly catches from the sea with relatively small quantities from aquaculture fish farms. Singapore also imports, exports and tranships fish caught by foreign vessels.

The Jurong Fishery Port (JFP) plays an important role as a major fish landing and distribution point in Singapore. JFP handles about 77,000 tonnes of fish in 2004, which is the bulk of fresh fish landed by foreign vessels as well as those imported by air and road. The Senoko Fishery Port (SFP) began its operations in September 1997. SFP serves as a homebase for local fishing vessels. The port handles locally-produced and imported fish, totalling about 12,500 tonnes of fish in 2004. There are 92 seafood processing establishments licensed to manufacture fishery products in Singapore. Ten processing establishments and four coldstores are approved to export seafood products to the EU countries.

There are 90 licensed marine farms covering about 52.5 hectares of coastal waters, and deep sea, culturing high-value fish like groupers and seabass for the live fish market and supermarkets.



## 9.1 PRODUCTION OF PRINCIPAL CROPS

|                                      | 1994  | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
|--------------------------------------|-------|--------|--------|--------|--------|--------|--------|
| Vegetables (Tonnes)                  | 5,644 | 18,927 | 19,293 | 17,690 | 16,525 | 16,563 | 17,192 |
| Orchid Flowers (Million Stalks)      | 31    | 22     | 22     | 19     | 19     | 13     | 11     |
| Plants <sup>1</sup> (Million Plants) | 70    | 50     | 53     | 48     | 41     | 30     | 24     |

Source : Agri-Food &amp; Veterinary Authority

<sup>1</sup> Include potted plants, foliages, ornamental plants, aquatic plants and tissue-cultured plantlets.

## 9.2 LIVESTOCK SLAUGHTERED

|          | 1994   | 1999   | 2000   | 2001   | 2002   | 2003   | Thousand<br>2004 |
|----------|--------|--------|--------|--------|--------|--------|------------------|
| Poultry  | 43,012 | 52,215 | 50,155 | 50,213 | 51,721 | 49,315 | 38,653           |
| Chickens | 35,956 | 44,858 | 42,727 | 43,484 | 44,768 | 42,838 | 34,363           |
| Ducks    | 7,056  | 7,357  | 7,428  | 6,729  | 6,953  | 6,477  | 4,290            |
| Pigs     | 1,312  | 465    | 318    | 347    | 328    | 292    | 308              |

Source : Agri-Food &amp; Veterinary Authority

## 9.3 FISH SUPPLY AND AUCTION

|                               | 1994    | 1999    | 2000    | 2001    | 2002    | 2003    | Tonnes<br>2004 |
|-------------------------------|---------|---------|---------|---------|---------|---------|----------------|
| Fish Supply                   |         |         |         |         |         |         |                |
| Local Production <sup>1</sup> | 14,124  | 10,526  | 10,483  | 7,785   | 7,795   | 7,109   | 6,805          |
| Imports                       | 178,537 | 135,408 | 132,032 | 115,464 | 114,058 | 122,147 | 130,783        |
| Exports                       | 136,518 | 93,418  | 96,425  | 76,270  | 58,528  | 58,472  | 65,193         |
| Fish Auction                  | 92,550  | 87,305  | 82,750  | 75,603  | 78,361  | 78,348  | 77,115         |

Source : Agri-Food &amp; Veterinary Authority

International Enterprise Singapore

Note : Exclude dried, salted and fish in brine.

<sup>1</sup> Data include aquaculture production.











## 10 MANUFACTURING

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### Census of Manufacturing Activities

A census of manufacturing establishments is conducted annually by the Research and Statistics Unit, Economic Development Board. 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, industrial servicing and granite quarrying. They are classified according to the Singapore Standard Industrial Classification 2000.

The census is primarily conducted by mail, using three standard questionnaires. The reference period is the calendar year, except for those establishments whose financial years do not coincide with the calendar year.

### Definitions

*Establishments:* A manufacturing establishment is defined as a manufacturing unit engaged in one manufacturing activity and generally operating at one location.

*Workers:* They 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.

*Remuneration:* It 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:* The manufacturing output of industries refers to the total value of all commodities produced (including by-products) and industrial services rendered during the year.

*Total Output :* Total output includes manufacturing output and other operating income.

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

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

### Index of Industrial Production

The index of industrial production covers all manufacturing activities classified under Section D of the Singapore Standard Industrial Classification 2000. The indices published are at the 2-digit industry division and total manufacturing level.

The base year for the index of industrial production is 2003. The value added weighting pattern is obtained from the 2002 Census of Manufacturing Activities data. 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.

### Indices of Business and Labour Costs

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



## 10 MANUFACTURING (cont'd)

government rates and fees. The weighting pattern for the components is derived from the input-output tables. As a fixed-weight index, the UBCI takes the reference year of input-output tables as the base year. The Laspeyres' formula is used for the compilation of the index.

Unit labour cost is defined as the total labour cost per unit of real output. Total labour cost comprises wages and salaries, benefits, CPF contributions by employers, foreign workers' levy and skill development levy.

### Investment Commitments

Investment commitments refer to investment projects in terms of gross fixed assets which companies commit to invest in Singapore. Projects are only recorded as commitments if their potential for establishment

is favourable and the company has made a firm undertaking to implement the project.

### Pioneer Manufacturing Establishments

These are establishments, which had been granted approval under the Pioneer Industries Programme of the Economic Expansion Incentives Act. The principal statistics of these establishments were obtained from the Census of Manufacturing Activities.

### Other References

More detailed statistics on the manufacturing sector are available from the "Report on the Census of Industrial Production"/"Report on the Census of Manufacturing Activities". This report is published annually by the Research and Statistics Unit, Economic Development Board.



## 10.1 PRINCIPAL MANUFACTURING STATISTICS

|                      | Unit | 1994    | 1999    | 2000    | 2001    | 2002    | 2003    | 2004 <sup>p</sup> |
|----------------------|------|---------|---------|---------|---------|---------|---------|-------------------|
| Establishments       | No   | 4,013   | 3,928   | 4,044   | 4,041   | 8,609   | 8,597   | na                |
| Workers              | No   | 365,588 | 338,885 | 344,610 | 345,141 | 357,247 | 351,109 | 353,146           |
| Materials            | \$m  | 63,097  | 80,625  | 93,607  | 76,724  | 81,266  | 86,036  | 103,678           |
| Manufacturing Output | \$m  | 100,622 | 133,577 | 158,746 | 132,991 | 141,431 | 150,779 | 180,182           |
| Total Output         | \$m  | 103,013 | 136,937 | 163,721 | 138,323 | 147,296 | 158,697 | 189,789           |
| Value Added          | \$m  | 23,674  | 30,249  | 38,951  | 31,923  | 36,360  | 37,058  | 47,218            |
| Remuneration         | \$m  | 9,881   | 11,219  | 12,453  | 12,665  | 12,965  | 12,961  | 13,306            |
| Direct Exports       | \$m  | 61,532  | 85,360  | 93,861  | 84,209  | 88,384  | 98,725  | 115,171           |

Source : Economic Development Board

Notes : Prior to 2002, data refer to establishments engaging 10 or more workers.

From 2002, data include establishments with less than 10 workers.

Data exclude rubber processing and granite quarrying.

## 10.2 SELECTED AVERAGES AND RATIOS IN THE MANUFACTURING SECTOR

|                                           | Unit   | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004 <sup>p</sup> |
|-------------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------------------|
| Manufacturing Output<br>Per Worker        | \$'000 | 275.2 | 394.2 | 460.7 | 385.3 | 395.9 | 429.4 | 510.2             |
| Value Added<br>Per Worker                 | \$'000 | 64.8  | 89.3  | 113.0 | 92.5  | 101.8 | 105.5 | 133.7             |
| Value Added to<br>Total Output            | %      | 23.0  | 22.1  | 23.8  | 23.1  | 24.7  | 23.4  | 24.9              |
| Remuneration to<br>Value Added            | %      | 41.7  | 37.1  | 32.0  | 39.7  | 35.7  | 35.0  | 28.2              |
| Remuneration to<br>Total Output           | %      | 9.6   | 8.2   | 7.6   | 9.2   | 8.8   | 8.2   | 7.0               |
| Direct Exports to<br>Total Sales          | %      | 61.5  | 63.5  | 60.0  | 62.4  | 63.1  | 65.4  | 64.8              |
| Direct Exports to<br>Manufacturing Output | %      | 61.2  | 63.9  | 59.1  | 63.3  | 62.5  | 65.5  | 63.9              |

Source : Economic Development Board

Notes : Prior to 2002, data refer to establishments engaging 10 or more workers.

From 2002, data include establishments with less than 10 workers.

Data exclude rubber processing and granite quarrying.



# 10.3 MANUFACTURING ESTABLISHMENTS BY INDUSTRY

| Code                       | Industry                                                   | Number       |              |              |              |              |              |              |
|----------------------------|------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                            |                                                            | 1993         | 1998         | 1999         | 2000         | 2001         | 2002         | 2003         |
| 15/16                      | Food, Beverage & Tobacco                                   | 305          | 320          | 321          | 340          | 332          | 683          | 681          |
| 17                         | Textiles & Textile Manufactures                            | 65           | 42           | 42           | 41           | 33           | 126          | 128          |
| 18                         | Wearing Apparel except Footwear                            | 310          | 145          | 141          | 142          | 123          | 598          | 582          |
| 19                         | Leather, Leather Products & Footwear                       | 44           | 23           | 21           | 20           | 18           | 59           | 60           |
| 20                         | Wood & Wood Products except Furniture                      | 75           | 49           | 46           | 49           | 48           | 111          | 112          |
| 21                         | Paper & Paper Products                                     | 103          | 91           | 89           | 85           | 79           | 122          | 128          |
| 22                         | Printing & Reproduction of Recorded Media                  | 387          | 397          | 329          | 329          | 306          | 901          | 920          |
| 23                         | Refined Petroleum Products                                 | 16           | 18           | 18           | 18           | 18           | 17           | 17           |
| 24                         | Chemicals & Chemical Products                              | 174          | 210          | 231          | 236          | 247          | 293          | 304          |
| 25                         | Rubber & Plastic Products                                  | 333          | 339          | 321          | 323          | 314          | 422          | 422          |
| 26                         | Non-metallic Mineral Products                              | 92           | 91           | 94           | 98           | 94           | 149          | 146          |
| 27                         | Basic Metals                                               | 29           | 22           | 20           | 17           | 18           | 33           | 25           |
| 28                         | Fabricated Metal Products except Machinery & Apparatus     | 533          | 631          | 629          | 668          | 666          | 1,157        | 1,222        |
| 29                         | Machinery & Equipment                                      | 473          | 597          | 607          | 621          | 667          | 1,688        | 1,563        |
| 30                         | Electrical Machinery & Apparatus                           | 142          | 153          | 145          | 149          | 143          | 213          | 211          |
| 31                         | Electronic Products & Components                           | 241          | 223          | 205          | 197          | 190          | 220          | 220          |
| 32                         | Medical, Precision & Optical Instruments, Watches & Clocks | 60           | 63           | 64           | 68           | 75           | 126          | 119          |
| 33                         | Transport Equipment                                        | 285          | 308          | 317          | 341          | 366          | 573          | 612          |
| 34                         | Furniture & Other Manufacturing Industries                 | 319          | 270          | 274          | 285          | 287          | 1,094        | 1,098        |
| 35                         | Recycling of Metal/Non-metal Waste & Scrap                 | 7            | 12           | 14           | 17           | 17           | 24           | 27           |
| <b>Total Manufacturing</b> |                                                            | <b>3,993</b> | <b>4,004</b> | <b>3,928</b> | <b>4,044</b> | <b>4,041</b> | <b>8,609</b> | <b>8,597</b> |

Source : Economic Development Board

Notes : Prior to 2002, data refer to establishments engaging 10 or more workers.

From 2002, data include establishments with less than 10 workers.

Data exclude rubber processing and granite quarrying.

From 1999, the industries are classified according to Singapore Standard Industrial Classification (SSIC) 2000.

Prior to 1999, the industries are classified according to SSIC 1996.



# 10.4 MANUFACTURING OUTPUT BY INDUSTRY

|                            |                                                            | Million Dollars  |                  |                  |                  |                  |                  |                   |
|----------------------------|------------------------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| Code                       | Industry                                                   | 1994             | 1999             | 2000             | 2001             | 2002             | 2003             | 2004 <sup>p</sup> |
| 15/16                      | Food, Beverage & Tobacco                                   | 3,457.4          | 3,379.5          | 3,372.1          | 3,358.6          | 3,715.7          | 3,743.5          | 3,943.6           |
| 17                         | Textiles & Textile Manufactures                            | 320.8            | 234.9            | 281.6            | 262.8            | 243.4            | 291.0            | 247.2             |
| 18                         | Wearing Apparel except Footwear                            | 1,205.8          | 806.6            | 987.3            | 795.7            | 796.3            | 762.7            | 748.6             |
| 19                         | Leather, Leather Products & Footwear                       | 121.4            | 163.4            | 196.0            | 180.7            | 182.2            | 202.6            | 219.3             |
| 20                         | Wood & Wood Products except Furniture                      | 283.3            | 249.4            | 279.0            | 235.9            | 248.9            | 243.5            | 268.5             |
| 21                         | Paper & Paper Products                                     | 950.4            | 827.2            | 820.0            | 773.4            | 825.7            | 838.7            | 850.0             |
| 22                         | Printing & Reproduction of Recorded Media                  | 2,446.5          | 2,663.8          | 2,982.3          | 2,707.7          | 2,589.7          | 2,649.3          | 2,688.7           |
| 23                         | Refined Petroleum Products                                 | 10,909.5         | 13,594.7         | 19,610.9         | 17,740.5         | 17,699.3         | 21,239.8         | 27,815.6          |
| 24                         | Chemicals & Chemical Products                              | 5,918.7          | 13,869.9         | 15,943.8         | 15,791.8         | 21,430.5         | 27,271.0         | 35,952.7          |
| 25                         | Rubber & Plastic Products                                  | 2,275.7          | 2,655.1          | 3,318.4          | 2,618.5          | 2,813.6          | 2,693.1          | 2,597.5           |
| 26                         | Non-metallic Mineral Products                              | 2,001.9          | 1,685.6          | 1,656.3          | 1,262.2          | 1,323.2          | 1,294.9          | 1,372.7           |
| 27                         | Basic Metals                                               | 720.9            | 546.3            | 489.4            | 494.4            | 553.2            | 493.9            | 692.4             |
| 28                         | Fabricated Metal Products except Machinery & Apparatus     | 5,607.5          | 6,455.7          | 7,268.4          | 6,085.9          | 6,419.7          | 6,407.0          | 7,060.0           |
| 29                         | Machinery & Equipment                                      | 4,965.1          | 6,098.5          | 7,456.9          | 6,855.4          | 7,756.9          | 8,005.8          | 9,774.2           |
| 30                         | Electrical Machinery & Apparatus                           | 2,797.1          | 2,387.0          | 2,556.6          | 2,143.8          | 2,149.6          | 2,066.7          | 2,066.4           |
| 31                         | Electronic Products & Components                           | 48,725.3         | 68,718.5         | 81,802.7         | 60,513.9         | 60,063.9         | 59,718.0         | 69,460.1          |
| 32                         | Medical, Precision & Optical Instruments, Watches & Clocks | 1,184.8          | 2,460.4          | 2,763.7          | 2,934.8          | 3,072.5          | 3,138.8          | 3,304.0           |
| 33                         | Transport Equipment                                        | 5,071.6          | 5,759.4          | 5,792.7          | 7,048.3          | 7,928.5          | 8,115.8          | 9,317.5           |
| 34                         | Furniture & Other Manufacturing Industries                 | 1,639.2          | 957.2            | 1,027.8          | 961.5            | 1,222.8          | 1,186.8          | 1,180.6           |
| 35                         | Recycling of Metal/Non-metal Waste & Scrap                 | 19.4             | 64.2             | 139.8            | 225.4            | 395.3            | 416.7            | 622.3             |
| <b>Total Manufacturing</b> |                                                            | <b>100,622.1</b> | <b>133,577.3</b> | <b>158,745.7</b> | <b>132,990.7</b> | <b>141,430.7</b> | <b>150,779.3</b> | <b>180,181.9</b>  |

Source : Economic Development Board

Notes : Prior to 2002, data refer to establishments engaging 10 or more workers.

From 2002, data include establishments with less than 10 workers.

Data exclude rubber processing and granite quarrying.

From 1999, the industries are classified according to Singapore Standard Industrial Classification (SSIC) 2000.

Prior to 1999, the industries are classified according to SSIC 1996.



# 10.5 TOTAL OUTPUT BY INDUSTRY

|                            |                                                            | Million Dollars  |                  |                  |                  |                  |                  |                   |
|----------------------------|------------------------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| Code                       | Industry                                                   | 1994             | 1999             | 2000             | 2001             | 2002             | 2003             | 2004 <sup>P</sup> |
| 15/16                      | Food, Beverage & Tobacco                                   | 3,580.2          | 3,668.0          | 3,602.0          | 3,660.2          | 4,000.0          | 3,994.0          | 4,214.5           |
| 17                         | Textiles & Textile Manufactures                            | 328.9            | 245.6            | 289.4            | 274.7            | 254.6            | 300.3            | 252.6             |
| 18                         | Wearing Apparel except Footwear                            | 1,261.7          | 858.3            | 1,060.0          | 833.5            | 835.9            | 791.5            | 781.2             |
| 19                         | Leather, Leather Products & Footwear                       | 125.4            | 168.3            | 206.7            | 191.5            | 190.3            | 207.6            | 222.3             |
| 20                         | Wood & Wood Products except Furniture                      | 299.2            | 261.0            | 290.2            | 252.6            | 264.1            | 256.1            | 274.5             |
| 21                         | Paper & Paper Products                                     | 992.3            | 861.6            | 859.0            | 802.3            | 863.6            | 874.7            | 884.5             |
| 22                         | Printing & Reproduction of Recorded Media                  | 2,486.9          | 2,714.2          | 3,043.8          | 2,750.6          | 2,639.5          | 2,694.1          | 2,734.9           |
| 23                         | Refined Petroleum Products                                 | 11,061.4         | 14,097.3         | 20,089.5         | 18,264.9         | 18,412.5         | 21,969.6         | 28,514.4          |
| 24                         | Chemicals & Chemical Products                              | 6,203.0          | 14,370.2         | 16,406.2         | 16,767.8         | 22,451.0         | 28,453.7         | 38,347.9          |
| 25                         | Rubber & Plastic Products                                  | 2,348.1          | 2,762.8          | 3,433.8          | 2,764.7          | 2,955.5          | 2,845.1          | 2,753.6           |
| 26                         | Non-metallic Mineral Products                              | 2,039.1          | 1,708.2          | 1,684.2          | 1,302.4          | 1,410.0          | 1,377.5          | 1,457.7           |
| 27                         | Basic Metals                                               | 726.4            | 554.4            | 501.5            | 506.5            | 568.4            | 508.7            | 708.9             |
| 28                         | Fabricated Metal Products except Machinery & Apparatus     | 5,730.8          | 6,643.3          | 7,449.4          | 6,290.6          | 6,639.7          | 6,596.2          | 7,328.5           |
| 29                         | Machinery & Equipment                                      | 5,206.1          | 6,355.7          | 7,712.6          | 7,194.3          | 8,069.4          | 8,289.1          | 10,088.7          |
| 30                         | Electrical Machinery & Apparatus                           | 2,922.0          | 2,577.2          | 2,808.1          | 2,350.3          | 2,345.3          | 2,269.3          | 2,294.5           |
| 31                         | Electronic Products & Components                           | 49,294.5         | 69,362.3         | 83,950.7         | 62,201.5         | 61,897.6         | 63,509.5         | 73,632.5          |
| 32                         | Medical, Precision & Optical Instruments, Watches & Clocks | 1,252.5          | 2,517.4          | 2,822.6          | 3,051.2          | 3,281.9          | 3,418.9          | 3,533.8           |
| 33                         | Transport Equipment                                        | 5,394.5          | 6,093.1          | 6,190.7          | 7,527.2          | 8,447.4          | 8,604.3          | 9,857.6           |
| 34                         | Furniture & Other Manufacturing Industries                 | 1,739.9          | 1,052.3          | 1,172.7          | 1,107.8          | 1,372.2          | 1,317.9          | 1,282.7           |
| 35                         | Recycling of Metal/Non-metal Waste & Scrap                 | 20.6             | 65.7             | 147.8            | 228.5            | 396.7            | 418.9            | 623.7             |
| <b>Total Manufacturing</b> |                                                            | <b>103,013.4</b> | <b>136,937.0</b> | <b>163,720.8</b> | <b>138,323.0</b> | <b>147,295.6</b> | <b>158,696.8</b> | <b>189,788.9</b>  |

Source : Economic Development Board

Notes : Prior to 2002, data refer to establishments engaging 10 or more workers.

From 2002, data include establishments with less than 10 workers.

Data exclude rubber processing and granite quarrying.

From 1999, the industries are classified according to Singapore Standard Industrial Classification (SSIC) 2000.

Prior to 1999, the industries are classified according to SSIC 1996.



# 10.6 VALUE ADDED OF MANUFACTURING ESTABLISHMENTS BY INDUSTRY

|                            |                                                            | Million Dollar  |                 |                 |                 |                 |                 |                   |
|----------------------------|------------------------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| Code                       | Industry                                                   | 1994            | 1999            | 2000            | 2001            | 2002            | 2003            | 2004 <sup>P</sup> |
| 15/16                      | Food, Beverage & Tobacco                                   | 939.1           | 1,025.7         | 992.2           | 998.9           | 1,007.7         | 1,002.2         | 1,058.7           |
| 17                         | Textiles & Textile Manufactures                            | 90.6            | 79.2            | 77.0            | 57.9            | 59.8            | 65.6            | 41.1              |
| 18                         | Wearing Apparel except Footwear                            | 298.1           | 230.9           | 247.0           | 212.3           | 212.1           | 194.6           | 199.9             |
| 19                         | Leather, Leather Products & Footwear                       | 39.1            | 39.3            | 48.9            | 52.8            | 42.9            | 49.8            | 53.8              |
| 20                         | Wood & Wood Products except Furniture                      | 70.9            | 66.3            | 70.8            | 63.9            | 60.2            | 59.0            | 79.3              |
| 21                         | Paper & Paper Products                                     | 404.0           | 334.7           | 339.4           | 239.5           | 256.8           | 201.2           | 202.3             |
| 22                         | Printing & Reproduction of Recorded Media                  | 1,269.9         | 1,364.4         | 1,502.5         | 1,254.5         | 1,278.5         | 1,257.0         | 1,312.4           |
| 23                         | Refined Petroleum Products                                 | 1,377.4         | 1,146.1         | 1,747.6         | 1,290.9         | 1,457.0         | 1,522.0         | 2,698.3           |
| 24                         | Chemicals & Chemical Products                              | 2,307.4         | 3,753.4         | 5,516.1         | 5,277.5         | 7,842.5         | 9,048.4         | 13,463.3          |
| 25                         | Rubber & Plastic Products                                  | 798.8           | 931.6           | 1,110.1         | 958.2           | 995.5           | 1,008.1         | 986.5             |
| 26                         | Non-metallic Mineral Products                              | 536.2           | 472.7           | 424.9           | 296.1           | 379.0           | 398.3           | 414.0             |
| 27                         | Basic Metals                                               | 163.9           | 148.7           | 112.5           | 93.8            | 99.5            | 91.4            | 90.8              |
| 28                         | Fabricated Metal Products except Machinery & Apparatus     | 1,606.7         | 1,938.9         | 2,083.6         | 1,744.3         | 1,924.7         | 1,886.9         | 2,101.0           |
| 29                         | Machinery & Equipment                                      | 1,560.2         | 2,000.7         | 2,678.0         | 2,487.2         | 2,702.0         | 2,828.6         | 3,344.4           |
| 30                         | Electrical Machinery & Apparatus                           | 830.0           | 776.1           | 814.9           | 698.6           | 723.0           | 716.6           | 776.7             |
| 31                         | Electronic Products & Components                           | 8,627.0         | 12,320.6        | 17,228.3        | 11,615.3        | 12,191.3        | 11,678.1        | 14,930.4          |
| 32                         | Medical, Precision & Optical Instruments, Watches & Clocks | 515.0           | 1,066.8         | 1,265.1         | 1,332.2         | 1,449.5         | 1,508.1         | 1,490.1           |
| 33                         | Transport Equipment                                        | 1,884.9         | 2,240.7         | 2,339.2         | 2,913.2         | 3,239.3         | 3,091.7         | 3,518.9           |
| 34                         | Furniture & Other Manufacturing Industries                 | 348.9           | 293.2           | 317.4           | 300.3           | 383.9           | 381.3           | 368.1             |
| 35                         | Recycling of Metal/Non-metal Waste & Scrap                 | 6.1             | 19.2            | 35.5            | 35.2            | 54.6            | 69.2            | 88.0              |
| <b>Total Manufacturing</b> |                                                            | <b>23,674.0</b> | <b>30,249.2</b> | <b>38,951.0</b> | <b>31,922.8</b> | <b>36,359.6</b> | <b>37,058.0</b> | <b>47,218.2</b>   |

Source : Economic Development Board

Notes : Prior to 2002, data refer to establishments engaging 10 or more workers.

From 2002, data include establishments with less than 10 workers.

Data exclude rubber processing and granite quarrying.

From 1999, the industries are classified according to Singapore Standard Industrial Classification (SSIC) 2000.

Prior to 1999, the industries are classified according to SSIC 1996.



# 10.7 WORKERS IN MANUFACTURING BY INDUSTRY

| Code                       | Industry                                                   | Number         |                |                |                |                |                |                   |
|----------------------------|------------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|
|                            |                                                            | 1994           | 1999           | 2000           | 2001           | 2002           | 2003           | 2004 <sup>P</sup> |
| 15/16                      | Food, Beverage & Tobacco                                   | 14,673         | 15,216         | 15,295         | 16,102         | 18,430         | 19,155         | 18,756            |
| 17                         | Textiles & Textile Manufactures                            | 2,613          | 1,533          | 1,556          | 1,477          | 1,663          | 1,755          | 1,623             |
| 18                         | Wearing Apparel except Footwear                            | 18,143         | 8,198          | 8,519          | 8,081          | 9,314          | 8,746          | 8,424             |
| 19                         | Leather, Leather Products & Footwear                       | 1,187          | 905            | 945            | 956            | 971            | 1,045          | 1,107             |
| 20                         | Wood & Wood Products except Furniture                      | 1,749          | 1,567          | 1,569          | 1,593          | 1,747          | 1,759          | 1,638             |
| 21                         | Paper & Paper Products                                     | 5,475          | 4,722          | 4,544          | 4,357          | 4,337          | 4,302          | 4,229             |
| 22                         | Printing & Reproduction of Recorded Media                  | 18,115         | 17,174         | 18,447         | 18,407         | 19,112         | 18,342         | 18,018            |
| 23                         | Refined Petroleum Products                                 | 3,752          | 3,152          | 2,855          | 2,850          | 2,948          | 3,122          | 3,067             |
| 24                         | Chemicals & Chemical Products                              | 11,995         | 15,751         | 16,933         | 17,966         | 18,770         | 19,567         | 19,808            |
| 25                         | Rubber & Plastic Products                                  | 19,255         | 20,133         | 21,633         | 20,936         | 20,366         | 19,822         | 19,505            |
| 26                         | Non-metallic Mineral Products                              | 6,589          | 6,055          | 6,195          | 5,706          | 5,617          | 5,164          | 5,113             |
| 27                         | Basic Metals                                               | 2,301          | 1,541          | 1,460          | 1,495          | 1,308          | 1,407          | 1,395             |
| 28                         | Fabricated Metal Products except Machinery & Apparatus     | 32,450         | 38,072         | 39,189         | 37,592         | 38,679         | 38,129         | 37,375            |
| 29                         | Machinery & Equipment                                      | 31,700         | 36,363         | 38,405         | 40,662         | 43,145         | 42,170         | 42,404            |
| 30                         | Electrical Machinery & Apparatus                           | 17,170         | 10,976         | 10,654         | 10,053         | 9,343          | 8,867          | 8,191             |
| 31                         | Electronic Products & Components                           | 122,380        | 105,826        | 102,320        | 98,012         | 92,011         | 87,508         | 90,096            |
| 32                         | Medical, Precision & Optical Instruments, Watches & Clocks | 9,266          | 8,558          | 9,649          | 10,388         | 10,388         | 10,406         | 10,494            |
| 33                         | Transport Equipment                                        | 34,964         | 35,074         | 35,844         | 39,388         | 47,522         | 48,687         | 50,764            |
| 34                         | Furniture & Other Manufacturing Industries                 | 11,692         | 7,724          | 8,015          | 8,496          | 10,889         | 10,429         | 10,411            |
| 35                         | Recycling of Metal/Non-metal Waste & Scrap                 | 119            | 345            | 583            | 624            | 687            | 727            | 728               |
| <b>Total Manufacturing</b> |                                                            | <b>365,588</b> | <b>338,885</b> | <b>344,610</b> | <b>345,141</b> | <b>357,247</b> | <b>351,109</b> | <b>353,146</b>    |

Source : Economic Development Board

Notes : Prior to 2002, data refer to establishments engaging 10 or more workers.

From 2002, data include establishments with less than 10 workers.

Data exclude rubber processing and granite quarrying.

From 1999, the industries are classified according to Singapore Standard Industrial Classification (SSIC) 2000.

Prior to 1999, the industries are classified according to SSIC 1996.



# 10.8 REMUNERATION IN MANUFACTURING BY INDUSTRY

Million Dollars

| Code                       | Industry                                                   | 1994           | 1999            | 2000            | 2001            | 2002            | 2003            | 2004 <sup>p</sup> |
|----------------------------|------------------------------------------------------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| 15/16                      | Food, Beverage & Tobacco                                   | 400.1          | 433.6           | 466.2           | 496.5           | 540.0           | 556.1           | 546.7             |
| 17                         | Textiles & Textile Manufactures                            | 56.8           | 38.5            | 43.3            | 39.7            | 39.5            | 43.9            | 39.5              |
| 18                         | Wearing Apparel except Footwear                            | 263.8          | 151.1           | 162.2           | 149.5           | 172.4           | 159.0           | 146.3             |
| 19                         | Leather, Leather Products & Footwear                       | 26.0           | 23.0            | 24.1            | 27.9            | 27.4            | 30.9            | 33.1              |
| 20                         | Wood & Wood Products except Furniture                      | 40.5           | 39.6            | 44.1            | 42.5            | 42.5            | 42.1            | 40.3              |
| 21                         | Paper & Paper Products                                     | 153.0          | 149.2           | 149.2           | 144.7           | 144.5           | 143.3           | 150.5             |
| 22                         | Printing & Reproduction of Recorded Media                  | 587.6          | 613.6           | 710.1           | 722.0           | 699.6           | 695.9           | 714.9             |
| 23                         | Refined Petroleum Products                                 | 280.8          | 293.1           | 293.2           | 315.5           | 365.5           | 373.5           | 396.4             |
| 24                         | Chemicals & Chemical Products                              | 554.4          | 983.4           | 1,104.1         | 1,246.0         | 1,224.5         | 1,271.0         | 1,278.3           |
| 25                         | Rubber & Plastic Products                                  | 444.8          | 524.1           | 597.5           | 584.3           | 575.4           | 568.5           | 575.5             |
| 26                         | Non-metallic Mineral Products                              | 195.5          | 180.8           | 191.4           | 175.8           | 177.2           | 169.8           | 173.0             |
| 27                         | Basic Metals                                               | 84.2           | 65.7            | 68.6            | 67.1            | 63.0            | 67.9            | 61.0              |
| 28                         | Fabricated Metal Products except Machinery & Apparatus     | 845.5          | 1,035.0         | 1,135.2         | 1,109.1         | 1,120.1         | 1,130.0         | 1,126.8           |
| 29                         | Machinery & Equipment                                      | 967.4          | 1,205.9         | 1,344.3         | 1,453.7         | 1,597.4         | 1,562.0         | 1,571.7           |
| 30                         | Electrical Machinery & Apparatus                           | 449.0          | 368.9           | 387.9           | 366.9           | 361.2           | 329.1           | 317.1             |
| 31                         | Electronic Products & Components                           | 2,953.4        | 3,386.0         | 3,870.0         | 3,685.8         | 3,541.5         | 3,450.7         | 3,659.4           |
| 32                         | Medical, Precision & Optical Instruments, Watches & Clocks | 240.8          | 297.9           | 336.7           | 382.3           | 377.0           | 386.6           | 401.3             |
| 33                         | Transport Equipment                                        | 1,081.9        | 1,225.8         | 1,288.2         | 1,409.1         | 1,590.1         | 1,688.7         | 1,794.8           |
| 34                         | Furniture & Other Manufacturing Industries                 | 252.0          | 194.0           | 217.2           | 225.5           | 277.5           | 264.9           | 251.0             |
| 35                         | Recycling of Metal/Non-metal Waste & Scrap                 | 3.6            | 10.3            | 19.6            | 21.4            | 28.1            | 27.5            | 28.8              |
| <b>Total Manufacturing</b> |                                                            | <b>9,881.0</b> | <b>11,219.3</b> | <b>12,453.1</b> | <b>12,665.1</b> | <b>12,964.6</b> | <b>12,961.3</b> | <b>13,306.5</b>   |

Source : Economic Development Board

Notes : Prior to 2002, data refer to establishments engaging 10 or more workers.

From 2002, data include establishments with less than 10 workers.

Data exclude rubber processing and granite quarrying.

From 1999, the industries are classified according to Singapore Standard Industrial Classification (SSIC) 2000.

Prior to 1999, the industries are classified according to SSIC 1996.



# 10.9 INDEX OF INDUSTRIAL PRODUCTION

(2003 = 100)

| Code  | Industry                                                  | 1994        | 1999        | 2000         | 2001        | 2002        | 2003         | 2004         |
|-------|-----------------------------------------------------------|-------------|-------------|--------------|-------------|-------------|--------------|--------------|
| 15/16 | Food, Beverage & Tobacco                                  | 115.9       | 97.5        | 99.0         | 103.2       | 100.3       | 100.0        | 101.7        |
| 17    | Textiles & Textile Manufactures                           | 244.4       | 133.2       | 156.1        | 132.5       | 95.4        | 100.0        | 85.6         |
| 18    | Wearing Apparel except Footwear                           | 162.7       | 122.9       | 140.0        | 117.9       | 102.5       | 100.0        | 97.9         |
| 19    | Leather, Leather Products & Footwear                      | 136.1       | 119.1       | 138.0        | 128.3       | 110.4       | 100.0        | 110.6        |
| 20    | Wood & Wood Products except Furniture                     | 135.0       | 116.8       | 124.7        | 108.0       | 90.9        | 100.0        | 117.9        |
| 21    | Paper & Paper Products                                    | 117.1       | 101.4       | 100.1        | 93.3        | 100.0       | 100.0        | 105.6        |
| 22    | Printing & Reproduction of Recorded Media                 | 103.9       | 110.6       | 126.0        | 109.4       | 100.4       | 100.0        | 101.2        |
| 23    | Refined Petroleum Products                                | 105.9       | 102.2       | 93.0         | 94.1        | 94.3        | 100.0        | 111.3        |
| 24    | Chemicals & Chemical Products                             | 26.7        | 57.2        | 60.8         | 65.6        | 90.8        | 100.0        | 120.4        |
| 25    | Rubber & Plastic Products                                 | 117.9       | 105.9       | 130.5        | 97.9        | 107.2       | 100.0        | 97.3         |
| 26    | Non-metallic Mineral Products                             | 154.7       | 144.9       | 145.2        | 108.6       | 109.8       | 100.0        | 114.2        |
| 27    | Basic Metals                                              | 120.2       | 106.2       | 112.7        | 113.4       | 116.2       | 100.0        | 118.8        |
| 28    | Fabricated Metal Products except Machinery & Apparatus    | 127.7       | 128.4       | 139.6        | 113.1       | 110.1       | 100.0        | 105.9        |
| 29    | Machinery & Equipment                                     | 84.1        | 92.4        | 117.3        | 98.3        | 99.2        | 100.0        | 119.9        |
| 30    | Electrical Machinery & Apparatus                          | 113.0       | 102.7       | 112.3        | 98.4        | 101.8       | 100.0        | 104.6        |
| 31    | Electronic Products & Components                          | 58.6        | 92.6        | 116.0        | 91.2        | 95.0        | 100.0        | 114.8        |
| 32    | Medical, Precision & Optical Instrument, Watches & Clocks | 38.7        | 76.2        | 85.1         | 88.2        | 97.5        | 100.0        | 104.9        |
| 33    | Transport Equipment                                       | 68.9        | 77.9        | 78.6         | 96.7        | 105.6       | 100.0        | 119.5        |
| 34    | Furniture & Other Manufacturing Industries                | 206.4       | 112.3       | 109.8        | 109.4       | 97.9        | 100.0        | 92.0         |
| 35    | Recycling of Metal/Non-Metal Waste & Scrap                | na          | na          | na           | na          | na          | 100.0        | 146.8        |
|       | <b>Total Manufacturing</b>                                | <b>64.9</b> | <b>87.8</b> | <b>101.3</b> | <b>89.5</b> | <b>97.1</b> | <b>100.0</b> | <b>113.9</b> |

Source : Economic Development Board

Note : The industries are classified according to Singapore Standard Industrial Classification (SSIC) 2000.



## 10.10 INDICES OF UNIT BUSINESS COST AND UNIT LABOUR COST

(1993=100)

|                                     | Weights <sup>1</sup> | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|-------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Unit Business Cost of Manufacturing |                      |       |       |       |       |       |       |       |
| Total                               | 100.0                | 99.7  | 91.6  | 92.5  | 99.3  | 94.2  | 92.6  | 89.1  |
| Unit Labour Cost                    | 46.4                 | 96.9  | 82.9  | 80.5  | 93.0  | 86.8  | 83.0  | 75.4  |
| Services Cost                       | 51.6                 | 102.2 | 99.8  | 103.5 | 105.3 | 101.5 | 101.6 | 101.5 |
| Government Rates & Fees             | 2.0                  | 102.4 | 80.3  | 88.4  | 90.3  | 81.2  | 84.8  | 88.9  |
| Unit Labour Cost of Overall Economy |                      | 102.1 | 101.0 | 102.7 | 107.4 | 106.2 | 105.4 | 101.2 |

1 The weights are based on the 1993 input structure and are used in the computation of the indices from 1993 onwards.

## 10.11 PRINCIPAL STATISTICS OF PIONEER MANUFACTURING ESTABLISHMENTS

(End of Period)

|                        | Unit    | 1993    | 1998    | 1999    | 2000    | 2001    | 2002    | 2003    |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Establishments         | No      | 421     | 361     | 360     | 362     | 373     | 360     | 353     |
| Workers                | No      | 162,341 | 151,901 | 142,321 | 139,389 | 137,788 | 135,763 | 132,363 |
| Materials              | \$m     | 36,315  | 52,912  | 56,498  | 67,088  | 53,462  | 54,900  | 59,638  |
| Manufacturing Output   | \$m     | 56,334  | 82,439  | 90,835  | 113,656 | 92,129  | 96,533  | 105,649 |
| Total Output           | \$m     | 56,955  | 83,825  | 92,292  | 116,613 | 94,788  | 99,706  | 110,810 |
| Value Added            | \$m     | 12,906  | 17,005  | 18,073  | 26,783  | 20,425  | 23,943  | 24,660  |
| Remuneration           | \$m     | 4,271   | 5,472   | 5,174   | 5,841   | 5,817   | 5,850   | 5,856   |
| Gross Fixed Assets     | \$m     | 27,389  | 43,032  | 45,736  | 54,199  | 61,779  | 64,523  | 66,536  |
| Direct Exports         | \$m     | 39,461  | 59,211  | 65,755  | 75,765  | 67,493  | 68,971  | 78,357  |
| Value Added Per Worker | \$ '000 | 79      | 112     | 127     | 192     | 148     | 176     | 186     |

Source : Economic Development Board



# 10.12 PRINCIPAL STATISTICS OF PIONEER MANUFACTURING ESTABLISHMENTS BY INDUSTRY, DECEMBER 2003

| Industry                                 | Establish-<br>ments | Workers | Materials       | Manufacturing<br>Output | Total<br>Output |
|------------------------------------------|---------------------|---------|-----------------|-------------------------|-----------------|
|                                          | Number              |         | Million Dollars |                         |                 |
| Total                                    | 353                 | 132,363 | 59,638          | 105,649                 | 110,810         |
| Food & Beverages                         | 7                   | 910     | 251             | 384                     | 472             |
| Petroleum, Chemicals & Chemical Products | 78                  | 11,911  | 22,213          | 36,384                  | 37,357          |
| Rubber & Plastic Products                | 15                  | 2,375   | 140             | 396                     | 409             |
| Non-metallic Mineral Products            | 7                   | 1,376   | 149             | 505                     | 521             |
| Fabricated Metal Products                | 30                  | 5,085   | 626             | 1,097                   | 1,127           |
| Machinery & Equipment                    | 61                  | 11,542  | 1,635           | 3,160                   | 3,252           |
| Electrical Machinery & Apparatus         | 12                  | 3,045   | 393             | 889                     | 996             |
| Electronic Products & Components         | 75                  | 73,284  | 31,099          | 55,555                  | 59,042          |
| Instrumentation Equipment                | 20                  | 7,275   | 1,082           | 2,656                   | 2,910           |
| Transport Equipment                      | 30                  | 12,977  | 1,449           | 3,750                   | 3,820           |
| Miscellaneous                            | 18                  | 2,583   | 601             | 873                     | 904             |

| Industry                                 | Value<br>Added  | Remun-<br>eration | Gross Fixed<br>Assets | Direct<br>Exports | Value Added<br>Per Worker |
|------------------------------------------|-----------------|-------------------|-----------------------|-------------------|---------------------------|
|                                          | Million Dollars |                   |                       |                   | \$ ' 000                  |
| Total                                    | 24,660          | 5,856             | 66,536                | 78,357            | 186                       |
| Food & Beverages                         | 95              | 38                | 363                   | 274               | 104                       |
| Petroleum, Chemicals & Chemical Products | 8,844           | 987               | 24,132                | 21,338            | 743                       |
| Rubber & Plastic Products                | 190             | 84                | 487                   | 263               | 80                        |
| Non-metallic Mineral Products            | 225             | 60                | 928                   | 400               | 163                       |
| Fabricated Metal Products                | 334             | 184               | 799                   | 626               | 66                        |
| Machinery & Equipment                    | 1,015           | 502               | 2,083                 | 2,013             | 88                        |
| Electrical Machinery & Apparatus         | 350             | 121               | 859                   | 722               | 115                       |
| Electronic Products & Components         | 10,784          | 2,930             | 32,702                | 47,045            | 147                       |
| Instrumentation Equipment                | 1,321           | 268               | 1,251                 | 2,508             | 182                       |
| Transport Equipment                      | 1,342           | 573               | 2,159                 | 2,736             | 103                       |
| Miscellaneous                            | 159             | 108               | 774                   | 432               | 62                        |

Source : Economic Development Board



# 10.13 NET INVESTMENT COMMITMENTS IN MANUFACTURING <sup>1</sup> BY INDUSTRY

| Industry                         | Million Dollars |         |         |         |         |         |                   |
|----------------------------------|-----------------|---------|---------|---------|---------|---------|-------------------|
|                                  | 1994            | 1999    | 2000    | 2001    | 2002    | 2003    | 2004 <sup>p</sup> |
| Total                            | 5,764.7         | 8,037.4 | 9,208.9 | 9,171.7 | 9,008.7 | 7,511.0 | 8,258.1           |
| Food, Beverage & Tobacco         | 36.3            | 253.4   | 0.8     | 23.3    | 40.0    | 100.7   | 222.2             |
| Petroleum & Chemical Products    | 2,486.9         | 2,901.5 | 2,897.1 | 2,603.0 | 2,555.3 | 2,070.6 | 2,180.4           |
| Rubber & Plastic Products        | 36.8            | 84.6    | 71.5    | 234.8   | 51.1    | 136.4   | 85.5              |
| Fabricated Metal Products        | 249.5           | 299.6   | 388.6   | 213.9   | 373.0   | 57.4    | 58.9              |
| Machinery & Equipment            | 224.6           | 486.8   | 435.0   | 500.8   | 436.3   | 277.4   | 233.8             |
| Electronic Products & Components | 1,494.7         | 3,290.7 | 4,451.2 | 4,612.7 | 4,652.2 | 4,224.1 | 4,571.1           |
| Instrumentation Equipment        | 26.5            | 116.7   | 103.5   | 264.8   | 197.0   | 246.1   | 244.7             |
| Transport Equipment              | 555.3           | 317.3   | 443.7   | 398.3   | 288.5   | 184.1   | 450.0             |
| Other Manufacturing Industries   | 654.1           | 286.8   | 417.5   | 320.1   | 415.3   | 214.2   | 211.5             |

Source : Economic Development Board

Note : Net investment commitments refer to gross commitments less projects withdrawn or uncertain as at 31 December 2004.

The industries are classified according to the Singapore Standard Industrial Classification 2000 with effect from 2001.

1 Including servicing, engineering and R&D.

# 10.14 NET INVESTMENT COMMITMENTS IN MANUFACTURING BY COUNTRY OF ORIGIN

|               | Million Dollars |         |         |         |         |         |                   |
|---------------|-----------------|---------|---------|---------|---------|---------|-------------------|
|               | 1994            | 1999    | 2000    | 2001    | 2002    | 2003    | 2004 <sup>p</sup> |
| Total         | 5,764.7         | 8,037.4 | 9,208.9 | 9,171.7 | 9,008.7 | 7,511.0 | 8,258.1           |
| Local         | 1,437.2         | 1,780.3 | 1,973.6 | 2,562.5 | 1,969.7 | 1,240.0 | 2,256.3           |
| Foreign       | 4,327.5         | 6,257.1 | 7,235.3 | 6,609.2 | 7,039.0 | 6,271.0 | 6,001.8           |
| United States | 2,451.7         | 3,586.6 | 3,692.1 | 3,191.7 | 2,432.2 | 2,422.3 | 2,309.0           |
| Japan         | 913.8           | 1,179.9 | 1,513.0 | 1,340.0 | 1,778.2 | 1,354.9 | 1,163.5           |
| Europe        | 907.0           | 1,138.8 | 1,721.7 | 1,913.0 | 2,122.8 | 2,255.4 | 2,211.0           |
| Others        | 55.0            | 351.8   | 308.5   | 164.5   | 705.8   | 238.4   | 318.3             |

Source : Economic Development Board



# CONSTRUCTION AND REAL ESTATE



### Construction and Real Estate

Building construction refers to erection of new buildings and additions/alterations to existing buildings, but excludes erection of temporary structures, illegal building works or minor works which do not require planning approval. Data on new buildings given written permission and building plan approval and submitted notice of commencement and issued TOPs are compiled from the administrative records of the Development Control Division, Urban Redevelopment Authority (URA) and Building Plan and Management Division and Building Engineering Division of Building and Construction Authority (BCA). Data on notices of tender invitation and completion of public buildings are collected through surveys conducted by the Property Research Section, URA. Statistics on contracts awarded and progress payments certified are collected through surveys conducted by the Economics Research Section of 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:* Refers to the construction of a building project which 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. In the case of a public sector project for which such permit from the Commissioner of Building Control is not required, the construction of the project is deemed to have commenced when the first tender is invited. Where the contractor is selected by pre-qualification or closed tender, the date of contract awarded will be taken as the date of building commencement.

*Building Completion:* Refers to a building 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. In the case of a public sector project, it is completed when the certificate of completion is issued by the architect or engineer in charge of the project.

*Gross Floor Area:* Refers to the covered floor area of a building unless exempted and any uncovered area of a building designed for commercial uses.

*Contracts Awarded:* Refers to the full contract given to the main contractor by the architect, engineer or developer/owner even though part or all the works may be further sub-contracted to another contractor.

*Progress Payment Certified:* Refers to the value of all construction works done and certified for progress payment. Where construction works are carried out by the developer/owner himself and the architect does not certify progress payments, the expenses incurred on the construction work are taken to be the progress payments certified.



## Other References

More details of construction and real estate statistics may be obtained from the "Property Market Information: Private Residential Properties", "Property Market Information: Commercial and Industrial Properties" and "Property Market Information: Details of Projects Under Development" published by the Property Research Section, URA. Details on contracts awarded and progress payments certified may be obtained from the "Framework" and "Construction InfoNet" published by the BCA.

## 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 quality homes, create and rejuvenate the towns, and promote the building of communities. HDB also develops and maintains other facilities, namely commercial and industrial properties, and car parks. To help build sustainable communities, HDB plans towns with a comprehensive range of facilities to meet residents' needs. HDB provides recreational and community facilities such as neighbourhood parks and children's playground in its housing estates.

In 2004, 5,326 flats were completed, bringing the total number of flats built since HDB's inception in 1960 to 973,950.

The Home Ownership for the People Scheme, introduced in 1964, enables citizens to buy HDB flats. HDB sold 10,055 HDB flats in 2004. To-date, 84 per cent of Singaporeans live in HDB flats and 82 per cent of the resident population live in home-ownership flats. HDB offers a number of measures to help low-income families own HDB flats. These are the sale of flats to sitting tenants, buying-back of 3-room flats for sale at subsidised prices, rent & purchase of 3-room flats and Low Income

Family Incentive Scheme. In October 1994, HDB implemented the CPF Housing Grant Scheme to strengthen family ties by giving a housing grant to first-timer citizen families to buy a resale flat that is in the same town/estate or within 2 km of their parents' flat. A lower-tier grant was implemented in August 1995 to cater for first-timer families who wish to buy resale flats without the proximity condition to live near their parents. The scheme was extended to the purchase of Executive Condominiums in August 1996 and to single citizens in June 1998 to help them buy resale flats.

To bridge the gap between the standards of the older estates and those of the newer towns, the Estate Renewal Strategy was introduced in September 1995. HDB's programmes such as the Main Upgrading Programme (MUP), the Interim Upgrading Programme (IUP), the IUP Plus, the Lift Upgrading Programme (LUP), the Selective En bloc Redevelopment Scheme (SERS), the Project to Improve the Living Conditions of the Elderly and Rental Flat Upgrading Project etc are all part of the Estate Renewal Strategy.

At the end of 2004, the number of precincts selected under the MUP Steady State Phase was 120, involving about 122,429 units of HDB flats. Under the MUP, improvements are made to the flat, the apartment block and the precinct. At the end of 2004, the upgrading works at 71 precincts under the Steady State Phase of this programme had been completed.

Under the IUP carried out by the Town Councils to improve the precincts, eight batches comprising 190 precincts had so far been selected. The upgrading works in 160 precincts had been completed as at end 2004. With effect from May 2002, the IUP had been combined with the Lift Upgrading Programme (LUP) under a new programme called IUP Plus. The IUP Plus was implemented by HDB. It aimed to bring the



benefits of both interim and lift upgrading earlier to the residents. As at end of 2004, 32 precincts had been announced under the IUP Plus.

The LUP was launched in Mar 2001 to provide residents with speedier and more convenient access to their high-rise homes by having lifts that stop at every floor. As at end of 2004, 63 precincts were announced under LUP.

The Selective En Bloc Redevelopment Scheme (SERS) was launched in August 1995. Under the scheme, selected old blocks of sold flats are redeveloped en bloc to optimise land use. The flat lessees involved would be offered new flats at a nearby site. SERS therefore enables residents in the old estates to upgrade to new and better flats within the same neighbourhood and preserves the strong community ties built over the years at the same time. It also attracts young families to move in to live in the rejuvenated mature estates. As at December 2004, 53 precincts have been announced for redevelopment under SERS.

With effect from 1 Apr 2004, the management function of 92 HDB markets/hawker centres was transferred from the HDB to NEA. Some 14,000 stall tenants would benefit from the synergy and convenience of this new arrangement.

Since 1993, HDB had selected eight batches of 38 blocks of 1-room rental flats comprising about 11,400 units for

improvement works under the Project to Improve the Living Conditions of the Elderly. HDB had also launched the Studio Apartments (SA) in 1998, which is customised for elderly living. The SAs, which are built in standalone blocks, are specially designed and equipped with elderly-friendly and safety features to facilitate mobility. So far, HDB had completed a total of 936 units of such SAs in six pilot projects for sale and all the units had been taken up. Since January 2003, new SAs have also been planned to integrate with other flat types. This is to achieve better resident mix and promote social interaction between the elderly and younger residents. To-date, HDB has announced three such pilot projects with integrated SAs at the SERS replacement sites in Queenstown, Bukit Merah and Geylang. All three sites are currently under construction.

In October 2001, the Government announced the Rental Flat Upgrading Project. 8,500 flats in 41 HDB rental blocks would be upgraded. This project would enable more tenants of HDB rental flats to benefit from an improved environment earlier. The upgrading works commenced in March 2002. As at June 2004, the upgrading works for all the 41 blocks had been completed.

Between 1989 and 2004, HDB sold 86 land parcels (213 hectares) for private residential development and 35 land parcels (31 hectares) for commercial developments. A total of 23 Executive Condominium sites (52 hectares) were sold during this period.



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

| Type of Property     | Number of Units |         |         |         |         |         |
|----------------------|-----------------|---------|---------|---------|---------|---------|
|                      | 1999            | 2000    | 2001    | 2002    | 2003    | 2004    |
| All Types            |                 |         |         |         |         |         |
| Available            | 183,551         | 193,028 | 198,354 | 205,197 | 210,934 | 221,903 |
| Vacant               | 14,710          | 13,341  | 16,207  | 17,454  | 16,339  | 17,916  |
| Detached Houses      |                 |         |         |         |         |         |
| Available            | 10,100          | 10,004  | 9,918   | 9,902   | 9,915   | 9,905   |
| Vacant               | 935             | 495     | 670     | 695     | 653     | 523     |
| Semi-Detached Houses |                 |         |         |         |         |         |
| Available            | 20,058          | 20,139  | 20,301  | 20,434  | 20,628  | 20,702  |
| Vacant               | 1,051           | 704     | 1,141   | 1,005   | 932     | 756     |
| Terrace Houses       |                 |         |         |         |         |         |
| Available            | 34,818          | 35,884  | 35,993  | 36,154  | 36,549  | 37,031  |
| Vacant               | 1,512           | 1,667   | 1,968   | 2,000   | 1,660   | 1,482   |
| Apartments           |                 |         |         |         |         |         |
| Available            | 55,823          | 56,429  | 55,286  | 56,969  | 57,973  | 59,349  |
| Vacant               | 5,546           | 4,188   | 4,717   | 6,542   | 5,453   | 4,930   |
| Condominium Units    |                 |         |         |         |         |         |
| Available            | 62,752          | 70,572  | 76,856  | 81,738  | 85,869  | 94,916  |
| Vacant               | 5,666           | 6,287   | 7,711   | 7,212   | 7,641   | 10,225  |

Source : Urban Redevelopment Authority  
Note : Figures exclude hostels, HDB flats, tenement houses, parsonages and Executive Condominiums.



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

|                              | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
|------------------------------|--------|--------|--------|--------|--------|--------|
| <b>Landed Properties</b>     |        |        |        |        |        |        |
| Total                        | 7,236  | 6,744  | 6,383  | 5,770  | 5,047  | 4,446  |
| Under Construction           | 3,945  | 3,105  | 3,166  | 2,951  | 2,288  | 1,630  |
| Planned                      |        |        |        |        |        |        |
| Written Permission           | 2,171  | 2,121  | 2,325  | 2,184  | 2,193  | 2,270  |
| Provisional Permission       | 888    | 1,030  | 707    | 594    | 492    | 464    |
| Others <sup>1</sup>          | 232    | 488    | 185    | 41     | 74     | 82     |
| <b>Non-Landed Properties</b> |        |        |        |        |        |        |
| Total                        | 55,174 | 53,407 | 46,242 | 46,708 | 46,976 | 42,764 |
| Under Construction           | 25,729 | 24,865 | 26,237 | 26,977 | 26,594 | 19,365 |
| Planned                      |        |        |        |        |        |        |
| Written Permission           | 6,078  | 11,215 | 11,693 | 10,807 | 8,273  | 13,479 |
| Provisional Permission       | 8,007  | 9,112  | 6,436  | 5,635  | 8,803  | 8,280  |
| Others <sup>1</sup>          | 15,360 | 8,215  | 1,876  | 3,289  | 3,306  | 1,640  |

Source : Urban Redevelopment Authority

Note : Figures exclude hostels, HDB flats, tenement houses, parsonages and Executive Condominiums.

1 Planned land sales by the government and developments submitted for approval.

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

|                               | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|-------------------------------|-------|-------|-------|-------|-------|-------|
| <b>Provisional Permission</b> |       |       |       |       |       |       |
| Projects (Number)             | 282   | 491   | 298   | 229   | 207   | 238   |
| Gross Floor Area ('000 sq m)  | 911   | 2,624 | 1,578 | 1,320 | 1,267 | 1,466 |
| <b>Written Permission</b>     |       |       |       |       |       |       |
| Projects (Number)             | 195   | 411   | 315   | 237   | 177   | 216   |
| Gross Floor Area ('000 sq m)  | 1,200 | 2,117 | 1,702 | 1,177 | 824   | 1,578 |
| <b>Building Plan Approval</b> |       |       |       |       |       |       |
| Projects (Number)             | 164   | 310   | 323   | 277   | 199   | 195   |
| Gross Floor Area ('000 sq m)  | 1,222 | 1,337 | 1,422 | 1,342 | 1,018 | 1,250 |
| <b>Building Commencement</b>  |       |       |       |       |       |       |
| Projects (Number)             | 231   | 344   | 304   | 235   | 184   | 194   |
| Gross Floor Area ('000 sq m)  | 1,022 | 1,472 | 1,270 | 1,327 | 892   | 566   |
| <b>Building Completion</b>    |       |       |       |       |       |       |
| Projects (Number)             | 329   | 294   | 317   | 333   | 255   | 224   |
| Gross Floor Area ('000 sq m)  | 1,730 | 1,714 | 1,162 | 1,273 | 1,151 | 1,644 |

Source : Urban Redevelopment Authority

Note : Figures exclude hostels, HDB flats, tenement houses, parsonages and Executive Condominiums.



## 11.4

## AVAILABLE AND VACANT COMMERCIAL AND INDUSTRIAL PROPERTIES

(End of Period)

|                 | Thousand sq m nett |        |        |        |        |        |
|-----------------|--------------------|--------|--------|--------|--------|--------|
|                 | 1999               | 2000   | 2001   | 2002   | 2003   | 2004   |
| Private Sector  |                    |        |        |        |        |        |
| Office Space    |                    |        |        |        |        |        |
| Available       | 4,834              | 5,015  | 5,043  | 5,125  | 5,180  | 5,167  |
| Vacant          | 742                | 588    | 564    | 806    | 964    | 857    |
| Shop Space      |                    |        |        |        |        |        |
| Available       | 1,950              | 1,950  | 1,929  | 1,977  | 2,020  | 1,992  |
| Vacant          | 177                | 156    | 169    | 196    | 218    | 185    |
| Factory Space   |                    |        |        |        |        |        |
| Available       | 17,310             | 17,849 | 18,512 | 19,612 | 19,952 | 20,269 |
| Vacant          | 1,612              | 1,327  | 1,579  | 2,434  | 2,416  | 2,333  |
| Warehouse Space |                    |        |        |        |        |        |
| Available       | 4,881              | 4,955  | 5,267  | 5,396  | 5,586  | 5,641  |
| Vacant          | 625                | 590    | 632    | 746    | 838    | 784    |
| Public Sector   |                    |        |        |        |        |        |
| Office Space    |                    |        |        |        |        |        |
| Available       | 1,045              | 1,122  | 1,207  | 1,354  | 1,344  | 1,326  |
| Vacant          | 87                 | 107    | 140    | 213    | 205    | 182    |
| Shop Space      |                    |        |        |        |        |        |
| Available       | 1,191              | 1,187  | 1,180  | 1,159  | 1,145  | 1,147  |
| Vacant          | 84                 | 90     | 80     | 65     | 70     | 74     |
| Factory Space   |                    |        |        |        |        |        |
| Available       | 5,878              | 6,172  | 6,126  | 6,236  | 6,415  | 6,447  |
| Vacant          | 771                | 949    | 781    | 859    | 977    | 873    |
| Warehouse Space |                    |        |        |        |        |        |
| Available       | 231                | 259    | 83     | 83     | 83     | 82     |
| Vacant          | 79                 | 79     | 21     | 31     | 23     | 16     |

Source : Urban Redevelopment Authority



# 11.5 SUPPLY OF COMMERCIAL AND INDUSTRIAL PROPERTIES IN THE PIPELINE BY DEVELOPMENT STATUS (Private and Public Sectors) (End of Period)

|                        | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|------------------------|-------|-------|-------|-------|-------|-------|
| Thousand sq m gross    |       |       |       |       |       |       |
| Office Space           |       |       |       |       |       |       |
| Total                  | 1,706 | 1,355 | 1,114 | 735   | 597   | 490   |
| Under Construction     | 972   | 657   | 507   | 399   | 327   | 322   |
| Planned                |       |       |       |       |       |       |
| Written Permission     | 132   | 99    | 131   | 159   | 147   | 70    |
| Provisional Permission | 41    | 196   | 364   | 175   | 117   | 93    |
| Others <sup>1</sup>    | 561   | 403   | 112   | 2     | 6     | 5     |
| Shop Space             |       |       |       |       |       |       |
| Total                  | 384   | 315   | 315   | 348   | 324   | 364   |
| Under Construction     | 135   | 112   | 144   | 215   | 192   | 210   |
| Planned                |       |       |       |       |       |       |
| Written Permission     | 81    | 68    | 58    | 64    | 56    | 93    |
| Provisional Permission | 9     | 42    | 60    | 58    | 43    | 42    |
| Others <sup>1</sup>    | 159   | 93    | 53    | 11    | 33    | 19    |
| Factory Space          |       |       |       |       |       |       |
| Total                  | 6,972 | 6,814 | 5,750 | 4,795 | 3,915 | 3,035 |
| Under Construction     | 3,163 | 3,105 | 3,200 | 2,013 | 1,643 | 1,301 |
| Planned                |       |       |       |       |       |       |
| Written Permission     | 1,311 | 896   | 770   | 791   | 790   | 559   |
| Provisional Permission | 559   | 680   | 423   | 771   | 379   | 165   |
| Others <sup>1</sup>    | 1,939 | 2,133 | 1,357 | 1,220 | 1,103 | 1,010 |
| Warehouse Space        |       |       |       |       |       |       |
| Total                  | 590   | 607   | 579   | 318   | 220   | 282   |
| Under Construction     | 434   | 303   | 387   | 245   | 151   | 221   |
| Planned                |       |       |       |       |       |       |
| Written Permission     | 50    | 83    | 65    | 63    | 56    | 57    |
| Provisional Permission | 94    | 78    | 2     | 10    | 1     | 4     |
| Others <sup>1</sup>    | 12    | 143   | 125   | -     | 12    | -     |

Source : Urban Redevelopment Authority

1 Planned public developments and land sales by the government and developments submitted for approval.



## 11.6

# APPROVAL, CONSTRUCTION COMMENCEMENT AND COMPLETION OF COMMERCIAL AND INDUSTRIAL DEVELOPMENTS ( Private and Public Sectors)

|                        | Thousand sq m gross |       |       |       |      |      |
|------------------------|---------------------|-------|-------|-------|------|------|
|                        | 1999                | 2000  | 2001  | 2002  | 2003 | 2004 |
| <b>Office Space</b>    |                     |       |       |       |      |      |
| Provisional Permission | 97                  | 213   | 330   | 175   | 11   | 44   |
| Written Permission     | 337                 | 171   | 191   | 277   | 81   | 22   |
| Building Plan Approval | 56                  | 45    | 109   | 326   | 69   | 12   |
| Building Commencement  | 82                  | 81    | 100   | 248   | 24   | 79   |
| Building Completion    | 174                 | 367   | 264   | 381   | 64   | 75   |
| <b>Shop Space</b>      |                     |       |       |       |      |      |
| Provisional Permission | 14                  | 85    | 61    | 135   | 19   | 105  |
| Written Permission     | 37                  | 59    | 72    | 24    | 27   | 212  |
| Building Plan Approval | 4                   | 48    | 35    | 26    | 31   | 17   |
| Building Commencement  | 34                  | 50    | 40    | 105   | 27   | 52   |
| Building Completion    | 70                  | 43    | 13    | 57    | 42   | 20   |
| <b>Factory Space</b>   |                     |       |       |       |      |      |
| Provisional Permission | 933                 | 1,238 | 1,368 | 643   | 164  | 337  |
| Written Permission     | 1,191               | 1,116 | 894   | 994   | 500  | 339  |
| Building Plan Approval | 496                 | 870   | 704   | 793   | 401  | 331  |
| Building Commencement  | 810                 | 1,053 | 1,205 | 444   | 439  | 559  |
| Building Completion    | 1,137               | 1,137 | 983   | 1,597 | 765  | 659  |
| <b>Warehouse Space</b> |                     |       |       |       |      |      |
| Provisional Permission | 149                 | 85    | 154   | 59    | 22   | 81   |
| Written Permission     | 97                  | 131   | 122   | 152   | 50   | 150  |
| Building Plan Approval | 67                  | 115   | 69    | 115   | 164  | 62   |
| Building Commencement  | 139                 | 69    | 184   | 59    | 64   | 148  |
| Building Completion    | 237                 | 196   | 167   | 138   | 170  | 41   |

Source : Urban Redevelopment Authority



# 11.7 CONTRACTS AWARDED BY SECTOR AND TYPE OF WORK

Million Dollars

| Type of Work           | 1994   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
|------------------------|--------|--------|--------|--------|--------|--------|--------|
| All Sectors            |        |        |        |        |        |        |        |
| Total                  | 12,227 | 13,096 | 20,163 | 14,302 | 14,487 | 10,018 | 10,053 |
| Building Work          | 11,235 | 10,778 | 11,395 | 10,915 | 11,082 | 8,692  | 7,279  |
| Residential            | 6,124  | 4,939  | 4,750  | 3,931  | 3,612  | 2,994  | 3,798  |
| Commercial             | 1,637  | 882    | 827    | 495    | 1,250  | 536    | 1,105  |
| Industrial             | 1,945  | 2,650  | 3,279  | 3,330  | 2,442  | 2,046  | 950    |
| Others                 | 1,528  | 2,307  | 2,541  | 3,160  | 3,779  | 3,115  | 1,426  |
| Civil Engineering Work | 992    | 2,318  | 8,767  | 3,386  | 3,404  | 1,327  | 2,774  |
| Private Sector         |        |        |        |        |        |        |        |
| Total                  | 6,648  | 6,652  | 8,054  | 6,970  | 4,844  | 4,648  | 5,504  |
| Building Work          | 6,509  | 5,912  | 7,549  | 6,738  | 4,667  | 4,481  | 4,744  |
| Residential            | 3,127  | 2,115  | 3,140  | 2,975  | 2,542  | 1,910  | 2,521  |
| Commercial             | 1,468  | 763    | 668    | 420    | 997    | 405    | 1,032  |
| Industrial             | 1,604  | 2,458  | 3,137  | 2,815  | 717    | 1,429  | 887    |
| Others                 | 311    | 577    | 605    | 528    | 411    | 737    | 304    |
| Civil Engineering Work | 139    | 739    | 505    | 232    | 177    | 167    | 760    |
| Public Sector          |        |        |        |        |        |        |        |
| Total                  | 5,579  | 6,445  | 12,108 | 7,332  | 9,642  | 5,371  | 4,549  |
| Building Work          | 4,725  | 4,866  | 3,846  | 4,177  | 6,415  | 4,211  | 2,535  |
| Residential            | 2,998  | 2,824  | 1,610  | 956    | 1,070  | 1,084  | 1,277  |
| Commercial             | 169    | 119    | 159    | 75     | 253    | 131    | 73     |
| Industrial             | 341    | 192    | 142    | 514    | 1,725  | 617    | 63     |
| Others                 | 1,217  | 1,731  | 1,936  | 2,632  | 3,368  | 2,379  | 1,122  |
| Civil Engineering Work | 853    | 1,578  | 8,262  | 3,154  | 3,227  | 1,160  | 2,014  |

Source : Building and Construction Authority



## 11.8

## PROGRESS PAYMENTS CERTIFIED BY SECTOR AND TYPE OF WORK

| Type of Work           | Million Dollars |        |        |        |        |        |        |
|------------------------|-----------------|--------|--------|--------|--------|--------|--------|
|                        | 1994            | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
| All Sectors            |                 |        |        |        |        |        |        |
| Total                  | 11,342          | 17,249 | 16,146 | 15,880 | 13,261 | 12,219 | 11,482 |
| Building Work          | 9,469           | 13,849 | 12,600 | 11,518 | 10,153 | 9,355  | 8,842  |
| Residential            | 4,530           | 6,935  | 5,161  | 4,213  | 3,942  | 3,619  | 3,320  |
| Commercial             | 1,977           | 1,470  | 1,587  | 1,463  | 1,009  | 788    | 712    |
| Industrial             | 1,318           | 2,648  | 3,151  | 2,832  | 2,513  | 2,278  | 2,103  |
| Others                 | 1,644           | 2,796  | 2,702  | 3,011  | 2,689  | 2,670  | 2,707  |
| Civil Engineering Work | 1,873           | 3,400  | 3,546  | 4,361  | 3,108  | 2,863  | 2,641  |
| Private Sector         |                 |        |        |        |        |        |        |
| Total                  | 5,462           | 7,295  | 7,594  | 7,165  | 6,214  | 5,291  | 5,058  |
| Building Work          | 5,313           | 6,855  | 7,103  | 6,585  | 5,961  | 5,098  | 4,847  |
| Residential            | 1,852           | 3,251  | 2,715  | 2,510  | 2,661  | 2,540  | 2,251  |
| Commercial             | 1,839           | 1,053  | 999    | 848    | 707    | 574    | 590    |
| Industrial             | 1,118           | 2,174  | 2,941  | 2,622  | 2,101  | 1,559  | 1,551  |
| Others                 | 505             | 376    | 447    | 606    | 493    | 426    | 454    |
| Civil Engineering Work | 149             | 441    | 491    | 580    | 252    | 193    | 211    |
| Public Sector          |                 |        |        |        |        |        |        |
| Total                  | 5,880           | 9,954  | 8,553  | 8,714  | 7,047  | 6,928  | 6,424  |
| Building Work          | 4,156           | 6,994  | 5,497  | 4,934  | 4,192  | 4,258  | 3,995  |
| Residential            | 2,679           | 3,684  | 2,445  | 1,703  | 1,281  | 1,080  | 1,069  |
| Commercial             | 139             | 416    | 588    | 615    | 302    | 214    | 121    |
| Industrial             | 199             | 474    | 209    | 210    | 412    | 720    | 552    |
| Others                 | 1,139           | 2,420  | 2,255  | 2,405  | 2,196  | 2,244  | 2,253  |
| Civil Engineering Work | 1,724           | 2,960  | 3,055  | 3,781  | 2,856  | 2,670  | 2,430  |

Source : Building and Construction Authority



## 11.9 PROPERTIES UNDER THE MANAGEMENT OF HOUSING AND DEVELOPMENT BOARD (End of Period)

|                             | 1994    | 1999    | 2000    | 2001    | 2002    | 2003    | Number<br>2004 |
|-----------------------------|---------|---------|---------|---------|---------|---------|----------------|
| Residential                 | 676,558 | 823,760 | 846,649 | 863,552 | 866,071 | 874,183 | 876,985        |
| 1-room                      | 26,769  | 24,920  | 23,623  | 21,812  | 20,522  | 20,321  | 20,142         |
| 2-room                      | 36,127  | 34,180  | 33,741  | 31,514  | 30,568  | 29,836  | 29,351         |
| 3-room                      | 242,128 | 237,433 | 234,997 | 233,153 | 229,505 | 228,600 | 227,125        |
| 4-room                      | 224,417 | 296,109 | 306,001 | 314,610 | 318,478 | 323,390 | 325,794        |
| 5-room                      | 100,899 | 167,365 | 181,498 | 194,032 | 199,298 | 204,082 | 206,614        |
| Executive <sup>1</sup>      | 40,754  | 60,403  | 63,439  | 64,487  | 64,899  | 65,153  | 65,158         |
| HUDC <sup>2</sup>           | 5,464   | 3,350   | 3,350   | 3,008   | 1,865   | 1,865   | 1,865          |
| Studio Apartment            | -       | -       | -       | 936     | 936     | 936     | 936            |
| Commercial/Industrial Units | 30,914  | 32,391  | 31,353  | 31,018  | 29,698  | 30,399  | 30,233         |

Source : Housing & Development Board

1 Data include multi-generation flats.

2 From 1999, data exclude other residential properties.

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

|                                                                                    | 1994   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
|------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Flats Constructed (No)                                                             | 25,987 | 34,836 | 27,678 | 23,913 | 10,141 | 10,082 | 5,326  |
| Flats Sold Under 'Home Ownership<br>Scheme' <sup>1</sup> (No)                      | 23,770 | 29,893 | 26,329 | 19,987 | 19,629 | 15,388 | 10,055 |
| Percentage of Population <sup>2</sup> Living in<br>Public Flats<br>(End of Period) | 86     | 86     | 86     | 85     | 85     | 84     | 84     |

Source : Housing & Development Board

1 Flats are considered 'sold' only when keys are issued to the applicants. Data include HUDC units.

2 Data refer to resident population.



## 11.11

RESIDENTIAL UNITS UNDER THE MANAGEMENT OF HOUSING AND  
DEVELOPMENT BOARD, 31 DECEMBER 2004

| Town <sup>1</sup> | Total   | 1-room | 2-room | 3-room  | 4-room  | 5-room  | Executive <sup>2</sup> | Number              |       |
|-------------------|---------|--------|--------|---------|---------|---------|------------------------|---------------------|-------|
|                   |         |        |        |         |         |         |                        | Studio<br>Apartment | HUDC  |
| Total             | 876,985 | 20,142 | 29,351 | 227,125 | 325,794 | 206,614 | 65,158                 | 936                 | 1,865 |
| Ang Mo Kio        | 47,939  | 1,318  | 3,493  | 24,851  | 12,738  | 5,059   | 480                    | -                   | -     |
| Bedok             | 59,476  | 2,250  | 2,003  | 22,679  | 19,658  | 10,043  | 2,713                  | 130                 | -     |
| Bishan            | 19,367  | 396    | -      | 2,359   | 9,199   | 5,395   | 1,660                  | -                   | 358   |
| Bukit Batok       | 33,336  | 20     | 20     | 11,182  | 14,255  | 5,124   | 2,735                  | -                   | -     |
| Bukit Merah       | 49,852  | 4,882  | 6,060  | 17,112  | 12,832  | 8,792   | 44                     | 130                 | -     |
| Bukit Panjang     | 29,498  | -      | -      | 2,620   | 13,980  | 9,517   | 3,381                  | -                   | -     |
| Bukit Timah       | 2,423   | -      | -      | 441     | 920     | 682     | 380                    | -                   | -     |
| Central Area      | 10,752  | 2,057  | 1,316  | 4,756   | 2,296   | 280     | 9                      | -                   | 38    |
| Choa Chu Kang     | 39,173  | -      | 240    | 1,312   | 19,437  | 13,422  | 4,762                  | -                   | -     |
| Clementi          | 24,123  | 454    | 520    | 12,727  | 7,445   | 2,354   | 623                    | -                   | -     |
| Geylang           | 30,130  | 1,044  | 3,547  | 11,806  | 9,024   | 3,548   | 831                    | -                   | 330   |
| Hougang           | 48,475  | 538    | 315    | 9,603   | 23,166  | 9,922   | 4,309                  | -                   | 622   |
| Jurong East       | 22,300  | -      | -      | 7,055   | 7,333   | 5,898   | 1,871                  | 143                 | -     |
| Jurong West       | 69,150  | -      | 502    | 13,038  | 28,232  | 20,872  | 6,506                  | -                   | -     |
| Kallang/Whampoa   | 33,727  | 4,400  | 2,469  | 13,812  | 8,096   | 4,450   | 500                    | -                   | -     |
| Marine Parade     | 7,864   | -      | 1,350  | 3,044   | 1,798   | 1,672   | -                      | -                   | -     |
| Pasir Ris         | 27,515  | -      | 21     | 166     | 10,716  | 9,054   | 7,460                  | -                   | 98    |
| Punggol           | 15,277  | -      | -      | -       | 3,878   | 10,273  | 1,126                  | -                   | -     |
| Queenstown        | 28,758  | 575    | 3,266  | 16,408  | 5,068   | 3,082   | 359                    | -                   | -     |
| Sembawang         | 17,217  | -      | -      | -       | 6,977   | 7,370   | 2,870                  | -                   | -     |
| Sengkang          | 37,938  | -      | -      | -       | 14,400  | 18,992  | 4,546                  | -                   | -     |
| Serangoon         | 21,294  | -      | 154    | 4,551   | 10,231  | 3,749   | 2,365                  | -                   | 244   |
| Tampines          | 61,485  | 154    | 126    | 12,264  | 27,057  | 15,832  | 5,844                  | 208                 | -     |
| Toa Payoh         | 35,350  | 1,170  | 3,613  | 16,724  | 7,717   | 4,942   | 853                    | 156                 | 175   |
| Woodlands         | 57,953  | 868    | 320    | 5,527   | 26,038  | 19,010  | 6,190                  | -                   | -     |
| Yishun            | 46,613  | 16     | 16     | 13,088  | 23,303  | 7,280   | 2,741                  | 169                 | -     |

Source : Housing &amp; Development Board

<sup>1</sup> Equivalent to Town Registration Boundary.<sup>2</sup> Include multi-generation flats.



# 11.12 DEMAND, SUPPLY AND OCCUPANCY OF JTC CORPORATION STANDARD/FLATTED FACTORIES AND INDUSTRIAL LANDS

| Factory Space/Industrial Land           | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|-----------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Flatted Factory Space ('000 sq m)       |       |       |       |       |       |       |       |
| Gross Allocation                        | 159   | 153   | 198   | 113   | 111   | 91    | 114   |
| Termination                             | 99    | 124   | 108   | 115   | 118   | 146   | 117   |
| Net Allocation                          | 60    | 30    | 89    | -2    | -7    | -55   | -4    |
| Demand                                  | 985   | 1,054 | 1,142 | 1,142 | 1,133 | 1,076 | 1,068 |
| Supply                                  | 1,057 | 1,389 | 1,412 | 1,415 | 1,402 | 1,402 | 1,442 |
| Occupancy Rate (%)                      | 93    | 76    | 81    | 81    | 81    | 77    | 74    |
| Standard Factory Space ('000 sq m)      |       |       |       |       |       |       |       |
| Gross Allocation                        | 174   | 54    | 87    | 46    | 45    | 31    | 80    |
| Termination                             | 37    | 52    | 52    | 47    | 72    | 53    | 25    |
| Net Allocation                          | 137   | 2     | 35    | -1    | -27   | -22   | 55    |
| Demand                                  | 1,912 | 2,254 | 2,289 | 2,288 | 2,241 | 2,217 | 2,268 |
| Supply                                  | 1,925 | 2,504 | 2,509 | 2,495 | 2,462 | 2,478 | 2,478 |
| Occupancy Rate (%)                      | 99    | 90    | 91    | 92    | 91    | 90    | 92    |
| Industrial Land <sup>1</sup> (hectares) |       |       |       |       |       |       |       |
| Gross Allocation                        | 230   | 123   | 111   | 146   | 64    | 130   | 118   |
| Termination                             | 21    | 90    | 92    | 98    | 93    | 152   | 49    |
| Net Allocation                          | 209   | 32    | 19    | 48    | -29   | -22   | 69    |
| Prepared Land                           |       |       |       |       |       |       |       |
| Demand                                  | 3,533 | 4,010 | 4,038 | 4,068 | 4,041 | 4,016 | 4,097 |
| Supply                                  | 3,957 | 4,680 | 4,818 | 4,850 | 4,968 | 5,069 | 5,128 |

Source : JTC Corporation

<sup>1</sup> Exclude industrial land used for JTC Standard/Flatted Factory developments.







## 12 COMMERCE AND SERVICES

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The first statistical inquiry on the services industries was conducted by the Singapore Department of Statistics for the reference year 1967 and that on the commerce industries for the reference year 1968. The next inquiries on these two groups were for reference years 1972 and 1973 respectively. Since then, they were conducted biennially until 1985 and subsequently on an annual basis.

### Scope and Coverage

The Survey of Services covers all establishments, including statutory boards and non-profit organizations, engaged in transport, storage and communications, financial, insurance, real estate, business services and community, social and personal services, as classified under Sections I, J, K, L, M, N and O of the "Singapore Standard Industrial Classification (SSIC) 2000". Government ministries and departments, foreign missions, political parties, taxi and trishaw operators, independent artistes and domestic servants are outside the scope of the survey. From the reference year 1986, establishments engaged in financial activities such as banking, financial, stock-broking and insurance services are surveyed by the Monetary Authority of Singapore.

The Survey of Commerce covers all establishments (except hawkers and stallholders) engaged in wholesale and retail trades, restaurants and hotels as classified under Sections G and H of the SSIC 2000.

Prior to 1976, both surveys were conducted on a census basis. From 1976 to 1982, sample surveys were carried out while for reference years 1983 and 1984, censuses of commerce and services were respectively undertaken. For reference years 1985 to 1992 and 1995 to 2003, annual sample surveys were conducted. Censuses of commerce and services

were again conducted for reference years 1993 and 1994 respectively.

For sample surveys, stratified sampling by industry was adopted. Within each industry, establishments with large operating receipts were selected with certainty and the rest were sampled.

The statistical unit used in both surveys is the establishment. A separate return is normally required from each branch of a multi-activity firm, organization or enterprise. However, a consolidated return is allowed if the accounts are so kept that it is not possible to obtain separate data for each individual branch.

### Definitions

*Establishment:* Refers to a business or organization unit engaged in one activity and generally operating in a single location.

*Employment:* Refers to the total number of persons engaged, including part-time employees, working proprietors and partners, working directors and unpaid family workers as at 30 June of the reference year. It includes those temporarily away on leave.

*Remuneration:* Refers to the amount paid to employees in the form of wages and salaries, bonuses and allowances, CPF/pension fund contributions and that given to unpaid family workers and directors as allowances, fees and benefits in kind.

*Operating Receipts/Turnover:* Refers to the total receipts and receivables from sales of goods and services including commissions and brokerage fees, insurance premiums and rental income. For financial institutions, operating receipts include interest, dividend income and gains from transactions in stocks and shares and foreign exchange.



**Operating Expenditure:** Refers to the aggregate of all current expenditure after adjustment for changes in stocks and work-in-progress. For insurance companies, claims, surrenders, cash bonus and annuities paid and increases in insurance funds or liability reserves are also included in operating expenditure.

**Operating Surplus:** Refers to the amount of operating receipts less operating expenditure plus depreciation of fixed assets. For local offices of foreign airlines and foreign shipping lines, representative offices of foreign banks and companies and non-profit organizations, operating surplus refers only to depreciation of fixed assets.

**Value Added:** Refers to the sum of the value of operating surplus, remuneration and indirect taxes. However, for financial and insurance services, value added is computed on a different basis. For the Monetary Authority of Singapore, Board of Commissioners of Currency and investment holding companies, value added is the sum of remuneration, depreciation allowances and indirect taxes. For other financial institutions, value added refers to the sum of operating surplus, remuneration and indirect taxes less dividends received and net gains from stocks and share transactions, commodity and financial futures and gold trading. For insurance companies, value added refers to the sum of operating surplus, remuneration, imputed amount of commissions paid and indirect taxes less dividends received and net gains from foreign exchange, stocks and share transactions as well as gold trading.

### Sales Indices of Retail and Catering Trade

The sales indices of retail and catering trade are compiled from the results of the Retail and Catering Trade Sales Survey initiated in 1985. The survey covers a sample of retail and catering establishments. Retail

establishments are defined as those selling merchandise directly to the consumers. Catering establishments are defined as those selling prepared food and drinks for in-premises consumption or on a take-away basis such as restaurants, fast food outlets, coffee houses, cafes, coffee shops, creameries, snack bars, canteens and food caterers. Hawkers and stallholders (including those in the food courts) selling cooked food and prepared drinks are not considered as catering establishments.

For the compilation of indices, survey data are supplemented by administrative records.

The overall indices are compiled by assigning a weight to each activity based on their turnover in the base year. Two series of the indices are compiled and presented, one at current prices and the other at constant prices. The base year of the indices is 1997.

### Wholesale Trade Index

The Wholesale Trade Index (WTI) measures the sales transactions of wholesale establishments in the economy. Data for the compilation of the WTI are sourced from some 810 wholesale establishments covered in the quarterly survey of wholesale trade. The base year for the WTI is 2000.

Two series of the WTI are compiled - the Domestic WTI and Foreign WTI. The Domestic WTI records sales transactions made locally. It captures the sale of wholesale goods from wholesalers to other wholesalers, manufacturers and retailers whose business operations are in Singapore. The Foreign WTI pertains to wholesale trade outside Singapore. It comprises wholesale exports of goods manufactured in Singapore, re-exports, offshore merchandise and transshipment cargo.



### Business Receipts Index

The Business Receipts Index (BRI) for Services Industries measures the changes in the amount of business or operating receipts. In general, business receipts refer to the operating income derived from services rendered which includes commissions and fees earned but excludes the goods and services tax.

In addition to the overall index, ten major component indices and seventeen sub-component indices are compiled. These comprise transport & storage, post & telecommunications, financial & insurance, real estate & leasing, IT services, business services, education services, health services, recreational activities and other services industries such as personal services.

Data for the compilation of the BRI are collected from some 1,900 establishments covered in the quarterly survey of services and the survey of national income estimates. The base year for the BRI is 2002.

### Revenue of the Information and Communication Technology Industry

Revenue of the Information and Communication Technology Industry refers to all sales income that is derived from carrying on the main activities of the enterprise, and is booked in Singapore, as reflected in total receipts. It includes the total value of services rendered and commissions earned, agency fees, administration & management fees etc., 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 excluded.

Prior to 1998, the survey frame comprises companies with business activities relating to IT products and services as classified by the SSIC. These companies are also members of associations such as Singapore Federation of Computer Industry (SFCI) and the Microcomputer Trade of Singapore (MTAS). In 1998, companies in the telecommunications business are also included.

From 1999, the coverage of the survey frame includes the companies from the content activities. The companies are selected from the Commercial Establishment Information System (CEIS) database based on the 5-digit SSIC as defined by IDA.

### Other References

Further information on the concepts and methodology and detailed statistics prior to the reference year 1990 may be obtained from the "Report on the Survey of Services", and the "Report on the Survey of Wholesale Trade, Retail Trade, Restaurants and Hotels". From reference year 1990 onwards, they can be obtained from the various industry-specific reports under the Economic Surveys Series, viz "Transport & Communications", "Real Estate & Business Services", "Community, Social & Personal Services", "Wholesale & Retail", "Hotels & Catering" and "The Services Sector".

For reference year 2001 onwards, the reports focused on important economic clusters in Singapore's economy, for example, "Food and Beverage Services", "Logistics Services", "Health", "Education", "IT and Related Services", "Retail Trade", and "Wholesale Trade". In addition, there is also an overall report, presenting a summary of the entire services sector.



# 12.1 PRINCIPAL STATISTICS OF COMMERCE

| Year                | Establish-<br>ments | Employ-<br>ment | Remunera-<br>tion | Operating<br>Receipts <sup>1</sup> | Operating<br>Expenditure | Operating<br>Surplus | Value<br>Added <sup>2</sup> |
|---------------------|---------------------|-----------------|-------------------|------------------------------------|--------------------------|----------------------|-----------------------------|
|                     | Number              |                 | Million Dollars   |                                    |                          |                      |                             |
| Total               |                     |                 |                   |                                    |                          |                      |                             |
| 1993                | 50,999              | 330,911         | 7,835             | 272,823                            | 267,105                  | 7,013                | 17,125                      |
| 1998                | 53,929              | 342,489         | 10,697            | 327,230                            | 322,347                  | 6,650                | 19,950                      |
| 1999                | 55,030              | 356,209         | 10,893            | 383,131                            | 375,268                  | 9,778                | 20,866                      |
| 2000                | 57,453              | 365,933         | 12,084            | 472,020                            | 463,118                  | 10,868               | 23,172                      |
| 2001                | 57,316              | 377,139         | 12,768            | 438,732                            | 431,432                  | 9,330                | 22,312                      |
| 2002                | 58,593              | 385,867         | 13,316            | 473,007                            | 464,330                  | 10,919               | 24,433                      |
| 2003                | 60,513              | 384,158         | 13,635            | 553,785                            | 544,600                  | 11,157               | 24,965                      |
| Wholesale Trade     |                     |                 |                   |                                    |                          |                      |                             |
| 1993                | 27,900              | 170,427         | 5,410             | 243,806                            | 239,500                  | 5,138                | 10,684                      |
| 1998                | 31,709              | 181,781         | 7,615             | 300,115                            | 296,285                  | 5,058                | 13,344                      |
| 1999                | 32,046              | 188,564         | 7,842             | 352,319                            | 346,066                  | 7,618                | 15,583                      |
| 2000                | 33,704              | 199,109         | 8,776             | 437,057                            | 430,026                  | 8,443                | 17,361                      |
| 2001                | 33,285              | 201,931         | 9,288             | 405,800                            | 399,934                  | 7,315                | 16,733                      |
| 2002                | 34,150              | 211,240         | 9,946             | 440,322                            | 433,150                  | 8,854                | 18,897                      |
| 2003                | 35,597              | 205,007         | 10,230            | 519,310                            | 511,488                  | 9,188                | 19,516                      |
| Retail Trade        |                     |                 |                   |                                    |                          |                      |                             |
| 1993                | 19,731              | 86,316          | 1,216             | 24,119                             | 23,210                   | 1,084                | 4,296                       |
| 1998                | 18,751              | 82,101          | 1,511             | 21,586                             | 20,952                   | 858                  | 4,155                       |
| 1999                | 19,049              | 87,989          | 1,547             | 25,122                             | 24,026                   | 1,323                | 2,900                       |
| 2000                | 19,791              | 90,532          | 1,737             | 28,940                             | 27,705                   | 1,469                | 3,239                       |
| 2001                | 19,424              | 90,442          | 1,791             | 26,737                             | 25,777                   | 1,202                | 3,028                       |
| 2002                | 19,787              | 90,037          | 1,729             | 26,585                             | 25,559                   | 1,261                | 3,046                       |
| 2003                | 20,345              | 94,595          | 1,843             | 28,807                             | 27,751                   | 1,347                | 3,223                       |
| Hotels and Catering |                     |                 |                   |                                    |                          |                      |                             |
| 1993                | 3,368               | 74,168          | 1,209             | 4,898                              | 4,395                    | 791                  | 2,145                       |
| 1998                | 3,469               | 78,607          | 1,572             | 5,529                              | 5,110                    | 734                  | 2,451                       |
| 1999                | 3,935               | 79,656          | 1,504             | 5,690                              | 5,176                    | 837                  | 2,383                       |
| 2000                | 3,958               | 76,292          | 1,571             | 6,023                              | 5,387                    | 956                  | 2,572                       |
| 2001                | 4,607               | 84,766          | 1,689             | 6,195                              | 5,721                    | 813                  | 2,551                       |
| 2002                | 4,656               | 84,590          | 1,641             | 6,100                              | 5,621                    | 804                  | 2,490                       |
| 2003                | 4,571               | 84,556          | 1,562             | 5,668                              | 5,361                    | 622                  | 2,226                       |

Note : Data from 1999 onwards were compiled using revised extrapolation and imputation methodology.

1 With effect from 1995, 'rental for land' has been reclassified from an operating to a non-operating item, according to the Singapore System of National Accounts classification.

2 From 1999, value added has been revised to basic prices in line with the rebasing of Gross Domestic Product (GDP).



## 12.2

## SELECTED AVERAGES AND RATIOS OF COMMERCE

| Year                | Operating Receipts <sup>1</sup> | Operating Surplus | Value Added <sup>2</sup> | Value Added <sup>2</sup> Per Person Engaged | Operating Surplus to Operating Receipts <sup>1</sup> | Remuneration to Operating Expenditure | Remuneration to Value Added <sup>2</sup> |
|---------------------|---------------------------------|-------------------|--------------------------|---------------------------------------------|------------------------------------------------------|---------------------------------------|------------------------------------------|
|                     | Per Establishment               |                   |                          | Engaged                                     | Receipts <sup>1</sup>                                | Expenditure                           | Added <sup>2</sup>                       |
|                     | Thousand Dollars                |                   |                          |                                             |                                                      |                                       |                                          |
| Total               |                                 |                   |                          |                                             |                                                      |                                       |                                          |
| 1993                | 5,350                           | 138               | 336                      | 52                                          | 2.6                                                  | 2.9                                   | 45.8                                     |
| 1998                | 6,068                           | 123               | 370                      | 58                                          | 2.0                                                  | 3.3                                   | 53.6                                     |
| 1999                | 6,962                           | 178               | 379                      | 59                                          | 2.6                                                  | 2.9                                   | 52.2                                     |
| 2000                | 8,216                           | 189               | 403                      | 63                                          | 2.3                                                  | 2.6                                   | 52.2                                     |
| 2001                | 7,655                           | 163               | 389                      | 59                                          | 2.1                                                  | 3.0                                   | 57.2                                     |
| 2002                | 8,073                           | 186               | 417                      | 63                                          | 2.3                                                  | 2.9                                   | 54.5                                     |
| 2003                | 9,152                           | 184               | 413                      | 65                                          | 2.0                                                  | 2.5                                   | 54.6                                     |
| Wholesale Trade     |                                 |                   |                          |                                             |                                                      |                                       |                                          |
| 1993                | 8,739                           | 184               | 383                      | 63                                          | 2.1                                                  | 2.3                                   | 50.6                                     |
| 1998                | 9,465                           | 160               | 421                      | 73                                          | 1.7                                                  | 2.6                                   | 57.1                                     |
| 1999                | 10,994                          | 238               | 486                      | 83                                          | 2.2                                                  | 2.3                                   | 50.3                                     |
| 2000                | 12,968                          | 251               | 515                      | 87                                          | 1.9                                                  | 2.0                                   | 50.6                                     |
| 2001                | 12,192                          | 220               | 503                      | 83                                          | 1.8                                                  | 2.3                                   | 55.5                                     |
| 2002                | 12,894                          | 259               | 553                      | 90                                          | 2.0                                                  | 2.3                                   | 52.6                                     |
| 2003                | 14,589                          | 258               | 548                      | 95                                          | 1.8                                                  | 2.0                                   | 52.4                                     |
| Retail Trade        |                                 |                   |                          |                                             |                                                      |                                       |                                          |
| 1993                | 1,222                           | 55                | 218                      | 50                                          | 4.5                                                  | 5.2                                   | 28.3                                     |
| 1998                | 1,151                           | 46                | 222                      | 51                                          | 4.0                                                  | 7.2                                   | 36.4                                     |
| 1999                | 1,319                           | 69                | 152                      | 33                                          | 5.3                                                  | 6.4                                   | 53.3                                     |
| 2000                | 1,462                           | 74                | 164                      | 36                                          | 5.1                                                  | 6.3                                   | 53.6                                     |
| 2001                | 1,377                           | 62                | 156                      | 34                                          | 4.5                                                  | 7.0                                   | 59.2                                     |
| 2002                | 1,344                           | 64                | 154                      | 34                                          | 4.7                                                  | 6.8                                   | 56.8                                     |
| 2003                | 1,416                           | 66                | 158                      | 34                                          | 4.7                                                  | 6.6                                   | 57.2                                     |
| Hotels and Catering |                                 |                   |                          |                                             |                                                      |                                       |                                          |
| 1993                | 1,454                           | 235               | 637                      | 29                                          | 16.2                                                 | 27.5                                  | 56.4                                     |
| 1998                | 1,594                           | 212               | 707                      | 31                                          | 13.3                                                 | 30.7                                  | 64.1                                     |
| 1999                | 1,446                           | 213               | 606                      | 30                                          | 14.7                                                 | 29.1                                  | 63.1                                     |
| 2000                | 1,522                           | 242               | 650                      | 34                                          | 15.9                                                 | 29.2                                  | 61.1                                     |
| 2001                | 1,345                           | 177               | 554                      | 30                                          | 13.1                                                 | 29.5                                  | 66.2                                     |
| 2002                | 1,310                           | 173               | 535                      | 29                                          | 13.2                                                 | 29.2                                  | 65.9                                     |
| 2003                | 1,240                           | 136               | 487                      | 26                                          | 11.0                                                 | 29.1                                  | 70.2                                     |

Note : Data from 1999 onwards were compiled using revised extrapolation and imputation methodology.

1 With effect from 1995, 'rental for land' has been reclassified from an operating to a non-operating item, according to the Singapore System of National Accounts classification.

2 From 1999, value added has been revised to basic prices in line with the rebasing of Gross Domestic Product (GDP).



## 12.3

## PRINCIPAL STATISTICS OF SERVICES

| Year                                           | Establish-<br>ments | Employ-<br>ment | Remunera-<br>tion | Operating<br>Receipts <sup>1</sup> | Operating<br>Expenditure <sup>1</sup> | Operating<br>Surplus <sup>1</sup> | Value<br>Added <sup>2</sup> |
|------------------------------------------------|---------------------|-----------------|-------------------|------------------------------------|---------------------------------------|-----------------------------------|-----------------------------|
|                                                | Number              |                 | Million Dollars   |                                    |                                       |                                   |                             |
| Total                                          |                     |                 |                   |                                    |                                       |                                   |                             |
| 1993                                           | 40,374              | 346,381         | 10,720            | 71,925                             | 54,256                                | 23,018                            | 26,885                      |
| 1998                                           | 55,465              | 475,444         | 18,997            | 114,221                            | 91,820                                | 32,394                            | 41,847                      |
| 1999                                           | 60,802              | 501,000         | 19,874            | 120,176                            | 96,459                                | 33,888                            | 42,809                      |
| 2000                                           | 64,091              | 535,588         | 23,264            | 133,151                            | 106,244                               | 38,860                            | 48,453                      |
| 2001                                           | 66,429              | 547,468         | 24,600            | 129,739                            | 109,122                               | 33,161                            | 48,422                      |
| 2002                                           | 70,209              | 557,380         | 26,008            | 133,898                            | 111,229                               | 35,649                            | 49,474                      |
| 2003                                           | 74,437              | 565,901         | 26,528            | 145,738                            | 110,543                               | 50,179                            | 51,903                      |
| Transport, Storage and Communications Services |                     |                 |                   |                                    |                                       |                                   |                             |
| 1993                                           | 7,185               | 110,266         | 3,530             | 24,525                             | 19,541                                | 6,693                             | 10,607                      |
| 1998                                           | 8,538               | 128,738         | 5,309             | 37,427                             | 31,339                                | 8,917                             | 14,772                      |
| 1999                                           | 9,249               | 131,818         | 5,421             | 41,256                             | 33,940                                | 9,889                             | 15,717                      |
| 2000                                           | 9,405               | 135,737         | 6,033             | 46,135                             | 38,103                                | 10,849                            | 17,268                      |
| 2001                                           | 9,492               | 134,401         | 6,081             | 47,911                             | 40,608                                | 10,224                            | 16,697                      |
| 2002                                           | 9,873               | 133,822         | 6,249             | 50,669                             | 43,333                                | 10,214                            | 16,822                      |
| 2003                                           | 10,399              | 133,335         | 6,277             | 51,244                             | 43,267                                | 11,675                            | 18,310                      |
| Financial and Insurance Services <sup>3</sup>  |                     |                 |                   |                                    |                                       |                                   |                             |
| 1993                                           | 3,827               | 14,143          | 612               | 15,449                             | 6,247                                 | 9,358                             | 1,292                       |
| 1998                                           | 5,831               | 17,865          | 1,282             | 24,288                             | 10,921                                | 13,597                            | 2,339                       |
| 1999                                           | 6,078               | 17,952          | 1,388             | 25,135                             | 11,931                                | 13,543                            | 2,796                       |
| 2000                                           | 6,469               | 19,069          | 1,577             | 30,361                             | 13,935                                | 16,926                            | 3,664                       |
| 2001                                           | 6,820               | 19,129          | 1,708             | 25,821                             | 13,912                                | 12,188                            | 3,521                       |
| 2002                                           | 7,062               | 20,253          | 1,686             | 27,879                             | 13,577                                | 14,615                            | 3,344                       |
| 2003                                           | 7,377               | 21,630          | 1,755             | 38,104                             | 10,610                                | 27,781                            | 3,783                       |

(continued on next page)

Note : Data from 1999 onwards were compiled using revised extrapolation and imputation methodology.

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

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

1 With effect from 1995, 'rental for land' has been reclassified from an operating to a non-operating item, according to the Singapore System of National Accounts classification.

2 From 1999, value added has been revised to basic prices in line with the rebasing of Gross Domestic Product (GDP).

3 Data exclude establishments under the purview of the Monetary Authority of Singapore (MAS).



## 12.3

## PRINCIPAL STATISTICS OF SERVICES (continued)

| Year                                           | Establish-<br>ments | Employ-<br>ment | Remunera-<br>tion | Operating<br>Receipts <sup>1</sup> | Operating<br>Expenditure <sup>1</sup> | Operating<br>Surplus <sup>1</sup> | Value<br>Added <sup>2</sup> |
|------------------------------------------------|---------------------|-----------------|-------------------|------------------------------------|---------------------------------------|-----------------------------------|-----------------------------|
|                                                | Number              |                 | Million Dollars   |                                    |                                       |                                   |                             |
| Real Estate and Business Services <sup>4</sup> |                     |                 |                   |                                    |                                       |                                   |                             |
| 1993                                           | 14,804              | 104,639         | 3,427             | 24,823                             | 20,163                                | 5,536                             | 9,576                       |
| 1998                                           | 24,885              | 166,874         | 7,065             | 41,004                             | 35,058                                | 7,856                             | 15,909                      |
| 1999                                           | 27,526              | 183,742         | 7,718             | 42,064                             | 35,798                                | 8,257                             | 16,677                      |
| 2000                                           | 28,761              | 199,367         | 9,207             | 43,105                             | 36,401                                | 8,692                             | 18,609                      |
| 2001                                           | 30,510              | 201,593         | 9,196             | 41,209                             | 35,365                                | 8,271                             | 18,031                      |
| 2002                                           | 32,546              | 206,839         | 9,936             | 39,658                             | 34,014                                | 8,111                             | 18,372                      |
| 2003                                           | 34,545              | 207,094         | 9,977             | 40,047                             | 34,852                                | 7,491                             | 17,964                      |
| Community, Social and Personal Services        |                     |                 |                   |                                    |                                       |                                   |                             |
| 1993                                           | 14,558              | 117,333         | 3,150             | 7,128                              | 8,305                                 | 1,430                             | 5,410                       |
| 1998                                           | 16,211              | 161,967         | 5,342             | 11,502                             | 14,503                                | 2,024                             | 8,826                       |
| 1999                                           | 17,949              | 167,488         | 5,347             | 11,720                             | 14,790                                | 2,200                             | 7,619                       |
| 2000                                           | 19,456              | 181,415         | 6,447             | 13,549                             | 17,805                                | 2,393                             | 8,912                       |
| 2001                                           | 19,607              | 192,345         | 7,615             | 14,798                             | 19,237                                | 2,478                             | 10,173                      |
| 2002                                           | 20,728              | 196,466         | 8,138             | 15,693                             | 20,305                                | 2,709                             | 10,937                      |
| 2003                                           | 22,116              | 203,842         | 8,519             | 16,342                             | 21,813                                | 3,232                             | 11,846                      |

Note : Data from 1999 onwards were compiled using revised extrapolation and imputation methodology.

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

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

1 With effect from 1995, 'rental for land' has been reclassified from an operating to a non-operating item, according to the Singapore System of National Accounts classification.

2 From 1999, value added has been revised to basic prices in line with the rebasing of Gross Domestic Product (GDP).

4 From 1999, data include the publishing industry. Data for 1999 refer to publishing firms with 10 and more workers while that for 2000 onwards refer to the whole industry.



## 12.4

## SELECTED AVERAGES AND RATIOS OF SERVICES

| Year                                           | Operating Receipts <sup>1</sup> | Operating Surplus <sup>1</sup> | Value Added <sup>2</sup> | Value Added <sup>2</sup> Per Person Engaged | Operating Surplus to Operating Receipts <sup>1</sup> | Remuneration to Operating Expenditure <sup>1</sup> | Remuneration to Value Added <sup>2</sup> |
|------------------------------------------------|---------------------------------|--------------------------------|--------------------------|---------------------------------------------|------------------------------------------------------|----------------------------------------------------|------------------------------------------|
|                                                | Per Establishment               |                                |                          |                                             |                                                      |                                                    |                                          |
|                                                | Thousand Dollars                |                                |                          |                                             |                                                      |                                                    |                                          |
| Total                                          |                                 |                                |                          |                                             |                                                      |                                                    |                                          |
| 1993                                           | 1,781                           | 570                            | 666                      | 78                                          | 32.0                                                 | 19.8                                               | 39.9                                     |
| 1998                                           | 2,059                           | 584                            | 754                      | 88                                          | 28.4                                                 | 20.7                                               | 45.4                                     |
| 1999                                           | 1,977                           | 557                            | 704                      | 85                                          | 28.2                                                 | 20.6                                               | 46.4                                     |
| 2000                                           | 2,078                           | 606                            | 756                      | 90                                          | 29.2                                                 | 21.9                                               | 48.0                                     |
| 2001                                           | 1,953                           | 499                            | 729                      | 88                                          | 25.6                                                 | 22.5                                               | 50.8                                     |
| 2002                                           | 1,907                           | 508                            | 705                      | 89                                          | 26.6                                                 | 23.4                                               | 52.6                                     |
| 2003                                           | 1,958                           | 674                            | 697                      | 92                                          | 34.4                                                 | 24.0                                               | 51.1                                     |
| Transport, Storage and Communications Services |                                 |                                |                          |                                             |                                                      |                                                    |                                          |
| 1993                                           | 3,413                           | 932                            | 1,476                    | 96                                          | 27.3                                                 | 18.1                                               | 33.3                                     |
| 1998                                           | 4,384                           | 1,044                          | 1,730                    | 115                                         | 23.8                                                 | 16.9                                               | 35.9                                     |
| 1999                                           | 4,461                           | 1,069                          | 1,699                    | 119                                         | 24.0                                                 | 16.0                                               | 34.5                                     |
| 2000                                           | 4,905                           | 1,154                          | 1,836                    | 127                                         | 23.5                                                 | 15.8                                               | 34.9                                     |
| 2001                                           | 5,048                           | 1,077                          | 1,759                    | 124                                         | 21.3                                                 | 15.0                                               | 36.4                                     |
| 2002                                           | 5,132                           | 1,035                          | 1,704                    | 126                                         | 20.2                                                 | 14.4                                               | 37.1                                     |
| 2003                                           | 4,928                           | 1,123                          | 1,761                    | 137                                         | 22.8                                                 | 14.5                                               | 34.3                                     |
| Financial and Insurance Services <sup>3</sup>  |                                 |                                |                          |                                             |                                                      |                                                    |                                          |
| 1993                                           | 4,037                           | 2,445                          | 338                      | 91                                          | 60.6                                                 | 9.8                                                | 47.4                                     |
| 1998                                           | 4,165                           | 2,332                          | 401                      | 131                                         | 56.0                                                 | 11.7                                               | 54.8                                     |
| 1999                                           | 4,135                           | 2,228                          | 460                      | 156                                         | 53.9                                                 | 11.6                                               | 49.7                                     |
| 2000                                           | 4,693                           | 2,617                          | 566                      | 192                                         | 55.8                                                 | 11.3                                               | 43.1                                     |
| 2001                                           | 3,786                           | 1,787                          | 516                      | 184                                         | 47.2                                                 | 12.3                                               | 48.5                                     |
| 2002                                           | 3,948                           | 2,070                          | 474                      | 165                                         | 52.4                                                 | 12.4                                               | 50.4                                     |
| 2003                                           | 5,165                           | 3,766                          | 513                      | 175                                         | 72.9                                                 | 16.5                                               | 46.4                                     |

(continued on next page)

Note : Data from 1999 onwards were compiled using revised extrapolation and imputation methodology.

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

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

1 With effect from 1995, 'rental for land' has been reclassified from an operating to a non-operating item, according to the Singapore System of National Accounts classification.

2 From 1999, value added has been revised to basic prices in line with the rebasing of Gross Domestic Product (GDP).

3 Data exclude establishments under the purview of the Monetary Authority of Singapore (MAS).



## 12.4 SELECTED AVERAGES AND RATIOS OF SERVICES (continued)

| Year                                           | Operating Receipts <sup>1</sup> | Operating Surplus <sup>1</sup> | Value Added <sup>2</sup> | Value Added <sup>2</sup> Per Person Engaged | Operating Surplus to Operating Receipts <sup>1</sup> | Remuneration to Operating Expenditure <sup>1</sup> | Remuneration to Value Added <sup>2</sup> |
|------------------------------------------------|---------------------------------|--------------------------------|--------------------------|---------------------------------------------|------------------------------------------------------|----------------------------------------------------|------------------------------------------|
|                                                | Per Establishment               |                                |                          |                                             |                                                      |                                                    |                                          |
|                                                | Thousand Dollars                |                                |                          |                                             | Per Cent                                             |                                                    |                                          |
| Real Estate and Business Services <sup>4</sup> |                                 |                                |                          |                                             |                                                      |                                                    |                                          |
| 1993                                           | 1,677                           | 374                            | 647                      | 92                                          | 22.3                                                 | 17.0                                               | 35.8                                     |
| 1998                                           | 1,648                           | 316                            | 639                      | 95                                          | 19.2                                                 | 20.2                                               | 44.4                                     |
| 1999                                           | 1,528                           | 300                            | 606                      | 91                                          | 19.6                                                 | 21.6                                               | 46.3                                     |
| 2000                                           | 1,499                           | 302                            | 647                      | 93                                          | 20.2                                                 | 25.3                                               | 49.5                                     |
| 2001                                           | 1,351                           | 271                            | 591                      | 89                                          | 20.1                                                 | 26.0                                               | 51.0                                     |
| 2002                                           | 1,219                           | 249                            | 564                      | 89                                          | 20.5                                                 | 29.2                                               | 54.1                                     |
| 2003                                           | 1,159                           | 217                            | 520                      | 87                                          | 18.7                                                 | 28.6                                               | 55.5                                     |
| Community, Social and Personal Services        |                                 |                                |                          |                                             |                                                      |                                                    |                                          |
| 1993                                           | 490                             | 98                             | 372                      | 46                                          | 20.1                                                 | 37.9                                               | 58.2                                     |
| 1998                                           | 710                             | 125                            | 544                      | 54                                          | 17.6                                                 | 36.8                                               | 60.5                                     |
| 1999                                           | 653                             | 123                            | 425                      | 45                                          | 18.8                                                 | 36.2                                               | 70.2                                     |
| 2000                                           | 696                             | 123                            | 458                      | 49                                          | 17.7                                                 | 36.2                                               | 72.3                                     |
| 2001                                           | 755                             | 126                            | 519                      | 53                                          | 16.7                                                 | 39.6                                               | 74.9                                     |
| 2002                                           | 757                             | 131                            | 528                      | 56                                          | 17.3                                                 | 40.1                                               | 74.4                                     |
| 2003                                           | 739                             | 146                            | 536                      | 58                                          | 19.8                                                 | 39.1                                               | 71.9                                     |

Note : Data for 1999 onwards were compiled using revised extrapolation and imputation methodology.

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

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

1 With effect from 1995, 'rental for land' has been reclassified from an operating to a non-operating item, according to the Singapore System of National Accounts classification.

2 From 1999, value added has been revised to basic prices in line with the rebasing of Gross Domestic Product (GDP).

4 From 1999, data include the publishing industry. Data for 1999 refer to publishing firms with 10 and more workers while that for 2000 onwards refer to the whole industry.



## 12.5

## RETAIL SALES INDEX

(1997=100)

|                                    | Weights <sup>1</sup> | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| At Current Prices                  |                      |       |       |       |       |       |       |       |
| Total                              | 10,000               | 99.6  | 105.6 | 128.4 | 133.1 | 129.8 | 140.9 | 158.6 |
| Total (excl Motor Vehicles)        | 7,360                | 90.2  | 96.2  | 103.0 | 102.1 | 104.3 | 102.6 | 110.9 |
| Department Stores                  | 1,395                | 96.2  | 98.0  | 104.3 | 99.9  | 100.4 | 99.6  | 108.4 |
| Supermarkets                       | 301                  | 64.7  | 115.8 | 123.0 | 138.3 | 147.1 | 158.5 | 151.1 |
| Provision & Sundry Shops           | 592                  | 93.0  | 97.6  | 100.6 | 104.6 | 109.6 | 113.8 | 123.2 |
| Food & Beverages                   | 200                  | 103.6 | 83.1  | 87.6  | 89.6  | 96.8  | 96.0  | 96.1  |
| Motor Vehicles                     | 2,640                | 138.1 | 131.6 | 199.4 | 219.5 | 201.1 | 247.7 | 291.5 |
| Petrol Service Stations            | 310                  | 92.3  | 92.2  | 104.4 | 100.5 | 90.5  | 90.9  | 100.6 |
| Medical Goods & Toiletries         | 319                  | 88.1  | 104.1 | 113.1 | 114.9 | 118.4 | 125.3 | 135.6 |
| Wearing Apparel & Footwear         | 713                  | 108.3 | 102.0 | 107.7 | 107.2 | 105.7 | 97.7  | 106.0 |
| Furniture & Household<br>Equipment | 1,047                | 80.3  | 105.9 | 111.6 | 103.6 | 107.8 | 100.1 | 109.0 |
| Recreational Goods                 | 201                  | 96.0  | 98.1  | 103.6 | 97.7  | 92.5  | 91.1  | 99.1  |
| Watches & Jewellery                | 911                  | 95.0  | 80.8  | 80.6  | 81.9  | 83.3  | 86.0  | 96.2  |
| Telecommunications &<br>Computers  | 356                  | 40.9  | 72.1  | 97.1  | 86.9  | 77.2  | 78.2  | 80.0  |
| Optical Goods & Books              | 381                  | 81.2  | 97.5  | 107.3 | 106.9 | 112.0 | 114.1 | 116.6 |
| Others                             | 634                  | 108.7 | 95.8  | 105.2 | 113.5 | 126.4 | 112.3 | 130.3 |
| At Constant Prices                 |                      |       |       |       |       |       |       |       |
| Total                              | 10,000               | 94.9  | 109.4 | 137.0 | 148.2 | 146.6 | 159.4 | 181.0 |
| Total (excl Motor Vehicles)        | 7,360                | 88.1  | 98.5  | 105.7 | 105.2 | 107.9 | 105.0 | 110.9 |
| Department Stores                  | 1,395                | 98.4  | 99.1  | 105.5 | 100.8 | 101.4 | 99.3  | 105.2 |
| Supermarkets                       | 301                  | 67.9  | 114.8 | 120.7 | 134.6 | 144.2 | 151.8 | 138.3 |
| Provision & Sundry Shops           | 592                  | 97.8  | 96.5  | 98.8  | 101.6 | 107.4 | 108.3 | 111.7 |
| Food & Beverages                   | 200                  | 109.1 | 82.5  | 86.0  | 86.5  | 93.2  | 91.2  | 89.3  |
| Motor Vehicles                     | 2,640                | 127.3 | 139.5 | 224.4 | 268.1 | 254.6 | 311.0 | 376.3 |
| Petrol Service Stations            | 310                  | 98.2  | 95.2  | 92.5  | 91.5  | 89.8  | 87.3  | 86.7  |
| Medical Goods & Toiletries         | 319                  | 86.6  | 103.3 | 111.5 | 111.5 | 114.3 | 119.7 | 128.0 |
| Wearing Apparel & Footwear         | 713                  | 108.7 | 106.0 | 112.9 | 112.4 | 110.8 | 101.4 | 109.8 |
| Furniture & Household<br>Equipment | 1,047                | 77.9  | 109.9 | 118.3 | 111.6 | 118.9 | 112.4 | 123.5 |
| Recreational Goods                 | 201                  | 96.0  | 99.7  | 104.9 | 100.3 | 95.9  | 94.4  | 102.6 |
| Watches & Jewellery                | 911                  | 81.6  | 85.1  | 84.6  | 84.4  | 82.2  | 79.7  | 84.1  |
| Telecommunications &<br>Computers  | 356                  | 31.0  | 85.6  | 127.1 | 130.4 | 122.0 | 129.5 | 137.0 |
| Optical Goods & Books              | 381                  | 85.5  | 97.5  | 107.6 | 107.4 | 112.2 | 113.5 | 109.5 |
| Others                             | 634                  | 111.2 | 95.6  | 103.9 | 111.0 | 124.7 | 110.6 | 127.5 |

<sup>1</sup> Based on turnover data derived from the 1997 Annual Survey of Retail Trade.



12.6 SALES INDEX OF CATERING TRADE  
(1997=100)

|                     | Weights <sup>1</sup> | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|---------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| At Current Prices   |                      |       |       |       |       |       |       |       |
| Total               | 1,000                | 86.1  | 93.4  | 100.3 | 99.6  | 94.7  | 88.1  | 92.8  |
| Restaurants         | 450                  | 91.6  | 91.2  | 100.3 | 97.8  | 93.4  | 87.3  | 94.2  |
| Fast Food Outlets   | 131                  | 78.3  | 105.8 | 112.0 | 110.5 | 104.8 | 103.6 | 104.6 |
| Other Eating Places | 419                  | 84.3  | 91.8  | 96.6  | 98.0  | 92.9  | 84.0  | 87.7  |
| At Constant Prices  |                      |       |       |       |       |       |       |       |
| Total               | 1,000                | 92.3  | 91.1  | 97.3  | 95.0  | 89.5  | 82.0  | 85.0  |
| Restaurants         | 450                  | 100.2 | 88.8  | 97.1  | 92.9  | 87.8  | 80.3  | 84.5  |
| Fast Food Outlets   | 131                  | 81.0  | 102.4 | 107.6 | 103.7 | 97.0  | 94.9  | 94.6  |
| Other Eating Places | 419                  | 90.2  | 90.1  | 94.3  | 94.6  | 88.9  | 79.9  | 82.6  |

Note : Catering trade refers to the sales of prepared food and drinks for in-premises consumption or on a take-away basis.  
All eating places are included with the exception of hawker stalls.  
1 - Based on turnover data derived from the 1997 Annual Survey of Catering Trade.



# 12.7 DOMESTIC WHOLESALE TRADE INDEX

(2000 = 100)

|                                         | Weights <sup>1</sup> | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|-----------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|
| At Current Prices                       |                      |       |       |       |       |       |       |
| Total                                   | 10,000               | 76.3  | 100.0 | 89.7  | 93.2  | 96.0  | 114.4 |
| Total (excl Petroleum)                  | 6,765                | 89.5  | 100.0 | 90.0  | 96.5  | 99.0  | 107.6 |
| Food, Beverages & Tobacco               | 882                  | 103.3 | 100.0 | 100.4 | 117.8 | 120.5 | 109.5 |
| Household Equipment & Furniture         | 780                  | 101.7 | 100.0 | 82.3  | 75.5  | 73.0  | 72.2  |
| Petroleum & Petroleum Products          | 3,235                | 48.7  | 100.0 | 89.1  | 86.2  | 89.8  | 128.5 |
| Chemicals & Chemical Products           | 291                  | 76.3  | 100.0 | 120.2 | 238.7 | 208.9 | 114.3 |
| Electronic Components                   | 1,391                | 80.9  | 100.0 | 80.1  | 76.9  | 65.3  | 88.4  |
| Industrial & Construction Machinery     | 380                  | 87.3  | 100.0 | 78.9  | 66.8  | 73.0  | 76.2  |
| Telecommunications & Computers          | 687                  | 88.8  | 100.0 | 91.9  | 85.1  | 88.7  | 95.3  |
| Timber, Paints & Construction Materials | 460                  | 93.2  | 100.0 | 86.3  | 82.7  | 86.3  | 100.4 |
| General Wholesale Trade                 | 409                  | 88.5  | 100.0 | 72.5  | 65.4  | 65.1  | 75.1  |
| Ship Chandlers & Bunkering              | 469                  | 68.9  | 100.0 | 96.3  | 130.9 | 159.4 | 211.8 |
| Other Wholesale Trade                   | 1,016                | 93.2  | 100.0 | 100.3 | 101.8 | 123.4 | 145.9 |
| At Constant Prices                      |                      |       |       |       |       |       |       |
| Total                                   | 10,000               | 89.2  | 99.2  | 91.9  | 95.7  | 94.6  | 106.1 |
| Total (excl Petroleum)                  | 6,765                | 93.9  | 99.2  | 90.4  | 97.6  | 99.5  | 106.8 |
| Food, Beverages & Tobacco               | 882                  | 101.2 | 100.0 | 100.7 | 117.5 | 116.6 | 102.5 |
| Household Equipment & Furniture         | 780                  | 102.7 | 99.9  | 87.2  | 82.9  | 84.5  | 87.0  |
| Petroleum & Petroleum Products          | 3,235                | 79.6  | 99.3  | 95.0  | 91.6  | 84.5  | 104.6 |
| Chemicals & Chemical Products           | 291                  | 98.2  | 99.8  | 115.2 | 201.2 | 168.0 | 103.4 |
| Electronic Components                   | 1,391                | 89.8  | 100.0 | 80.3  | 78.8  | 70.1  | 95.2  |
| Industrial & Construction Machinery     | 380                  | 82.4  | 100.0 | 80.0  | 70.8  | 78.0  | 82.0  |
| Telecommunications & Computers          | 687                  | 74.3  | 100.0 | 89.8  | 93.0  | 101.8 | 116.7 |
| Timber, Paints & Construction Materials | 460                  | 95.0  | 100.0 | 89.4  | 85.5  | 85.6  | 89.4  |
| General Wholesale Trade                 | 409                  | 97.8  | 99.7  | 73.7  | 68.7  | 67.1  | 73.6  |
| Ship Chandlers & Bunkering              | 469                  | 103.7 | 100.2 | 105.3 | 142.7 | 152.2 | 171.7 |
| Other Wholesale Trade                   | 1,016                | 95.9  | 94.9  | 94.9  | 97.5  | 118.2 | 136.6 |

<sup>1</sup> Based on turnover data derived from the 2000 Annual Survey of Wholesale Trade.



# 12.8 FOREIGN WHOLESALE TRADE INDEX

(2000 =100)

|                                         | Weights <sup>1</sup> | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|-----------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|
| At Current Prices                       |                      |       |       |       |       |       |       |
| Total                                   | 10,000               | 72.0  | 100.0 | 92.3  | 89.2  | 104.1 | 129.6 |
| Total (excl Petroleum)                  | 4,801                | 85.8  | 100.0 | 99.2  | 109.3 | 132.4 | 159.2 |
| Food, Beverages & Tobacco               | 275                  | 105.2 | 100.0 | 118.4 | 145.0 | 175.2 | 193.5 |
| Household Equipment & Furniture         | 548                  | 100.8 | 100.0 | 106.6 | 106.1 | 122.1 | 145.3 |
| Petroleum & Petroleum Products          | 5,199                | 59.1  | 100.0 | 86.0  | 70.6  | 77.9  | 102.3 |
| Chemicals & Chemical Products           | 366                  | 86.4  | 100.0 | 155.9 | 169.5 | 195.7 | 286.6 |
| Electronic Components                   | 676                  | 74.7  | 100.0 | 72.9  | 79.1  | 95.1  | 128.0 |
| Industrial & Construction Machinery     | 410                  | 75.3  | 100.0 | 75.6  | 81.0  | 58.0  | 59.2  |
| Telecommunications & Computers          | 495                  | 81.0  | 100.0 | 102.8 | 106.2 | 165.7 | 200.1 |
| Timber, Paints & Construction Materials | 216                  | 89.9  | 100.0 | 99.3  | 122.8 | 149.2 | 173.2 |
| General Wholesale Trade                 | 861                  | 84.7  | 100.0 | 94.2  | 103.9 | 118.7 | 138.3 |
| Ship Chandlers & Bunkering              | 162                  | 73.1  | 100.0 | 88.3  | 103.1 | 119.1 | 137.3 |
| Other Wholesale Trade                   | 792                  | 89.1  | 100.0 | 101.1 | 116.9 | 158.1 | 174.1 |
| At Constant Prices                      |                      |       |       |       |       |       |       |
| Total                                   | 10,000               | 91.9  | 99.6  | 99.7  | 100.3 | 112.6 | 130.4 |
| Total (excl Petroleum)                  | 4,801                | 89.9  | 99.4  | 103.1 | 120.2 | 148.9 | 179.0 |
| Food, Beverages & Tobacco               | 275                  | 105.4 | 100.0 | 116.1 | 137.4 | 160.4 | 172.5 |
| Household Equipment & Furniture         | 548                  | 103.8 | 100.2 | 111.3 | 119.3 | 144.5 | 179.4 |
| Petroleum & Petroleum Products          | 5,199                | 93.8  | 99.9  | 96.7  | 82.0  | 79.0  | 85.5  |
| Chemicals & Chemical Products           | 366                  | 111.0 | 99.5  | 154.2 | 170.9 | 182.2 | 224.0 |
| Electronic Components                   | 676                  | 71.4  | 99.8  | 85.1  | 106.8 | 139.7 | 191.8 |
| Industrial & Construction Machinery     | 410                  | 79.1  | 100.0 | 75.1  | 85.9  | 62.7  | 64.3  |
| Telecommunications & Computers          | 495                  | 74.3  | 100.0 | 107.1 | 128.3 | 230.0 | 313.8 |
| Timber, Paints & Construction Materials | 216                  | 92.4  | 98.1  | 97.2  | 130.0 | 154.5 | 155.2 |
| General Wholesale Trade                 | 861                  | 89.5  | 100.0 | 100.1 | 119.2 | 141.0 | 163.5 |
| Ship Chandlers & Bunkering              | 162                  | 114.4 | 100.2 | 97.3  | 112.9 | 114.4 | 108.5 |
| Other Wholesale Trade                   | 792                  | 91.3  | 97.0  | 102.5 | 115.1 | 148.2 | 162.0 |

1 Based on turnover data derived from the 2000 Annual Survey of Wholesale Trade.



# 12.9 BUSINESS RECEIPTS INDEX FOR SERVICES INDUSTRIES

(2002 = 100)

|                                                               | Weights <sup>1</sup> | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|---------------------------------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|
| Total <sup>2</sup>                                            | 10,000               | 87.0  | 97.3  | 100.5 | 100.0 | 101.8 | 112.0 |
| Total (excluding Financial & Insurance Services) <sup>2</sup> | 8,058                | 87.2  | 98.5  | 100.0 | 100.0 | 102.3 | 112.8 |
| Transport & Storage                                           | 3,431                | 92.6  | 103.6 | 101.7 | 100.0 | 102.2 | 120.6 |
| Land Transport                                                | 276                  | 88.9  | 97.4  | 100.0 | 100.0 | 98.1  | 103.7 |
| Water Transport                                               | 1,450                | 92.4  | 103.5 | 104.6 | 100.0 | 113.6 | 135.7 |
| Air Transport                                                 | 1,092                | 96.8  | 109.8 | 100.4 | 100.0 | 89.5  | 113.4 |
| Storage & Supporting Services                                 | 613                  | 87.5  | 95.9  | 97.4  | 100.0 | 99.5  | 105.2 |
| Post & Telecommunications                                     | 744                  | 77.1  | 90.4  | 99.5  | 100.0 | 101.5 | 105.3 |
| Financial & Insurance Services                                | 1,942                | 86.5  | 94.3  | 102.0 | 100.0 | 99.9  | 108.6 |
| Financial Services                                            | 1,480                | 96.7  | 95.2  | 98.0  | 100.0 | 104.5 | 109.3 |
| Insurance Services                                            | 462                  | 54.1  | 91.3  | 115.0 | 100.0 | 85.0  | 106.4 |
| Real Estate & Leasing Services                                | 566                  | 106.3 | 106.1 | 106.2 | 100.0 | 98.6  | 95.8  |
| Real Estates (excluding Developers)                           | 408                  | 106.3 | 106.1 | 106.2 | 100.0 | 95.7  | 89.7  |
| Leasing <sup>2</sup>                                          | 158                  | na    | na    | na    | 100.0 | 106.0 | 111.7 |
| IT Services                                                   | 404                  | 89.7  | 101.3 | 109.7 | 100.0 | 88.1  | 81.2  |
| IT Consultancy                                                | 66                   | 90.8  | 106.5 | 113.4 | 100.0 | 92.2  | 92.4  |
| IT Development and Services                                   | 244                  | 49.5  | 56.5  | 71.4  | 100.0 | 84.5  | 74.1  |
| Business Services <sup>2</sup>                                | 1,913                | 77.0  | 92.8  | 95.1  | 100.0 | 108.5 | 115.4 |
| Legal & Accounting                                            | 175                  | 86.2  | 98.2  | 106.0 | 100.0 | 91.7  | 103.5 |
| Market Research & Business Management Consultancy             | 290                  | 62.7  | 81.2  | 90.6  | 100.0 | 93.0  | 93.5  |
| Architectural, Engineering & Technical                        | 353                  | 73.8  | 87.3  | 89.3  | 100.0 | 94.9  | 95.0  |
| Advertising                                                   | 143                  | 112.5 | 125.9 | 100.4 | 100.0 | 85.6  | 115.0 |
| Other Business Services <sup>2,3</sup>                        | 952                  | 83.0  | 101.1 | 99.7  | 100.0 | 124.7 | 131.9 |
| Education Services <sup>2</sup>                               | 87                   | na    | na    | na    | 100.0 | 107.5 | 99.1  |
| Health Services                                               | 420                  | 68.9  | 75.2  | 87.0  | 100.0 | 95.7  | 115.0 |
| Hospitals                                                     | 196                  | 72.3  | 78.3  | 91.5  | 100.0 | 94.9  | 117.8 |
| Clinics & Specialised Medical Services                        | 190                  | 62.0  | 68.7  | 77.4  | 100.0 | 95.8  | 115.5 |
| Recreational Activities <sup>2</sup>                          | 351                  | na    | na    | na    | 100.0 | 98.7  | 104.3 |
| Other Services Activities <sup>2</sup>                        | 142                  | na    | na    | na    | 100.0 | 107.1 | 109.0 |

Note: The current index series have been rebased with base year 2002=100. The rebased indices reflect the relative importance of the industry divisions and changing structure within the services sector.

<sup>1</sup> Based on operating receipts derived from the 2002 Annual Survey of Services.

<sup>2</sup> With effect from 2002, the index compiled includes more services industries.

<sup>3</sup> Includes research & development, publishing and other business services such as labour recruitment, investigation and security, building-cleaning, photographic, specialised design activities, direct mailing, regional headquarter activities, stenographic, duplicating & translation activities, exhibition fairs and conventions, etc.



# 12.10 REVENUE OF THE INFORMATION AND COMMUNICATION TECHNOLOGY INDUSTRY

|                                                              | Million Dollars |          |          |          |          |          |          |
|--------------------------------------------------------------|-----------------|----------|----------|----------|----------|----------|----------|
|                                                              | 1993            | 1998     | 1999     | 2000     | 2001     | 2002     | 2003     |
| <b>Local and Export Market <sup>1</sup></b>                  |                 |          |          |          |          |          |          |
| Total                                                        | 3,717.6         | 19,954.0 | 23,241.0 | 25,932.0 | 30,649.0 | 32,169.0 | 32,828.0 |
| Local                                                        | 2,092.3         | 10,804.0 | 12,320.0 | 13,372.0 | 14,254.0 | 15,083.0 | 15,052.0 |
| Export                                                       | 1,625.3         | 9,150.0  | 10,921.0 | 12,560.0 | 16,395.0 | 17,086.0 | 17,776.0 |
| <b>Hardware and Software/IT Services Market <sup>1</sup></b> |                 |          |          |          |          |          |          |
| Total                                                        | 3,717.6         | 19,954.0 | 23,241.0 | 25,932.0 | 30,649.0 | 32,169.0 | 32,828.0 |
| Hardware                                                     | 2,684.2         | 7,582.5  | 8,969.0  | 9,828.0  | 11,476.0 | 13,150.0 | 15,128.0 |
| Software / IT Services                                       | 1,033.4         | 4,988.5  | 5,478.0  | 6,396.0  | 11,402.0 | 10,324.0 | 8,334.0  |
| Telecommunications                                           | -               | 7,383.0  | 8,364.0  | 9,120.0  | 6,140.0  | 6,402.0  | 6,641.0  |
| Content Activities                                           | -               | -        | 431.0    | 589.0    | 1,631.0  | 2,290.0  | 2,725.0  |

Source : Infocomm Development Authority of Singapore

Note : Revenue for 2002 was computed using data from a sample of large infocomm companies and a random sample of the remaining infocomm companies stratified by company sizes and weighted by the population profile; while the revenue in 2001 was originally calculated from extrapolating data from large infocomm companies holding certain assumptions of their revenue contributions to the infocomm sector. The data for 2001 was re-collected and calculated using the methodology adopted in 2002 to ensure consistency and rigor in calculation methodology.

1 With effect from 1998, data include telecommunications revenue.







## 13 EXTERNAL TRADE

### Sources of Data

From April 1987, Singapore's external trade statistics are compiled by International Enterprise Singapore from import and export permits submitted to the Controller and Registrar of Imports and Exports or the Director-General of Customs and Excise, Singapore, except for the following: -

- (i) Postal packages which are based on particulars furnished by the Singapore Post Pte Ltd; and
- (ii) Bunkers and stores supplied to non-Singapore-registered ships and aircraft, which are compiled from statements furnished by ships and aircraft agents to the International Enterprise Singapore.

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

### Coverage

The "general" system for recording trade statistics is adopted in Singapore. Under this system, all goods imported into or exported from Singapore are included in the external 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 Malaysian 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 rental basis;
- (v) Television news films, news or press materials;
- (vi) Ships and aircraft arriving for or departing after repairs;
- (vii) Goods temporarily taken in or out of the country to be returned after a specific purpose eg for 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 bullion and gold coins; and
- (xi) Issued currency notes and coins.

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

*Imports:* Refers 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.



## 13 EXTERNAL TRADE (cont'd)

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

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

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

**Trade at 2000 Prices:** This is obtained by adjusting the recorded value of trade using import/export price indices with base year 2000. The series on trade at 2000 prices indicate the volume of trade after adjusting for the effect of price changes.

### Valuation

Imports are valued at cif, that is, the value of goods at the frontier of the exporting country plus the cost of insurance and freight to

the registration area. Customs duties and other import charges payable in the registration area are not included in the value of imports.

Exports are valued at fob, that is, the value of goods to the purchaser abroad up to the point where the goods are deposited on board the outgoing vessel, aircraft or vehicle.

### Classification

With effect from 1 January 2003, the trade classification adopted for documenting Singapore's external trade is the Singapore Trade Classification, Customs and Excise Duties, 2003. This incorporates the ASEAN Harmonized Tariff Nomenclature (AHTN) which is based on the 6-digit Harmonized Commodity Description and Coding System Nomenclature (HS), developed by the World Customs Organization (WCO). However, for publication of external trade statistics, the Standard International Trade Classification (Revision 3) is used. Imports are classified by country of origin and exports by country of destination.

### Other References

Detailed monthly trade statistics are available in the "Singapore Trade Statistics, Imports and Exports".



# 13.1

## EXTERNAL TRADE BY TYPE

|                   | 1994    | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
|-------------------|---------|---------|---------|---------|---------|---------|---------|
| At Current Prices |         |         |         |         |         |         |         |
| Total Trade       | 303,723 | 382,431 | 470,001 | 425,718 | 432,213 | 473,907 | 580,370 |
| Exports           | 147,327 | 194,290 | 237,826 | 218,026 | 223,901 | 251,096 | 303,476 |
| Oil               | 14,075  | 15,335  | 23,061  | 22,473  | 23,251  | 28,050  | 37,133  |
| Non-oil           | 133,252 | 178,954 | 214,765 | 195,553 | 200,651 | 223,046 | 266,343 |
| Domestic Exports  | 88,533  | 116,325 | 135,938 | 118,444 | 119,438 | 138,885 | 166,503 |
| Oil               | 13,985  | 15,143  | 22,867  | 21,716  | 20,859  | 25,388  | 33,725  |
| Non-oil           | 74,548  | 101,182 | 113,072 | 96,728  | 98,579  | 113,497 | 132,778 |
| Re-exports        | 58,794  | 77,965  | 101,888 | 99,582  | 104,464 | 112,211 | 136,974 |
| Imports           | 156,396 | 188,142 | 232,175 | 207,692 | 208,312 | 222,811 | 276,894 |
| Oil               | 13,788  | 17,075  | 27,987  | 26,119  | 27,199  | 30,191  | 41,450  |
| Non-oil           | 142,608 | 171,066 | 204,188 | 181,573 | 181,113 | 192,620 | 235,445 |
| At 2000 Prices    |         |         |         |         |         |         |         |
| Total Trade       | 300,038 | 409,990 | 470,001 | 435,911 | 458,864 | 507,677 | 617,610 |
| Exports           | 141,133 | 206,143 | 237,826 | 225,489 | 243,218 | 278,036 | 335,767 |
| Oil               | 24,019  | 24,605  | 23,061  | 24,991  | 25,692  | 26,927  | 29,518  |
| Non-oil           | 117,114 | 181,538 | 214,765 | 200,498 | 217,526 | 251,109 | 306,248 |
| Domestic Exports  | 86,302  | 125,501 | 135,938 | 126,246 | 135,994 | 160,694 | 190,422 |
| Oil               | 23,847  | 24,301  | 22,867  | 24,088  | 23,045  | 24,428  | 26,734  |
| Non-oil           | 62,455  | 101,200 | 113,072 | 102,159 | 112,949 | 136,265 | 163,688 |
| Re-exports        | 54,831  | 80,642  | 101,888 | 99,242  | 107,224 | 117,343 | 145,345 |
| Imports           | 158,906 | 203,847 | 232,175 | 210,423 | 215,647 | 229,640 | 281,843 |
| Oil               | 26,679  | 27,385  | 27,987  | 29,491  | 29,905  | 28,441  | 33,407  |
| Non-oil           | 132,227 | 176,462 | 204,188 | 180,932 | 185,741 | 201,199 | 248,436 |

Source : International Enterprise Singapore

Note : Figures from 1994 are slightly inflated due to improved coverage arising from the implementation of Goods and Services Tax from 1 April 1994.



# 13.2 TOTAL TRADE BY AREA/COUNTRY

| Million Dollars      |         |         |         |         |         |         |         |
|----------------------|---------|---------|---------|---------|---------|---------|---------|
| Area/Country         | 1994    | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
| Total                | 303,723 | 382,431 | 470,001 | 425,718 | 432,213 | 473,907 | 580,370 |
| America              | 56,712  | 76,228  | 84,233  | 75,762  | 72,044  | 75,306  | 84,614  |
| Brazil               | 906     | 877     | 997     | 963     | 1,239   | 967     | 1,634   |
| Canada               | 1,548   | 1,445   | 1,728   | 1,467   | 1,691   | 1,717   | 2,045   |
| United States        | 51,539  | 69,259  | 75,907  | 67,671  | 62,450  | 64,520  | 72,074  |
| Asia                 | 190,038 | 232,557 | 301,702 | 270,800 | 281,216 | 306,473 | 380,826 |
| Bahrain              | 196     | 313     | 366     | 392     | 187     | 162     | 191     |
| Bangladesh           | 708     | 1,189   | 1,505   | 1,637   | 1,464   | 1,367   | 1,474   |
| Brunei Darussalam    | 1,565   | 1,079   | 1,294   | 1,060   | 1,195   | 1,108   | 1,087   |
| Cambodia             | 635     | 780     | 864     | 760     | 780     | 665     | 671     |
| China                | 7,619   | 16,292  | 21,564  | 22,445  | 28,122  | 36,915  | 53,329  |
| Hong Kong SAR        | 18,100  | 20,315  | 24,764  | 24,359  | 25,565  | 30,496  | 35,979  |
| India                | 3,136   | 5,496   | 6,661   | 6,876   | 6,793   | 7,893   | 11,752  |
| Iran                 | 999     | 1,476   | 2,651   | 1,474   | 1,637   | 2,000   | 2,640   |
| Iraq                 | -       | 130     | 768     | 96      | 88      | 32      | 738     |
| Japan                | 44,765  | 45,745  | 57,904  | 45,506  | 42,070  | 43,684  | 51,800  |
| Korea, Republic of   | 9,856   | 13,091  | 16,788  | 15,234  | 17,007  | 19,188  | 24,333  |
| Kuwait               | 1,303   | 1,973   | 2,756   | 2,551   | 3,238   | 3,839   | 5,468   |
| Laos                 | 47      | 71      | 53      | 48      | 48      | 36      | 66      |
| Malaysia             | 54,690  | 61,447  | 82,589  | 73,796  | 76,954  | 77,200  | 88,274  |
| Pakistan             | 574     | 655     | 725     | 742     | 806     | 871     | 1,022   |
| Philippines          | 3,604   | 9,769   | 11,632  | 10,089  | 9,919   | 10,557  | 13,756  |
| Saudi Arabia         | 6,110   | 6,082   | 8,017   | 8,118   | 7,466   | 7,409   | 9,919   |
| Sri Lanka            | 603     | 852     | 890     | 765     | 772     | 936     | 1,126   |
| Taiwan               | 11,958  | 17,018  | 24,492  | 20,050  | 20,617  | 23,275  | 29,902  |
| Thailand             | 15,657  | 17,425  | 20,130  | 18,729  | 19,891  | 20,298  | 24,408  |
| United Arab Emirates | 2,552   | 3,536   | 4,392   | 4,495   | 4,988   | 5,813   | 6,551   |
| Vietnam              | 2,718   | 3,421   | 5,024   | 5,296   | 5,406   | 5,979   | 7,735   |
| Europe               | 46,361  | 60,551  | 67,799  | 63,013  | 62,384  | 72,116  | 89,192  |
| France               | 5,317   | 8,106   | 7,458   | 6,570   | 6,406   | 7,835   | 11,034  |
| Germany              | 10,499  | 11,633  | 14,681  | 14,552  | 14,335  | 16,081  | 20,134  |
| Italy                | 3,259   | 2,761   | 3,717   | 3,111   | 3,032   | 3,495   | 4,352   |
| Netherlands          | 5,569   | 8,191   | 9,346   | 9,273   | 10,016  | 9,941   | 11,968  |
| Sweden               | 1,030   | 1,182   | 1,059   | 1,068   | 1,153   | 1,315   | 1,483   |
| Switzerland          | 2,479   | 3,258   | 4,830   | 4,616   | 4,050   | 4,333   | 4,890   |
| United Kingdom       | 8,311   | 11,870  | 10,849  | 9,475   | 8,844   | 12,398  | 15,954  |
| Oceania              | 7,480   | 9,815   | 11,966  | 12,462  | 12,608  | 15,386  | 19,882  |
| Australia            | 5,883   | 7,837   | 9,500   | 9,964   | 9,892   | 11,953  | 15,052  |
| New Zealand          | 773     | 1,006   | 970     | 1,045   | 1,092   | 1,381   | 2,053   |
| Africa               | 3,132   | 3,281   | 4,301   | 3,681   | 3,962   | 4,626   | 5,857   |

Source : International Enterprise Singapore



# 13.3 IMPORTS BY AREA/COUNTRY

| Million Dollar       |         |         |         |         |         |         |         |
|----------------------|---------|---------|---------|---------|---------|---------|---------|
| Area/Country         | 1994    | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
| Total                | 156,396 | 188,142 | 232,175 | 207,692 | 208,312 | 222,811 | 276,894 |
| America              | 25,923  | 34,797  | 37,492  | 36,866  | 32,669  | 34,257  | 38,802  |
| Brazil               | 538     | 428     | 442     | 495     | 744     | 559     | 1,015   |
| Canada               | 634     | 698     | 826     | 748     | 1,029   | 963     | 1,100   |
| United States        | 23,902  | 32,044  | 34,718  | 34,137  | 29,515  | 31,060  | 34,574  |
| Asia                 | 103,135 | 120,522 | 155,969 | 134,188 | 138,931 | 147,829 | 188,282 |
| Bahrain              | 149     | 273     | 320     | 354     | 133     | 107     | 126     |
| Bangladesh           | 50      | 100     | 150     | 121     | 120     | 179     | 222     |
| Brunei Darussalam    | 319     | 261     | 456     | 325     | 381     | 304     | 262     |
| Cambodia             | 49      | 198     | 129     | 98      | 150     | 130     | 82      |
| China                | 4,412   | 9,649   | 12,279  | 12,900  | 15,853  | 19,276  | 27,357  |
| Hong Kong SAR        | 5,286   | 5,400   | 6,059   | 4,986   | 5,073   | 5,380   | 6,172   |
| India                | 1,208   | 1,252   | 1,857   | 2,003   | 2,075   | 2,510   | 4,701   |
| Iran                 | 901     | 1,232   | 2,279   | 1,022   | 1,066   | 1,313   | 1,738   |
| Iraq                 | -       | 129     | 754     | 92      | 87      | 30      | 737     |
| Japan                | 34,422  | 31,325  | 39,955  | 28,794  | 26,080  | 26,808  | 32,267  |
| Korea, Republic of   | 5,986   | 7,063   | 8,309   | 6,843   | 7,691   | 8,637   | 11,851  |
| Kuwait               | 1,171   | 1,861   | 2,614   | 2,432   | 3,118   | 3,683   | 5,338   |
| Laos                 | 4       | 14      | 2       | 1       | 1       | -       | 1       |
| Malaysia             | 25,600  | 29,283  | 39,399  | 35,975  | 37,951  | 37,528  | 42,202  |
| Pakistan             | 103     | 99      | 77      | 88      | 102     | 77      | 81      |
| Philippines          | 1,193   | 4,974   | 5,794   | 4,573   | 4,481   | 4,921   | 7,138   |
| Saudi Arabia         | 5,607   | 5,536   | 7,478   | 7,558   | 6,829   | 6,823   | 9,373   |
| Sri Lanka            | 87      | 65      | 96      | 58      | 89      | 91      | 124     |
| Taiwan               | 6,018   | 7,540   | 10,296  | 8,831   | 9,530   | 11,263  | 15,827  |
| Thailand             | 7,471   | 8,889   | 10,009  | 9,243   | 9,677   | 9,587   | 11,330  |
| United Arab Emirates | 1,335   | 2,063   | 2,596   | 2,440   | 2,816   | 3,286   | 3,340   |
| Vietnam              | 688     | 888     | 1,413   | 1,526   | 1,677   | 1,785   | 2,369   |
| Europe               | 23,623  | 28,965  | 33,003  | 30,698  | 31,068  | 34,947  | 43,360  |
| France               | 3,318   | 4,397   | 3,774   | 3,719   | 3,792   | 4,327   | 7,027   |
| Germany              | 5,270   | 6,111   | 7,304   | 6,861   | 7,078   | 8,456   | 9,598   |
| Italy                | 2,209   | 2,026   | 2,869   | 2,350   | 2,321   | 2,776   | 3,530   |
| Netherlands          | 1,638   | 1,654   | 2,294   | 2,047   | 2,325   | 1,898   | 2,777   |
| Sweden               | 790     | 1,032   | 897     | 926     | 951     | 1,178   | 1,321   |
| Switzerland          | 1,694   | 2,893   | 3,928   | 3,502   | 3,322   | 3,508   | 3,906   |
| United Kingdom       | 4,326   | 4,623   | 4,722   | 4,373   | 4,212   | 4,429   | 5,307   |
| Oceania              | 2,744   | 2,910   | 4,478   | 4,774   | 4,335   | 4,401   | 4,479   |
| Australia            | 2,393   | 2,464   | 3,965   | 4,306   | 3,863   | 3,805   | 3,884   |
| New Zealand          | 292     | 307     | 332     | 323     | 349     | 383     | 454     |
| Africa               | 971     | 948     | 1,232   | 1,166   | 1,309   | 1,377   | 1,971   |

Source : International Enterprise Singapore



# 13.4 EXPORTS BY AREA/COUNTRY

| Area/Country         | Million Dollars |         |         |         |         |         |         |
|----------------------|-----------------|---------|---------|---------|---------|---------|---------|
|                      | 1994            | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
| Total                | 147,327         | 194,290 | 237,826 | 218,026 | 223,901 | 251,096 | 303,476 |
| America              | 30,789          | 41,431  | 46,741  | 38,896  | 39,375  | 41,049  | 45,812  |
| Brazil               | 368             | 450     | 555     | 468     | 495     | 408     | 619     |
| Canada               | 915             | 747     | 902     | 719     | 661     | 754     | 944     |
| United States        | 27,637          | 37,215  | 41,189  | 33,534  | 32,935  | 33,460  | 37,501  |
| Asia                 | 86,903          | 112,035 | 145,733 | 136,612 | 142,285 | 158,644 | 192,544 |
| Bahrain              | 47              | 39      | 45      | 37      | 54      | 55      | 65      |
| Bangladesh           | 658             | 1,089   | 1,355   | 1,516   | 1,343   | 1,189   | 1,252   |
| Brunei Darussalam    | 1,246           | 818     | 838     | 735     | 814     | 805     | 826     |
| Cambodia             | 585             | 582     | 735     | 663     | 630     | 536     | 589     |
| China                | 3,207           | 6,643   | 9,285   | 9,545   | 12,268  | 17,638  | 25,972  |
| Hong Kong SAR        | 12,814          | 14,915  | 18,705  | 19,374  | 20,492  | 25,116  | 29,807  |
| India                | 1,928           | 4,243   | 4,804   | 4,873   | 4,718   | 5,383   | 7,051   |
| Iran                 | 98              | 243     | 372     | 451     | 571     | 687     | 902     |
| Iraq                 | -               | 1       | 14      | 3       | 1       | 2       | 1       |
| Japan                | 10,343          | 14,421  | 17,949  | 16,712  | 15,990  | 16,875  | 19,533  |
| Korea, Republic of   | 3,871           | 6,027   | 8,479   | 8,392   | 9,317   | 10,550  | 12,482  |
| Kuwait               | 132             | 112     | 142     | 119     | 120     | 156     | 129     |
| Laos                 | 42              | 57      | 52      | 47      | 47      | 35      | 65      |
| Malaysia             | 29,089          | 32,164  | 43,190  | 37,821  | 39,003  | 39,672  | 46,073  |
| Pakistan             | 471             | 556     | 648     | 653     | 704     | 794     | 941     |
| Philippines          | 2,411           | 4,795   | 5,838   | 5,516   | 5,438   | 5,636   | 6,618   |
| Saudi Arabia         | 503             | 547     | 539     | 560     | 637     | 586     | 545     |
| Sri Lanka            | 516             | 788     | 795     | 706     | 683     | 845     | 1,001   |
| Taiwan               | 5,940           | 9,477   | 14,195  | 11,219  | 11,087  | 12,012  | 14,075  |
| Thailand             | 8,186           | 8,536   | 10,122  | 9,487   | 10,214  | 10,711  | 13,078  |
| United Arab Emirates | 1,217           | 1,473   | 1,796   | 2,055   | 2,172   | 2,528   | 3,211   |
| Vietnam              | 2,030           | 2,532   | 3,611   | 3,769   | 3,729   | 4,194   | 5,367   |
| Europe               | 22,738          | 31,586  | 34,796  | 32,315  | 31,316  | 37,169  | 45,832  |
| France               | 1,999           | 3,709   | 3,684   | 2,851   | 2,614   | 3,508   | 4,007   |
| Germany              | 5,230           | 5,522   | 7,377   | 7,691   | 7,257   | 7,625   | 10,536  |
| Italy                | 1,050           | 734     | 848     | 761     | 711     | 720     | 822     |
| Netherlands          | 3,931           | 6,536   | 7,052   | 7,226   | 7,691   | 8,043   | 9,191   |
| Sweden               | 240             | 151     | 162     | 143     | 202     | 137     | 159     |
| Switzerland          | 785             | 365     | 903     | 1,115   | 728     | 825     | 984     |
| United Kingdom       | 3,985           | 7,247   | 6,127   | 5,103   | 4,632   | 7,970   | 10,647  |
| Oceania              | 4,736           | 6,905   | 7,488   | 7,688   | 8,273   | 10,985  | 15,403  |
| Australia            | 3,490           | 5,373   | 5,535   | 5,659   | 6,029   | 8,148   | 11,168  |
| New Zealand          | 481             | 699     | 638     | 722     | 743     | 998     | 1,599   |
| Africa               | 2,161           | 2,333   | 3,069   | 2,515   | 2,653   | 3,249   | 3,886   |

Source : International Enterprise Singapore



# 13.5 DOMESTIC EXPORTS BY AREA/COUNTRY

| Million Dollars      |        |         |         |         |         |         |         |
|----------------------|--------|---------|---------|---------|---------|---------|---------|
| Area/Country         | 1994   | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
| Total                | 88,533 | 116,325 | 135,938 | 118,444 | 119,438 | 138,885 | 166,503 |
| America              | 23,757 | 31,518  | 33,185  | 26,014  | 26,942  | 28,083  | 29,964  |
| Brazil               | 219    | 221     | 314     | 276     | 277     | 219     | 415     |
| Canada               | 626    | 466     | 560     | 455     | 398     | 485     | 510     |
| United States        | 21,728 | 28,574  | 29,039  | 22,031  | 21,731  | 21,493  | 22,953  |
| Asia                 | 45,408 | 57,028  | 73,525  | 66,482  | 67,312  | 77,799  | 93,848  |
| Bahrain              | 18     | 20      | 20      | 19      | 32      | 34      | 43      |
| Bangladesh           | 410    | 605     | 757     | 924     | 703     | 622     | 598     |
| Brunei Darussalam    | 323    | 252     | 265     | 244     | 268     | 258     | 245     |
| Cambodia             | 128    | 328     | 465     | 385     | 288     | 291     | 312     |
| China                | 2,089  | 3,908   | 5,278   | 5,288   | 7,097   | 10,016  | 14,191  |
| Hong Kong SAR        | 7,845  | 8,836   | 10,501  | 10,346  | 10,550  | 13,728  | 16,050  |
| India                | 865    | 1,970   | 2,097   | 1,994   | 1,925   | 2,493   | 3,253   |
| Iran                 | 35     | 143     | 299     | 291     | 313     | 268     | 372     |
| Iraq                 | -      | 1       | 12      | 2       | -       | -       | 1       |
| Japan                | 6,959  | 8,989   | 11,544  | 10,504  | 9,695   | 10,869  | 12,154  |
| Korea, Republic of   | 2,010  | 2,934   | 4,279   | 3,977   | 3,812   | 4,339   | 4,912   |
| Kuwait               | 63     | 65      | 99      | 67      | 70      | 76      | 78      |
| Laos                 | 8      | 23      | 22      | 18      | 3       | 1       | 1       |
| Malaysia             | 13,429 | 14,031  | 18,291  | 15,323  | 14,953  | 14,919  | 17,497  |
| Pakistan             | 156    | 239     | 287     | 303     | 324     | 340     | 423     |
| Philippines          | 1,280  | 2,220   | 2,704   | 2,760   | 2,648   | 3,131   | 3,810   |
| Saudi Arabia         | 188    | 243     | 235     | 244     | 312     | 311     | 264     |
| Sri Lanka            | 192    | 352     | 333     | 322     | 287     | 370     | 455     |
| Taiwan               | 3,285  | 4,956   | 7,716   | 5,586   | 5,658   | 6,153   | 6,969   |
| Thailand             | 4,115  | 4,294   | 4,648   | 4,087   | 4,635   | 4,757   | 6,189   |
| United Arab Emirates | 353    | 452     | 541     | 680     | 785     | 994     | 1,116   |
| Vietnam              | 1,035  | 1,341   | 2,077   | 1,918   | 1,762   | 2,236   | 3,152   |
| Europe               | 15,495 | 22,706  | 22,458  | 19,820  | 18,415  | 24,214  | 30,171  |
| France               | 1,536  | 2,287   | 2,272   | 1,802   | 1,605   | 2,586   | 3,124   |
| Germany              | 3,388  | 3,853   | 4,763   | 4,942   | 3,333   | 3,355   | 5,700   |
| Italy                | 735    | 510     | 523     | 455     | 414     | 452     | 443     |
| Netherlands          | 2,946  | 4,825   | 4,777   | 4,016   | 4,873   | 5,695   | 5,756   |
| Sweden               | 174    | 80      | 92      | 59      | 131     | 75      | 90      |
| Switzerland          | 436    | 166     | 333     | 392     | 207     | 281     | 471     |
| United Kingdom       | 2,901  | 5,935   | 4,200   | 3,454   | 3,204   | 6,388   | 8,732   |
| Oceania              | 2,856  | 3,985   | 5,008   | 4,875   | 5,364   | 7,070   | 10,206  |
| Australia            | 2,088  | 3,076   | 3,570   | 3,362   | 3,736   | 4,944   | 6,953   |
| New Zealand          | 256    | 313     | 352     | 437     | 392     | 591     | 1,020   |
| Africa               | 1,018  | 1,088   | 1,763   | 1,253   | 1,405   | 1,720   | 2,313   |

Source : International Enterprise Singapore



## 13.6

## IMPORTS BY COMMODITY SECTION

Million Dollars

| Commodity Section                                                     | 1994    | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
|-----------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|
| Total                                                                 | 156,396 | 188,142 | 232,175 | 207,692 | 208,312 | 222,811 | 276,894 |
| Food                                                                  | 5,218   | 4,984   | 5,122   | 5,245   | 5,306   | 5,362   | 5,707   |
| Fruits, nuts & vegetables                                             | 1,224   | 1,079   | 1,049   | 1,058   | 1,089   | 1,043   | 1,025   |
| Fish & crustaceans                                                    | 934     | 802     | 953     | 847     | 888     | 915     | 1,051   |
| Spices, chocolate & coffee                                            | 704     | 625     | 608     | 652     | 597     | 584     | 612     |
| Meat & meat preparations                                              | 404     | 530     | 586     | 595     | 621     | 671     | 706     |
| Beverages & Tobacco                                                   | 2,141   | 1,964   | 1,951   | 1,955   | 1,735   | 1,613   | 1,849   |
| Tobacco & tobacco manufactures                                        | 1,367   | 1,181   | 1,087   | 1,119   | 871     | 651     | 607     |
| Beverages                                                             | 774     | 783     | 864     | 836     | 864     | 962     | 1,241   |
| Crude Materials                                                       | 1,938   | 1,470   | 1,774   | 1,319   | 1,329   | 1,286   | 1,500   |
| Crude minerals (excl coal, petroleum & precious stones) & fertilizers | 275     | 306     | 560     | 268     | 217     | 194     | 252     |
| Crude rubber (incl synthetic & reclaimed)                             | 533     | 333     | 333     | 235     | 302     | 317     | 382     |
| Metalliferous ores & metal scrap                                      | 163     | 173     | 233     | 215     | 213     | 207     | 322     |
| Mineral Fuels                                                         | 13,788  | 17,075  | 27,987  | 26,119  | 27,199  | 30,191  | 41,450  |
| Petroleum (includes crude & refined products)                         | 13,778  | 17,070  | 27,985  | 26,115  | 27,179  | 30,166  | 41,434  |
| Animal & Vegetable Oils                                               | 641     | 504     | 383     | 334     | 419     | 465     | 529     |
| Fixed vegetables fats & oils (e.g. refined palm oil)                  | 322     | 441     | 325     | 279     | 355     | 402     | 438     |
| Chemicals & Chemical Products                                         | 10,114  | 11,212  | 13,282  | 12,181  | 12,990  | 14,866  | 17,873  |
| Organic chemicals                                                     | 1,837   | 2,283   | 2,610   | 2,820   | 2,826   | 3,754   | 5,311   |
| Plastics in primary forms                                             | 1,755   | 2,000   | 2,512   | 1,916   | 2,002   | 2,114   | 2,568   |
| Perfume, cosmetics & cleansing preparations                           | 982     | 1,248   | 1,376   | 1,438   | 1,484   | 1,657   | 1,982   |
| Manufactured Goods                                                    | 16,523  | 14,973  | 16,359  | 15,249  | 15,351  | 15,082  | 18,649  |
| Metal manufactures (incl hand tools & structural parts)               | 2,697   | 3,303   | 3,289   | 3,149   | 3,271   | 3,443   | 3,973   |
| Iron & steel                                                          | 3,222   | 2,744   | 2,962   | 2,738   | 2,851   | 3,168   | 4,648   |
| Non-ferrous metals                                                    | 2,552   | 2,409   | 2,855   | 3,023   | 2,816   | 2,064   | 3,019   |
| Non-metallic mineral manufactures                                     | 2,268   | 2,116   | 2,304   | 2,068   | 2,100   | 2,099   | 2,549   |
| Textile manufactures                                                  | 3,072   | 1,894   | 2,200   | 1,823   | 1,835   | 1,760   | 1,731   |

(continued on next page)

Source : International Enterprise Singapore



# 13.6 IMPORTS BY COMMODITY SECTION (continued)

| Commodity Section                              | Million Dollar |         |         |         |         |         |         |
|------------------------------------------------|----------------|---------|---------|---------|---------|---------|---------|
|                                                | 1994           | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
| Machinery & Transport Equipment                | 88,306         | 113,365 | 141,068 | 123,933 | 122,632 | 131,707 | 162,437 |
| Electronic valves <sup>1</sup>                 | 22,315         | 37,461  | 52,729  | 41,523  | 43,146  | 48,419  | 61,704  |
| Parts for office & DP machines <sup>2</sup>    | 6,681          | 14,857  | 17,030  | 15,668  | 16,263  | 16,079  | 17,774  |
| Data processing machines <sup>3</sup>          | 7,749          | 8,916   | 11,000  | 9,722   | 7,908   | 7,517   | 8,352   |
| Communication equipment <sup>4</sup>           | 7,582          | 7,298   | 8,814   | 8,905   | 8,931   | 10,879  | 15,987  |
| Electrical machinery <sup>5</sup>              | 3,830          | 4,782   | 6,468   | 4,606   | 4,284   | 4,824   | 5,619   |
| Electrical circuit apparatus <sup>6</sup>      | 4,439          | 5,608   | 6,343   | 5,017   | 4,968   | 5,120   | 6,171   |
| Miscellaneous Manufactured Articles            | 15,428         | 19,575  | 21,694  | 18,521  | 18,371  | 19,339  | 23,782  |
| Disc media products & plastic articles         | 5,080          | 6,616   | 6,543   | 5,664   | 5,615   | 6,088   | 6,971   |
| Scientific instruments & apparatus             | 3,092          | 4,852   | 5,862   | 4,224   | 4,102   | 4,857   | 7,275   |
| Photographic supplies, watches & optical goods | 3,163          | 3,546   | 4,110   | 3,887   | 3,788   | 3,348   | 4,175   |
| Miscellaneous Transactions nec                 | 2,298          | 3,019   | 2,554   | 2,836   | 2,979   | 2,899   | 3,119   |

Source : International Enterprise Singapore

- 1 Includes integrated circuits (ICs), semiconductors, CTV picture tubes, CR tubes for computer monitor, TV camera tubes, microwave tubes and parts for these products.
- 2 Includes ink cartridges, PCBAs (e.g. motherboards, sound cards, interface cards) and plastic casings and other parts and accessories for computers.
- 3 Includes computers, disk drives, tape drives, printers, computer monitors, computer keyboards and peripheral units and accessories.
- 4 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.
- 5 Includes signal generators, ion particle accelerator for semiconductor industry, electroplating or electrolysis machines, batteries, capacitors, spark plugs, light bulbs & tubes and parts for these products.
- 6 Includes blank printed circuit boards, circuit breakers, fuses, switches, connectors, switchboards and control panels and parts for these products.



# 13.7 EXPORTS BY COMMODITY SECTION

| Commodity Section                                        | Million Dollars |         |         |         |         |         |         |
|----------------------------------------------------------|-----------------|---------|---------|---------|---------|---------|---------|
|                                                          | 1994            | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
| Total                                                    | 147,327         | 194,290 | 237,826 | 218,026 | 223,901 | 251,096 | 303,476 |
| Food                                                     | 3,542           | 2,985   | 3,029   | 2,774   | 2,905   | 2,860   | 3,256   |
| Spices, chocolate & coffee                               | 1,082           | 1,039   | 1,019   | 810     | 869     | 887     | 904     |
| Fish & crustaceans                                       | 855             | 659     | 777     | 669     | 553     | 545     | 658     |
| Fruits, nuts & vegetables                                | 543             | 403     | 324     | 283     | 310     | 257     | 264     |
| Beverages & Tobacco                                      | 2,447           | 1,949   | 1,904   | 1,835   | 1,783   | 1,483   | 1,776   |
| Tobacco & tobacco manufactures                           | 1,585           | 1,287   | 1,221   | 1,190   | 1,086   | 742     | 750     |
| Beverages                                                | 862             | 662     | 683     | 645     | 696     | 742     | 1,026   |
| Crude Materials                                          | 2,193           | 1,562   | 1,676   | 1,574   | 1,492   | 1,499   | 1,904   |
| Metalliferous ores & metal scrap                         | 308             | 375     | 502     | 541     | 487     | 507     | 690     |
| Crude rubber (incl synthetic & reclaimed)                | 819             | 408     | 397     | 301     | 328     | 370     | 512     |
| Crude vegetable & animal materials (incl seeds & orchid) | 291             | 211     | 217     | 216     | 211     | 178     | 219     |
| Mineral Fuels                                            | 14,075          | 15,335  | 23,061  | 22,473  | 23,251  | 28,050  | 37,133  |
| Petroleum (includes crude & refined products)            | 13,858          | 15,032  | 22,613  | 22,002  | 22,815  | 27,442  | 36,464  |
| Animal & Vegetable Oils                                  | 574             | 483     | 377     | 341     | 400     | 449     | 452     |
| Fixed vegetables fats & oils (e.g. refined palm oil)     | 247             | 336     | 244     | 214     | 265     | 313     | 324     |
| Chemicals & Chemical Products                            | 8,418           | 15,326  | 16,488  | 17,632  | 20,817  | 29,571  | 35,442  |
| Organic chemicals                                        | 2,611           | 5,681   | 5,258   | 6,581   | 8,691   | 15,990  | 19,006  |
| Plastics in primary forms                                | 1,751           | 2,904   | 3,821   | 3,646   | 4,546   | 5,290   | 6,769   |
| Medical & pharmaceutical products                        | 753             | 1,995   | 1,745   | 2,015   | 1,654   | 1,593   | 1,904   |
| Manufactured Goods                                       | 8,856           | 8,445   | 9,017   | 8,430   | 8,776   | 9,352   | 11,329  |
| Non-ferrous metals                                       | 1,576           | 2,000   | 2,097   | 1,895   | 1,851   | 2,084   | 2,733   |
| Metal manufactures (incl hand tools & structural parts)  | 1,614           | 1,699   | 1,780   | 1,757   | 1,967   | 2,150   | 2,534   |
| Textile manufactures                                     | 2,154           | 1,445   | 1,565   | 1,308   | 1,319   | 1,232   | 1,190   |
| Iron & steel                                             | 1,083           | 848     | 953     | 967     | 1,016   | 1,116   | 1,694   |
| Non-metallic mineral manufactures                        | 774             | 709     | 858     | 828     | 926     | 961     | 1,282   |

(continued on next page)

Source : International Enterprise Singapore



# 13.7 EXPORTS BY COMMODITY SECTION (continued)

| Million Dollars                                |        |         |         |         |         |         |         |
|------------------------------------------------|--------|---------|---------|---------|---------|---------|---------|
| Commodity Section                              | 1994   | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
| Machinery & Transport Equipment                | 94,199 | 128,807 | 160,402 | 140,620 | 142,318 | 153,596 | 185,312 |
| Electronic valves <sup>1</sup>                 | 18,341 | 39,029  | 59,430  | 48,842  | 52,595  | 61,688  | 79,935  |
| Data processing machines <sup>2</sup>          | 22,319 | 33,531  | 33,527  | 29,611  | 27,860  | 27,242  | 26,936  |
| Parts for office & DP machines <sup>3</sup>    | 11,224 | 17,165  | 19,430  | 18,476  | 17,633  | 16,921  | 19,904  |
| Communication equipment <sup>4</sup>           | 9,261  | 8,742   | 10,404  | 9,305   | 10,629  | 11,649  | 16,474  |
| Electrical circuit apparatus <sup>5</sup>      | 3,167  | 4,823   | 5,629   | 4,969   | 5,153   | 5,434   | 6,381   |
| Electrical machinery <sup>6</sup>              | 2,936  | 4,141   | 5,846   | 5,127   | 4,324   | 4,797   | 5,231   |
| Miscellaneous Manufactured Articles            | 11,185 | 16,414  | 19,382  | 19,040  | 19,066  | 21,363  | 23,985  |
| Disc media products & plastic articles         | 4,001  | 6,847   | 8,338   | 8,073   | 7,250   | 8,948   | 9,970   |
| Photographic supplies, watches & optical goods | 2,150  | 3,136   | 3,682   | 3,561   | 3,647   | 3,530   | 3,824   |
| Scientific instruments & apparatus             | 1,999  | 3,147   | 3,567   | 3,915   | 4,690   | 5,192   | 6,367   |
| Miscellaneous Transactions nec                 | 1,838  | 2,984   | 2,491   | 3,308   | 3,094   | 2,871   | 2,885   |

Source : International Enterprise Singapore

- 1 Includes integrated circuits (ICs), semiconductors, CTV picture tubes, CR tubes for computer monitor, TV camera tubes, microwave tubes, and parts for these products.
- 2 Includes computers, disk drives, tape drives, printers, computer monitors, computer keyboards and peripheral units and accessories.
- 3 Includes ink cartridges, PCBA's (e.g. motherboards, sound cards, interface cards) and plastic casings and other parts and accessories for computers.
- 4 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.
- 5 Includes blank printed circuit boards, circuit breakers, fuses, switches, connectors, switchboards and control panels and parts for these products.
- 6 Includes signal generators, ion particle accelerator for semiconductor industry, electroplating or electrolysis machines, batteries, capacitors, spark plugs, light bulbs & tubes and parts for these products.



## 13.8

## DOMESTIC EXPORTS BY COMMODITY SECTION

| Commodity Section                                           | Million Dollars |         |         |         |         |         |         |
|-------------------------------------------------------------|-----------------|---------|---------|---------|---------|---------|---------|
|                                                             | 1994            | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
| Total                                                       | 88,533          | 116,325 | 135,938 | 118,444 | 119,438 | 138,885 | 166,503 |
| Food                                                        | 1,169           | 1,237   | 1,345   | 1,387   | 1,550   | 1,616   | 1,822   |
| Spices, chocolate & coffee                                  | 271             | 382     | 412     | 407     | 466     | 523     | 548     |
| Fish & crustaceans                                          | 306             | 253     | 304     | 274     | 261     | 262     | 247     |
| Cereals & cereal preparations                               | 167             | 150     | 148     | 162     | 175     | 187     | 300     |
| Beverages & Tobacco                                         | 529             | 263     | 260     | 262     | 233     | 265     | 316     |
| Tobacco & tobacco manufactures                              | 324             | 182     | 171     | 167     | 136     | 160     | 193     |
| Beverages                                                   | 205             | 81      | 89      | 95      | 97      | 105     | 124     |
| Crude Materials                                             | 448             | 498     | 650     | 580     | 572     | 606     | 804     |
| Metalliferous ores & metal scrap                            | 251             | 319     | 439     | 414     | 433     | 443     | 625     |
| Crude vegetable & animal materials<br>(incl seeds & orchid) | 87              | 84      | 85      | 70      | 58      | 60      | 74      |
| Pulp & waste paper                                          | 32              | 48      | 72      | 55      | 46      | 54      | 66      |
| Mineral Fuels                                               | 13,985          | 15,143  | 22,867  | 21,716  | 20,859  | 25,388  | 33,725  |
| Petroleum (includes crude & refined<br>products)            | 13,778          | 14,840  | 22,419  | 21,247  | 20,423  | 24,780  | 33,056  |
| Animal & Vegetable Oils                                     | 335             | 346     | 282     | 267     | 325     | 377     | 391     |
| Fixed vegetables fats & oils<br>(e.g. refined palm oil)     | 125             | 237     | 180     | 176     | 223     | 269     | 285     |
| Chemicals & Chemical Products                               | 4,696           | 10,393  | 10,718  | 12,059  | 15,283  | 23,673  | 28,685  |
| Organic chemicals                                           | 1,636           | 4,621   | 3,948   | 5,175   | 7,427   | 14,557  | 17,290  |
| Plastics in primary forms                                   | 1,087           | 2,207   | 2,939   | 2,898   | 3,829   | 4,533   | 5,894   |
| Medical & pharmaceutical products                           | 269             | 1,291   | 971     | 1,214   | 866     | 874     | 1,165   |
| Manufactured Goods                                          | 2,731           | 2,696   | 3,077   | 2,867   | 3,427   | 3,750   | 4,104   |
| Metal manufactures (incl hand tools<br>& structural parts)  | 912             | 878     | 988     | 882     | 1,065   | 1,222   | 1,304   |
| Textile manufactures                                        | 369             | 421     | 506     | 448     | 558     | 509     | 488     |
| Paper & paperboard                                          | 426             | 412     | 414     | 415     | 491     | 547     | 561     |
| Non-ferrous metals                                          | 290             | 251     | 302     | 256     | 274     | 322     | 401     |
| Non-metallic mineral manufactures                           | 232             | 279     | 291     | 264     | 381     | 471     | 475     |

(continued on next page)

Source : International Enterprise Singapore



# 13.8 DOMESTIC EXPORTS BY COMMODITY SECTION (continued)

| Commodity Section                           | Million Dollar |        |        |        |        |        |        |
|---------------------------------------------|----------------|--------|--------|--------|--------|--------|--------|
|                                             | 1994           | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
| Machinery & Transport Equipment             | 59,071         | 76,363 | 85,851 | 68,674 | 66,548 | 70,733 | 82,269 |
| Electronic valves <sup>1</sup>              | 10,797         | 19,059 | 26,533 | 17,923 | 16,064 | 20,258 | 26,698 |
| Data processing machines <sup>2</sup>       | 18,140         | 27,414 | 24,867 | 21,573 | 21,920 | 21,770 | 19,378 |
| Parts for office & DP machines <sup>3</sup> | 9,541          | 13,085 | 13,417 | 12,041 | 12,074 | 11,303 | 13,024 |
| Communication equipment <sup>4</sup>        | 5,857          | 4,395  | 5,343  | 3,933  | 4,012  | 4,008  | 6,739  |
| Electrical circuit apparatus <sup>5</sup>   | 2,022          | 2,783  | 2,974  | 2,452  | 2,506  | 2,473  | 3,086  |
| Electrical machinery <sup>6</sup>           | 1,698          | 1,738  | 2,432  | 2,103  | 1,822  | 1,958  | 2,154  |
| Miscellaneous Manufactured Articles         | 5,208          | 8,522  | 10,068 | 9,840  | 9,743  | 11,415 | 13,197 |
| Disc media products & plastic articles      | 2,338          | 5,002  | 6,074  | 5,734  | 5,242  | 6,401  | 7,175  |
| Scientific instruments & apparatus          | 1,058          | 1,877  | 2,185  | 2,421  | 2,886  | 2,955  | 3,889  |
| Miscellaneous Transactions nec              | 361            | 865    | 819    | 792    | 899    | 1,062  | 1,189  |

Source : International Enterprise Singapore

1 Includes integrated circuits (ICs), semiconductors, CTV picture tubes, CR tubes for computer monitor, TV camera tubes, microwave tubes, and parts for these products.

2 Includes computers, disk drives, tape drives, printers, computer monitors, computer keyboards and peripheral units and accessories.

3 Includes ink cartridges, PCBAs (e.g. motherboards, sound cards, interface cards) and plastic casings and other parts and accessories for computers.

4 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.

5 Includes blank printed circuit boards, circuit breakers, fuses, switches, connectors, switchboards and control panels and parts for these products.

6 Includes signal generators, ion particle accelerator for semiconductor industry, electroplating or electrolysis machines, batteries, capacitors, spark plugs, light bulbs & tubes and parts for these products.



## 13.9

## IMPORTS OF SPECIFIC COMMODITIES

Million Dollars

| Commodity                         | 1994   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Meat                              | 404    | 530    | 586    | 595    | 621    | 671    | 706    |
| Rice                              | 166    | 250    | 227    | 212    | 213    | 193    | 228    |
| Unmilled Cereals                  | 71     | 46     | 45     | 54     | 51     | 62     | 59     |
| Fruits & Nuts                     | 546    | 504    | 494    | 467    | 468    | 460    | 446    |
| Spices                            | 158    | 341    | 320    | 348    | 231    | 179    | 216    |
| Animal Feed                       | 70     | 57     | 57     | 66     | 94     | 77     | 66     |
| Crude Rubber                      | 463    | 260    | 247    | 159    | 210    | 241    | 303    |
| Sawn Timber                       | 291    | 172    | 164    | 137    | 123    | 123    | 122    |
| Crude Petroleum                   | 8,929  | 9,029  | 15,078 | 13,589 | 13,204 | 13,952 | 20,649 |
| Petroleum Products                | 4,849  | 8,041  | 12,907 | 12,526 | 13,975 | 16,214 | 20,785 |
| Fixed Vegetables Oils             | 322    | 441    | 325    | 279    | 355    | 402    | 438    |
| Medicinal Products                | 799    | 1,256  | 1,238  | 1,374  | 1,451  | 1,435  | 1,552  |
| Paper & Paperboard                | 909    | 784    | 933    | 782    | 800    | 803    | 870    |
| Textile Yarn & Thread             | 351    | 197    | 236    | 165    | 165    | 166    | 179    |
| Woven Textile Fabrics             | 2,019  | 1,099  | 1,284  | 1,053  | 1,066  | 922    | 855    |
| Iron & Steel Plates, Sheets, Bars |        |        |        |        |        |        |        |
| Shapes, etc                       | 1,980  | 1,608  | 1,676  | 1,460  | 1,649  | 1,944  | 2,851  |
| Iron & Steel Pipes & Fittings     | 801    | 736    | 763    | 914    | 874    | 837    | 1,214  |
| Generators                        | 8,671  | 9,455  | 10,915 | 9,255  | 9,108  | 9,906  | 12,344 |
| Industrial Machinery              | 3,114  | 4,370  | 4,982  | 4,666  | 5,202  | 5,159  | 6,539  |
| Telecommunications Apparatus      | 11,315 | 8,906  | 10,908 | 10,704 | 10,993 | 12,638 | 17,832 |
| Office Machines                   | 15,132 | 24,382 | 28,805 | 26,083 | 24,629 | 23,867 | 26,451 |
| Motor Vehicles                    | 3,171  | 2,840  | 4,424  | 4,017  | 3,794  | 4,758  | 5,853  |
| Ships, Boats & Oil Rigs           | 1,872  | 2,512  | 1,198  | 358    | 458    | 765    | 456    |
| Clothing                          | 2,399  | 2,797  | 3,249  | 3,039  | 3,236  | 3,386  | 3,511  |
| Scientific & Optical Instruments  | 4,843  | 7,082  | 8,633  | 6,912  | 6,611  | 7,033  | 10,068 |
| Watches & Clocks                  | 1,412  | 1,316  | 1,340  | 1,199  | 1,279  | 1,173  | 1,382  |
| Toys & Games                      | 637    | 624    | 773    | 628    | 656    | 684    | 701    |

Source : International Enterprise Singapore



# 13.10 EXPORTS OF SPECIFIC COMMODITIES

Million Dollar

| Commodity                                        | 1994   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
|--------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Spices                                           | 218    | 537    | 501    | 314    | 287    | 235    | 211    |
| Coffee                                           | 484    | 151    | 168    | 177    | 198    | 215    | 261    |
| Animal Feed                                      | 107    | 79     | 84     | 82     | 112    | 101    | 9      |
| Crude Rubber                                     | 785    | 371    | 360    | 263    | 285    | 339    | 487    |
| Sawn Timber                                      | 285    | 166    | 167    | 148    | 160    | 136    | 126    |
| Petroleum Products                               | 11,404 | 11,643 | 17,054 | 16,044 | 16,994 | 20,711 | 28,700 |
| Fixed Vegetable Oils                             | 247    | 337    | 244    | 215    | 265    | 313    | 324    |
| Medicinal Products                               | 753    | 1,995  | 1,745  | 2,015  | 1,654  | 1,593  | 1,904  |
| Manufactured Fertilizers                         | 31     | 25     | 10     | 10     | 13     | 14     | 9      |
| Crude Vegetable Materials                        | 275    | 203    | 204    | 190    | 183    | 148    | 179    |
| Wood Products excluding Furniture                | 432    | 206    | 204    | 159    | 165    | 161    | 157    |
| Textile Yarn & Thread                            | 418    | 358    | 423    | 347    | 432    | 397    | 368    |
| Woven Textile Fabrics                            | 1,457  | 798    | 857    | 716    | 643    | 561    | 536    |
| Iron & Steel Plates, Sheets, Bars<br>Shapes, etc | 616    | 451    | 484    | 450    | 480    | 589    | 845    |
| Iron & Steel Pipes & Fittings                    | 385    | 326    | 386    | 449    | 446    | 397    | 670    |
| Generators                                       | 5,498  | 6,878  | 8,195  | 7,317  | 7,676  | 8,062  | 9,349  |
| Office Machines                                  | 34,339 | 51,325 | 53,709 | 48,769 | 45,991 | 44,456 | 47,125 |
| Industrial Machinery                             | 2,250  | 2,754  | 3,317  | 3,618  | 3,783  | 4,403  | 5,755  |
| Telecommunications Apparatus                     | 15,284 | 11,175 | 13,179 | 12,055 | 12,687 | 13,746 | 18,438 |
| Household Equipment                              | 680    | 606    | 629    | 621    | 525    | 490    | 561    |
| Motor Vehicles                                   | 1,405  | 1,407  | 1,534  | 1,381  | 1,634  | 2,132  | 2,982  |
| Ships, Boats & Oil Rigs                          | 1,322  | 817    | 1,237  | 1,152  | 577    | 652    | 525    |
| Furniture                                        | 363    | 143    | 174    | 151    | 135    | 126    | 139    |
| Clothing                                         | 2,322  | 2,716  | 3,150  | 2,923  | 2,957  | 3,133  | 3,108  |
| Scientific & Optical Instruments                 | 3,288  | 5,256  | 6,195  | 6,527  | 7,384  | 7,935  | 9,328  |
| Watches & Clocks                                 | 860    | 1,027  | 1,054  | 950    | 953    | 787    | 863    |
| Printed Matters                                  | 736    | 920    | 1,010  | 1,243  | 906    | 982    | 1,207  |

Source : International Enterprise Singapore



# 14 TRANSPORT AND COMMUNICATIONS

## TRANSPORT AND COMMUNICATIONS

### 14.1 Vessels Entered and Cleared

Data on the movement of vessels are compiled from declarations submitted to the Port Master by all merchant ships entering or leaving Singapore waters. The data are given in terms of number and gross registered tonnage.

14.1.1 All Vessels

14.1.2 All Vessels

The volume of cargo handled refers to those handled by vessels of all tonnage at all ports of Singapore including private wharves and anchorages. The data include cargo but exclude ship stores and supplies as bunker fuel to vessels.

### Civil Air Traffic

The Civil Aviation Authority of Singapore (CAAS) is responsible for the regulation and development of air transport and aerospace industries as well as

the Singapore Changi Airport and Seletar Aerodrome. It also provides air traffic services, regulates and provides the development of air

transport and aerospace industries as well as the Singapore Changi Airport and Seletar Aerodrome.

14.1.3 All Vessels

14.1.4 All Vessels

Data on passenger arrivals and departures are obtained from airlines or their handling agents. Statistics on system movements are compiled by the Authority's Aeronautical Information Services Unit and Corporate Affairs Division.

14.1.5 All Vessels

14.1.6 All Vessels

Monthly statistics on passenger, freight tonnage, aircraft landings and mail carried through Changi Airport are available in the "Air Transport Statistics" published by the CAAS.

### Road Conditions

Data on road casualties are compiled from reports made to the police on all traffic accidents occurring on roads.



### Vessels Entered and Cleared

Data on the movement of vessels are compiled from declarations submitted to the Port Master by all merchant ships entering or leaving Singapore waters. The data are given in terms of number and gross registered tonnage.

### Sea Cargo Handled

The volume of cargo handled refers to those handled by vessels of all tonnages at all parts of Singapore including private wharves and anchorages. The data include transshipment cargo but exclude ship's stores and mineral oil supplied as bunker fuel to vessels.

### Civil Air Traffic

The Civil Aviation Authority of Singapore (CAAS) is responsible for operating the Singapore Changi Airport and Seletar Aerodrome. It also provides air traffic services, regulates and promotes the development of air transport and aerospace industries, as well as compiles and collates statistics on passengers, airfreight, airmail and aircraft traffic passing through Changi Airport and Seletar Aerodrome.

Data on passenger arrivals and departures are obtained from airlines or their handling agents. Statistics on aircraft movements are compiled by the Authority's Aeronautical Information Services Unit and Corporate Affairs Division.

Monthly statistics on passengers, airfreight tonnage, aircraft landings and mail carried through Changi Airport are available in the "Air Transport Statistics" published by the CAAS.

### Roads

Data on public roads refer to the length of roads in kilometres and are classified into expressways, major arterial roads, collector roads and local roads.

### Mass Rapid Transit (MRT)

SMRT Trains Ltd is the operator of the East-West and North-South lines in Singapore. It provides passenger service along major high-density travel corridors in Singapore to satisfy the needs of the travelling public. Since commencing operations in 1987, the East-West and North-South lines have been extended to a route length of 89.4 km and a total of 51 stations. Today, over a million passenger trips are made on the MRT daily.

SBS Transit started operating the North-East Line (NEL) in June 2003. NEL is a highly advanced fully automated underground heavy rail system. It sets new engineering and technological benchmarks in mass transit systems. NEL is 20-kilometres long and comprises 16 stations running from Punggol to HarbourFront.

### Vehicles Registered

All vehicles to be kept or used in Singapore must be registered with the Vehicle and Transit Licensing Division of the Land Transport Authority.

### Road Casualties

Data on road casualties are compiled from reports made to the police on all traffic accidents occurring on roads.



## 14.1 SEA CARGO AND SHIPPING STATISTICS

|                                         | 1994    | 1999    | 2000    | 2001    | 2002    | 2003    | 2004      |
|-----------------------------------------|---------|---------|---------|---------|---------|---------|-----------|
| Vessel Arrivals (No)                    | 101,107 | 141,523 | 145,383 | 146,265 | 142,745 | 135,386 | 133,185   |
| Shipping Tonnage ('000 GT)              | 678,560 | 877,127 | 910,180 | 960,093 | 971,666 | 986,392 | 1,042,447 |
| Total Cargo ('000 tonnes)               | 290,075 | 325,902 | 325,591 | 313,487 | 335,156 | 347,694 | 393,418   |
| General                                 | 157,247 | 188,553 | 199,577 | 186,076 | 198,521 | 206,448 | 240,882   |
| Bulk                                    | 132,828 | 137,349 | 126,014 | 127,411 | 136,635 | 141,247 | 152,536   |
| Total Container Throughput ('000 TEUs)  | 10,400  | 15,945  | 17,087  | 15,571  | 16,941  | 18,411  | 21,329    |
| Bunker Sales ('000 tonnes)              | 17,642  | 18,891  | 18,651  | 20,352  | 20,096  | 20,809  | 23,567    |
| Singapore Ship Registry (End of Period) |         |         |         |         |         |         |           |
| Number                                  | 2,647   | 3,360   | 3,335   | 3,353   | 3,355   | 3,063   | 3,109     |
| '000 GT                                 | 13,201  | 23,748  | 23,043  | 23,167  | 23,551  | 25,572  | 27,711    |

Source : Maritime and Port Authority of Singapore

Notes : GT = Gross Tonnes

TEU = Twenty-Foot Equivalent Unit

## 14.2 CIVIL AIRCRAFT LANDINGS, PASSENGERS AND PARCEL MAIL

|                        | 1994   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
|------------------------|--------|--------|--------|--------|--------|--------|--------|
| Aircraft Landings (No) | 72,565 | 82,970 | 86,853 | 89,706 | 87,379 | 77,173 | 92,437 |
| Passengers ('000)      |        |        |        |        |        |        |        |
| Arriving               | 10,134 | 12,276 | 13,546 | 13,333 | 13,727 | 11,588 | 14,336 |
| Departing              | 10,069 | 12,213 | 13,419 | 13,209 | 13,647 | 11,555 | 14,270 |
| In Transit             | 1,442  | 1,575  | 1,654  | 1,552  | 1,605  | 1,521  | 1,748  |
| Parcel Mail (Tonnes)   |        |        |        |        |        |        |        |
| In-coming              | 8,538  | 10,886 | 10,847 | 10,765 | 10,442 | 9,705  | 9,116  |
| Out-going              | 8,401  | 11,695 | 12,074 | 12,103 | 12,166 | 11,298 | 11,438 |

Source : Civil Aviation Authority of Singapore

Note : Figures refer to Changi Airport only.



## 14.3

AIR CARGO DISCHARGED BY REGION AND SELECTED  
COUNTRY OF ORIGIN

|                 | Tonnes  |         |         |         |         |         |         |
|-----------------|---------|---------|---------|---------|---------|---------|---------|
| Region/Country  | 1994    | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
| Total           | 529,334 | 756,771 | 848,269 | 780,638 | 834,490 | 803,056 | 870,582 |
| South East Asia | 134,259 | 184,006 | 197,822 | 176,428 | 175,235 | 163,167 | 176,927 |
| Malaysia        | 23,996  | 32,614  | 38,203  | 30,932  | 24,039  | 28,202  | 33,680  |
| Philippines     | 7,650   | 25,433  | 25,851  | 22,565  | 26,518  | 25,067  | 28,835  |
| Thailand        | 42,022  | 47,463  | 47,136  | 44,569  | 47,877  | 43,082  | 43,890  |
| North East Asia | 162,282 | 255,523 | 290,615 | 244,423 | 292,246 | 305,437 | 358,085 |
| Hong Kong SAR   | 35,562  | 51,346  | 58,804  | 53,358  | 68,250  | 69,325  | 82,778  |
| Japan           | 57,450  | 69,237  | 81,531  | 60,069  | 67,018  | 68,714  | 84,677  |
| Taiwan          | 35,888  | 65,272  | 75,405  | 60,117  | 69,048  | 73,120  | 77,182  |
| South Asia      | 31,165  | 42,037  | 49,595  | 49,200  | 50,997  | 50,723  | 56,692  |
| India           | 19,971  | 27,995  | 32,589  | 33,156  | 34,971  | 36,297  | 41,331  |
| West Asia       | 10,263  | 9,893   | 14,535  | 10,440  | 9,093   | 9,077   | 11,777  |
| Oceania         | 65,680  | 96,508  | 105,235 | 111,535 | 106,366 | 92,609  | 89,672  |
| Australia       | 56,289  | 83,178  | 91,946  | 97,437  | 90,560  | 78,365  | 75,464  |
| New Zealand     | 8,771   | 12,925  | 13,066  | 13,812  | 15,403  | 13,576  | 13,483  |
| Europe          | 86,036  | 124,438 | 147,601 | 149,715 | 153,716 | 139,435 | 138,653 |
| France          | 5,102   | 18,077  | 20,379  | 22,546  | 22,825  | 18,641  | 8,863   |
| Germany         | 10,365  | 18,282  | 22,386  | 24,893  | 26,790  | 24,706  | 23,133  |
| Netherlands     | 18,389  | 18,310  | 26,588  | 29,846  | 31,589  | 26,649  | 31,022  |
| Scandinavia     | 7,902   | 14,424  | 17,305  | 20,984  | 20,516  | 20,254  | 23,220  |
| Switzerland     | 9,596   | 8,762   | 7,339   | 7,391   | 8,284   | 7,776   | 6,851   |
| United Kingdom  | 12,052  | 20,376  | 22,866  | 23,574  | 25,306  | 23,343  | 17,222  |
| North America   | 36,440  | 40,437  | 38,937  | 34,640  | 41,986  | 38,736  | 35,013  |
| United States   | 35,121  | 40,071  | 38,519  | 34,135  | 41,473  | 38,494  | 34,760  |
| Other Regions   | 3,209   | 3,929   | 3,929   | 4,257   | 4,851   | 3,872   | 3,763   |

Source : Civil Aviation Authority of Singapore

Note : Data refer to Changi Airport only. Data exclude passenger baggage, diplomatic cargo and aircraft stores.



## 14.4

# AIR CARGO LOADED BY REGION AND SELECTED COUNTRY OF DESTINATION

| Region/Country  | 1994    | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
|-----------------|---------|---------|---------|---------|---------|---------|---------|
| Total           | 480,430 | 743,622 | 834,220 | 726,424 | 803,306 | 808,351 | 904,507 |
| South East Asia | 121,047 | 132,550 | 157,223 | 142,399 | 151,563 | 155,360 | 185,276 |
| Malaysia        | 28,069  | 28,660  | 38,504  | 35,987  | 37,237  | 37,570  | 43,202  |
| Philippines     | 10,130  | 27,239  | 26,915  | 21,297  | 26,292  | 28,106  | 36,093  |
| Thailand        | 41,565  | 36,866  | 40,053  | 33,330  | 35,828  | 36,220  | 44,482  |
| North East Asia | 166,943 | 279,717 | 325,651 | 275,906 | 292,931 | 277,750 | 290,918 |
| Hong Kong SAR   | 40,065  | 56,713  | 65,607  | 54,331  | 58,947  | 61,389  | 65,129  |
| Japan           | 61,934  | 94,971  | 109,307 | 95,321  | 89,767  | 75,467  | 73,943  |
| Taiwan          | 31,910  | 59,821  | 68,225  | 56,120  | 61,469  | 56,396  | 56,103  |
| South Asia      | 21,362  | 42,731  | 45,575  | 41,352  | 42,967  | 45,616  | 59,366  |
| India           | 11,540  | 26,523  | 30,086  | 27,129  | 29,609  | 33,539  | 44,455  |
| West Asia       | 12,506  | 20,671  | 26,067  | 21,114  | 24,534  | 25,298  | 30,913  |
| Oceania         | 40,720  | 69,151  | 67,763  | 63,123  | 70,703  | 80,940  | 90,854  |
| Australia       | 32,394  | 55,978  | 56,409  | 52,897  | 58,926  | 68,833  | 77,204  |
| New Zealand     | 7,424   | 11,546  | 10,783  | 9,764   | 11,275  | 11,681  | 13,194  |
| Europe          | 80,721  | 131,619 | 138,378 | 122,839 | 144,217 | 145,263 | 160,147 |
| France          | 3,339   | 20,149  | 22,410  | 20,122  | 25,516  | 20,694  | 13,310  |
| Germany         | 8,836   | 22,137  | 22,610  | 18,320  | 22,531  | 22,718  | 30,974  |
| Netherlands     | 16,963  | 19,141  | 20,692  | 20,039  | 24,428  | 27,217  | 36,452  |
| Scandinavia     | 4,008   | 6,949   | 7,781   | 8,173   | 11,360  | 11,890  | 11,660  |
| Switzerland     | 6,627   | 5,299   | 4,112   | 4,455   | 5,044   | 5,523   | 5,516   |
| United Kingdom  | 12,594  | 25,913  | 28,084  | 26,000  | 28,456  | 29,205  | 31,654  |
| North America   | 32,960  | 60,518  | 66,748  | 54,302  | 70,785  | 71,905  | 79,954  |
| United States   | 31,798  | 59,432  | 65,625  | 53,195  | 69,708  | 71,279  | 79,389  |
| Other Regions   | 4,171   | 6,665   | 6,815   | 5,389   | 5,606   | 6,219   | 7,079   |

Source : Civil Aviation Authority of Singapore

Notes : Data refer to Changi Airport only. Data exclude passenger baggage, diplomatic cargo and aircraft stores.



# 14.5 AIR PASSENGER ARRIVALS BY REGION AND SELECTED COUNTRY OF EMBARKATION

| Region/Country    |        |        |        |        |        |        |        | Thousand |
|-------------------|--------|--------|--------|--------|--------|--------|--------|----------|
|                   | 1994   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |          |
| Total             | 10,134 | 12,276 | 13,546 | 13,333 | 13,727 | 11,588 | 14,336 |          |
| South East Asia   | 4,614  | 4,907  | 5,274  | 5,241  | 5,323  | 4,458  | 5,417  |          |
| ASEAN             | 4,569  | 4,894  | 5,274  | 5,241  | 5,323  | 4,458  | 5,417  |          |
| Brunei Darussalam | 129    | 120    | 120    | 132    | 124    | 100    | 102    |          |
| Indonesia         | 1,265  | 1,346  | 1,467  | 1,472  | 1,515  | 1,330  | 1,595  |          |
| Malaysia          | 1,842  | 1,545  | 1,677  | 1,587  | 1,456  | 1,079  | 1,211  |          |
| Philippines       | 229    | 347    | 370    | 348    | 367    | 327    | 402    |          |
| Thailand          | 1,004  | 1,316  | 1,384  | 1,430  | 1,560  | 1,343  | 1,727  |          |
| Vietnam           | 100    | 154    | 170    | 181    | 204    | 192    | 263    |          |
| Cambodia          | na     | 38     | 41     | 46     | 47     | 43     | 61     |          |
| Myanmar           | 23     | 41     | 45     | 45     | 49     | 45     | 56     |          |
| Laos              | na     | -      | -      | -      | -      | -      | -      |          |
| North East Asia   | 2,471  | 2,989  | 3,352  | 3,182  | 3,324  | 2,520  | 3,542  |          |
| Hong Kong SAR     | 733    | 826    | 974    | 934    | 893    | 640    | 914    |          |
| Japan             | 961    | 1,008  | 1,073  | 945    | 951    | 689    | 864    |          |
| Taiwan            | 433    | 419    | 412    | 357    | 353    | 248    | 320    |          |
| South Asia        | 517    | 851    | 961    | 905    | 885    | 859    | 1,053  |          |
| India             | 289    | 546    | 642    | 600    | 623    | 610    | 754    |          |
| Pakistan          | 39     | 42     | 46     | 36     | 7      | -      | -      |          |
| Sri Lanka         | 98     | 123    | 123    | 114    | 124    | 129    | 153    |          |
| West Asia         | 123    | 156    | 169    | 173    | 179    | 127    | 201    |          |
| Oceania           | 1,029  | 1,489  | 1,712  | 1,801  | 1,873  | 1,743  | 1,955  |          |
| Australia         | 873    | 1,269  | 1,475  | 1,574  | 1,620  | 1,498  | 1,647  |          |
| New Zealand       | 138    | 208    | 225    | 216    | 241    | 233    | 294    |          |
| Europe            | 1,033  | 1,454  | 1,591  | 1,596  | 1,694  | 1,508  | 1,667  |          |
| France            | 76     | 145    | 144    | 152    | 168    | 158    | 195    |          |
| Germany           | 180    | 293    | 303    | 330    | 362    | 317    | 350    |          |
| Netherlands       | 110    | 121    | 132    | 132    | 138    | 107    | 133    |          |
| Scandinavia       | 47     | 59     | 75     | 63     | 67     | 57     | 64     |          |
| Switzerland       | 77     | 104    | 111    | 106    | 107    | 93     | 107    |          |
| United Kingdom    | 359    | 578    | 659    | 665    | 652    | 630    | 679    |          |
| North America     | 246    | 282    | 327    | 293    | 310    | 259    | 372    |          |
| United States     | 221    | 260    | 307    | 273    | 288    | 240    | 348    |          |
| Other Regions     | 102    | 148    | 160    | 143    | 139    | 114    | 131    |          |

Source : Civil Aviation Authority of Singapore

Notes : Data refer to Changi Airport only.

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



## 14.6

AIR PASSENGER DEPARTURES BY REGION AND SELECTED  
COUNTRY OF DISEMBARKATION

| Region/Country    | 1994   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   | Thousand |
|-------------------|--------|--------|--------|--------|--------|--------|--------|----------|
| Total             | 10,069 | 12,213 | 13,419 | 13,209 | 13,647 | 11,555 | 14,270 |          |
| South East Asia   | 4,522  | 4,716  | 5,077  | 5,102  | 5,140  | 4,347  | 5,314  |          |
| ASEAN             | 4,480  | 4,705  | 5,077  | 5,102  | 5,140  | 4,347  | 5,314  |          |
| Brunei Darussalam | 127    | 116    | 117    | 126    | 122    | 98     | 96     |          |
| Indonesia         | 1,336  | 1,378  | 1,493  | 1,525  | 1,574  | 1,382  | 1,676  |          |
| Malaysia          | 1,684  | 1,451  | 1,579  | 1,514  | 1,369  | 1,034  | 1,162  |          |
| Philippines       | 224    | 352    | 376    | 350    | 366    | 318    | 390    |          |
| Thailand          | 1,011  | 1,197  | 1,262  | 1,319  | 1,409  | 1,246  | 1,616  |          |
| Vietnam           | 99     | 147    | 167    | 177    | 202    | 183    | 268    |          |
| Cambodia          | na     | 35     | 39     | 46     | 48     | 41     | 55     |          |
| Myanmar           | 21     | 40     | 44     | 44     | 50     | 44     | 52     |          |
| Laos              | na     | -      | -      | -      | -      | -      | -      |          |
| North East Asia   | 2,495  | 3,003  | 3,354  | 3,177  | 3,378  | 2,550  | 3,557  |          |
| Hong Kong SAR     | 741    | 845    | 944    | 925    | 931    | 675    | 948    |          |
| Japan             | 963    | 1,020  | 1,063  | 931    | 938    | 686    | 861    |          |
| Taiwan            | 454    | 433    | 460    | 361    | 351    | 246    | 320    |          |
| South Asia        | 491    | 827    | 937    | 874    | 871    | 822    | 1,024  |          |
| India             | 277    | 524    | 617    | 581    | 598    | 569    | 720    |          |
| Pakistan          | 39     | 36     | 40     | 34     | 6      | -      | -      |          |
| Sri Lanka         | 94     | 122    | 129    | 116    | 136    | 139    | 173    |          |
| West Asia         | 115    | 151    | 154    | 162    | 176    | 125    | 196    |          |
| Oceania           | 1,082  | 1,573  | 1,765  | 1,858  | 1,943  | 1,824  | 2,039  |          |
| Australia         | 922    | 1,342  | 1,524  | 1,624  | 1,679  | 1,566  | 1,731  |          |
| New Zealand       | 144    | 220    | 230    | 224    | 253    | 246    | 293    |          |
| Europe            | 1,012  | 1,462  | 1,599  | 1,578  | 1,664  | 1,494  | 1,629  |          |
| France            | 74     | 150    | 148    | 161    | 177    | 171    | 205    |          |
| Germany           | 171    | 298    | 305    | 329    | 351    | 316    | 342    |          |
| Netherlands       | 103    | 127    | 132    | 130    | 138    | 113    | 130    |          |
| Scandinavia       | 48     | 70     | 92     | 72     | 72     | 62     | 68     |          |
| Switzerland       | 85     | 108    | 116    | 113    | 112    | 98     | 112    |          |
| United Kingdom    | 355    | 549    | 629    | 623    | 614    | 583    | 631    |          |
| North America     | 251    | 332    | 373    | 315    | 334    | 273    | 376    |          |
| United States     | 224    | 306    | 349    | 293    | 310    | 251    | 352    |          |
| Other Regions     | 102    | 150    | 160    | 144    | 142    | 120    | 134    |          |

Source : Civil Aviation Authority of Singapore

Notes : Data refer to Changi Airport only.

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



**14.7 PUBLIC ROADS**

(End of Period)

|                      | 1994       | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|----------------------|------------|-------|-------|-------|-------|-------|-------|
|                      | Kilometres |       |       |       |       |       |       |
| Paved Roads          | 2,943      | 3,066 | 3,100 | 3,119 | 3,149 | 3,164 | 3,188 |
| Expressways          | 128        | 150   | 150   | 150   | 150   | 150   | 150   |
| Major Arterial Roads | 565        | 569   | 571   | 573   | 575   | 579   | 579   |
| Collector Roads      | 315        | 358   | 375   | 387   | 410   | 415   | 426   |
| Local Roads Improved | 1,935      | 1,989 | 2,004 | 2,009 | 2,014 | 2,020 | 2,033 |

Source : Land Transport Authority (with effect from 1995)

**14.8 MOTOR VEHICLE POPULATION BY TYPE OF VEHICLE**

(End of Period)

|                        | 1994    | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
|------------------------|---------|---------|---------|---------|---------|---------|---------|
|                        | Number  |         |         |         |         |         |         |
| Total                  | 611,611 | 688,811 | 692,807 | 708,370 | 706,956 | 711,043 | 727,395 |
| Cars <sup>1</sup>      | 321,556 | 378,024 | 386,780 | 398,787 | 398,166 | 399,923 | 412,015 |
| Rental Cars            | 4,341   | 7,112   | 8,438   | 8,857   | 8,423   | 7,803   | 7,455   |
| Taxis                  | 14,750  | 18,029  | 18,327  | 18,798  | 19,106  | 19,384  | 20,407  |
| Buses                  | 10,198  | 11,827  | 12,569  | 12,902  | 12,992  | 12,951  | 13,173  |
| Motorcycles & Scooters | 126,156 | 134,346 | 131,937 | 131,869 | 132,318 | 135,649 | 137,029 |
| Goods & Other Vehicles | 134,610 | 139,473 | 134,756 | 137,157 | 135,951 | 135,333 | 137,316 |

Source : Land Transport Authority

<sup>1</sup> Include private and company cars.



## 14.9 CAR POPULATION BY CC RATING

(End of Period)

| CC Rating         | Number  |         |         |         |         |         |         |
|-------------------|---------|---------|---------|---------|---------|---------|---------|
|                   | 1994    | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
| Total             | 324,026 | 382,941 | 392,961 | 405,354 | 404,274 | 405,328 | 417,103 |
| 1,000 cc & below  | 47,019  | 48,552  | 35,724  | 30,680  | 26,234  | 20,892  | 14,976  |
| 1,001 to 1,600 cc | 195,694 | 220,274 | 232,638 | 244,609 | 241,603 | 238,659 | 243,663 |
| 1,601 to 2,000 cc | 61,410  | 81,333  | 87,262  | 89,052  | 90,598  | 94,372  | 99,777  |
| 2,001 to 3,000 cc | 15,950  | 26,660  | 30,961  | 34,825  | 39,778  | 45,401  | 52,371  |
| 3,001 cc & above  | 3,953   | 6,122   | 6,376   | 6,188   | 6,061   | 6,004   | 6,316   |

Source : Land Transport Authority

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

They do not include taxis and tax exempted cars.

## 14.10 AGE DISTRIBUTION OF CARS

(End of Period)

| Age (Years)   | Number  |         |         |         |         |         |         |
|---------------|---------|---------|---------|---------|---------|---------|---------|
|               | 1994    | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
| Total         | 324,026 | 382,941 | 392,961 | 405,354 | 404,274 | 405,328 | 417,103 |
| Below 1       | 34,044  | 38,474  | 58,097  | 67,134  | 62,935  | 81,244  | 96,670  |
| 1 - below 2   | 39,616  | 27,883  | 38,441  | 58,000  | 67,066  | 62,827  | 81,164  |
| 2 - below 3   | 29,548  | 24,844  | 27,856  | 38,210  | 57,110  | 66,234  | 60,289  |
| 3 - below 4   | 28,740  | 28,569  | 24,160  | 27,614  | 36,747  | 47,358  | 56,374  |
| 4 - below 5   | 31,902  | 31,136  | 28,211  | 19,420  | 26,719  | 27,250  | 27,860  |
| 5 - below 6   | 35,466  | 31,031  | 29,790  | 25,157  | 13,305  | 22,390  | 13,038  |
| 6 - below 7   | 26,399  | 38,988  | 29,543  | 25,574  | 20,309  | 8,327   | 15,284  |
| 7 - below 8   | 12,442  | 28,570  | 38,186  | 23,843  | 18,122  | 12,810  | 4,311   |
| 8 - below 9   | 8,589   | 27,796  | 28,030  | 34,102  | 15,608  | 10,545  | 6,970   |
| 9 - below 10  | 10,691  | 26,914  | 25,588  | 24,297  | 21,537  | 6,747   | 4,538   |
| 10 - below 11 | 5,047   | 8,653   | 8,378   | 14,480  | 13,222  | 4,207   | 811     |
| 11 - below 12 | 8,439   | 2,644   | 8,675   | 8,238   | 14,418  | 13,164  | 4,165   |
| 12 - below 13 | 11,608  | 2,307   | 2,634   | 8,521   | 7,913   | 14,236  | 12,979  |
| 13 - below 14 | 6,956   | 2,213   | 2,287   | 2,556   | 8,230   | 6,678   | 13,490  |
| 14 - below 15 | 10,508  | 2,097   | 2,151   | 2,135   | 2,411   | 6,834   | 4,395   |
| 15 & above    | 24,031  | 60,822  | 40,934  | 26,073  | 18,622  | 14,477  | 14,765  |

Source : Land Transport Authority

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

They do not include taxis and tax exempted cars.



## 14.11 ROAD CASUALTIES

|                                                 | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  | Persons |
|-------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|---------|
| Total <sup>1</sup>                              |       |       |       |       |       |       |       |         |
| Killed                                          | 255   | 198   | 213   | 194   | 199   | 213   | 194   |         |
| Injured                                         | 6,751 | 8,933 | 9,598 | 9,303 | 9,072 | 7,913 | 8,439 |         |
| Pedestrians                                     |       |       |       |       |       |       |       |         |
| Killed                                          | 67    | 56    | 59    | 54    | 49    | 63    | 46    |         |
| Injured                                         | 841   | 852   | 869   | 870   | 874   | 774   | 824   |         |
| Pedal Cyclists, Trishaw Riders & Passengers     |       |       |       |       |       |       |       |         |
| Killed                                          | 17    | 19    | 15    | 12    | 16    | 17    | 17    |         |
| Injured                                         | 240   | 330   | 319   | 343   | 349   | 352   | 379   |         |
| Motor Cyclists & Pillion Riders                 |       |       |       |       |       |       |       |         |
| Killed                                          | 118   | 85    | 99    | 88    | 101   | 94    | 95    |         |
| Injured                                         | 3,546 | 4,382 | 5,031 | 4,811 | 4,637 | 4,222 | 4,599 |         |
| Motor Vehicle Drivers & Passengers <sup>2</sup> |       |       |       |       |       |       |       |         |
| Killed                                          | 51    | 38    | 38    | 36    | 30    | 39    | 34    |         |
| Injured                                         | 2,055 | 3,339 | 3,336 | 3,236 | 3,188 | 2,535 | 2,567 |         |

Source : Traffic Police Department

<sup>1</sup> Include other categories of road users not shown in table.<sup>2</sup> Figures refer to drivers and passengers of motor cars, buses, light goods and heavy goods vehicles only.

## 14.12 VEHICLES INVOLVED IN ROAD ACCIDENTS BY TYPE OF VEHICLE

|                                   | 1994  | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   | Number |
|-----------------------------------|-------|--------|--------|--------|--------|--------|--------|--------|
| Total                             | 8,856 | 11,548 | 12,549 | 12,379 | 12,029 | 11,227 | 11,878 |        |
| Pedal Cycles                      | 260   | 345    | 338    | 365    | 363    | 376    | 413    |        |
| Motor Cycles & Scooters           | 3,211 | 3,976  | 4,541  | 4,435  | 4,194  | 3,999  | 4,292  |        |
| Motor Cars & Station Wagons       | 3,436 | 4,905  | 5,251  | 5,307  | 5,262  | 4,830  | 4,940  |        |
| Light Goods Vehicles              | 597   | 686    | 697    | 609    | 639    | 567    | 598    |        |
| Heavy Goods Vehicles <sup>1</sup> | 850   | 1,109  | 1,137  | 1,076  | 1,020  | 887    | 1,015  |        |
| Buses                             | 427   | 448    | 492    | 483    | 459    | 402    | 431    |        |
| Others                            | 75    | 79     | 93     | 104    | 92     | 166    | 189    |        |

Source : Traffic Police Department

Note : Figures refer to vehicles involved in fatal and injury accidents.

<sup>1</sup> Cover lorries, tippers/trucks and trailers only.



## 14.13

## MASS RAPID TRANSIT OPERATION AND RIDERSHIP

|                                                      | 1994    | 1999      | 2000      | 2001      | 2002      | 2003      | 2004      |
|------------------------------------------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total Train Km Operated ('000)                       | 9,127   | 12,276    | 12,506    | 12,951    | 14,992    | 14,764    | 14,902    |
| Total Number of Passengers ('000)                    | 257,373 | 361,318   | 383,354   | 390,930   | 394,651   | 418,842   | 466,605   |
| Average Number of Weekday<br>Passengers (No)         | 724,500 | 1,028,300 | 1,092,000 | 1,127,000 | 1,139,000 | 1,280,000 | 1,343,000 |
| Average Weekday Traffic of<br>Selected Stations (No) |         |           |           |           |           |           |           |
| Ang Mo Kio                                           | 73,200  | 90,400    | 93,940    | 95,300    | 88,600    | 79,000    | 76,000    |
| City Hall Station                                    | 81,100  | 93,200    | 100,420   | 105,000   | 105,800   | 102,300   | 101,900   |
| Orchard Station                                      | 84,200  | 87,600    | 92,850    | 93,500    | 90,700    | 89,100    | 94,500    |
| Raffles Place Station                                | 97,400  | 103,300   | 111,550   | 113,400   | 105,200   | 97,700    | 99,400    |
| Tanjong Pagar                                        | 63,300  | 69,500    | 71,980    | 74,000    | 72,100    | 70,100    | 72,100    |
| Chinatown                                            | na      | na        | na        | na        | na        | 29,500    | 33,200    |
| Hougang                                              | na      | na        | na        | na        | na        | 21,800    | 25,700    |
| Sengkang                                             | na      | na        | na        | na        | na        | 30,500    | 32,700    |

Source : SMRT Trains Ltd

SBS Transit Ltd

Note : The North East Line (NEL) started operations on 20 June 2003.



## 14.14

## POSTAL ARTICLES HANDLED AND TELECOMMUNICATIONS

|                                     | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Postal Articles Handled (million)   | 1,181 | 1,487 | 1,525 | 1,561 | 1,591 | 1,589 | 1,612 |
| Subscribers <sup>1</sup> ('000)     |       |       |       |       |       |       |       |
| Fixed Line                          | 1,310 | 1,851 | 1,936 | 1,949 | 1,934 | 1,897 | 1,864 |
| Residential                         | 816   | 1,117 | 1,152 | 1,157 | 1,150 | 1,127 | 1,100 |
| Corporate                           | 494   | 733   | 784   | 792   | 784   | 770   | 764   |
| Mobile Phone                        | 222   | 1,471 | 2,442 | 2,859 | 3,245 | 3,477 | 3,861 |
| Pager                               | 772   | 1,200 | 839   | 482   | 294   | 174   | 104   |
| Dial-up Internet <sup>2</sup>       | 2     | 583   | 1,940 | 1,918 | 2,001 | 1,796 | 1,714 |
| Broadband <sup>3,4</sup>            | na    | na    | na    | na    | na    | 390   | 512   |
| Residential                         | na    | na    | na    | na    | na    | na    | 464   |
| Corporate                           | na    | na    | na    | na    | na    | na    | 48    |
| International Telephone             |       |       |       |       |       |       |       |
| Call Minutes <sup>5</sup> (million) | 451   | 859   | 1,048 | 2,561 | 2,829 | 3,074 | 4,131 |

Source : Singapore Post

Infocomm Development Authority of Singapore

1 As at end of period.

2 From 2001, data include contributions from IASPs.

3 Breakdown of broadband subscribers by residential and corporate are not available prior to 2004.

4 With effect from July 2004, the total number of broadband subscriptions includes xDSL, cable modems, leased line internet and other broadband internet access methods.

5 Prior to 1996, data refer to financial year.

For 1998 to 2000, data include real-time fax and budget call services.

Prior to 2001, data exclude calls to Malaysia.

From 2001, data include traffic contributed by new service providers such as ISR operators.

With effect from July 2004, figures include all Service-Based Operators (SBO).







### Visitor Arrivals

Data on visitor arrivals are compiled from Disembarkation/Embarkation Forms (IMM 23A) completed by all visitors arriving in Singapore at the points of entry.

Monthly and annual summaries of characteristics of visitor arrivals from major markets are available respectively in the "Tourism Focus" and the "Singapore Annual Report on Tourism Statistics", which are published by the Singapore Tourism Board (STB).

### Visitor Expenditure

Data are collected in the STB's Survey of Overseas Visitors to Singapore. Face-to-face interviews with visitors leaving Singapore by air are conducted throughout the year.

### Definitions

*Average Expenditure Per Visitor Per Day:* This is obtained from dividing the total expenditure by the number of visitors and average length of stay.

*Events:* These refer to any form of organised gatherings such as corporate meetings, conventions, congresses, conferences, symposiums, seminars, trade shows, fairs, exhibitions, or incentive meetings.

*Conventions:* The terms "congress", "conference", "convention", "symposium" and "seminar" are used interchangeably.

*Exhibitions:* Trade shows, exhibitions and trade fairs are interchangeable terms. An exhibition is defined as an event held during a limited period of time at which a large number of exhibitors display product samples or services with the ultimate goal of selling to the trade, industrial users and bulk buyers.

*Incentive Travel:* This refers to any form of travel programme sponsored by a company to reward or motivate employees to achieve extraordinary levels of performance.

*Foreign Participants:* They refer to foreign nationals, who are not permanent residents of Singapore, nor are they based in Singapore; delegates, speakers, observers, and members of the press are included.



# 15.1 VISITOR ARRIVALS BY REGION AND SELECTED COUNTRY OF RESIDENCE

| Region/Country                    | Thousand |         |         |         |         |         |         |
|-----------------------------------|----------|---------|---------|---------|---------|---------|---------|
|                                   | 1994     | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
| Total                             | 6,898.3  | 6,958.2 | 7,691.3 | 7,522.2 | 7,566.8 | 6,126.9 | 8,328.6 |
| Americas                          | 428.0    | 444.3   | 483.0   | 433.6   | 416.4   | 314.7   | 422.1   |
| Canada                            | 65.5     | 72.5    | 71.4    | 69.3    | 67.9    | 51.3    | 68.9    |
| United States                     | 343.7    | 351.5   | 385.6   | 343.8   | 327.7   | 250.7   | 333.1   |
| Asia                              | 4,918.4  | 4,797.3 | 5,320.7 | 5,224.1 | 5,326.5 | 4,400.8 | 6,079.1 |
| ASEAN <sup>1</sup>                | 2,140.9  | 2,221.4 | 2,427.7 | 2,522.9 | 2,532.8 | 2,307.1 | 3,085.9 |
| China                             | 164.9    | 372.9   | 434.3   | 497.4   | 670.1   | 568.5   | 880.2   |
| Hong Kong SAR                     | 270.8    | 260.0   | 286.0   | 276.2   | 266.0   | 226.3   | 271.7   |
| India                             | 173.8    | 288.4   | 346.4   | 339.8   | 375.6   | 309.4   | 471.2   |
| Japan                             | 1,109.2  | 860.7   | 929.9   | 755.8   | 723.4   | 434.0   | 598.8   |
| Pakistan                          | 38.8     | 36.3    | 42.5    | 40.8    | 10.6    | 9.4     | 14.3    |
| Saudi Arabia                      | 21.1     | 23.1    | 24.8    | 25.1    | 6.8     | 3.5     | 7.3     |
| Korea, Republic of                | 289.5    | 242.2   | 354.4   | 359.1   | 371.0   | 261.4   | 361.1   |
| Sri Lanka                         | 47.5     | 60.1    | 63.2    | 56.2    | 54.7    | 51.4    | 73.2    |
| Taiwan                            | 510.8    | 317.5   | 290.8   | 222.1   | 209.3   | 144.9   | 182.4   |
| United Arab Emirates              | 17.3     | 20.2    | 21.0    | 21.6    | 20.8    | 15.7    | 25.2    |
| Europe                            | 1,016.5  | 1,050.0 | 1,127.9 | 1,114.6 | 1,101.8 | 877.3   | 1,070.8 |
| Austria                           | 21.4     | 16.7    | 16.0    | 14.1    | 14.6    | 9.4     | 13.1    |
| Belgium & Luxembourg              | 21.6     | 20.0    | 23.9    | 23.4    | 21.7    | 15.0    | 16.1    |
| France                            | 77.2     | 74.0    | 74.8    | 71.5    | 72.2    | 55.8    | 77.9    |
| Germany                           | 196.0    | 167.9   | 169.4   | 167.0   | 157.5   | 121.4   | 142.4   |
| Greece                            | 15.3     | 13.3    | 13.2    | 11.3    | 12.8    | 7.9     | 11.6    |
| Italy                             | 53.5     | 43.8    | 42.2    | 35.7    | 36.7    | 20.3    | 27.7    |
| Netherlands                       | 75.9     | 64.7    | 77.3    | 75.0    | 71.6    | 55.4    | 61.4    |
| Scandinavia <sup>2</sup>          | 82.9     | 84.4    | 91.6    | 87.0    | 84.9    | 68.7    | 84.3    |
| Switzerland                       | 60.1     | 47.8    | 48.3    | 46.5    | 45.2    | 33.4    | 44.2    |
| United Kingdom                    | 302.0    | 401.5   | 445.0   | 460.0   | 458.5   | 388.0   | 457.3   |
| CIS <sup>3</sup> & Eastern Europe | 51.3     | 42.8    | 47.1    | 51.1    | 51.5    | 44.7    | 58.6    |
| Oceania                           | 434.2    | 564.5   | 616.6   | 656.5   | 644.1   | 475.6   | 682.4   |
| Australia                         | 347.4    | 466.1   | 510.3   | 550.7   | 538.4   | 392.9   | 561.2   |
| New Zealand                       | 69.1     | 86.7    | 94.3    | 94.3    | 94.1    | 73.5    | 109.1   |
| Others                            | 101.2    | 102.1   | 143.2   | 93.4    | 78.0    | 58.5    | 74.2    |
| Africa                            | 100.7    | 90.2    | 99.5    | 88.0    | 72.8    | 58.4    | 73.9    |

Source : Singapore Tourism Board

Note : Exclude arrivals of Malaysians by land.

From 1999, the tourism statistics from Singapore Tourism Board (STB) are based on data generated by STB's "Automated Information Management System". Some of the past figures have been revised.

1 ASEAN refers to the ten-country political association comprising Brunei Darussalam, Cambodia, Indonesia, Philippines, Laos, Malaysia, Myanmar, Singapore, Thailand and Vietnam. However, when used in the statistical tables, the term excludes Singapore. Arrivals from ASEAN include Vietnam arrivals with effect from 1995, Laos and Myanmar arrivals with effect from August 1997 and Cambodia with effect from May 1999.

2 Figures from 1998 include Denmark, Norway and Sweden.

3 CIS denotes The Commonwealth of Independent States formerly known as Soviet Union.



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

|                           |  |  |      |      |      |      |      |      |      | Thousand |
|---------------------------|--|--|------|------|------|------|------|------|------|----------|
|                           |  |  | 1994 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |          |
| <b>Total</b> <sup>1</sup> |  |  |      |      |      |      |      |      |      |          |
|                           |  |  |      |      |      |      |      |      |      |          |
| <b>Sex</b>                |  |  |      |      |      |      |      |      |      |          |
|                           |  |  |      |      |      |      |      |      |      |          |
| <b>Males</b>              |  |  |      |      |      |      |      |      |      |          |
|                           |  |  |      |      |      |      |      |      |      |          |
| <b>Females</b>            |  |  |      |      |      |      |      |      |      |          |
|                           |  |  |      |      |      |      |      |      |      |          |
| <b>Age Group (Years)</b>  |  |  |      |      |      |      |      |      |      |          |
|                           |  |  |      |      |      |      |      |      |      |          |
| <b>Under 15</b>           |  |  |      |      |      |      |      |      |      |          |
|                           |  |  |      |      |      |      |      |      |      |          |
| <b>15 - 19</b>            |  |  |      |      |      |      |      |      |      |          |
|                           |  |  |      |      |      |      |      |      |      |          |
| <b>20 - 24</b>            |  |  |      |      |      |      |      |      |      |          |
|                           |  |  |      |      |      |      |      |      |      |          |
| <b>25 - 34</b>            |  |  |      |      |      |      |      |      |      |          |
|                           |  |  |      |      |      |      |      |      |      |          |
| <b>35 - 44</b>            |  |  |      |      |      |      |      |      |      |          |
|                           |  |  |      |      |      |      |      |      |      |          |
| <b>45 - 54</b>            |  |  |      |      |      |      |      |      |      |          |
|                           |  |  |      |      |      |      |      |      |      |          |
| <b>55 - 64</b>            |  |  |      |      |      |      |      |      |      |          |
|                           |  |  |      |      |      |      |      |      |      |          |
| <b>65 &amp; Over</b>      |  |  |      |      |      |      |      |      |      |          |
|                           |  |  |      |      |      |      |      |      |      |          |
| <b>Not Stated</b>         |  |  |      |      |      |      |      |      |      |          |

Source : Singapore Tourism Board

Note : Exclude arrivals of Malaysians by land.

From 1999, the tourism statistics from Singapore Tourism Board (STB) are based on data generated by STB's "Automated Information Management System". Some of the past figures have been revised.

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



## 15.3 VISITOR ARRIVALS BY LENGTH OF STAY

| Length of Stay (Days)         | Thousand |         |         |         |         |         |         |
|-------------------------------|----------|---------|---------|---------|---------|---------|---------|
|                               | 1994     | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
| Total                         | 6,723.0  | 6,702.1 | 7,480.9 | 7,340.8 | 7,358.6 | 5,976.5 | 8,057.5 |
| Under 1                       | 969.4    | 1,354.4 | 1,629.3 | 1,665.6 | 1,711.9 | 1,429.7 | 1,793.2 |
| 1                             | 1,606.0  | 1,723.3 | 1,893.0 | 1,890.3 | 1,948.7 | 1,534.9 | 2,052.6 |
| 2                             | 1,589.7  | 1,290.5 | 1,391.7 | 1,319.5 | 1,290.9 | 1,031.7 | 1,444.1 |
| 3                             | 1,041.3  | 918.6   | 997.8   | 930.3   | 904.9   | 698.8   | 1,028.9 |
| 4 - 7                         | 994.1    | 916.5   | 1,015.1 | 970.3   | 957.5   | 797.5   | 1,105.0 |
| 8 - 14                        | 331.3    | 316.6   | 351.0   | 360.1   | 360.9   | 321.5   | 409.7   |
| 15 - 29                       | 108.8    | 124.9   | 134.8   | 132.9   | 120.7   | 107.8   | 151.5   |
| 30 - 59                       | 46.9     | 39.3    | 45.1    | 45.8    | 40.6    | 35.7    | 48.6    |
| 60 & Over                     | 35.5     | 18.0    | 23.1    | 26.0    | 22.5    | 18.9    | 23.8    |
| Average Length of Stay (Days) | 3.5      | 3.2     | 3.2     | 3.2     | 3.1     | 3.2     | 3.2     |

Source : Singapore Tourism Board

Notes : Exclude arrivals of Malaysians by land.

Refer to visitors who left Singapore during the period specified.

From 1999, the tourism statistics from Singapore Tourism Board (STB) are based on data generated by STB's "Automated Information Management System". Some of the past figures have been revised.

## 15.4 AVERAGE EXPENDITURE PER VISITOR PER DAY BY COUNTRY OF RESIDENCE

| Country            | Dollars |      |      |      |      |      |      |
|--------------------|---------|------|------|------|------|------|------|
|                    | 1993    | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
| Total              | 237     | 257  | 273  | 259  | 238  | 233  | 221  |
| ASEAN              | 271     | 193  | 225  | 264  | 232  | 231  | 234  |
| Australia          | 230     | 220  | 221  | 202  | 213  | 226  | 205  |
| Canada             | 164     | 217  | 183  | 234  | 175  | 193  | 174  |
| China              | 277     | 284  | 314  | 238  | 195  | 177  | 167  |
| France             | 256     | 196  | 193  | 170  | 203  | 205  | 173  |
| Germany            | 169     | 196  | 185  | 185  | 230  | 202  | 181  |
| Hong Kong SAR      | 148     | 239  | 247  | 205  | 213  | 230  | 222  |
| India              | 286     | 386  | 474  | 411  | 279  | 272  | 228  |
| Italy              | 196     | 227  | 199  | 231  | 262  | 276  | 245  |
| Japan              | 244     | 348  | 421  | 316  | 324  | 320  | 309  |
| Netherlands        | 185     | 188  | 161  | 171  | 185  | 171  | 145  |
| New Zealand        | 233     | 268  | 268  | 177  | 236  | 221  | 208  |
| South Africa       | 638     | 233  | 285  | 188  | 243  | 224  | 199  |
| Korea, Republic of | 163     | 283  | 298  | 243  | 253  | 221  | 208  |
| Switzerland        | 184     | 217  | 193  | 197  | 239  | 223  | 214  |
| Taiwan             | 184     | 285  | 301  | 242  | 224  | 209  | 180  |
| United Kingdom     | 162     | 204  | 199  | 202  | 205  | 221  | 219  |
| United States      | 180     | 254  | 239  | 238  | 237  | 231  | 223  |

Source : Singapore Tourism Board

Note : For the period 1997-2002, expenditure includes prepaid components such as accommodation and sight seeing tours before arrival.



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

|       | 1994      | 1999      | 2000      | 2001      | 2002      | 2003      | 2004      |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total | 2,446,519 | 3,971,180 | 4,443,542 | 4,363,077 | 4,398,840 | 4,221,464 | 5,164,906 |
| Air   | 1,740,030 | 2,315,637 | 2,563,346 | 2,476,099 | 2,617,452 | 2,344,492 | 2,999,368 |
| Sea   | 706,489   | 1,655,543 | 1,880,196 | 1,886,978 | 1,781,388 | 1,876,972 | 2,165,538 |

Source : Immigration &amp; Checkpoints Authority

## 15.6 HOTELS AND CESS COLLECTION

|                                                  | 1994     | 1999     | 2000     | 2001     | 2002     | 2003     | 2004     |
|--------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|
| Tourist Hotels <sup>1</sup>                      |          |          |          |          |          |          |          |
| Number (At End Year)                             | 75       | 99       | 101      | 102      | 101      | 93       | 93       |
| Average Number of Rooms Available <sup>2</sup>   | 24,609   | 27,542   | 28,212   | 27,859   | 27,877   | 27,470   | 28,359   |
| Average Occupancy Rate (%)                       | 86.6     | 74.9     | 83.5     | 76.3     | 74.4     | 67.2     | 80.6     |
| Cess Collected <sup>3</sup> (\$ ' 000)           | 19,748.7 | 10,043.6 | 11,778.0 | 11,534.8 | 10,936.0 | 8,525.6  | 11,458.3 |
| Cess on Food & Beverages <sup>3</sup> (\$ ' 000) | 28,406.0 | 16,032.4 | 17,642.1 | 17,206.4 | 16,422.5 | 15,018.4 | 16,348.7 |

Source : Singapore Tourism Board

1 Refer to gazetted hotels.

2 Exclude rooms that are under renovation and those meant for staff and other uses.

3 With effect from 1 April 1994, the rate has been reduced from 4% to 1%.



15.7 CONVENTIONS, EXHIBITIONS AND INCENTIVE GROUPS

|                          | Number  |         |        |         |         |         |         |
|--------------------------|---------|---------|--------|---------|---------|---------|---------|
|                          | 1993    | 1998    | 1999   | 2000    | 2001    | 2002    | 2003    |
| Events                   |         |         |        |         |         |         |         |
| Conventions              | 702     | 711     | 880    | 2,358   | 3,931   | 7,062   | 7,417   |
| Exhibitions              | 78      | 72      | 51     | 66      | 94      | 73      | 63      |
| Incentive groups         | 3,307   | 2,226   | 2,314  | 2,506   | 1,390   | 1,036   | 726     |
| Foreign Participants     |         |         |        |         |         |         |         |
| Conventions <sup>1</sup> | 34,864  | 36,182  | 61,021 | 148,689 | 172,774 | 232,016 | 394,108 |
| Exhibitions              | 243,476 | 103,199 | 90,549 | 138,945 | 133,506 | 112,310 | 68,232  |
| Incentive Groups         | 117,630 | 110,860 | 99,847 | 127,846 | 76,956  | 42,691  | 26,274  |

Source : Singapore Tourism Board  
1 Figures from 2000 onwards include Association Meetings and Corporate Meetings.







# FINANCE

Banking and finance company statistics compiled from monthly returns submitted to the MAS. The MAS is responsible for the collection and analysis of these data. The MAS is also responsible for the regulation and supervision of the banking and finance industry. The MAS is also responsible for the regulation and supervision of the insurance industry. The MAS is also responsible for the regulation and supervision of the securities market. The MAS is also responsible for the regulation and supervision of the derivatives market. The MAS is also responsible for the regulation and supervision of the commodities market. The MAS is also responsible for the regulation and supervision of the real estate market. The MAS is also responsible for the regulation and supervision of the pension fund industry. The MAS is also responsible for the regulation and supervision of the private equity industry. The MAS is also responsible for the regulation and supervision of the venture capital industry. The MAS is also responsible for the regulation and supervision of the private equity industry. The MAS is also responsible for the regulation and supervision of the venture capital industry.

## Asian Dollar Market

The Asian Dollar Market was officially established in October 1985 when approval was first given for a bank to operate an Asian Currency Unit (ACU). Since then, merchant banks have also been allowed to operate ACUs. As at 31 December 2004, there was a total of 123 ACUs in operation. Data on ACUs are compiled from returns submitted regularly by the ACU operators to the MAS.

## Insurance

The insurance industry is regulated by the MAS under the Insurance Act (Cap 142). Through its regulatory and supervisory activities, the MAS seeks to achieve its dual

Please see text in Section 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 money supply (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 (M2) consists of M1 and net deposits with non-bank financial institutions.



Before 1971, the various monetary functions normally associated with a central bank were performed by several government departments and agencies. To centralise these functions, the Monetary Authority of Singapore (MAS) was established in 1971 to assume the central bank role except for the currency issuing function which remained the responsibility of the Board of Commissioners of Currency Singapore (BCCS). In October 2002, the BCCS was merged with the MAS. The MAS conducts monetary and exchange rate policies appropriate for sustained and non-inflationary economic growth in Singapore. It administers the statutes pertaining to money and banking and formulates policies for the development of a sound banking system and an orderly financial market. It aims to develop Singapore into an international financial centre.

Banking and finance company statistics are compiled from monthly returns submitted to the MAS.

## Asian Dollar Market

The Asian Dollar Market was officially established in October 1968 when approval was first given for a bank to operate an Asian Currency Unit (ACU). Since then, merchant banks have also been allowed to operate ACUs. As at 31 December 2004, there was a total of 155 ACUs in operation. Data on ACUs are compiled from returns submitted regularly by the ACU operators to the MAS.

## Insurance

The insurance industry is regulated by the MAS under the Insurance Act (Cap 142). Through its regulatory and supervisory activities, the MAS seeks to achieve its dual

mandate of promoting a progressive insurance sector, whilst ensuring that insurers manage their operations responsibly and soundly

Insurance business in Singapore comprises life and general insurance. The general insurance business provides coverage for a wide range of risks such as fire, marine and aviation, motor, workmen's compensation and public liability. Life insurers offer primarily investment-linked insurance plans and the traditional whole-of-life, endowment, term and annuity plans.

Data on insurance are compiled by the MAS from returns submitted by all insurance companies in Singapore.

Statistics on banking, finance and insurance may be found in the "Monthly Statistical Bulletin" and MAS annual report published by the MAS, as well as on the MAS website.

## Central Provident Fund

Please see text in Section 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 money supply (M1) and quasi money. The latter includes fixed, savings and other deposits with banks as well as negotiable certificates of deposit in Singapore dollar issued by Singapore banks. Money supply (M3) consists of M2 and net deposits with non-bank financial institutions.



**Asian Currency Unit (ACU) :** Refers to an operational entity of a financial institution which has been granted approval by the MAS to participate in the Asian Dollar Market in Singapore. The ACU is essentially a separate accounting unit of a financial institution set up for its transactions in the Asian Dollar Market.

**Official Foreign Reserves:** Refers to the gross official reserves held by the MAS. The data include gold and foreign exchange, Special Drawing Rights and Singapore's reserve position in the International Monetary Fund (IMF). Prior to May 1999, Singapore's official foreign reserves were valued at book cost. With effect from May 1999, the book value of foreign reserve assets are translated at market exchange rates prevailing at the end of each reporting month.

**Special Drawing Rights (SDR):** Refers to an international reserve asset created by the IMF and allocated to its members in proportion to their quotas as a supplement to existing reserve assets. The SDR is a unit account of the

IMF. The valuation of the SDR is determined on the basis of a basket of four currencies: the US dollar, the Euro, the Japanese Yen and the 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 :** They are included as and when they occur. This is because the period of when bad debts are written off differs from one card issuer to another.



## 16.1 CURRENCY IN CIRCULATION

(End of Period)

|                                          | 1994     | 1999     | 2000     | 2001     | 2002     | 2003     | 2004     |
|------------------------------------------|----------|----------|----------|----------|----------|----------|----------|
| Gross Circulation (\$m)                  | 10,169.6 | 14,209.1 | 13,017.0 | 13,304.4 | 13,741.0 | 14,343.7 | 15,318.5 |
| Notes                                    | 9,520.2  | 13,350.8 | 12,130.7 | 12,393.3 | 12,808.7 | 13,388.7 | 14,344.0 |
| Coins                                    | 649.4    | 858.3    | 886.3    | 911.1    | 932.2    | 955.1    | 974.5    |
| Active Circulation <sup>1</sup> (\$m)    | 9,420.3  | 11,315.4 | 11,289.2 | 11,867.8 | 12,360.3 | 12,838.4 | 13,694.0 |
| Ratio of Active to Gross Circulation (%) | 92.6     | 79.6     | 86.7     | 89.2     | 90.0     | 89.5     | 89.4     |

Source : Monetary Authority of Singapore (MAS)

<sup>1</sup> Refer to gross circulation less amounts held by Government treasuries and banks as well as commemorative coins issued by MAS.

## 16.2 MONEY SUPPLY

(End of Period)

|                                                                | 1994      | 1999      | 2000      | 2001      | 2002      | 2003      | 2004      |
|----------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Million Dollars                                                |           |           |           |           |           |           |           |
| Money Supply (M1)                                              | 23,411.5  | 31,109.1  | 33,261.9  | 36,082.9  | 35,828.2  | 38,722.6  | 44,162.2  |
| Currency in Active Circulation <sup>1</sup>                    | 9,420.3   | 11,315.4  | 11,289.2  | 11,867.8  | 12,360.3  | 12,838.4  | 13,693.9  |
| Demand Deposits of Private Sector                              | 13,991.2  | 19,793.7  | 21,972.7  | 24,215.1  | 23,467.9  | 25,884.2  | 30,468.3  |
| Money Supply (M2)                                              | 93,980.6  | 174,474.4 | 170,897.8 | 180,908.5 | 180,308.1 | 194,828.5 | 206,977.8 |
| M1                                                             | 23,411.5  | 31,109.1  | 33,261.9  | 36,082.9  | 35,828.2  | 38,722.6  | 44,162.2  |
| Quasi-Money                                                    | 70,569.1  | 143,365.3 | 137,635.9 | 144,825.6 | 144,479.9 | 156,105.9 | 162,815.6 |
| Fixed Deposits                                                 | 53,622.8  | 85,988.3  | 83,043.8  | 83,308.2  | 81,597.5  | 89,706.3  | 93,360.2  |
| S\$ Negotiable Cert of Deposits                                | 596.2     | 549.0     | 315.3     | 203.9     | 225.6     | 288.3     | 515.0     |
| Savings and Other Deposits                                     | 16,350.1  | 56,828.0  | 54,276.8  | 61,313.5  | 62,656.8  | 66,111.3  | 68,940.4  |
| Money Supply (M3) <sup>2</sup>                                 | 125,835.1 | 186,183.7 | 182,912.7 | 190,316.9 | 188,815.4 | 200,044.3 | 212,182.6 |
| M2                                                             | 93,980.6  | 174,474.4 | 170,897.8 | 180,908.5 | 180,308.1 | 194,828.5 | 206,977.8 |
| Net Deposits with Non-bank Financial Institutions <sup>3</sup> |           |           |           |           |           |           |           |
| Finance Companies                                              | 11,863.8  | 11,709.3  | 12,014.9  | 9,408.4   | 8,507.3   | 5,215.8   | 5,204.8   |
| Post Office Savings Bank                                       | 19,990.7  | -         | -         | -         | -         | -         | -         |

Source : Monetary Authority of Singapore (MAS)

<sup>1</sup> Exclude commemorative, numismatic and bullion coins issued by MAS and cash held by commercial banks and other financial institutions.<sup>2</sup> The M3 series has been revised to include the Post Office Savings Bank's (POSBank) fixed deposits with MAS.<sup>3</sup> Refer to deposits of finance companies and the POSBank less their deposits with banks. From November 1998, with the acquisition of POSBank by the Development Bank of Singapore, POSBank's data have been incorporated as part of the banking system in M1 and M2 and not as a non-bank financial institution.



16.3 MONETARY SURVEY  
(End of Period)

| Million Dollars      |           |           |           |           |           |            |
|----------------------|-----------|-----------|-----------|-----------|-----------|------------|
|                      | 1999      | 2000      | 2001      | 2002      | 2003      | 2004       |
| Money Supply         |           |           |           |           |           |            |
| M1                   | 31,109.1  | 33,261.9  | 36,082.9  | 35,828.2  | 38,722.6  | 44,162.2   |
| Quasi-Money          | 143,365.3 | 137,635.9 | 144,825.6 | 144,479.9 | 156,105.9 | 162,815.6  |
| M2                   | 174,474.4 | 170,897.8 | 180,908.5 | 180,308.1 | 194,828.5 | 206,977.8  |
| Domestic Credit      | 182,452.0 | 198,063.0 | 231,819.6 | 217,481.5 | 230,204.9 | 238,224.8  |
| Public Sector        | 32,240.4  | 38,969.0  | 46,762.6  | 48,429.1  | 51,950.6  | 52,096.0   |
| Private Sector       | 150,211.6 | 159,094.0 | 185,057.0 | 169,052.4 | 178,254.3 | 186,128.8  |
| Government Deposits  | 60,626.4  | 71,423.6  | 87,195.6  | 96,171.7  | 96,204.4  | 100,343.8  |
| Net Foreign Position | 130,950.0 | 126,342.7 | 132,875.5 | 133,215.4 | 150,044.0 | 172,792.1  |
| Monetary Authorities | 127,137.7 | 137,816.0 | 138,588.9 | 141,481.5 | 161,928.6 | 182,346.1  |
| Banks                | 3,812.3   | -11,473.3 | -5,713.4  | -8,266.1  | -11,884.6 | -9,554.0   |
| Other Items          | -78,301.2 | -82,084.3 | -96,591.0 | -74,217.1 | -89,216.0 | -103,695.3 |

Source : Monetary Authority of Singapore



## 16.4 OFFICIAL FOREIGN RESERVES

(End of Period)

|                                                        | Million Dollars |           |           |           |           |           |           |
|--------------------------------------------------------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                                        | 1994            | 1999      | 2000      | 2001      | 2002      | 2003      | 2004      |
| Total Foreign Reserves                                 | 85,165.5        | 128,457.0 | 139,260.0 | 139,942.1 | 142,721.3 | 163,189.5 | 183,844.0 |
| Special Drawing Rights                                 | 224.6           | 387.5     | 417.1     | 473.6     | 503.2     | 564.1     | 585.5     |
| Reserve Position in the<br>International Monetary Fund | 381.5           | 908.5     | 868.0     | 919.8     | 925.2     | 1,092.1   | 1,092.4   |
| Gold & Foreign Exchange                                | 84,559.4        | 127,161.0 | 137,974.9 | 138,548.7 | 141,292.9 | 161,533.3 | 182,166.1 |
| Total Foreign Reserves (million US\$)                  | 58,304.6        | 77,176.0  | 80,361.9  | 75,800.1  | 82,276.4  | 96,324.0  | 112,807.5 |

Source : Monetary Authority of Singapore

## 16.5 EXCHANGE RATES

(Average for the Year)

| Currency              | 1994   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|
| Singapore Dollar Per  |        |        |        |        |        |        |        |
| Malaysian Ringgit     | 0.5823 | 0.4460 | 0.4537 | 0.4715 | 0.4712 | 0.4585 | 0.4448 |
| US Dollar             | 1.5274 | 1.6950 | 1.7240 | 1.7917 | 1.7906 | 1.7422 | 1.6903 |
| Euro                  | na     | 1.8093 | 1.5930 | 1.6050 | 1.6909 | 1.9703 | 2.1008 |
| Pound Sterling        | 2.3377 | 2.7427 | 2.6134 | 2.5809 | 2.6885 | 2.8467 | 3.0963 |
| 100 Japanese Yen      | 1.4951 | 1.4944 | 1.6001 | 1.4751 | 1.4309 | 1.5044 | 1.5634 |
| 100 Korean Won        | 0.1900 | 0.1426 | 0.1526 | 0.1389 | 0.1435 | 0.1463 | 0.1477 |
| 100 New Taiwan Dollar | 5.7724 | 5.2544 | 5.5231 | 5.3031 | 5.1801 | 5.0639 | 5.0584 |
| Hong Kong Dollar      | 0.1976 | 0.2185 | 0.2212 | 0.2297 | 0.2296 | 0.2237 | 0.2170 |
| Australian Dollar     | 1.1166 | 1.0933 | 1.0031 | 0.9274 | 0.9737 | 1.1355 | 1.2443 |

Source : Monetary Authority of Singapore



## 16.6 ASSETS OF BANKS

(End of Period)

Million Dollars

|                                               | 1994      | 1999      | 2000      | 2001      | 2002      | 2003      | 2004      |
|-----------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total                                         | 201,952.5 | 321,045.4 | 335,816.0 | 373,747.9 | 353,115.0 | 362,528.4 | 398,236.7 |
| Cash                                          | 593.5     | 2,556.7   | 1,488.9   | 1,234.3   | 1,176.1   | 1,210.2   | 1,400.7   |
| Amounts Due from Banks                        | 79,152.9  | 109,650.2 | 116,475.7 | 114,250.7 | 96,807.4  | 97,549.3  | 113,856.1 |
| In Singapore                                  | 28,411.2  | 29,458.6  | 42,535.9  | 27,069.9  | 17,434.6  | 21,357.0  | 32,615.8  |
| Outside Singapore <sup>1</sup>                | 50,741.7  | 80,191.6  | 73,939.8  | 87,180.8  | 79,372.8  | 76,192.3  | 81,240.3  |
| Balances with Monetary Authority of Singapore | 5,564.3   | 7,524.3   | 5,690.9   | 6,970.8   | 6,462.8   | 6,592.0   | 6,775.0   |
| S\$ Negotiable Certificates of Deposit Held   | 71.0      | 162.5     | 149.7     | 167.3     | 34.1      | 163.7     | 300.5     |
| Investments in Securities & Equities          | 19,496.4  | 40,260.7  | 45,463.4  | 70,847.3  | 61,537.9  | 64,133.2  | 68,217.7  |
| In Singapore                                  | 18,326.6  | 37,595.1  | 42,072.6  | 66,988.8  | 55,918.2  | 58,248.5  | 60,176.9  |
| Outside Singapore                             | 1,169.8   | 2,665.6   | 3,390.8   | 3,858.5   | 5,619.7   | 5,884.7   | 8,040.8   |
| Loans & Advances Including Bills Financing    | 90,974.2  | 147,185.5 | 154,042.1 | 162,920.8 | 161,283.4 | 171,443.5 | 179,088.6 |
| Bills Discounted or Purchased <sup>2</sup>    | 6,247.8   | 5,118.1   | 3,584.3   | 3,636.6   | 3,047.7   | 3,889.2   | 5,544.8   |
| Payable outside Singapore                     | 1,947.2   | 1,669.4   | 1,438.6   | 1,898.8   | 1,340.0   | 1,824.4   | 3,139.0   |
| Payable inside Singapore                      | 4,300.6   | 3,448.8   | 2,145.6   | 1,737.8   | 1,707.7   | 2,064.8   | 2,405.8   |
| Loans & Advances                              | 84,726.4  | 142,067.3 | 150,457.9 | 159,284.2 | 158,235.7 | 167,554.3 | 173,543.8 |
| All Other Assets                              | 6,100.3   | 13,705.5  | 12,505.3  | 17,356.6  | 25,813.3  | 21,436.6  | 28,598.1  |

Source : Monetary Authority of Singapore

Note : With effect from November 1998, figures include Post Office Savings Bank.

1 Include Asian Currency Units.

2 Prior to June 1999, data on bills refinancing include bills refinanced by MAS. Excludes bills rediscounted between banks



**16.7 LIABILITIES OF BANKS**

(End of Period)

|                                               | Million Dollars |           |           |           |           |           |           |
|-----------------------------------------------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                               | 1994            | 1999      | 2000      | 2001      | 2002      | 2003      | 2004      |
| Total                                         | 201,952.5       | 321,045.4 | 335,816.0 | 373,747.9 | 353,115.0 | 362,528.4 | 398,236.7 |
| Deposits of Non-bank Customers                | 99,032.2        | 174,454.1 | 171,316.4 | 182,551.4 | 180,138.4 | 194,231.5 | 206,176.3 |
| Demand Deposits                               | 15,787.6        | 21,676.0  | 23,650.0  | 25,966.6  | 25,178.1  | 27,902.2  | 32,775.4  |
| Fixed Deposits                                | 65,083.2        | 92,118.7  | 89,774.6  | 90,845.1  | 87,879.2  | 95,729.2  | 99,829.5  |
| Savings Deposits                              | 16,900.2        | 60,271.8  | 57,477.4  | 65,331.1  | 66,690.8  | 69,861.3  | 72,938.3  |
| Other Deposits                                | 1,261.2         | 387.6     | 414.4     | 408.7     | 390.4     | 738.8     | 633.0     |
| S\$ Negotiable Certificates of Deposit Issued | 667.2           | 711.5     | 465.0     | 371.3     | 259.8     | 452.0     | 815.5     |
| Amounts Due to Banks                          | 77,295.1        | 98,182.8  | 118,034.1 | 118,349.8 | 106,060.1 | 103,559.0 | 114,980.9 |
| In Singapore                                  | 25,125.5        | 23,124.0  | 34,334.2  | 28,544.0  | 18,218.6  | 15,201.7  | 18,815.1  |
| Outside Singapore <sup>1</sup>                | 52,169.6        | 75,058.8  | 83,699.9  | 89,805.8  | 87,841.5  | 88,357.3  | 96,165.8  |
| All Other Liabilities                         | 24,958.1        | 47,697.0  | 46,000.5  | 72,475.5  | 66,656.8  | 64,286.0  | 76,264.1  |

Source : Monetary Authority of Singapore

Note : With effect from November 1998, figures include Post Office Savings Bank.

<sup>1</sup> Include Asian Currency Units.**16.8 BANKS' LOANS AND ADVANCES TO NON-BANK CUSTOMERS BY INDUSTRY**

(End of Period)

|                                      | Million Dollars |           |           |           |           |           |           |
|--------------------------------------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                      | 1994            | 1999      | 2000      | 2001      | 2002      | 2003      | 2004      |
| Total ( Including bills financing)   | 90,974.2        | 147,185.5 | 154,042.1 | 162,920.8 | 161,283.4 | 171,443.5 | 179,088.6 |
| Agriculture, Mining & Quarrying      | 119.8           | 191.4     | 178.7     | 113.0     | 162.1     | 305.5     | 212.5     |
| Manufacturing                        | 8,856.2         | 11,574.7  | 11,620.7  | 11,964.7  | 10,819.2  | 10,595.5  | 9,796.9   |
| Building & Construction <sup>1</sup> | 28,212.7        | 58,598.1  | 64,207.2  | 68,311.6  | 68,486.6  | 76,184.9  | 82,233.5  |
| General Commerce                     | 19,442.6        | 19,949.3  | 18,967.5  | 17,693.0  | 16,887.2  | 16,857.3  | 18,893.8  |
| Transport, Storage & Communications  | 1,902.2         | 3,743.3   | 4,124.2   | 6,148.9   | 4,554.7   | 4,133.8   | 3,956.8   |
| Financial Institutions               | 13,644.4        | 21,062.8  | 20,864.7  | 21,569.2  | 22,926.8  | 21,633.8  | 22,284.4  |
| Professional & Private Individuals   | 13,786.0        | 21,594.2  | 24,722.1  | 27,740.9  | 27,729.5  | 32,783.9  | 32,601.3  |
| Others                               | 5,010.2         | 10,471.7  | 9,356.9   | 9,379.4   | 9,717.3   | 8,948.8   | 9,109.4   |

Source : Monetary Authority of Singapore

Notes : Prior to June 1999, data on bills financing include bills refinanced by Monetary Authority of Singapore.

With effect from November 1998, figures include Post Office Savings Bank.

<sup>1</sup> Include building and building co-operative societies, building developers, real estate agents and housing loans.



## 16.9

## ASSETS AND LIABILITIES OF ASIAN CURRENCY UNITS

(End of Period)

Million US Dollars

|                                | 1994      | 1999      | 2000      | 2001      | 2002      | 2003      | 2004      |
|--------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Assets                         |           |           |           |           |           |           |           |
| Total                          | 416,345.4 | 477,241.7 | 481,693.0 | 465,472.8 | 482,612.3 | 509,145.9 | 581,579.6 |
| Loans to Non-bank Customers    | 145,822.5 | 110,593.9 | 89,446.0  | 79,324.2  | 77,906.3  | 83,602.8  | 93,494.4  |
| Inter-bank Funds               | 234,338.5 | 315,618.9 | 333,728.5 | 323,902.2 | 335,973.7 | 341,917.7 | 385,319.1 |
| In Singapore                   | 17,106.7  | 26,781.7  | 31,221.6  | 33,054.5  | 35,599.0  | 37,151.2  | 43,948.7  |
| Inter-Asian Currency Units     | 36,356.6  | 34,698.2  | 31,512.8  | 30,916.8  | 31,415.4  | 29,360.2  | 31,428.3  |
| Outside Singapore              | 180,875.2 | 254,139.0 | 270,994.1 | 259,930.9 | 268,959.3 | 275,406.3 | 309,942.0 |
| Other Assets                   | 36,184.4  | 51,028.9  | 58,518.5  | 62,246.3  | 68,732.4  | 83,625.3  | 102,766.1 |
| Liabilities                    |           |           |           |           |           |           |           |
| Total                          | 416,345.4 | 477,241.7 | 481,693.0 | 465,472.8 | 482,612.3 | 509,145.9 | 581,579.6 |
| Deposits of Non-bank Customers | 65,787.8  | 121,319.5 | 124,651.5 | 122,472.3 | 126,151.6 | 137,116.0 | 150,354.5 |
| Inter-bank Funds               | 333,537.9 | 323,384.9 | 316,890.4 | 310,151.7 | 320,896.7 | 330,911.0 | 379,900.0 |
| In Singapore                   | 22,676.4  | 25,040.5  | 23,213.6  | 25,746.8  | 28,369.1  | 34,243.1  | 34,771.1  |
| Inter-Asian Currency Units     | 36,354.3  | 34,701.6  | 31,517.0  | 30,926.4  | 31,394.8  | 29,401.4  | 31,457.9  |
| Outside Singapore              | 274,507.2 | 263,642.8 | 262,159.8 | 253,478.5 | 261,132.8 | 267,266.5 | 313,671.1 |
| Other Liabilities              | 17,019.7  | 32,537.4  | 40,151.0  | 32,848.9  | 35,564.0  | 41,118.9  | 51,325.0  |

Source : Monetary Authority of Singapore



# 16.10 ASSETS AND LIABILITIES OF FINANCE COMPANIES

(End of Period)

Million Dollars

|                                                      | 1994     | 1999     | 2000     | 2001     | 2002     | 2003    | 2004    |
|------------------------------------------------------|----------|----------|----------|----------|----------|---------|---------|
| Assets                                               |          |          |          |          |          |         |         |
| Total                                                | 18,997.7 | 20,742.4 | 19,801.1 | 14,961.1 | 13,722.3 | 7,902.7 | 8,308.5 |
| Cash & Balances with Monetary Authority of Singapore | 743.0    | 391.1    | 381.9    | 296.3    | 262.4    | 162.2   | 168.5   |
| Deposits with Banks & Other Institutions             | 2,333.6  | 2,729.7  | 1,664.5  | 1,241.9  | 1,345.7  | 312.3   | 460.7   |
| Securities & Equities                                | 942.9    | 1,691.5  | 1,680.4  | 1,257.0  | 1,115.8  | 687.4   | 709.4   |
| Loans & Advances                                     | 14,708.6 | 15,636.4 | 15,790.9 | 11,983.0 | 10,815.9 | 6,657.2 | 6,878.9 |
| Hire Purchase Finance                                | 5,616.1  | 4,413.3  | 5,700.1  | 4,394.8  | 4,034.4  | 2,459.0 | 2,364.8 |
| Housing Loans                                        | 2,314.3  | 3,500.1  | 2,768.0  | 1,884.7  | 1,547.9  | 756.3   | 952.4   |
| Other Loans & Advances                               | 6,778.2  | 7,723.0  | 7,322.8  | 5,703.5  | 5,233.6  | 3,441.9 | 3,561.7 |
| Other Assets                                         | 269.7    | 293.6    | 283.3    | 183.0    | 182.4    | 83.7    | 90.9    |
| Liabilities                                          |          |          |          |          |          |         |         |
| Total                                                | 18,997.7 | 20,742.4 | 19,801.1 | 14,961.1 | 13,722.3 | 7,902.7 | 8,308.5 |
| Capital & Reserves                                   | 2,202.9  | 3,408.1  | 3,164.9  | 2,425.5  | 2,111.2  | 1,406.3 | 1,442.8 |
| Deposits from Individuals & Institutions             | 13,790.3 | 14,321.9 | 13,645.9 | 10,641.4 | 9,855.7  | 5,530.2 | 5,667.6 |
| Savings Deposits                                     | 320.5    | 344.3    | 194.6    | 202.4    | 222.6    | 149.7   | 145.8   |
| Fixed Deposits                                       | 12,345.5 | 13,875.5 | 13,425.4 | 10,431.4 | 9,612.0  | 5,373.4 | 5,514.1 |
| Other Deposits                                       | 1,124.3  | 102.1    | 26.0     | 7.6      | 21.1     | 7.1     | 7.7     |
| Other Liabilities                                    | 3,004.5  | 3,012.4  | 2,990.3  | 1,894.2  | 1,755.4  | 966.3   | 1,198.1 |

Source : Monetary Authority of Singapore



## 16.11

## FINANCE COMPANIES' LOANS AND ADVANCES BY INDUSTRY

(End of Period)

Million Dollars

|                                     | 1994    | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
|-------------------------------------|---------|---------|---------|---------|---------|---------|---------|
| Total                               | 5,115.2 | 7,008.0 | 6,558.4 | 5,038.8 | 4,692.1 | 3,303.7 | 3,466.2 |
| Agriculture, Mining & Quarrying     | 0.4     | 0.1     | 5.5     | 4.1     | 3.8     | 0.3     | 0.3     |
| Manufacturing                       | 228.5   | 394.4   | 381.0   | 181.7   | 184.5   | 100.2   | 91.4    |
| Building & Construction             | 1,243.7 | 1,636.7 | 1,616.4 | 1,579.2 | 1,435.9 | 1,096.3 | 1,295.4 |
| General Commerce                    | 442.7   | 630.4   | 574.9   | 355.7   | 319.4   | 232.7   | 205.6   |
| Transport, Storage & Communications | 267.3   | 286.6   | 273.3   | 133.6   | 112.7   | 81.2    | 91.6    |
| Financial Institutions              | 742.7   | 1,260.7 | 1,247.1 | 1,061.7 | 1,003.3 | 534.6   | 496.2   |
| Professional & Private Individuals  | 1,907.7 | 2,372.1 | 2,087.1 | 1,434.5 | 1,253.4 | 917.5   | 929.5   |
| Others                              | 282.2   | 427.0   | 373.0   | 288.3   | 379.1   | 340.9   | 356.2   |

Source : Monetary Authority of Singapore



# 16.12 ASSETS AND LIABILITIES OF MERCHANT BANKS

(End of Period)

Million Dollars

|                                        | 1994     | 1999     | 2000     | 2001     | 2002     | 2003     | 2004     |
|----------------------------------------|----------|----------|----------|----------|----------|----------|----------|
| <b>Assets</b>                          |          |          |          |          |          |          |          |
| Total                                  | 45,049.4 | 56,999.6 | 59,871.2 | 56,398.4 | 52,564.3 | 58,203.4 | 59,245.4 |
| Amounts Due from Banks                 | 18,590.9 | 27,337.8 | 30,386.1 | 25,703.8 | 22,156.6 | 22,291.5 | 25,719.0 |
| In Singapore                           | 997.6    | 1,704.7  | 1,554.7  | 1,427.1  | 891.2    | 1,481.6  | 1,394.9  |
| Outside Singapore <sup>1</sup>         | 17,593.3 | 25,633.1 | 28,831.4 | 24,276.7 | 21,265.4 | 20,809.9 | 24,324.2 |
| Loans & Advances to Non-bank Customers | 13,138.8 | 20,846.5 | 21,833.8 | 20,309.8 | 19,674.8 | 24,229.0 | 18,693.3 |
| Securities & Equities                  | 10,880.2 | 6,934.8  | 6,263.4  | 9,354.9  | 9,511.3  | 10,109.9 | 11,991.1 |
| Other Assets                           | 2,439.4  | 1,880.5  | 1,387.9  | 1,029.9  | 1,221.6  | 1,573.0  | 2,842.0  |
| <b>Liabilities</b>                     |          |          |          |          |          |          |          |
| Total                                  | 45,049.4 | 56,999.6 | 59,871.2 | 56,398.4 | 52,564.3 | 58,203.4 | 59,245.4 |
| Capital & Reserves                     | 5,704.7  | 8,008.6  | 8,296.2  | 8,094.0  | 7,742.7  | 8,232.6  | 7,636.0  |
| Amounts Due to Banks                   | 28,668.5 | 26,501.8 | 26,943.4 | 27,617.9 | 24,858.7 | 29,304.7 | 27,320.4 |
| In Singapore                           | 399.0    | 649.0    | 671.8    | 895.1    | 501.3    | 724.3    | 1,225.9  |
| Outside Singapore <sup>1</sup>         | 28,269.5 | 25,852.8 | 26,271.6 | 26,722.8 | 24,357.4 | 28,580.4 | 26,094.5 |
| Borrowings from Non-bank Customers     | 7,453.2  | 18,914.6 | 21,587.0 | 17,861.3 | 17,729.8 | 18,207.0 | 20,406.7 |
| Other Liabilities                      | 3,223.0  | 3,574.6  | 3,044.7  | 2,825.2  | 2,233.1  | 2,459.1  | 3,882.4  |

Source : Monetary Authority of Singapore

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

<sup>1</sup> Include Asian Currency Units.



## 16.13

## DOMESTIC INTEREST RATES

(End of Period)

|                            | Per Cent Per Annum |      |      |      |      |      |      |
|----------------------------|--------------------|------|------|------|------|------|------|
|                            | 1994               | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| <b>Banks <sup>1</sup></b>  |                    |      |      |      |      |      |      |
| Prime Lending Rate         | 6.49               | 5.80 | 5.80 | 5.30 | 5.35 | 5.30 | 5.30 |
| Deposit Rates              |                    |      |      |      |      |      |      |
| 3 Months                   | 3.62               | 1.68 | 1.70 | 1.02 | 0.78 | 0.40 | 0.41 |
| 6 Months                   | 3.89               | 2.04 | 2.04 | 1.33 | 1.05 | 0.52 | 0.52 |
| 12 Months                  | 4.23               | 2.46 | 2.42 | 1.53 | 1.32 | 0.70 | 0.72 |
| Savings Deposit Rate       | 2.93               | 1.34 | 1.28 | 0.77 | 0.44 | 0.24 | 0.23 |
| <b>Finance Companies</b>   |                    |      |      |      |      |      |      |
| Deposit Rates <sup>2</sup> |                    |      |      |      |      |      |      |
| Up to 3 Months             | 3.85               | 1.80 | 1.80 | 1.20 | 0.76 | 0.44 | 0.48 |
| 12 Months                  | 4.52               | 2.80 | 2.74 | 1.65 | 1.50 | 0.79 | 0.98 |

Source : Monetary Authority of Singapore

<sup>1</sup> Refer to the average quoted by 10 leading banks.<sup>2</sup> Refer to the average quoted by 10 leading finance companies.

## 16.14

## CONTRIBUTIONS AND WITHDRAWALS OF CENTRAL PROVIDENT FUND

| Amount                            | Million Dollars |          |          |          |          |           |           |
|-----------------------------------|-----------------|----------|----------|----------|----------|-----------|-----------|
|                                   | 1994            | 1999     | 2000     | 2001     | 2002     | 2003      | 2004      |
| Contributed                       | 11,278.6        | 12,826.6 | 14,092.8 | 18,322.3 | 16,165.7 | 15,870.0  | 15,320.1  |
| Interest Credited                 | 1,337.3         | 3,105.3  | 2,379.8  | 2,489.5  | 2,897.3  | 3,115.3   | 3,375.3   |
| Withdrawn                         | 7,292.0         | 12,788.6 | 14,555.9 | 18,860.4 | 14,821.4 | 11,816.5  | 10,310.3  |
| Refunds and Transfers             | 8.9             | 23.4     | 15.3     | 28.5     | 40.2     | 51.8      | 50.8      |
| Due to Members<br>(End of Period) | 57,649.2        | 88,396.9 | 90,298.3 | 92,221.2 | 96,422.6 | 103,539.6 | 111,873.8 |

Source : Central Provident Fund Board



# 16.15 WITHDRAWALS OF CENTRAL PROVIDENT FUND BY TYPE

|                                      | 1994   | 1999   | 2000    | 2001    | 2002    | 2003    | 2004    |
|--------------------------------------|--------|--------|---------|---------|---------|---------|---------|
| Million Dollars                      |        |        |         |         |         |         |         |
| Total <sup>1</sup>                   | 7,292  | 12,789 | 14,556  | 18,860  | 14,821  | 11,817  | 10,310  |
| Housing Schemes <sup>1</sup>         |        |        |         |         |         |         |         |
| Public Housing                       | 1,875  | 5,428  | 5,443   | 5,263   | 5,286   | 4,512   | 4,125   |
| Residential Properties               | 1,626  | 4,100  | 3,212   | 3,000   | 2,922   | 2,397   | 2,392   |
| Reached 55 Years of Age <sup>2</sup> | 1,079  | 1,159  | 1,219   | 1,731   | 1,532   | 1,871   | 1,723   |
| Leaving Singapore & Malaysia         |        |        |         |         |         |         |         |
| Permanently <sup>3</sup>             | 202    | 347    | 303     | 304     | 308     | 306     | 322     |
| Death                                | 84     | 152    | 145     | 173     | 170     | 191     | 205     |
| Medisave Scheme                      | 276    | 324    | 369     | 372     | 361     | 328     | 367     |
| Private Medical Scheme               | 2      | 24     | 52      | 81      | 107     | 126     | 142     |
| Others <sup>4</sup>                  | 2,150  | 1,255  | 3,814   | 7,936   | 4,135   | 2,086   | 1,034   |
| Number                               |        |        |         |         |         |         |         |
| Housing Schemes <sup>5</sup>         |        |        |         |         |         |         |         |
| Public Housing <sup>6</sup>          | 54,241 | 76,468 | 57,413  | 57,049  | 52,417  | 18,694  | 16,262  |
| Residential Properties               | 18,631 | 36,488 | 19,979  | 17,241  | 19,873  | 19,958  | 26,622  |
| Reached 55 Years of Age <sup>2</sup> | 43,060 | 63,874 | 186,525 | 405,709 | 130,082 | 290,736 | 324,776 |
| Leaving Singapore & Malaysia         |        |        |         |         |         |         |         |
| Permanently <sup>3</sup>             | 5,859  | 7,669  | 7,280   | 8,106   | 9,060   | 8,611   | 9,836   |
| Death                                | 6,101  | 15,376 | 12,649  | 14,373  | 13,967  | 13,872  | 14,245  |

Source : Central Provident Fund Board

1 Refer to net amount withdrawn (gross amount withdrawn less amount refunded) by members in the year.

2 Include first and subsequent withdrawals. In 2000 & 2001, the increase in the number of withdrawals was due to the withdrawal of the government top-up under the CPF Top-up Scheme.

In 2003 & 2004, the increase in the number of withdrawals was largely due to withdrawals of the Economic Restructuring Shares and the relaxation of withdrawal rule from once in 3 years to annually.

3 Include Malaysians leaving Singapore permanently.

4 Include withdrawals by persons who are physically/mentally incapacitated and under the various CPF schemes - Minimum Sum, MediShield, Home Protection, Dependents' Protection, Education, Non-Residential Properties, Investment, Delgro Shares (ceased wef Feb 04), Special Discounted Shares and EldersShield Scheme.

5 Refer only to members who joined the scheme in the year.

6 From 2003, figure refers only to the increase in membership size for the year.



# 16.16

## TURNOVER ON THE SINGAPORE EXCHANGE (EQUITIES)

|                                      | 1999      | 2000      | 2001      | 2002      | 2003      | 2004      |
|--------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| SGX Mainboard (S\$ trades)           |           |           |           |           |           |           |
| Volume (million)                     | 96,608.8  | 78,483.0  | 74,480.0  | 83,851.9  | 166,970.2 | 147,306.5 |
| Multi-industry                       | 7,861.8   | 4,992.4   | 4,864.3   | 6,366.6   | 9,587.3   | 4,555.1   |
| Manufacturing                        | 26,855.2  | 27,899.8  | 28,660.1  | 35,869.2  | 66,111.9  | 53,836.9  |
| Commerce                             | 9,302.1   | 5,620.6   | 4,665.3   | 8,909.7   | 18,012.0  | 14,439.4  |
| Transport/Storage/<br>Communications | 9,823.2   | 8,133.6   | 8,905.0   | 8,049.7   | 18,293.7  | 21,100.6  |
| Finance                              | 5,991.8   | 6,023.3   | 7,983.8   | 4,459.3   | 7,302.5   | 6,085.1   |
| Construction                         | 8,587.9   | 6,221.9   | 3,973.7   | 7,031.1   | 15,505.2  | 8,022.0   |
| Properties                           | 7,889.6   | 3,761.7   | 3,350.1   | 2,941.6   | 4,619.7   | 4,960.4   |
| Hotels/Restaurants                   | 1,629.5   | 638.6     | 490.6     | 379.9     | 1,044.3   | 582.2     |
| Services                             | 2,560.9   | 8,119.7   | 8,658.2   | 7,751.7   | 23,193.1  | 25,471.9  |
| Electricity/Gas/Water                | 202.3     | 56.5      | 32.4      | 32.8      | 36.6      | 18.4      |
| Agriculture                          | 1,131.7   | 428.8     | 695.9     | 264.3     | 561.8     | 1,088.7   |
| Debentures, Bonds<br>& Loan Stocks   | 14,772.7  | 6,586.0   | 2,200.5   | 1,796.1   | 2,702.0   | 7,145.9   |
| Value (million \$)                   | 151,107.5 | 151,179.0 | 113,870.3 | 100,507.5 | 138,315.8 | 160,883.5 |
| Multi-industry                       | 13,804.1  | 9,487.6   | 6,426.2   | 8,663.8   | 9,574.2   | 7,864.5   |
| Manufacturing                        | 33,248.7  | 57,282.2  | 37,067.0  | 38,431.0  | 50,711.6  | 50,386.2  |
| Commerce                             | 7,762.4   | 2,674.1   | 1,773.7   | 3,280.6   | 6,482.3   | 9,250.5   |
| Transport/Storage/<br>Communications | 20,532.3  | 16,547.8  | 17,743.4  | 11,821.9  | 21,149.1  | 33,712.3  |
| Finance                              | 40,043.2  | 41,461.5  | 37,033.1  | 26,801.4  | 30,780.9  | 31,935.8  |
| Construction                         | 5,637.8   | 3,886.3   | 1,231.3   | 1,574.1   | 2,079.6   | 1,672.9   |
| Properties                           | 18,196.8  | 9,419.6   | 7,473.6   | 5,955.0   | 7,963.1   | 10,128.6  |
| Hotels/Restaurants                   | 1,156.3   | 533.2     | 344.1     | 233.0     | 301.4     | 350.9     |
| Services                             | 3,789.3   | 7,569.1   | 3,725.4   | 3,238.3   | 8,414.9   | 12,888.6  |
| Electricity/Gas/Water                | 64.5      | 13.6      | 5.2       | 6.4       | 6.6       | 3.1       |
| Agriculture                          | 433.3     | 162.2     | 94.8      | 30.1      | 137.0     | 313.5     |
| Debentures, Bonds<br>& Loan Stocks   | 6,438.8   | 2,141.8   | 952.5     | 471.9     | 715.1     | 2,376.7   |

(continued on next page)

Source : Singapore Exchange Limited



## 16.16

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

|                                         | 1999     | 2000     | 2001     | 2002     | 2003     | 2004     |
|-----------------------------------------|----------|----------|----------|----------|----------|----------|
| SGX Sesdaq (S\$ Trades)                 |          |          |          |          |          |          |
| Volume (million)                        | 25,398.3 | 12,871.0 | 10,658.7 | 19,223.8 | 39,023.5 | 25,099.5 |
| Manufacturing                           | 13,953.7 | 5,875.6  | 4,219.4  | 9,547.0  | 13,152.9 | 7,701.3  |
| Commerce                                | 2,299.8  | 775.0    | 750.7    | 1,237.8  | 1,738.9  | 1,853.7  |
| Transport / Storage /<br>Communications | 1,551.6  | 63.6     | na       | na       | 735.3    | 248.0    |
| Finance                                 | na       | na       | na       | na       | na       | 380.5    |
| Construction                            | 2,708.0  | 1,132.5  | 1,332.6  | 1,286.9  | 5,085.7  | 5,027.1  |
| Properties                              | na       | na       | na       | na       | 184.4    | 275.2    |
| Hotels / Restaurants                    | 1,517.8  | 274.3    | 118.2    | 689.8    | 361.7    | 133.8    |
| Services                                | 1,939.2  | 4,050.4  | 3,449.6  | 5,870.9  | 13,871.6 | 6,939.3  |
| Mining / Quarrying                      | na       | na       | na       | na       | 1,930.9  | 2,159.7  |
| Debentures, Bonds<br>& Loan Stocks      | 629.5    | 75.1     | 568.2    | 530.9    | 1,682.7  | 307.4    |
| Non S\$ Trades                          | 798.8    | 624.6    | 220.0    | 60.5     | 279.4    | 73.3     |
| Value (million \$)                      | 14,918.3 | 6,604.8  | 2,785.8  | 5,943.0  | 8,858.7  | 6,510.3  |
| Manufacturing                           | 8,473.6  | 3,236.5  | 849.5    | 2,202.0  | 3,044.0  | 2,007.3  |
| Commerce                                | 1,478.1  | 331.0    | 271.9    | 441.1    | 509.2    | 554.7    |
| Transport / Storage /<br>Communications | 878.6    | 29.4     | na       | na       | 337.9    | 152.9    |
| Finance                                 | na       | na       | na       | na       | na       | 252.3    |
| Construction                            | 1,428.3  | 390.5    | 217.7    | 155.3    | 442.1    | 277.6    |
| Properties                              | na       | na       | na       | na       | 55.1     | 13.6     |
| Hotels / Restaurants                    | 966.8    | 73.4     | 25.4     | 217.8    | 126.3    | 58.4     |
| Services                                | 1,255.6  | 2,441.6  | 1,360.4  | 2,876.0  | 3,564.4  | 2,678.1  |
| Mining / Quarrying                      | na       | na       | na       | na       | 535.4    | 481.2    |
| Debentures, Bonds<br>& Loan Stocks      | 186.6    | 10.8     | 46.4     | 48.3     | 225.8    | 29.9     |
| Non S\$ Trades                          | 250.7    | 91.6     | 14.5     | 2.5      | 18.6     | 4.1      |

Source : Singapore Exchange Limited



## 16.17

## SINGAPORE EXCHANGE - SECURITY TRADING SECTORAL INDICES

(2 January 1997=1,000)

(End of Period)

|                                      | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
|--------------------------------------|---------|---------|---------|---------|---------|---------|
| Multi-industry                       | 1,152.2 | 989.8   | 815.6   | 664.9   | 947.1   | 1,158.0 |
| Manufacturing                        | 1,502.5 | 968.8   | 940.4   | 713.9   | 1,056.8 | 1,027.7 |
| Commerce                             | 599.0   | 370.8   | 334.2   | 342.7   | 551.7   | 598.7   |
| Transport/Storage/<br>Communications | 1,264.3 | 1,039.9 | 705.6   | 556.3   | 790.4   | 963.8   |
| Finance                              | 1,835.2 | 1,408.8 | 1,382.1 | 1,195.2 | 1,479.2 | 1,624.1 |
| Construction                         | 802.5   | 414.5   | 275.6   | 180.7   | 286.9   | 265.7   |
| Properties                           | 692.7   | 570.4   | 436.2   | 316.5   | 437.8   | 517.7   |
| Hotels/Restaurants                   | 783.3   | 731.2   | 655.0   | 672.3   | 802.8   | 819.2   |

Source : Singapore Exchange Limited

## 16.18

## PLEDGES AT PAWNSHOPS

|                             | 1994    | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|
| Pledges ('000)              |         |         |         |         |         |         |         |
| Received                    | 2,610.1 | 2,738.8 | 2,696.9 | 2,716.3 | 2,780.2 | 2,842.4 | 2,904.3 |
| Redeemed                    | 2,346.9 | 2,359.0 | 2,311.0 | 2,349.8 | 2,352.2 | 2,403.5 | 2,546.2 |
| Amount of Loans (\$m)       |         |         |         |         |         |         |         |
| Given Out                   | 954.2   | 1,109.0 | 1,113.8 | 1,112.8 | 1,170.5 | 1,263.9 | 1,369.6 |
| Redeemed including Interest | 909.1   | 1,064.4 | 1,053.8 | 1,069.6 | 1,092.1 | 1,174.1 | 1,300.9 |

Source : Registry of Pawnbrokers



# 16.19 LIFE INSURANCE POLICIES

|                                      | 1994    | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
|--------------------------------------|---------|---------|---------|---------|---------|---------|---------|
| Thousand                             |         |         |         |         |         |         |         |
| Policies in Force<br>(End of Period) | 2,126   | 3,555   | 4,009   | 4,746   | 5,889   | 6,136   | 6,921   |
| New Policies                         | 391     | 413     | 617     | 919     | 1,426   | 637     | 705     |
| Policies Matured or Discontinued     | 88      | 166     | 163     | 182     | 284     | 390     | 353     |
| Million Dollars                      |         |         |         |         |         |         |         |
| Policies in Force                    |         |         |         |         |         |         |         |
| Amount Insured<br>(End of Period)    | 125,382 | 230,200 | 252,591 | 283,206 | 301,282 | 315,450 | 331,514 |
| Premiums                             | 2,547   | 4,680   | 5,072   | 5,222   | 5,418   | 5,548   | 5,870   |
| New Policies                         |         |         |         |         |         |         |         |
| Amount Insured                       | 27,237  | 38,728  | 41,293  | 48,002  | 42,007  | 39,029  | 47,212  |
| Premiums                             | 578     | 553     | 706     | 455     | 687     | 500     | 550     |
| Policies Matured or Discontinued     |         |         |         |         |         |         |         |
| Amount Insured                       | 6,817   | 18,096  | 18,902  | 17,391  | 23,931  | 25,106  | 31,159  |
| Premiums                             | 101     | 341     | 314     | 305     | 491     | 370     | 300     |

Source : Monetary Authority of Singapore



## 16.20

## REVENUE AND EXPENDITURE ACCOUNTS OF LIFE INSURANCE FUNDS

|                                                    | Million Dollars |        |        |        |        |        |        |
|----------------------------------------------------|-----------------|--------|--------|--------|--------|--------|--------|
|                                                    | 1994            | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
| Revenue                                            |                 |        |        |        |        |        |        |
| Total                                              | 11,220          | 29,896 | 36,829 | 48,835 | 57,984 | 63,347 | 76,124 |
| Balance of Revenue Account<br>at Beginning of Year | 7,332           | 20,158 | 26,476 | 32,286 | 44,070 | 50,339 | 58,590 |
| Premiums                                           | 3,020           | 6,508  | 8,569  | 14,444 | 11,761 | 10,253 | 11,938 |
| Net Interest, Dividends & Rents                    | 409             | 978    | 1,270  | 1,595  | 1,719  | 2,174  | 2,389  |
| Miscellaneous                                      | 459             | 2,252  | 513    | 510    | 434    | 581    | 3,207  |
| Expenditure                                        |                 |        |        |        |        |        |        |
| Total                                              | 11,220          | 29,896 | 36,829 | 48,835 | 57,984 | 63,347 | 76,124 |
| Claims on Death, Disability<br>& Maturity          | 439             | 925    | 1,035  | 1,321  | 2,043  | 2,396  | 2,726  |
| Surrenders                                         | 161             | 899    | 864    | 869    | 1,444  | 2,544  | 3,001  |
| Cash Bonuses & Annuities                           | 49              | 94     | 122    | 129    | 148    | 175    | 180    |
| Management Expenses                                |                 |        |        |        |        |        |        |
| Commission                                         | 647             | 691    | 705    | 791    | 665    | 646    | 785    |
| Salaries                                           | 78              | 133    | 152    | 183    | 185    | 197    | 235    |
| Others                                             | 157             | 205    | 211    | 247    | 209    | 223    | 233    |
| Miscellaneous                                      | 206             | 473    | 1,453  | 1,225  | 2,951  | -1,429 | 1,841  |
| Balance of Revenue Account<br>at End of Year       | 9,483           | 26,476 | 32,286 | 44,070 | 50,339 | 58,595 | 67,123 |

Source : Monetary Authority of Singapore



# 16.21 ASSETS OF LIFE INSURANCE FUNDS

(End of Period)

|                                                             | Million Dollars |        |        |        |        |        |        |
|-------------------------------------------------------------|-----------------|--------|--------|--------|--------|--------|--------|
|                                                             | 1994            | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
| Total                                                       | 10,481          | 28,453 | 34,761 | 47,920 | 54,216 | 63,720 | 71,836 |
| Land & Buildings                                            | 497             | 1,850  | 1,830  | 1,867  | 2,354  | 2,344  | 2,188  |
| Loans                                                       | 1,621           | 4,017  | 4,676  | 4,939  | 4,450  | 4,025  | 3,685  |
| On Mortgages                                                | 818             | 1,542  | 1,877  | 2,007  | 1,442  | 1,272  | 1,018  |
| On Policies                                                 | 582             | 1,649  | 1,870  | 2,023  | 2,135  | 2,196  | 2,260  |
| Others                                                      | 220             | 826    | 929    | 909    | 873    | 557    | 407    |
| Investments                                                 | 6,124           | 17,411 | 23,085 | 35,226 | 41,315 | 51,276 | 59,341 |
| Government & Statutory Authorities                          | 1,222           | 2,764  | 3,846  | 7,194  | 9,469  | 12,107 | 15,090 |
| Debentures & Shares <sup>1</sup>                            | 4,902           | 14,647 | 19,239 | 28,032 | 31,846 | 39,169 | 44,251 |
| Cash & Deposits                                             | 1,915           | 4,557  | 4,431  | 4,841  | 4,795  | 4,619  | 5,162  |
| Miscellaneous (including Outstanding Premiums) <sup>2</sup> | 324             | 618    | 741    | 1,047  | 1,302  | 1,456  | 1,460  |

Source : Monetary Authority of Singapore

<sup>1</sup> Include other investments.<sup>2</sup> Include furniture.



## 16.22

## PREMIUMS AND CLAIMS OF GENERAL INSURANCE FUNDS

Million Dollars

|                             | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|
| Net Premiums <sup>1</sup>   |       |       |       |       |       |       |       |
| Total                       | 1,099 | 1,208 | 1,277 | 1,410 | 1,671 | 1,815 | 1,672 |
| Marine, Aviation or Transit | 138   | 117   | 135   | 139   | 167   | 172   | 187   |
| Others                      | 961   | 1,091 | 1,142 | 1,271 | 1,504 | 1,643 | 1,485 |
| Fire                        | 111   | 145   | 142   | 153   | 182   | 196   | 179   |
| Motor Vehicles              | 458   | 413   | 459   | 510   | 609   | 685   | 671   |
| Miscellaneous               | 392   | 533   | 541   | 608   | 713   | 762   | 635   |
| Net Claims <sup>2</sup>     |       |       |       |       |       |       |       |
| Total                       | 509   | 706   | 737   | 860   | 810   | 702   | 777   |
| Marine, Aviation or Transit | 48    | 61    | 53    | 63    | 48    | 43    | 57    |
| Others                      | 461   | 645   | 684   | 797   | 762   | 659   | 720   |
| Fire                        | 37    | 44    | 47    | 50    | 30    | 32    | 43    |
| Motor Vehicles              | 264   | 348   | 390   | 427   | 451   | 366   | 371   |
| Miscellaneous               | 160   | 253   | 247   | 320   | 281   | 261   | 306   |

Source : Monetary Authority of Singapore

1 Refer to gross premiums less premiums paid for re-insurance in and out of Singapore.

2 Refer to gross claims paid less recoveries from re-insurance placed in and out of Singapore.



## 16.23

REVENUE AND EXPENDITURE ACCOUNTS OF  
GENERAL INSURANCE FUNDS

|                                                      | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Revenue                                              |       |       |       |       |       |       |       |
| Total                                                | 3,298 | 4,507 | 4,734 | 5,114 | 5,523 | 5,916 | 6,249 |
| Balance of Revenue Account<br>at Beginning of Year   | 661   | 1,171 | 1,294 | 1,312 | 1,397 | 1,511 | 1,758 |
| Reserves for Unexpired Risks<br>at Beginning of Year | 439   | 547   | 542   | 577   | 636   | 766   | 896   |
| Loss Reserves<br>at Beginning of Year                | 932   | 1,317 | 1,358 | 1,403 | 1,408 | 1,450 | 1,672 |
| Net Premiums Written                                 | 1,099 | 1,208 | 1,277 | 1,410 | 1,671 | 1,815 | 1,672 |
| Net Interest, Dividends & Rents                      | 94    | 115   | 135   | 133   | 117   | 127   | 143   |
| Miscellaneous                                        | 73    | 149   | 128   | 279   | 294   | 247   | 108   |
| Expenditure                                          |       |       |       |       |       |       |       |
| Total                                                | 3,298 | 4,507 | 4,734 | 5,114 | 5,523 | 5,916 | 6,249 |
| Net Claims Settled, Loss Reserves<br>at End of Year  | 1,515 | 2,070 | 2,157 | 2,321 | 2,392 | 2,432 | 2,605 |
| Management Expenses                                  |       |       |       |       |       |       |       |
| Commission                                           | 150   | 160   | 149   | 187   | 211   | 231   | 223   |
| Others                                               | 272   | 341   | 322   | 338   | 359   | 363   | 382   |
| Miscellaneous                                        | 112   | 70    | 160   | 180   | 138   | 169   | 165   |
| Balance of Revenue Account<br>at End of Year         | 760   | 1,322 | 1,362 | 1,437 | 1,605 | 1,823 | 1,965 |
| Reserves for Unexpired Risks<br>at End of Year       | 489   | 544   | 584   | 651   | 818   | 898   | 909   |

Source : Monetary Authority of Singapore



## 16.24

## ASSETS OF GENERAL INSURANCE FUNDS

(End of Period)

|                                       | Million Dollars |       |       |       |       |       |       |
|---------------------------------------|-----------------|-------|-------|-------|-------|-------|-------|
|                                       | 1994            | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
| Total                                 | 2,931           | 4,006 | 4,173 | 4,299 | 4,769 | 5,297 | 5,445 |
| Land & Buildings                      | 135             | 222   | 218   | 226   | 199   | 199   | 173   |
| Loans                                 | 42              | 103   | 106   | 106   | 78    | 73    | 64    |
| Investments                           | 1,185           | 1,831 | 2,042 | 2,154 | 2,292 | 2,706 | 3,214 |
| Government & Statutory<br>Authorities | 346             | 465   | 459   | 559   | 833   | 1,221 | 1,668 |
| Debentures & Shares                   | 839             | 1,366 | 1,583 | 1,595 | 1,459 | 1,485 | 1,546 |
| Cash & Deposits                       | 1,155           | 1,383 | 1,308 | 1,348 | 1,704 | 1,855 | 1,564 |
| Miscellaneous                         | 414             | 467   | 499   | 465   | 496   | 464   | 430   |

Source : Monetary Authority of Singapore

## 16.25

## CREDIT AND CHARGE CARDS

|                                         | 1994    | 1999    | 2000     | 2001     | 2002     | 2003     | 2004     |
|-----------------------------------------|---------|---------|----------|----------|----------|----------|----------|
| Main Cards <sup>1</sup> ('000)          | 964.4   | 1,504.5 | 1,684.0  | 1,977.0  | 2,263.9  | 2,504.3  | 2,986.0  |
| Supplementary Cards <sup>1</sup> ('000) | 485.7   | 725.7   | 775.1    | 837.0    | 958.7    | 987.8    | 946.8    |
| Total Card Billings (\$m)               | 5,475.6 | 8,941.9 | 10,536.0 | 11,037.3 | 11,901.3 | 12,422.9 | 14,046.5 |
| Rollover Balance <sup>1</sup> (\$m)     | 705.3   | 1,370.3 | 1,712.0  | 2,076.5  | 2,390.8  | 2,533.1  | 2,607.9  |
| Bad Debts Written Off (\$m)             | 21.6    | 68.7    | 73.6     | 90.8     | 135.4    | 193.7    | 195.9    |

Source : Monetary Authority of Singapore

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











## Government Revenue and Expenditure

The main revenue-collecting agencies are the Singapore Customs and the Inland Revenue Authority of Singapore (IRAS). The former is responsible for the collection of import and excise duties on liquor, tobacco, petroleum and motor vehicles. IRAS is responsible for the collection of income tax, property tax, Goods and Services Tax (GST), estate duty and stamp duties, duties on sweepstakes and lotteries. It also ensures that liabilities of all persons liable for tax, duty, levy or fee are speedily and correctly assessed, and that all such dues are promptly collected.

Residents of Singapore pay personal income tax at progressive rates on the chargeable income of the preceding year after appropriate deductions have been made. Residents in this context refer to persons residing in Singapore. A person who has stayed or exercised employment in Singapore for a period of 183 days or more during the year preceding the year of assessment would also be considered a resident. From the Year of Assessment 2003, the tax rates range from 0 per cent to 22 per cent. Deductions include allowances for earned income, maintenance of wife, children and dependants, delivery and hospitalisation expenses for a new born fourth child born before 1 Aug 2004, life insurance premiums, contributions to the Central Provident Fund (CPF) or other approved pension or provident funds, payments to top up an individual's, his parents' or his grandparents' retirement account under the CPF Minimum Sum Scheme, course fees and foreign maid levy. Special rebates are also available for newborn second, third and fourth children. Non-resident individuals are not entitled to personal reliefs and are normally taxed at a flat rate (the higher of 15 per cent or graduated tax rates on employment income and 22 per cent on other income).

For the Year of Assessment 2003, the corporate income tax rate stands at 22 per cent. Chargeable income (excluding Singapore dividends) of a company up to \$100,000 subject to tax at the rate of 22% is partially exempt from tax as follows:

- (i) up to the first \$10,000 of such income, 75% of the income or an amount up to \$7,500 shall be exempt from tax;
- (ii) up to the next \$90,000 of such income, 50% of the income or an amount up to \$45,000 shall be exempt from tax.

There are various tax incentives in the form of tax exemptions and concessionary tax rates to promote capital investments, export of services, development of financial and research and development and overseas ventures.

The government has concluded comprehensive agreements for the avoidance of double taxation with 50 countries.

The GST rate was increased from 3 per cent to 4 per cent from 1 Jan 2003 and to 5 per cent from 1 Jan 2004. The tax is imposed on almost all goods and services supplied in Singapore except the sale and lease of residential properties and certain financial services which are exempted. International services and exports of goods are zero-rated (i.e. GST is charged at zero per cent).

Government revenue is credited to and current expenditure paid out of the Consolidated Revenue Account.



**Development Fund**

The Development Fund is established by the Development Fund Act (Cap.80, 1995 Revised Edition).

The Development Fund in the Government Financial Statements covers the period from 1 April of the year to 31 March of the following year. Data are obtained from ministries and captured into the government's accounting system which produces the actual figures for the Development Fund.

The sources of funds for the Development Fund are:

- (i) moneys 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) interest and other income from investments of the fund and profits arising from realisation of any such investments; and

- (iv) re-payments of any loans made from the fund or payments of interest on such loans.

The Fund may be used for:

- (i) construction, improvement, acquisition or replacement of capital assets (eg 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.



## 17.1 GENERAL GOVERNMENT FINANCE

|                                        | 1998   | 1999    | 2000    | 2001    | 2002    | 2003    |
|----------------------------------------|--------|---------|---------|---------|---------|---------|
| Deficit (-) or Surplus                 | 4,714  | 10,004  | 16,016  | 7,885   | 8,715   | 11,994  |
| Total Revenue and Grants               | 43,073 | 44,007  | 48,400  | 42,661  | 37,292  | 34,944  |
| Revenue                                | 43,073 | 44,007  | 48,400  | 42,661  | 37,292  | 34,940  |
| Grants                                 | -      | -       | -       | -       | -       | -       |
| Expenditure & Lending minus Repayments | 38,359 | 34,003  | 32,384  | 34,776  | 28,577  | 22,946  |
| Expenditure                            | 27,479 | 26,254  | 30,121  | 33,831  | 29,741  | 29,975  |
| Lending minus Repayments               | 10,880 | 7,749   | 2,263   | 945     | -1,164  | -7,029  |
| Total Financing                        | -4,714 | -10,004 | -16,016 | -7,885  | -8,715  | -11,994 |
| Domestic Financing                     | -4,714 | -10,004 | -16,016 | -7,885  | -8,715  | -11,994 |
| From Monetary Authorities              | 2,295  | -2,125  | -14,674 | -11,796 | -1,091  | -92,018 |
| From Deposit Money Banks               | 1,536  | 4,882   | 5,238   | -7,985  | -17,945 | 67,901  |
| Other Domestic Financing               | -8,545 | -12,761 | -6,580  | 11,896  | 10,321  | 12,123  |
| Foreign Financing                      | -      | -       | -       | -       | -       | -       |

Source : Accountant-General's Department

Notes : Data refer to the financial year which begins in April of the current year and ends in March of the following year.

General government finance includes budgetary and extra-budgetary accounts.

## 17.2 GOVERNMENT FINANCE

|                                        | 1994      | 1999      | 2000      | 2001      | 2002      | 2003      | 2004      |
|----------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Deficit (-) or Surplus                 | 13,926.2  | 5,761.2   | 13,657.9  | 7,442.7   | 6,827.1   | 10,422.9  | 10,127.6  |
| Total Revenue and Grants               | 33,933.1  | 41,163.2  | 47,120.5  | 43,622.7  | 37,124.3  | 33,108.7  | 35,269.0  |
| Revenue                                | 33,933.1  | 41,163.2  | 47,120.5  | 43,622.7  | 37,124.3  | 33,108.7  | 35,269.0  |
| Expenditure & Lending minus Repayments | 20,006.9  | 35,402.0  | 33,462.6  | 36,180.0  | 30,297.2  | 22,685.8  | 25,141.4  |
| Expenditure                            | 15,670.0  | 26,694.9  | 29,369.9  | 35,277.2  | 30,984.4  | 28,634.8  | 30,478.5  |
| Lending minus Repayments               | 4,336.9   | 8,707.1   | 4,092.7   | 902.8     | -687.2    | -5,949.0  | -5,337.1  |
| Total Financing                        | -13,926.2 | -5,761.2  | -13,657.9 | -7,442.7  | -6,827.1  | -10,422.9 | -10,127.6 |
| Total Net Borrowing                    | 5,499.6   | 9,886.5   | 9,679.5   | 13,617.8  | 8,020.7   | 13,168.5  | 16,118.8  |
| Use of Cash Balances                   | -19,425.8 | -15,647.7 | -23,337.4 | -21,060.5 | -14,847.8 | -23,591.4 | -26,246.4 |

Source : Ministry of Finance



# 17.3 GOVERNMENT OPERATING REVENUE

|                                      | Million Dollars |          |          |          |          |          |          |
|--------------------------------------|-----------------|----------|----------|----------|----------|----------|----------|
|                                      | 1994            | 1999     | 2000     | 2001     | 2002     | 2003     | 2004     |
| Total <sup>1</sup>                   | 23,280.3        | 25,597.3 | 31,090.9 | 30,265.7 | 25,401.2 | 24,643.1 | 26,345.8 |
| Tax Revenue                          | 18,605.0        | 21,578.1 | 25,277.4 | 25,108.8 | 21,484.0 | 20,735.9 | 22,698.7 |
| Income Tax                           | 8,603.2         | 11,623.5 | 13,422.9 | 13,463.8 | 11,550.0 | 10,414.2 | 10,218.0 |
| Corporate & Personal<br>Income Tax   | 8,055.4         | 9,315.6  | 12,230.5 | 12,601.6 | 10,926.2 | 10,028.2 | 10,099.6 |
| Contributions by Statutory<br>Boards | 547.8           | 2,307.9  | 1,192.4  | 862.2    | 623.8    | 386.0    | 118.5    |
| Assets Taxes                         | 1,750.1         | 1,181.1  | 1,484.7  | 1,694.2  | 1,241.9  | 1,243.2  | 2,139.4  |
| Taxes on Motor Vehicles <sup>2</sup> | 1,965.5         | 1,337.2  | 2,179.7  | 2,473.3  | 1,559.2  | 1,289.6  | 1,547.1  |
| Customs & Excise Duties              | 1,560.8         | 1,536.5  | 1,766.2  | 1,840.2  | 1,696.5  | 1,802.0  | 1,882.7  |
| Betting Taxes                        | 884.5           | 1,309.3  | 1,452.2  | 1,573.5  | 1,523.0  | 1,566.2  | 1,521.9  |
| Stamp Duty                           | 1,275.0         | 1,280.1  | 1,380.0  | 834.9    | 700.0    | 648.5    | 897.6    |
| Goods & Services Tax <sup>3</sup>    | 1,110.7         | 1,776.7  | 2,244.0  | 2,013.0  | 2,097.9  | 2,724.0  | 3,297.4  |
| Others                               | 1,455.2         | 1,533.7  | 1,347.7  | 1,215.9  | 1,115.6  | 1,048.2  | 1,194.5  |
| Fees & Charges                       | 3,690.8         | 3,732.8  | 5,572.3  | 4,946.6  | 3,751.2  | 3,586.8  | 3,509.0  |
| Other Receipts <sup>4</sup>          | 984.5           | 286.4    | 241.2    | 210.3    | 166.0    | 320.4    | 138.1    |

Source : Ministry of Finance

Operating revenue refers to receipts credited to the Consolidated Revenue Account and Development Fund Account, but excludes interest income, investment income and capital receipts.

<sup>2</sup> Taxes on Motor Vehicles comprise additional registration fees, road tax, special tax on heavy-oil engines, passenger vehicle seating fees and non-motor vehicle licences, but exclude import duties on motor vehicles which are classified under Customs and Excise Duties.

<sup>3</sup> Goods & Services Tax was implemented on 1 April 1994.

<sup>4</sup> Other receipts exclude repayment of loans and advances, interest income, investment income and capital receipts.



# 17.4 GOVERNMENT OPERATING EXPENDITURE

|                                             | 1994    | 1999     | 2000     | 2001     | 2002     | 2003     | 2004     |
|---------------------------------------------|---------|----------|----------|----------|----------|----------|----------|
| Total <sup>1</sup>                          | 9,699.8 | 13,907.4 | 18,896.9 | 17,845.5 | 19,243.9 | 19,236.2 | 19,935.8 |
| Security & External Relations               | 4,496.7 | 7,215.0  | 9,043.7  | 8,890.0  | 9,361.5  | 9,248.9  | 9,347.5  |
| Social Development                          | 4,136.4 | 5,082.3  | 6,180.0  | 7,093.5  | 7,978.6  | 8,202.0  | 8,985.2  |
| Education                                   | 2,422.8 | 2,967.2  | 3,901.9  | 4,366.2  | 4,768.1  | 4,875.6  | 5,161.9  |
| Health                                      | 724.9   | 874.7    | 990.2    | 1,203.9  | 1,624.5  | 1,655.1  | 1,889.9  |
| Community Development, Youth & Sports       | 288.7   | 326.4    | 386.4    | 515.4    | 525.8    | 581.5    | 808.0    |
| Information, Communications & the Arts      |         | 200.4    | 225.9    | 228.6    | 220.9    | 228.2    | 272.4    |
| Environment & Water Resources               | 249.7   | 321.9    | 357.2    | 413.3    | 468.7    | 451.6    | 460.0    |
| National Development                        | 450.3   | 391.8    | 318.3    | 366.1    | 370.6    | 410.0    | 393.0    |
| Economic Development                        | 248.3   | 920.6    | 2,920.3  | 1,053.2  | 1,104.8  | 993.6    | 866.5    |
| Communications & Information Technology     | 44.9    | 458.0    | 2,427.8  | 386.2    | -        | -        | -        |
| Transport                                   | -       | -        | -        | 69.0     | 378.6    | 304.4    | 287.2    |
| Trade & Industry                            | 165.1   | 340.8    | 391.3    | 484.1    | 535.4    | 515.0    | 381.9    |
| Manpower                                    | 38.3    | 121.9    | 101.2    | 113.7    | 160.5    | 145.2    | 168.5    |
| Info-Communications Technology <sup>2</sup> | -       | -        | -        | 0.2      | 30.3     | 29.0     | 29.0     |
| Government Administration                   | 479.7   | 689.4    | 752.9    | 808.8    | 799.0    | 791.7    | 736.6    |
| Pensions                                    | 338.7   | -        | -        | -        | -        | -        | -        |

Source : Ministry of Finance

Notes :

- (a) Refinements have been made to the sectoral classification of ministries from FY2001. The Ministry of Foreign Affairs has been shifted to the newly renamed "Security and External Relations" sector, while the Ministry of National Development has been transferred to the "Social Development" sector. These changes have been made to better reflect the main functions of the two ministries. For the same reason, the sector "General Services" has also been renamed "Government Administration"
- (b) The Ministry of Communications and Information Technology was renamed the Ministry of Transport in November 2001. Its portfolio of Information Technology and Telecommunications had been transferred to the Ministry of Information and the Arts which was also renamed Ministry of Information, Communications and the Arts.

1 Government operating expenditure refers to Expenditure on Manpower, Other Operating Expenditure (excluding expenses on investment and agency fees on land sales), grants-in-aid and pensions (up to first quarter 1995).

2 Expenditure on Info-Communications Technology was previously included in Ministry of Communications & Information Technology.



# 17.5 GOVERNMENT DEVELOPMENT EXPENDITURE

|                                             | Million Dollars |          |         |         |         |         |         |
|---------------------------------------------|-----------------|----------|---------|---------|---------|---------|---------|
|                                             | 1994            | 1999     | 2000    | 2001    | 2002    | 2003    | 2004    |
| Total <sup>1</sup>                          | 4,418.3         | 11,039.3 | 9,077.6 | 9,998.6 | 7,877.1 | 7,953.1 | 8,482.2 |
| Security & External Relations               | 500.9           | 1,563.2  | 1,577.4 | 1,467.8 | 1,067.8 | 1,078.7 | 874.0   |
| Social Development                          | 2,104.1         | 5,596.1  | 4,189.3 | 4,726.1 | 3,889.4 | 4,189.5 | 4,031.5 |
| Education                                   | 753.5           | 1,617.2  | 1,547.2 | 1,643.2 | 1,653.9 | 1,324.5 | 1,224.0 |
| Health                                      | 202.9           | 146.6    | 163.0   | 136.7   | 107.6   | 102.9   | 89.9    |
| Community Development, Youth & Sports       | 97.8            | 116.3    | 100.7   | 118.4   | 111.1   | 109.4   | 89.2    |
| Information, Communications & the Arts      |                 | 139.3    | 127.8   | 161.2   | 136.9   | 143.7   | 109.4   |
| Environment & Water Resources               | 219.2           | 1,046.4  | 579.6   | 552.1   | 686.9   | 925.7   | 1,071.3 |
| National Development                        | 830.7           | 2,530.2  | 1,671.0 | 2,114.5 | 1,193.0 | 1,583.3 | 1,447.6 |
| Economic Development                        | 1,363.9         | 2,888.9  | 2,995.0 | 3,460.0 | 2,452.5 | 2,194.7 | 2,755.4 |
| Communications & Information Technology     | 824.3           | 538.9    | 830.2   | 1,673.5 | -       | -       | -       |
| Transport                                   | -               | -        | -       | 121.7   | 1,395.2 | 1,025.1 | 1,401.7 |
| Trade & Industry                            | 536.4           | 2,338.7  | 2,151.8 | 1,607.6 | 985.9   | 1,088.4 | 1,281.6 |
| Manpower                                    | 3.2             | 11.3     | 13.1    | 57.2    | 47.7    | 61.9    | 49.0    |
| Info-Communications Technology <sup>2</sup> | -               | -        | -       | -       | 23.7    | 19.3    | 22.9    |
| Government Administration                   | 449.4           | 991.1    | 315.9   | 344.7   | 467.4   | 490.2   | 821.4   |

Source : Ministry of Finance

Notes :

- (a) Refinements have been made to the sectoral classification of ministries from FY2001. The Ministry of Foreign Affairs has been shifted to the newly renamed "Security and External Relations" sector, while the Ministry of National Development has been transferred to the "Social Development" sector. These changes have been made to better reflect the main functions of the two ministries. For the same reason, the sector "General Services" has also been renamed "Government Administration"
- (b) The Ministry of Communications and Information Technology was renamed the Ministry of Transport in November 2001. Its portfolio of Information Technology and Telecommunications had been transferred to the Ministry of Information and the Arts which was also renamed Ministry of Information, Communications and the Arts.

<sup>1</sup> Government Development Expenditure excludes loans to statutory boards and industrial and commercial enterprises.

From FY2001, land-related expenditure items are no longer classified under Development Expenditure.

These expenditures are therefore excluded from April 2001 onwards.

<sup>2</sup> Expenditure on Info-Communications Technology was previously included in Ministry of Communications & Information Technology.



## 17.6 SOURCES AND USES OF DEVELOPMENT FUND

|                                         | Million Dollars |        |        |        |        |        |        |
|-----------------------------------------|-----------------|--------|--------|--------|--------|--------|--------|
|                                         | 1994            | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
| Balance (Beginning of Financial Year)   | 44,431          | 31,721 | 42,613 | 52,728 | 53,808 | 58,981 | 72,239 |
| Sources                                 |                 |        |        |        |        |        |        |
| Total                                   | 3,070           | 33,042 | 27,631 | 18,106 | 19,579 | 25,728 | 9,644  |
| Consolidated Revenue Account            | -               | 22,985 | 17,461 | 10,828 | 11,084 | 8,996  | -      |
| Consolidated Loan Account               | -               | -      | -      | -      | -      | -      | -      |
| Others                                  | 3,070           | 10,057 | 10,170 | 7,278  | 8,495  | 16,732 | 9,644  |
| Uses                                    |                 |        |        |        |        |        |        |
| Total                                   | 11,150          | 22,149 | 17,516 | 17,026 | 14,406 | 12,470 | 7,665  |
| Government Development Expenditure      | 3,971           | 10,211 | 9,494  | 10,472 | 8,679  | 9,164  | 5,396  |
| Loans to Statutory Boards & Enterprises | 7,179           | 11,938 | 8,022  | 6,554  | 5,727  | 3,306  | 2,269  |

Source : Accountant-General's Department

Note : Data refer to the financial year which begins in April of the current year and ends in March of the following year.

Data for 2004 refer to the period from 1 April 2004 to 31 December 2004.

## 17.7 GOVERNMENT DEBT BY INSTRUMENT (End of Period)

|                                      | Million Dollars |           |           |           |           |           |           |
|--------------------------------------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                      | 1994            | 1999      | 2000      | 2001      | 2002      | 2003      | 2004      |
| Total                                | 75,344.4        | 125,777.1 | 134,370.4 | 148,999.9 | 156,751.3 | 169,331.9 | 186,598.2 |
| Domestic Debt                        | 75,339.7        | 125,777.1 | 134,370.4 | 148,999.9 | 156,751.3 | 169,331.9 | 186,598.2 |
| Registered Stocks & Bonds            | 56,501.9        | 86,548.1  | 91,011.2  | 128,921.5 | 136,218.5 | 146,600.4 | 160,462.4 |
| Treasury Bills                       | 5,000.0         | 12,160.0  | 13,380.0  | 14,650.0  | 16,750.0  | 17,200.0  | 20,200.0  |
| Advance Deposits                     | 13,837.8        | 27,069.0  | 29,979.2  | 5,428.4   | 3,782.8   | 5,531.5   | 5,935.8   |
| External Debt <sup>1</sup>           | 4.7             | -         | -         | -         | -         | -         | -         |
| UK Special Aid.                      | 4.7             | -         | -         | -         | -         | -         | -         |
| World Bank                           | -               | -         | -         | -         | -         | -         | -         |
| Asian Development Bank               | -               | -         | -         | -         | -         | -         | -         |
| Others                               | -               | -         | -         | -         | -         | -         | -         |
| Memorandum item :<br>Debt Guarantees | -               | 1,564.2   | 350.4     | 317.3     | 251.9     | 208.6     | -         |

Source : Accountant-General's Department

Monetary Authority of Singapore

1 Figures were computed at market rates.



## 17.8

## GOVERNMENT DEBT BY MATURITY

(End of Period)

|                              | Million Dollars |          |           |           |           |           |           |
|------------------------------|-----------------|----------|-----------|-----------|-----------|-----------|-----------|
|                              | 1994            | 1999     | 2000      | 2001      | 2002      | 2003      | 2004      |
| Domestic Debt                |                 |          |           |           |           |           |           |
| (excluding Advance Deposits) | 61,501.9        | 98,708.1 | 104,391.2 | 143,571.5 | 152,968.5 | 163,800.4 | 180,662.4 |
| 1 year maturity or less      | 9,850.0         | 19,797.0 | 20,460.0  | 22,786.8  | 31,274.4  | 34,440.0  | 36,900.0  |
| More than 1 year maturity    | 51,651.9        | 78,911.1 | 83,931.2  | 120,784.7 | 121,694.1 | 129,360.4 | 143,762.4 |
| External Debt <sup>1</sup>   | 4.7             | -        | -         | -         | -         | -         | -         |
| 1 year maturity or less      | 4.7             | -        | -         | -         | -         | -         | -         |
| More than 1 year maturity    | -               | -        | -         | -         | -         | -         | -         |

Source : Accountant-General's Department  
Monetary Authority of Singapore

<sup>1</sup> Figures were computed at market rates.

## 17.9

## REVENUE COLLECTED BY SINGAPORE CUSTOMS

|                            | Million Dollars |       |       |       |       |       |       |
|----------------------------|-----------------|-------|-------|-------|-------|-------|-------|
|                            | 1994            | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
| Total                      | 1,602           | 1,584 | 1,789 | 1,894 | 1,706 | 1,830 | 1,958 |
| Customs & Excise Duties    |                 |       |       |       |       |       |       |
| Liquors                    | 302             | 343   | 340   | 347   | 340   | 357   | 347   |
| Tobacco                    | 327             | 427   | 452   | 518   | 590   | 678   | 732   |
| Petroleum                  | 565             | 462   | 485   | 482   | 391   | 391   | 384   |
| Motor Vehicles             | 375             | 317   | 473   | 507   | 359   | 378   | 456   |
| Others                     | 3               | 4     | 5     | 5     | 4     | 3     | 3     |
| Entertainment Duties       | 9               | 5     | 7     | 5     | -     | -     | -     |
| Film Hire Duty             | 4               | -     | -     | -     | -     | -     | -     |
| Licence Fees               | 12              | 15    | 16    | 21    | 12    | 16    | 17    |
| Miscellaneous <sup>1</sup> | 5               | 12    | 11    | 9     | 9     | 8     | 20    |

Source : Singapore Customs

<sup>1</sup> Include Fines, Warehouse Rents & Miscellaneous Receipts.

With effect from May 2003, Permit Fees, Import Authorization and Print Certificate of Origin are included.



# 17.10 REVENUE COLLECTED BY INLAND REVENUE AUTHORITY

|                                     | Million Dollars |        |        |        |        |        |        |
|-------------------------------------|-----------------|--------|--------|--------|--------|--------|--------|
|                                     | 1994            | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
| Total                               | 13,081          | 15,081 | 18,734 | 18,568 | 16,502 | 16,224 | 18,137 |
| Income Tax <sup>1</sup>             | 8,057           | 9,444  | 12,209 | 12,522 | 10,931 | 10,033 | 10,105 |
| Property Tax <sup>1</sup>           | 1,706           | 1,147  | 1,409  | 1,578  | 1,165  | 1,171  | 1,680  |
| Goods & Services Tax <sup>1,2</sup> | 1,110           | 1,806  | 2,231  | 2,005  | 2,098  | 2,728  | 3,473  |
| Estate Duty                         | 39              | 46     | 84     | 91     | 77     | 72     | 459    |
| Stamp Duty                          | 1,282           | 1,313  | 1,381  | 798    | 700    | 649    | 898    |
| Betting Duties                      | 752             | 1,081  | 1,188  | 1,314  | 1,282  | 1,311  | 1,260  |
| Private Lotteries Duties            | 135             | 243    | 232    | 260    | 249    | 259    | 262    |
| Miscellaneous Receipts <sup>3</sup> | -               | -      | 1      | 1      | 1      | 1      | 1      |

Source : Inland Revenue Authority of Singapore.

1 Data include Compounding Fees.

2 Goods & Services tax was implemented on 1 April 1994.

3 Prior to April 1999, it was included under Property Tax.



# 17.11 TAXABLE INDIVIDUALS BY ASSESSED INCOME GROUP, 2003

|                         | Assessed Income Group (\$) |                |               |               |               |               |
|-------------------------|----------------------------|----------------|---------------|---------------|---------------|---------------|
|                         | Total                      | 20,000 & below | 20,001-25,000 | 25,001-30,000 | 30,001-40,000 | 40,001-50,000 |
| Taxpayers (No)          | 715,594                    | 21,114         | 27,501        | 61,223        | 162,559       | 119,524       |
| Resident                | 689,469                    | -              | 26,650        | 60,616        | 161,667       | 118,921       |
| Non-resident            | 26,125                     | 21,114         | 851           | 607           | 892           | 603           |
| Assessable Income (\$m) | 52,409                     | 112            | 635           | 1,706         | 5,655         | 5,329         |
| Resident                | 51,930                     | -              | 616           | 1,690         | 5,624         | 5,302         |
| Non-resident            | 478                        | 112            | 19            | 17            | 31            | 27            |
| Net Tax Assessed (\$m)  | 3,047                      | 18             | 5             | 10            | 45            | 68            |
| Resident                | 2,973                      | -              | 2             | 8             | 40            | 63            |
| Non-resident            | 74                         | 18             | 3             | 3             | 5             | 4             |

|                         | Assessed Income Group (\$) |               |                |                 |                   |                   |
|-------------------------|----------------------------|---------------|----------------|-----------------|-------------------|-------------------|
|                         | 50,001-60,000              | 60,001-80,000 | 80,001-100,000 | 100,001-200,000 | 200,001-1,000,000 | 1,000,001 & above |
| Taxpayers (No)          | 76,436                     | 90,161        | 47,566         | 75,184          | 32,875            | 1,451             |
| Resident                | 76,048                     | 89,639        | 47,219         | 74,603          | 32,670            | 1,436             |
| Non-resident            | 388                        | 522           | 347            | 581             | 205               | 15                |
| Assessable Income (\$m) | 4,177                      | 6,219         | 4,250          | 10,239          | 11,012            | 3,073             |
| Resident                | 4,155                      | 6,183         | 4,219          | 10,160          | 10,948            | 3,033             |
| Non-resident            | 21                         | 36            | 31             | 79              | 64                | 41                |
| Net Tax Assessed (\$m)  | 79                         | 174           | 165            | 694             | 1,414             | 374               |
| Resident                | 76                         | 169           | 160            | 681             | 1,405             | 369               |
| Non-resident            | 3                          | 6             | 5              | 12              | 9                 | 5                 |

Source : Inland Revenue Authority of Singapore



# 17.12 TAXABLE COMPANIES BY ASSESSED INCOME GROUP, 2003

|                         | Assessed Income Group (\$) |                |               |               |               |                |
|-------------------------|----------------------------|----------------|---------------|---------------|---------------|----------------|
|                         | Total                      | 10,000 & below | 10,001-20,000 | 20,001-30,000 | 30,001-60,000 | 60,001-100,000 |
| Companies (No)          | 26,395                     | 6,414          | 2,773         | 1,970         | 3,500         | 2,343          |
| Resident                | 25,026                     | 6,210          | 2,611         | 1,849         | 3,279         | 2,229          |
| Non-resident            | 1,369                      | 204            | 162           | 121           | 221           | 114            |
| Assessable Income (\$m) | 42,670                     | 23             | 40            | 48            | 150           | 186            |
| Resident                | 37,955                     | 22             | 38            | 46            | 141           | 177            |
| Non-resident            | 4,715                      | 1              | 2             | 3             | 9             | 9              |
| Net Tax Assessed (\$m)  | 6,295                      | 3              | 5             | 7             | 22            | 25             |
| Resident                | 5,570                      | 2              | 5             | 6             | 20            | 24             |
| Non-resident            | 725                        | -              | -             | -             | 1             | 1              |

|                         | Assessed 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)          | 3,822                      | 1,218           | 1,463             | 1,490               | 446                 | 956               |
| Resident                | 3,628                      | 1,151           | 1,379             | 1,403               | 423                 | 864               |
| Non-resident            | 194                        | 67              | 84                | 87                  | 23                  | 92                |
| Assessable Income (\$m) | 669                        | 471             | 1,050             | 2,553               | 1,765               | 35,713            |
| Resident                | 636                        | 445             | 989               | 2,413               | 1,671               | 31,377            |
| Non-resident            | 33                         | 26              | 61                | 140                 | 95                  | 4,337             |
| Net Tax Assessed (\$m)  | 119                        | 93              | 213               | 515                 | 340                 | 4,953             |
| Resident                | 113                        | 88              | 201               | 486                 | 323                 | 4,302             |
| Non-resident            | 6                          | 5               | 13                | 29                  | 18                  | 651               |

Source : Inland Revenue Authority of Singapore



## PRICES

### Consumer Price Index (CPI) and Inflation

The Consumer Price Index measures the price changes over time of a basket of goods and services commonly bought by the average household. The latest index (revised period 2004=100) was compiled on the basis of the eighth household expenditure survey conducted from October 2002 to September 2003. The expenditure records of some 2,400 households representing the middle 90 per cent of all households by expenditure distribution, were used to derive the weighting pattern, as well as the composition of goods and services in the basket. The remaining top and bottom 5 per cent of the households, as well as one-person households, were excluded as the consumption pattern of these households differed greatly from the average households. To derive the weighting pattern for the new reference period, the expenditure survey was planned to 2004. The price level is taken into account the price changes between 2002/03 and 2004.

The CPI is compiled monthly by the Singapore Department of Statistics using the base-weighted Laspeyres formula. The yearly index is the simple average of the twelve monthly indices. This yearly index is compared with that of the preceding year to obtain the annual rate of inflation for the year.

The monthly CPI is published in the Department's "Monthly Digest of Statistics". More detailed CPI data and analysis of consumer price changes are available in the monthly report on the Consumer Price Index. Information on the methodology can be obtained from the Information Paper "Rebasing and Revision of the Consumer Price Index (Base Year 2004 = 100)".

### Retail Prices

Retail prices of selected goods are collected regularly from markets, supermarkets, provision shops, semi-mini malls and other retail outlets located in various housing estates and retail centres. With effect from 1 April

1994, retail prices are total-gross-includes of goods and services tax.

Prices of goods and services are collected from a variety of sources. The frequency of pricing depends on the price stability of the items. To ensure greater accuracy, items with volatile prices are priced more frequently. Prices of perishable food items such as fish, vegetables, meat and poultry are collected twice every week. For provision items, such as consumer durables, the price is collected once a month. For items with infrequent price fluctuations, eg. house rents, school fees, utilities charges, bus fares, their prices are collected quarterly. Prices for land and water transport services are collected semi-annually. The compilation of the 2004-based CPI.

The Singapore Department of Statistics is compiling the monthly CPI for the year ending 2004. The CPI is compiled monthly by the Singapore Department of Statistics using the base-weighted Laspeyres formula. The yearly index is the simple average of the twelve monthly indices. This yearly index is compared with that of the preceding year to obtain the annual rate of inflation for the year.

The weights for the Singapore manufactured products are derived from the production data collected in the 2000 Census of Industrial Production. The weights for the Domestic Supply Price Index are made proportionate to the combined value of retail imports and locally manufactured goods sold in the domestic market. Ex-factory prices are collected from selected local manufacturers every month.

Indices at the commodity division and commodity section level are published in the Department's "Monthly Digest of Statistics". Analyses of price changes are available in the monthly report on Singapore Manufactured Products & Domestic Supply Price Index.



## Consumer Price Index (CPI)

The Consumer Price Index measures the price changes over time of a fixed basket of goods and services commonly bought by the majority of the households. The latest series (with reference period 2004=100) was compiled based on the results of the eighth Household Expenditure Survey conducted from October 2002 to September 2003. The expenditure records of some 5,460 households representing the middle 90 per cent of all households by expenditure distribution, were used to derive the weighting pattern, as well as the composition of goods and services in the CPI basket. The remaining top and bottom 5 per cent of the households, as well as one-person households were excluded as the consumption pattern of these households differed greatly from the average households. To derive the weighting pattern for the new reference period, the expenditure values were updated to 2004's price level by taking into account the price changes between 2002/03 and 2004.

The CPI is compiled monthly by the Singapore Department of Statistics using the base-weighted Laspeyres' formula. The yearly index is the simple average of the twelve monthly indices. This yearly index is compared with that of the preceding year to obtain the annual rate of inflation for the year.

The monthly CPI is published in the Department's "Monthly Digest of Statistics". More detailed CPI data and analysis of consumer price changes are available in the monthly report on the Consumer Price Index. Information on the methodology can be obtained from the Information Paper "Rebasing and Revision of The Consumer Price Index (Base Year 2004 = 100)".

## Retail Prices

Retail prices of selected goods are collected regularly from markets, supermarkets, provision shops, econ-mini marts and other retail outlets located in various housing estates and retail centres. With effect from 1 April

1994, retail prices refer to total prices inclusive of goods and services tax.

The frequency of pricing depends on the price stability of the items. To ensure greater accuracy, items with volatile prices are priced more frequently. Prices of perishable food items such as fish, vegetables, meat and poultry are collected thrice every week. For provision items, sundries, clothings, consumer durables etc. whose prices are more stable, they are priced once a month. For items with infrequent price fluctuations eg. house rents, school fees, utilities charges, bus fares, their prices are obtained quarterly, yearly or as and when their prices/rates are revised. A total of 5,170 items or varieties are selected for regular pricing for the compilation of the 2004-based CPI.

## Singapore Manufactured Products & Domestic Supply Price Indices

The Singapore Manufactured Products Price Index measures the change 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 indices are compiled using the fixed-weighted Laspeyres' formula in the base or reference year 2000.

The weights for the Singapore manufactured products are derived from the production data collected in the 2000 Census of Industrial Production. The weights for the Domestic Supply Price Index are made proportionate to the combined value of retained imports and locally manufactured goods sold in the domestic market. Ex-factory prices are collected from selected local manufacturers every month.

Indices at the commodity division and commodity section level are published in the Department's "Monthly Digest of Statistics". Analyses of price changes are available in the monthly report on Singapore Manufactured Products & Domestic Supply Price Indices.



18 PRICES (cont'd)

Import & Export Price Indices

The Import & Export Price Indices track the price movement of imported and exported goods on a monthly basis. For imported products, the prices are valued at cif (cost, insurance and freight). Prices for exported products are valued at fob (free on board). The indices are compiled using the fixed-weighted Laspeyres' formula in the base or reference year 2000.

The weights for exported and imported products are derived from imports and exports statistics in 2000. Monthly prices are collected from selected importers and exporters.

Indices at the commodity division and commodity section level are published in the Department's "Monthly Digest of Statistics". Analyses of price changes are available in the monthly report on Import & Export Price Indices.

Building Materials Price Index

The Building Materials Price Index tracks price movements of ex-factory prices of Singapore manufactured building materials and CIF (Cost Insurance Freight) prices of Singapore imported building materials. The weights were based on the 1984 distribution pattern of building materials.

Other Price Indices

The price indices of selected farm products are compiled by the Singapore Department of Statistics based on data supplied by the Agri-Food & Veterinary Authority of Singapore. The collection and compilation of data for the Property Price Index and Commercial Property Rental Index are undertaken by the Urban Redevelopment Authority (URA).



# 18.1 CONSUMER PRICE INDEX

|                                      | Weights <sup>1</sup> | 1994  | 1999 | 2000  | 2001  | 2002  | 2003  | 2004  |
|--------------------------------------|----------------------|-------|------|-------|-------|-------|-------|-------|
| (2004 = 100)                         |                      |       |      |       |       |       |       |       |
| All Items                            | 10,000               | 91.4  | 96.0 | 97.2  | 98.2  | 97.8  | 98.3  | 100.0 |
| Food                                 | 2,338                | 89.4  | 96.4 | 96.9  | 97.4  | 97.4  | 97.9  | 99.9  |
| Clothing & Footwear                  | 357                  | 100.1 | 99.5 | 98.7  | 99.2  | 99.4  | 99.8  | 99.9  |
| Housing                              | 2,126                | 95.6  | 99.5 | 101.5 | 102.8 | 100.6 | 100.1 | 100.0 |
| Transport & Communication            | 2,176                | 99.8  | 99.0 | 101.1 | 99.7  | 98.7  | 98.8  | 100.0 |
| Education & Stationery               | 819                  | 78.4  | 89.4 | 90.5  | 92.5  | 93.8  | 95.9  | 100.0 |
| Health Care                          | 525                  | 75.7  | 85.5 | 86.8  | 89.6  | 92.5  | 94.4  | 100.0 |
| Recreation & Others                  | 1,659                | 88.3  | 92.1 | 93.5  | 96.6  | 96.9  | 97.7  | 100.0 |
| Percentage Change Over Previous Year |                      |       |      |       |       |       |       |       |
| All Items                            | 10,000               | 3.1   | -    | 1.3   | 1.0   | -0.4  | 0.5   | 1.7   |
| Food                                 | 2,338                | 3.6   | 0.9  | 0.6   | 0.5   | -     | 0.6   | 2.0   |
| Clothing & Footwear                  | 357                  | 2.2   | -1.9 | -0.8  | 0.5   | 0.2   | 0.4   | 0.1   |
| Housing                              | 2,126                | 1.3   | -1.4 | 2.0   | 1.3   | -2.2  | -0.5  | -0.1  |
| Transport & Communication            | 2,176                | 6.7   | -0.6 | 2.1   | -1.4  | -1.0  | 0.1   | 1.2   |
| Education & Stationery               | 819                  | 2.5   | 1.5  | 1.3   | 2.2   | 1.4   | 2.3   | 4.2   |
| Health Care                          | 525                  | 3.1   | 0.6  | 1.5   | 3.3   | 3.2   | 2.0   | 6.0   |
| Recreation & Others                  | 1,659                | 1.7   | 0.8  | 1.5   | 3.2   | 0.3   | 0.9   | 2.3   |

1 Derived by relating expenditure on the item to the total monthly household expenditure based on the results of 2002/03 Household Expenditure Survey and updated to 2004's price level. These weights are used in the computation of the indices for the year 2004. Indices for the year 1994 and 1999 - 2003 relate to the consumption patterns of 1992/93 and 1997/98 respectively.



## 18.2

CONSUMER PRICE INDEX FOR HOUSEHOLDS IN DIFFERENT  
INCOME GROUPS

| Income Group                              | All Items | Food  | Clothing | Housing | Transport &<br>Comm -<br>unication | Education &<br>Stationery | Health | Miscel-<br>laneous |
|-------------------------------------------|-----------|-------|----------|---------|------------------------------------|---------------------------|--------|--------------------|
| Weights <sup>1</sup> Per 10,000           |           |       |          |         |                                    |                           |        |                    |
| Lowest 20%                                | 10,000    | 3,323 | 361      | 2,635   | 1,369                              | 687                       | 373    | 1,252              |
| Middle 60%                                | 10,000    | 2,759 | 452      | 2,061   | 2,136                              | 677                       | 339    | 1,576              |
| Highest 20%                               | 10,000    | 1,797 | 380      | 2,251   | 2,779                              | 734                       | 308    | 1,751              |
| Consumer Price Index (Nov 97-Oct 98 =100) |           |       |          |         |                                    |                           |        |                    |
| 2001                                      |           |       |          |         |                                    |                           |        |                    |
| Lowest 20%                                | 103.3     | 101.5 | 97.8     | 104.2   | 101.4                              | 107.1                     | 105.3  | 107.1              |
| Middle 60%                                | 101.8     | 101.8 | 97.5     | 103.0   | 97.0                               | 105.1                     | 105.5  | 105.6              |
| Highest 20%                               | 99.7      | 102.4 | 98.2     | 98.5    | 94.3                               | 105.0                     | 106.0  | 103.8              |
| 2002                                      |           |       |          |         |                                    |                           |        |                    |
| Lowest 20%                                | 103.1     | 101.4 | 98.1     | 102.3   | 101.4                              | 108.8                     | 108.9  | 107.6              |
| Middle 60%                                | 101.5     | 101.8 | 97.7     | 101.0   | 96.4                               | 106.5                     | 108.9  | 106.0              |
| Highest 20%                               | 99.0      | 102.4 | 98.6     | 95.9    | 93.2                               | 106.5                     | 108.1  | 103.9              |
| 2003                                      |           |       |          |         |                                    |                           |        |                    |
| Lowest 20%                                | 104.2     | 101.9 | 98.5     | 102.6   | 102.3                              | 111.3                     | 111.2  | 111.6              |
| Middle 60%                                | 102.1     | 102.4 | 98.1     | 101.0   | 96.2                               | 108.9                     | 111.0  | 107.3              |
| Highest 20%                               | 98.6      | 103.2 | 99.0     | 94.2    | 91.6                               | 110.0                     | 110.1  | 103.4              |
| 2004                                      |           |       |          |         |                                    |                           |        |                    |
| Lowest 20%                                | 106.6     | 104.1 | 98.4     | 102.9   | 103.5                              | 116.6                     | 118.2  | 117.6              |
| Middle 60%                                | 103.6     | 104.4 | 98.2     | 101.1   | 96.0                               | 113.5                     | 118.1  | 110.2              |
| Highest 20%                               | 98.9      | 105.5 | 99.4     | 93.3    | 89.7                               | 115.2                     | 113.6  | 104.1              |
| Percentage Change Over Previous Year      |           |       |          |         |                                    |                           |        |                    |
| 2002                                      |           |       |          |         |                                    |                           |        |                    |
| Lowest 20%                                | -0.2      | -0.1  | 0.3      | -1.8    | -                                  | 1.5                       | 3.4    | 0.5                |
| Middle 60%                                | -0.2      | -     | 0.3      | -1.9    | -0.7                               | 1.4                       | 3.3    | 0.4                |
| Highest 20%                               | -0.7      | -     | 0.4      | -2.6    | -1.2                               | 1.4                       | 2.0    | 0.1                |
| 2003                                      |           |       |          |         |                                    |                           |        |                    |
| Lowest 20%                                | 1.1       | 0.5   | 0.4      | 0.2     | 0.9                                | 2.3                       | 2.1    | 3.6                |
| Middle 60%                                | 0.6       | 0.6   | 0.4      | -       | -0.1                               | 2.2                       | 1.8    | 1.2                |
| Highest 20%                               | -0.4      | 0.8   | 0.4      | -1.8    | -1.7                               | 3.3                       | 1.9    | -0.5               |
| 2004                                      |           |       |          |         |                                    |                           |        |                    |
| Lowest 20%                                | 2.3       | 2.2   | -0.1     | 0.3     | 1.2                                | 4.8                       | 6.3    | 5.4                |
| Middle 60%                                | 1.5       | 2.0   | -        | 0.1     | -0.3                               | 4.2                       | 6.4    | 2.7                |
| Highest 20%                               | 0.3       | 2.2   | 0.4      | -1.0    | -2.0                               | 4.7                       | 3.1    | 0.7                |

<sup>1</sup> Derived by relating expenditure on the item to the total monthly household expenditure based on the results of the Household Expenditure Survey conducted during November 1997 to October 1998.



## 18.3

## PRICE INDICES OF SELECTED CONSUMER ITEMS

(2004 = 100)

|                                                                 | Weights <sup>1</sup> | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|-----------------------------------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Utility                                                         |                      |       |       |       |       |       |       |       |
| Water Tariff                                                    | 101                  | 43.9  | 78.2  | 91.6  | 98.1  | 98.1  | 98.6  | 100.0 |
| Electricity Tariff                                              | 222                  | 81.3  | 83.6  | 103.0 | 109.3 | 95.7  | 98.5  | 100.0 |
| Gas Tariff                                                      | 31                   | 62.7  | 78.6  | 86.1  | 97.8  | 97.8  | 98.6  | 100.0 |
| Liquefied Petroleum Gas                                         | 32                   | 66.7  | 71.5  | 80.7  | 89.3  | 86.9  | 94.3  | 100.0 |
| Private Road Transport                                          |                      |       |       |       |       |       |       |       |
| Petrol, Premium                                                 | 226                  | 81.0  | 83.4  | 97.4  | 94.7  | 86.8  | 89.7  | 100.0 |
| Petrol, Intermediate                                            | 16                   | 81.9  | 85.3  | 100.0 | 97.5  | 88.4  | 89.0  | 100.0 |
| Other Running Costs                                             | 236                  | 105.8 | 101.2 | 100.4 | 102.4 | 103.0 | 99.5  | 100.0 |
| Public Road Transport                                           |                      |       |       |       |       |       |       |       |
| Bus Fares                                                       | 161                  | 77.6  | 89.5  | 91.0  | 93.4  | 97.4  | 100.0 | 100.0 |
| MRT Fares                                                       | 114                  | 86.4  | 94.1  | 96.7  | 98.5  | 99.3  | 100.0 | 100.0 |
| Taxi Fares                                                      | 156                  | 90.3  | 95.8  | 99.3  | 101.8 | 101.4 | 100.2 | 100.0 |
| Education & Stationery                                          |                      |       |       |       |       |       |       |       |
| Primary School                                                  |                      |       |       |       |       |       |       |       |
| Miscellaneous Fees                                              | 11                   | 61.5  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Secondary & JC, School & Miscellaneous Fees                     | 20                   | 74.0  | 96.3  | 97.4  | 97.8  | 98.0  | 98.0  | 100.0 |
| Health Care                                                     |                      |       |       |       |       |       |       |       |
| Hospitalisation Fees                                            | 144                  | 91.4  | 96.5  | 97.5  | 99.1  | 99.2  | 99.7  | 100.0 |
| Consultation Fees for Adult & Children at Outpatient Dispensary | 77                   | 78.1  | 94.3  | 96.1  | 97.9  | 98.5  | 99.0  | 100.0 |

<sup>1</sup> Derived by relating expenditure on the item to the total monthly household expenditure based on the results of 2002/03 Household Expenditure Survey and updated to 2004's price level. These weights are used in the computation of the indices for the year 2004. Indices for the year 1994 and 1999 - 2003 relate to the consumption patterns of 1992/93 and 1997/98 respectively.



## 18.4

## RETAIL PRICES OF FOOD AND GROCERIES

|                                      |                  |       |       |       |       |       |       |       | Dollars |
|--------------------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|---------|
| Item                                 | Unit             | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |         |
| <b>Rice &amp; Other Cereals</b>      |                  |       |       |       |       |       |       |       |         |
| Thai Rice 100% Fragrant              | 5 kg pkt         | 6.24  | 8.38  | 8.47  | 8.07  | 7.06  | 7.61  | 7.61  |         |
| Instant Noodles                      | 5 pkts           | 1.77  | 1.63  | 1.58  | 1.53  | 1.48  | 1.46  | 1.62  |         |
| Ordinary White Bread                 | 400 g            | 0.84  | 1.24  | 1.24  | 1.26  | 1.26  | 1.26  | 1.16  |         |
| Vitamin Enriched Bread               | 400 g            | 1.47  | 1.33  | 1.33  | 1.33  | 1.29  | 1.34  | 1.35  |         |
| High Fibre Bread                     | 400 g            | 1.70  | 1.65  | 1.66  | 1.68  | 1.68  | 1.67  | 1.71  |         |
| Chocolate Cake                       | Per kg           | 25.71 | 27.35 | 27.81 | 28.26 | 27.96 | 28.08 | 29.46 |         |
| <b>Meat &amp; Poultry</b>            |                  |       |       |       |       |       |       |       |         |
| Lean Pork                            | Per kg           | 6.10  | 7.93  | 8.75  | 8.51  | 8.71  | 9.19  | 9.70  |         |
| Streaky Pork                         | Per kg           | na    | 7.75  | 8.64  | 8.56  | 8.69  | 9.18  | 9.73  |         |
| Pork Rib Bones                       | Per kg           | 7.19  | 9.19  | 10.18 | 10.34 | 10.72 | 11.30 | 12.05 |         |
| Beef                                 | Per kg           | 13.32 | 13.06 | 13.13 | 13.11 | 13.21 | 13.92 | 13.82 |         |
| Mutton                               | Per kg           | 10.27 | 10.12 | 10.22 | 10.35 | 10.70 | 11.25 | 13.66 |         |
| Hen                                  | Per kg           | 4.73  | 4.51  | 4.41  | 4.41  | 4.32  | 4.40  | 4.69  |         |
| Duck                                 | Per kg           | 5.23  | 5.31  | 5.22  | 5.14  | 5.00  | 5.14  | 5.96  |         |
| Chicken Wing                         | Each             | 0.50  | 0.52  | 0.52  | 0.51  | 0.49  | 0.49  | 0.49  |         |
| Chicken Extract                      | ½ doz            | 16.79 | 14.65 | 15.89 | 16.44 | 16.43 | 16.60 | 16.29 |         |
| <b>Fish &amp; Other Sea Products</b> |                  |       |       |       |       |       |       |       |         |
| White Pomfret                        | Per kg           | 18.59 | 17.78 | 18.23 | 18.65 | 18.62 | 18.09 | 17.52 |         |
| Flowery Grouper                      | Per kg           | 12.51 | 12.79 | 12.69 | 13.15 | 13.42 | 12.97 | 12.34 |         |
| Kurau (cut)                          | Per kg           | 34.46 | 35.83 | 37.95 | 38.66 | 39.03 | 37.09 | 37.14 |         |
| Gold Banded Scad (kuning)            | Per kg           | 5.89  | 5.55  | 5.37  | 5.39  | 5.30  | 5.02  | 4.93  |         |
| Spanish Mackerel (tenggiri)          | Per kg           | 8.17  | 8.49  | 8.75  | 8.82  | 8.54  | 8.36  | 8.52  |         |
| Golden Snapper                       | Per kg           | na    | 12.93 | 13.33 | 14.09 | 14.02 | 13.56 | 13.71 |         |
| Sea Bream (kerisi)                   | Per kg           | 6.01  | 6.43  | 6.58  | 6.59  | 6.50  | 6.28  | 6.35  |         |
| Sea Bass                             | Per kg           | 10.91 | 10.06 | 10.12 | 9.37  | 8.57  | 8.68  | 8.98  |         |
| Cod                                  | Per kg           | na    | 19.18 | 25.78 | 23.21 | 26.27 | 27.35 | 29.67 |         |
| Salmon                               | Per kg           | na    | 25.87 | 26.10 | 25.01 | 22.25 | 22.06 | 20.31 |         |
| Small Prawns                         | Per kg           | 12.02 | 12.41 | 12.70 | 12.59 | 12.39 | 11.63 | 10.54 |         |
| Medium Prawns                        | Per kg           | 15.79 | 18.00 | 18.91 | 18.57 | 17.46 | 16.57 | 16.05 |         |
| Large Prawns                         | Per kg           | 20.14 | 22.93 | 24.45 | 23.59 | 22.17 | 21.14 | 22.00 |         |
| Squids                               | Per kg           | 6.95  | 7.18  | 6.74  | 6.88  | 6.85  | 6.93  | 7.15  |         |
| Fish Balls                           | Per 10           | 1.04  | 1.06  | 1.05  | 1.06  | 1.05  | 1.06  | 1.06  |         |
| <b>Milk &amp; Eggs</b>               |                  |       |       |       |       |       |       |       |         |
| Fresh Milk                           | 1 litre pkt      | 2.55  | 2.46  | 2.43  | 2.53  | 2.52  | 2.53  | 2.53  |         |
| Condensed Milk                       | 397 g tin        | 1.08  | 1.02  | 1.00  | 0.99  | 0.97  | 0.97  | 0.98  |         |
| Infant Milk Powder                   | 1 kg tin         | 16.85 | 19.19 | 19.29 | 19.75 | 20.06 | 20.71 | 22.66 |         |
| Milk Powder                          | 2 kg tin         | 16.56 | 16.25 | 15.40 | 15.00 | 14.76 | 14.42 | 13.51 |         |
| Cheese                               | Pkt of 12 slices | na    | 3.32  | 3.29  | 3.23  | 3.17  | 3.39  | 3.18  |         |
| Ice-cream                            | 1.5 litre tub    | 5.46  | 5.43  | 5.17  | 5.02  | 4.87  | 4.88  | 4.88  |         |
| Hen Eggs                             | Per 10           | 1.38  | 1.51  | 1.51  | 1.44  | 1.41  | 1.42  | 1.97  |         |

(continued on next page)

Note : Prices may not be strictly comparable with those published earlier due to changes in specifications.



# 18.4 RETAIL PRICES OF FOOD AND GROCERIES (continued)

|                             |                  |       |       |       |       |       |       |       | Dollars |
|-----------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|---------|
| Item                        | Unit             | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |         |
| <b>Oils</b>                 |                  |       |       |       |       |       |       |       |         |
| Cooking Oil                 | 2 kg bottle      | 3.89  | 4.23  | 3.92  | 3.65  | 3.52  | 3.66  | 3.51  |         |
| Corn Oil                    | 2 kg bottle      | 5.80  | 6.05  | 5.96  | 5.72  | 5.43  | 5.60  | 5.39  |         |
| <b>Vegetables</b>           |                  |       |       |       |       |       |       |       |         |
| Cabbage                     | Per kg           | 1.83  | 1.75  | 1.71  | 1.63  | 1.56  | 1.59  | 1.50  |         |
| Spinach (bayam)             | Per kg           | 1.94  | 2.18  | 2.11  | 2.03  | 2.03  | 1.97  | 1.96  |         |
| Small Mustard               | Per kg           | 2.07  | 2.35  | 2.26  | 2.16  | 2.33  | 2.15  | 2.22  |         |
| Kale                        | Per kg           | 2.93  | 3.16  | 3.12  | 3.04  | 3.15  | 2.96  | 2.90  |         |
| Broccoli                    | Per kg           | 6.03  | 4.86  | 4.89  | 4.64  | 4.74  | 4.78  | 4.76  |         |
| Long Beans                  | Per kg           | 2.33  | 2.76  | 2.74  | 2.74  | 2.85  | 2.74  | 2.66  |         |
| Tomatoes                    | Per kg           | 2.38  | 2.65  | 2.56  | 2.42  | 2.47  | 2.20  | 2.10  |         |
| Potatoes                    | Per kg           | 1.16  | 1.36  | 1.18  | 1.14  | 1.16  | 1.18  | 1.23  |         |
| Large Onions                | Per kg           | 1.09  | 1.65  | 1.20  | 1.16  | 1.08  | 1.11  | 1.23  |         |
| Garlics                     | Per kg           | 2.66  | 3.44  | 2.75  | 2.63  | 2.52  | 2.35  | 2.63  |         |
| Carrots                     | Per kg           | 2.08  | 2.00  | 1.97  | 1.96  | 1.87  | 1.83  | 1.72  |         |
| Dried Mushrooms             | 100 g            | 7.46  | 7.65  | 7.36  | 6.84  | 6.71  | 6.65  | 8.07  |         |
| <b>Fruits</b>               |                  |       |       |       |       |       |       |       |         |
| Papaya                      | Per kg           | 1.06  | 1.13  | 1.12  | 1.12  | 1.10  | 1.13  | 1.09  |         |
| Bananas (emas)              | Per kg           | 1.29  | 1.31  | 1.31  | 1.30  | 1.30  | 1.30  | 1.30  |         |
| Watermelon                  | Per kg           | 1.39  | 1.30  | 1.32  | 1.25  | 1.20  | 1.22  | 1.23  |         |
| Orange                      | Each             | 0.33  | 0.34  | 0.33  | 0.33  | 0.33  | 0.33  | 0.33  |         |
| Apple                       | Each             | 0.34  | 0.33  | 0.33  | 0.33  | 0.33  | 0.33  | 0.34  |         |
| Grapes                      | Per kg           | 6.68  | 6.98  | 6.62  | 6.92  | 7.03  | 7.00  | 7.10  |         |
| Pear                        | Each             | 0.63  | 0.71  | 0.68  | 0.68  | 0.68  | 0.70  | 0.73  |         |
| <b>Miscellaneous</b>        |                  |       |       |       |       |       |       |       |         |
| Sugar                       | 2 kg pkt         | 1.97  | 1.86  | 1.74  | 1.77  | 1.76  | 1.76  | 1.54  |         |
| Coffee Powder               | Per kg           | 11.23 | 11.75 | 11.75 | 11.75 | 11.75 | 11.75 | 12.36 |         |
| Instant Coffee              | 200 g bottle     | 7.77  | 7.99  | 7.85  | 7.56  | 6.77  | 6.84  | 8.37  |         |
| Food Beverage               | 400 g tin        | 3.29  | 3.22  | 3.14  | 3.12  | 3.13  | 3.26  | 3.43  |         |
| Aerated Soft Drinks         | 330 ml can       | 0.57  | 0.54  | 0.54  | 0.56  | 0.55  | 0.55  | 0.54  |         |
| Non-Aerated,<br>Soft Drinks | 6 pkts of 250 ml | na    | 1.79  | 1.89  | 1.90  | 1.90  | 1.92  | 1.82  |         |
| Chocolate                   | 100 g bar        | 1.89  | 1.79  | 1.79  | 1.79  | 1.79  | 1.84  | 1.96  |         |

Note : Prices may not be strictly comparable with those published earlier due to changes in specifications.



## 18.5

## DOMESTIC SUPPLY PRICE INDEX

(2000 = 100)

| Item                            | Weights <sup>1</sup> | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|---------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| All Items                       | 10,000               | 98.7  | 90.8  | 100.0 | 98.3  | 95.2  | 97.1  | 102.1 |
| Food                            | 281                  | 95.6  | 102.0 | 100.0 | 101.1 | 99.0  | 101.5 | 106.7 |
| Live animals                    | 12                   | 79.9  | 106.8 | 100.0 | 107.4 | 107.6 | 115.2 | 124.3 |
| Meat & meat preparations        | 37                   | 97.7  | 101.3 | 100.0 | 104.9 | 102.9 | 106.1 | 114.4 |
| Dairy produce & eggs            | 34                   | 96.9  | 98.3  | 100.0 | 107.1 | 95.2  | 97.9  | 109.9 |
| Fish & fish preparations        | 55                   | 93.5  | 95.2  | 100.0 | 97.5  | 94.9  | 94.0  | 100.6 |
| Cereals & cereal preparations   | 44                   | 93.8  | 98.2  | 100.0 | 95.1  | 91.9  | 97.0  | 99.4  |
| Vegetables & fruits             | 34                   | 104.0 | 112.1 | 100.0 | 98.8  | 100.4 | 101.9 | 105.4 |
| Sugar & sugar preparations      | 12                   | 115.2 | 100.7 | 100.0 | 105.6 | 99.8  | 99.4  | 102.4 |
| Coffee etc & spices             | 21                   | 95.7  | 109.7 | 100.0 | 100.1 | 114.0 | 122.2 | 119.8 |
| Animal feeding stuff            | 3                    | 94.9  | 102.6 | 100.0 | 99.3  | 99.2  | 98.3  | 98.5  |
| Miscellaneous food preparations | 29                   | 90.0  | 97.6  | 100.0 | 104.8 | 101.1 | 101.8 | 103.0 |
| Beverages & Tobacco             | 50                   | 95.2  | 99.4  | 100.0 | 102.0 | 103.7 | 107.8 | 109.6 |
| Beverages                       | 41                   | 102.3 | 101.2 | 100.0 | 100.6 | 102.3 | 105.4 | 105.2 |
| Tobacco & manufactures          | 9                    | 81.0  | 96.0  | 100.0 | 109.5 | 110.6 | 120.2 | 131.6 |
| Crude Materials                 | 81                   | 110.4 | 96.9  | 100.0 | 99.7  | 97.6  | 98.8  | 106.3 |
| Hides, skins & furskins raw     | 1                    | na    | 83.0  | 100.0 | 94.3  | 94.3  | 90.5  | 90.0  |
| Oil seeds, nuts & kernels       | 1                    | 102.1 | 95.1  | 100.0 | 95.6  | 97.4  | 113.4 | 118.2 |
| Crude rubber incl synthetic     | 1                    | 153.5 | 94.0  | 100.0 | 104.4 | 104.3 | 93.5  | 93.2  |
| Cork & wood                     | 8                    | 93.3  | 93.2  | 100.0 | 97.3  | 95.9  | 98.7  | 109.9 |
| Textile fibres & waste          | 1                    | 87.1  | 102.3 | 100.0 | 98.6  | 99.0  | 97.4  | 95.3  |
| Crude fertilizers & minerals    | 56                   | 150.4 | 102.7 | 100.0 | 100.7 | 98.5  | 96.6  | 97.5  |
| Metallic ores & scrap           | 8                    | 96.5  | 96.2  | 100.0 | 96.3  | 95.5  | 112.3 | 160.2 |
| Crude materials nec             | 5                    | 74.7  | 91.5  | 100.0 | 99.7  | 94.2  | 101.0 | 107.0 |
| Mineral Fuels                   | 2,076                | 53.8  | 64.2  | 100.0 | 90.8  | 90.6  | 105.1 | 125.2 |
| Petroleum & products            | 2,055                | 53.9  | 64.0  | 100.0 | 90.5  | 90.3  | 104.7 | 124.9 |
| Gas                             | 21                   | 42.3  | 76.4  | 100.0 | 117.2 | 117.3 | 136.9 | 151.7 |
| Animal & Vegetable Oils         | 25                   | 112.2 | 118.1 | 100.0 | 89.5  | 108.6 | 116.1 | 124.2 |
| Vegetable oil unprocessed       | 19                   | 100.7 | 111.2 | 100.0 | 89.3  | 109.8 | 116.8 | 124.7 |
| Other animal & vegetable oils   | 6                    | 123.9 | 125.1 | 100.0 | 90.0  | 104.4 | 114.4 | 123.4 |

(continued on next page)

Note: The Domestic Supply Price Index measures the change in prices of imported and locally manufactured product retained for use in the economy.

<sup>1</sup> The weight for each commodity item was proportional to the value of its total supply or availability in the domestic market in 2000.



**18.5 DOMESTIC SUPPLY PRICE INDEX (continued)**

(2000 = 100)

| Item                                | Weights <sup>1</sup> | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|-------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Chemicals & Chemical Products       | 753                  | 99.2  | 94.3  | 100.0 | 97.0  | 94.3  | 97.9  | 109.8 |
| Organic chemicals                   | 220                  | 86.0  | 83.4  | 100.0 | 92.2  | 91.4  | 103.1 | 133.1 |
| Inorganic chemicals                 | 33                   | 111.7 | 102.4 | 100.0 | 96.7  | 95.7  | 97.9  | 102.4 |
| Dyes & colours                      | 67                   | 105.9 | 102.9 | 100.0 | 98.1  | 98.1  | 103.1 | 107.8 |
| Medicinal products                  | 69                   | 101.9 | 98.1  | 100.0 | 103.9 | 99.8  | 97.1  | 96.8  |
| Perfume, toilet preparations        | 53                   | 103.8 | 102.8 | 100.0 | 100.7 | 99.9  | 102.7 | 102.6 |
| Plastics in primary forms           | 169                  | 92.7  | 90.7  | 100.0 | 96.4  | 91.1  | 91.7  | 103.4 |
| Plastics in non-primary forms       | 27                   | 106.5 | 98.2  | 100.0 | 102.9 | 97.8  | 97.7  | 95.8  |
| Chemical products nec               | 115                  | 99.4  | 95.7  | 100.0 | 99.3  | 95.2  | 92.3  | 91.8  |
| Manufactured Goods                  | 891                  | 103.2 | 97.9  | 100.0 | 96.4  | 94.4  | 97.4  | 109.0 |
| Leather products nec                | 11                   | 104.4 | 102.9 | 100.0 | 103.7 | 101.5 | 102.7 | 103.6 |
| Rubber manufactures nec             | 37                   | 99.5  | 99.8  | 100.0 | 99.9  | 99.5  | 97.8  | 99.4  |
| Wood & cork manufactures            | 21                   | 109.1 | 98.5  | 100.0 | 95.8  | 88.3  | 86.3  | 85.6  |
| Paper manufactures                  | 117                  | 83.5  | 93.6  | 100.0 | 93.1  | 87.5  | 87.7  | 92.7  |
| Textile manufactures                | 40                   | 101.8 | 99.2  | 100.0 | 98.4  | 94.0  | 93.3  | 91.4  |
| Non-metal mineral manufactures      | 133                  | 127.1 | 100.8 | 100.0 | 97.5  | 95.3  | 94.7  | 97.2  |
| Iron & steel                        | 169                  | 98.9  | 98.2  | 100.0 | 96.3  | 97.2  | 107.6 | 136.2 |
| Non-ferrous metals                  | 103                  | 104.4 | 93.0  | 100.0 | 97.3  | 90.8  | 96.2  | 119.0 |
| Metal manufactures                  | 260                  | 101.1 | 99.5  | 100.0 | 96.1  | 96.1  | 98.2  | 106.8 |
| Machinery & Transport               |                      |       |       |       |       |       |       |       |
| Equipment                           | 5,083                | 120.7 | 99.1  | 100.0 | 101.3 | 96.1  | 92.6  | 89.9  |
| Power generating machinery          | 143                  | 113.1 | 99.0  | 100.0 | 99.2  | 97.6  | 94.3  | 92.4  |
| Industrial machinery                | 87                   | 112.9 | 108.1 | 100.0 | 99.0  | 95.1  | 95.8  | 98.4  |
| Metal working machinery             | 53                   | 95.6  | 96.7  | 100.0 | 101.9 | 104.6 | 108.1 | 110.4 |
| General industrial machinery        | 217                  | 95.4  | 97.8  | 100.0 | 99.6  | 97.0  | 97.1  | 99.3  |
| Office & data machines              | 1,028                | 149.8 | 112.7 | 100.0 | 103.7 | 93.6  | 89.3  | 84.3  |
| Telecommunication apparatus         | 390                  | 104.5 | 98.7  | 100.0 | 92.9  | 89.2  | 83.4  | 79.2  |
| Electrical machinery nec            | 2,951                | 117.9 | 91.2  | 100.0 | 101.8 | 97.1  | 93.2  | 90.6  |
| Road vehicles                       | 214                  | 103.5 | 97.6  | 100.0 | 100.7 | 102.2 | 106.5 | 108.0 |
| Miscellaneous Manufactures          | 760                  | 106.2 | 99.7  | 100.0 | 101.4 | 100.6 | 100.9 | 101.5 |
| Prefab building, sanitary, lighting | 15                   | 107.6 | 101.3 | 100.0 | 106.8 | 111.0 | 117.3 | 117.8 |
| Furniture, bedding, mattresses      | 41                   | 105.4 | 100.3 | 100.0 | 99.4  | 98.3  | 95.6  | 96.4  |
| Travel goods                        | 13                   | 95.9  | 100.6 | 100.0 | 100.4 | 102.4 | 105.2 | 106.1 |
| Clothing                            | 52                   | 98.6  | 102.6 | 100.0 | 99.6  | 96.7  | 96.2  | 95.3  |
| Footwear                            | 9                    | 96.1  | 98.4  | 100.0 | 95.9  | 97.7  | 100.7 | 99.2  |
| Scientific instruments              | 186                  | 97.3  | 98.6  | 100.0 | 112.6 | 117.0 | 114.7 | 112.0 |
| Photographic apparatus              | 69                   | 98.7  | 98.3  | 100.0 | 100.5 | 101.0 | 100.7 | 102.8 |
| Miscellaneous mfd articles nec      | 375                  | 115.5 | 99.5  | 100.0 | 96.4  | 92.8  | 94.5  | 96.7  |

Note: The Domestic Supply Price Index measures the change in prices of imported and locally manufactured product retained for use in the economy.

1 The weight for each commodity item was proportional to the value of its total supply or availability in the domestic market in 2000.



## 18.6

## SINGAPORE MANUFACTURED PRODUCTS PRICE INDEX

(2000 = 100)

| Item                            | Weights <sup>1</sup> | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|---------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| All Items                       | 10,000               | 112.1 | 93.8  | 100.0 | 99.0  | 92.1  | 91.4  | 95.6  |
| Food                            | 151                  | 96.3  | 102.3 | 100.0 | 100.2 | 99.5  | 102.6 | 105.4 |
| Meat & meat preparations        | 15                   | 93.8  | 100.2 | 100.0 | 101.6 | 101.6 | 105.8 | 109.6 |
| Dairy produce & eggs            | 11                   | 106.2 | 99.9  | 100.0 | 102.4 | 97.8  | 98.0  | 99.4  |
| Fish & fish preparations        | 14                   | 73.8  | 112.1 | 100.0 | 97.1  | 91.7  | 91.3  | 101.5 |
| Cereals & cereal preparations   | 31                   | 100.3 | 99.6  | 100.0 | 100.7 | 98.4  | 99.5  | 101.4 |
| Vegetables & fruits             | 5                    | 99.1  | 100.5 | 100.0 | 97.6  | 99.3  | 98.9  | 98.2  |
| Sugar & sugar preparations      | 8                    | 110.3 | 97.4  | 100.0 | 102.6 | 97.8  | 96.9  | 97.0  |
| Coffee etc & spices             | 28                   | 90.1  | 108.0 | 100.0 | 100.1 | 106.6 | 120.5 | 124.9 |
| Animal feeding stuff            | 5                    | 99.7  | 104.0 | 100.0 | 96.6  | 95.5  | 94.1  | 97.6  |
| Miscellaneous food preparations | 34                   | 94.0  | 98.7  | 100.0 | 99.8  | 98.1  | 98.1  | 98.4  |
| Beverages & Tobacco             | 55                   | 94.2  | 97.5  | 100.0 | 104.4 | 104.7 | 112.8 | 118.2 |
| Beverages                       | 36                   | 102.8 | 101.1 | 100.0 | 100.6 | 101.9 | 106.1 | 104.9 |
| Tobacco & manufactures          | 19                   | 85.7  | 94.0  | 100.0 | 111.7 | 110.0 | 125.6 | 143.5 |
| Crude Materials                 | 19                   | 100.9 | 97.3  | 100.0 | 95.1  | 93.6  | 93.9  | 97.7  |
| Hides, skins & furskins raw     | 1                    | na    | 99.6  | 100.0 | 94.3  | 94.3  | 90.5  | 90.0  |
| Cork & wood                     | 3                    | 86.9  | 89.2  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Crude fertilizers & minerals    | 8                    | 135.7 | 104.6 | 100.0 | 90.2  | 85.2  | 82.7  | 80.3  |
| Metallic ores & scrap           | 7                    | 107.6 | 95.8  | 100.0 | 98.7  | 100.5 | 104.8 | 117.8 |
| Mineral Fuels                   | 1,327                | 57.6  | 67.3  | 100.0 | 97.4  | 92.3  | 104.3 | 127.9 |
| Petroleum & products            | 1,295                | 58.4  | 66.7  | 100.0 | 96.9  | 91.6  | 103.5 | 127.3 |
| Gas                             | 32                   | 42.5  | 76.4  | 100.0 | 117.2 | 117.3 | 136.9 | 151.7 |
| Animal & Vegetable Oils         | 24                   | 91.1  | 107.9 | 100.0 | 92.3  | 101.6 | 108.0 | 112.5 |
| Animal oil & fats               | 1                    | na    | na    | 100.0 | 98.3  | 97.6  | 98.8  | 94.2  |
| Vegetable oil unprocessed       | 14                   | 84.8  | 106.0 | 100.0 | 94.4  | 103.5 | 107.9 | 111.3 |
| Other animal & vegetable oils   | 9                    | 104.6 | 111.7 | 100.0 | 88.1  | 99.0  | 109.4 | 116.8 |

(continued on next page)

1 Based on 2000 production value of the commodity item.



**18.6 SINGAPORE MANUFACTURED PRODUCTS PRICE INDEX** (continued)

(2000 = 100)

| Item                                | Weights <sup>1</sup> | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|-------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Chemicals & Chemical Products       | 1,044                | 92.6  | 91.0  | 100.0 | 94.6  | 92.4  | 98.6  | 118.4 |
| Organic chemicals                   | 521                  | 66.6  | 76.1  | 100.0 | 91.0  | 91.1  | 103.9 | 136.8 |
| Inorganic chemicals                 | 32                   | 105.5 | 102.3 | 100.0 | 97.5  | 94.4  | 95.9  | 96.1  |
| Dyes & colours                      | 51                   | 97.8  | 104.2 | 100.0 | 101.3 | 103.1 | 104.2 | 104.8 |
| Medicinal products                  | 59                   | 104.6 | 97.5  | 100.0 | 103.1 | 100.9 | 97.0  | 97.1  |
| Perfume, toilet preparations        | 39                   | 101.4 | 99.3  | 100.0 | 97.5  | 95.7  | 98.0  | 98.6  |
| Plastics in primary forms           | 230                  | 92.8  | 89.8  | 100.0 | 94.0  | 89.2  | 89.4  | 103.9 |
| Plastics in non-primary forms       | 25                   | 100.1 | 97.9  | 100.0 | 99.8  | 90.1  | 84.7  | 86.0  |
| Chemical products nec               | 87                   | 108.6 | 98.3  | 100.0 | 104.5 | 95.7  | 94.1  | 96.1  |
| Manufactured Goods                  | 579                  | 113.1 | 100.7 | 100.0 | 96.9  | 94.5  | 94.8  | 101.4 |
| Leather products nec                | 9                    | na    | na    | 100.0 | 105.6 | 102.3 | 103.7 | 105.1 |
| Rubber manufactures nec             | 29                   | 97.3  | 97.6  | 100.0 | 99.7  | 102.6 | 102.1 | 103.0 |
| Wood & cork manufactures            | 16                   | 100.5 | 97.5  | 100.0 | 96.3  | 89.8  | 85.7  | 83.4  |
| Paper manufactures                  | 66                   | 94.4  | 97.4  | 100.0 | 94.5  | 86.6  | 86.9  | 87.9  |
| Textile manufactures                | 37                   | 113.2 | 101.3 | 100.0 | 95.9  | 86.9  | 82.1  | 76.9  |
| Non-metal mineral manufactures      | 97                   | 153.5 | 101.8 | 100.0 | 95.1  | 95.6  | 93.7  | 95.4  |
| Iron & steel                        | 75                   | 112.5 | 103.7 | 100.0 | 96.1  | 97.1  | 109.3 | 133.1 |
| Non-ferrous metals                  | 32                   | 123.7 | 98.4  | 100.0 | 100.2 | 90.2  | 92.1  | 116.0 |
| Metal manufactures                  | 218                  | 105.5 | 100.6 | 100.0 | 97.7  | 96.2  | 94.6  | 100.2 |
| Machinery & Transport               |                      |       |       |       |       |       |       |       |
| Equipment                           | 6,180                | 143.3 | 103.4 | 100.0 | 100.1 | 91.1  | 86.3  | 83.9  |
| Power generating machinery          | 51                   | 85.4  | 97.7  | 100.0 | 91.3  | 90.4  | 78.4  | 71.2  |
| Industrial machinery                | 166                  | 109.1 | 100.9 | 100.0 | 103.5 | 93.8  | 86.3  | 87.5  |
| Metal working machinery             | 18                   | 120.4 | 108.9 | 100.0 | 99.3  | 99.1  | 98.9  | 98.3  |
| General industrial machinery        | 200                  | 100.7 | 98.2  | 100.0 | 96.2  | 94.6  | 93.2  | 93.2  |
| Office & data machines              | 2,887                | 190.0 | 112.8 | 100.0 | 103.6 | 92.7  | 87.2  | 81.2  |
| Telecommunication apparatus         | 400                  | 116.7 | 99.8  | 100.0 | 97.2  | 91.6  | 87.2  | 83.9  |
| Electrical machinery nec            | 2,430                | 120.2 | 95.7  | 100.0 | 96.8  | 88.4  | 84.4  | 86.1  |
| Road vehicles                       | 28                   | 91.9  | 99.2  | 100.0 | 101.2 | 101.1 | 99.4  | 97.7  |
| Miscellaneous Manufactures          | 621                  | 103.5 | 99.1  | 100.0 | 99.7  | 96.6  | 94.3  | 94.1  |
| Prefab building, sanitary, lighting | 4                    | 115.8 | 100.9 | 100.0 | 93.0  | 83.1  | 79.3  | 77.2  |
| Furniture, bedding, mattresses      | 19                   | 99.8  | 99.7  | 100.0 | 96.3  | 93.7  | 90.9  | 92.3  |
| Clothing                            | 67                   | 105.5 | 103.7 | 100.0 | 96.2  | 90.8  | 90.2  | 89.5  |
| Footwear                            | 1                    | 97.9  | 100.3 | 100.0 | 98.6  | 98.6  | 96.1  | 91.8  |
| Scientific instruments              | 111                  | 100.6 | 98.9  | 100.0 | 106.4 | 107.0 | 104.6 | 104.0 |
| Photographic apparatus              | 32                   | 113.1 | 104.4 | 100.0 | 101.6 | 101.2 | 99.4  | 99.7  |
| Miscellaneous mfd articles nec      | 387                  | 103.1 | 97.9  | 100.0 | 98.4  | 94.5  | 92.0  | 91.8  |

<sup>1</sup> Based on 2000 production value of the commodity item.



## 18.7

## IMPORT PRICE INDEX

(2000 = 100)

| Item                            | Weights <sup>1</sup> | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|---------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| All Items                       | 10,000               | 98.2  | 91.8  | 100.0 | 99.0  | 96.8  | 97.1  | 98.7  |
| Food                            | 247                  | 93.3  | 103.9 | 100.0 | 98.1  | 96.6  | 99.1  | 103.5 |
| Live animals                    | 7                    | 79.9  | 106.9 | 100.0 | 107.4 | 107.6 | 115.2 | 124.3 |
| Meat & meat preparations        | 28                   | 96.2  | 101.3 | 100.0 | 106.0 | 103.4 | 106.6 | 115.3 |
| Dairy produce & eggs            | 21                   | 92.4  | 97.0  | 100.0 | 109.2 | 94.7  | 97.6  | 111.7 |
| Fish & fish preparations        | 51                   | 90.8  | 90.8  | 100.0 | 96.7  | 93.8  | 92.8  | 100.2 |
| Cereals & cereal preparations   | 24                   | 91.9  | 97.4  | 100.0 | 92.7  | 90.1  | 95.7  | 98.2  |
| Vegetables & fruits             | 48                   | 97.5  | 111.8 | 100.0 | 97.5  | 100.7 | 101.8 | 105.2 |
| Sugar & sugar preparations      | 9                    | 117.1 | 103.7 | 100.0 | 109.1 | 101.2 | 100.2 | 106.0 |
| Coffee etc & spices             | 40                   | 94.4  | 120.5 | 100.0 | 82.1  | 87.8  | 93.5  | 88.6  |
| Animal feeding stuff            | 2                    | 87.3  | 100.5 | 100.0 | 102.0 | 102.8 | 102.5 | 99.3  |
| Miscellaneous food preparations | 17                   | 92.0  | 99.1  | 100.0 | 110.6 | 106.2 | 109.4 | 111.5 |
| Beverages & Tobacco             | 84                   | 91.1  | 99.6  | 100.0 | 100.7 | 101.7 | 100.4 | 104.5 |
| Beverages                       | 36                   | 105.1 | 100.6 | 100.0 | 98.5  | 101.6 | 99.5  | 102.9 |
| Tobacco & manufactures          | 48                   | 82.9  | 99.0  | 100.0 | 102.4 | 101.8 | 101.1 | 105.6 |
| Crude Materials                 | 102                  | 108.6 | 94.8  | 100.0 | 97.5  | 99.1  | 104.7 | 115.4 |
| Hides, skins undressed          | 2                    | 69.8  | 83.0  | 100.0 | 84.0  | 80.4  | 74.9  | 79.0  |
| Oil seeds, nuts & kernels       | 2                    | 103.5 | 95.7  | 100.0 | 95.6  | 97.4  | 113.4 | 118.2 |
| Crude rubber incl synthetic     | 17                   | 149.3 | 90.9  | 100.0 | 91.9  | 109.7 | 136.5 | 161.6 |
| Cork & wood                     | 13                   | 94.3  | 92.8  | 100.0 | 95.7  | 94.5  | 97.4  | 110.5 |
| Textile fibres & waste          | 7                    | 87.6  | 101.6 | 100.0 | 90.5  | 91.0  | 85.5  | 87.0  |
| Crude fertilizers & minerals    | 39                   | 154.9 | 102.0 | 100.0 | 101.8 | 99.8  | 97.9  | 99.0  |
| Metallic ores & scrap           | 11                   | 99.0  | 94.7  | 100.0 | 98.4  | 97.4  | 109.7 | 143.1 |
| Crude materials nec             | 11                   | 88.2  | 94.2  | 100.0 | 99.4  | 96.0  | 98.2  | 104.3 |
| Mineral Fuels                   | 1,214                | 51.6  | 63.0  | 100.0 | 88.6  | 91.0  | 106.2 | 123.5 |
| Petroleum & products            | 1,214                | 51.6  | 63.0  | 100.0 | 88.6  | 91.0  | 106.2 | 123.5 |
| Animal & Vegetable Oils         | 16                   | 133.7 | 133.6 | 100.0 | 90.5  | 115.3 | 124.2 | 134.4 |
| Vegetable oil unprocessed       | 14                   | 123.1 | 128.3 | 100.0 | 88.8  | 112.5 | 121.2 | 130.6 |
| Other animal & vegetable oils   | 2                    | 142.7 | 138.0 | 100.0 | 102.5 | 134.0 | 144.6 | 159.9 |

(continued on next page)

1 Based on value of the commodity item imported in 2000.



**18.7 IMPORT PRICE INDEX (continued)**

(2000 = 100)

| Item                                     | Weights <sup>1</sup> | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|------------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| <b>Chemicals &amp; Chemical Products</b> | 565                  | 101.4 | 96.5  | 100.0 | 99.8  | 96.3  | 98.1  | 102.1 |
| Organic chemicals                        | 111                  | 104.3 | 91.0  | 100.0 | 101.2 | 97.4  | 103.5 | 112.7 |
| Inorganic chemicals                      | 31                   | 109.9 | 101.5 | 100.0 | 97.6  | 97.2  | 99.7  | 103.2 |
| Dyes & colours                           | 61                   | 111.9 | 101.8 | 100.0 | 98.0  | 96.2  | 98.8  | 102.6 |
| Medicinal products                       | 51                   | 105.9 | 103.0 | 100.0 | 98.2  | 90.4  | 89.7  | 94.4  |
| Perfume, toilet preparations             | 61                   | 103.7 | 103.8 | 100.0 | 102.0 | 100.5 | 102.5 | 102.7 |
| Plastics in primary forms                | 108                  | 87.7  | 93.4  | 100.0 | 100.3 | 93.6  | 95.0  | 102.4 |
| Plastics in non-primary forms            | 38                   | 106.0 | 96.9  | 100.0 | 102.2 | 102.1 | 107.8 | 107.1 |
| Chemical products nec                    | 104                  | 98.6  | 96.0  | 100.0 | 97.8  | 95.8  | 92.9  | 91.3  |
| <b>Manufactured Goods</b>                | 737                  | 97.7  | 96.0  | 100.0 | 96.9  | 94.0  | 96.8  | 109.6 |
| Leather products nec                     | 8                    | 104.2 | 102.9 | 100.0 | 103.2 | 103.6 | 104.3 | 104.0 |
| Rubber manufactures nec                  | 35                   | 103.5 | 101.2 | 100.0 | 100.3 | 97.5  | 95.9  | 97.8  |
| Wood & cork manufactures                 | 19                   | 117.6 | 100.2 | 100.0 | 94.8  | 85.0  | 85.9  | 87.7  |
| Paper manufactures                       | 81                   | 76.5  | 90.5  | 100.0 | 93.6  | 89.8  | 89.6  | 95.0  |
| Textile manufactures                     | 93                   | 98.4  | 98.4  | 100.0 | 97.3  | 91.8  | 89.1  | 89.4  |
| Non-metal mineral manufactures           | 101                  | 107.4 | 100.6 | 100.0 | 102.0 | 99.0  | 99.1  | 101.8 |
| Iron & steel                             | 127                  | 95.6  | 94.9  | 100.0 | 96.5  | 97.4  | 106.6 | 139.6 |
| Non-ferrous metals                       | 134                  | 101.9 | 91.8  | 100.0 | 94.5  | 88.1  | 93.4  | 117.6 |
| Metal manufactures                       | 139                  | 93.3  | 97.6  | 100.0 | 96.9  | 96.5  | 100.2 | 108.5 |
| <b>Machinery &amp; Transport</b>         |                      |       |       |       |       |       |       |       |
| Equipment                                | 6,087                | 113.1 | 96.4  | 100.0 | 100.8 | 97.5  | 94.2  | 91.0  |
| Power generating machinery               | 220                  | 105.4 | 96.7  | 100.0 | 99.4  | 97.3  | 94.3  | 92.6  |
| Industrial machinery                     | 444                  | 105.4 | 105.2 | 100.0 | 97.2  | 96.4  | 99.4  | 101.5 |
| Metal working machinery                  | 75                   | 89.7  | 96.3  | 100.0 | 100.7 | 104.6 | 108.6 | 110.9 |
| General industrial machinery             | 352                  | 95.0  | 97.7  | 100.0 | 101.1 | 99.0  | 100.2 | 102.9 |
| Office & data machines                   | 787                  | 135.0 | 108.8 | 100.0 | 99.7  | 94.1  | 87.6  | 83.7  |
| Telecommunication apparatus              | 643                  | 109.3 | 100.8 | 100.0 | 94.0  | 89.7  | 84.1  | 79.3  |
| Electrical machinery nec                 | 3,352                | 116.7 | 88.9  | 100.0 | 102.9 | 99.2  | 94.9  | 90.4  |
| Road vehicles                            | 214                  | 103.4 | 97.6  | 100.0 | 100.2 | 103.8 | 111.4 | 111.4 |
| <b>Miscellaneous Manufactures</b>        | 948                  | 105.3 | 99.7  | 100.0 | 101.9 | 101.9 | 102.0 | 102.4 |
| Prefab building, sanitary, lighting      | 15                   | 104.6 | 101.0 | 100.0 | 106.5 | 110.6 | 115.6 | 115.4 |
| Furniture, bedding, mattresses           | 35                   | 105.1 | 100.8 | 100.0 | 99.5  | 98.9  | 97.0  | 98.9  |
| Travel goods                             | 15                   | 95.3  | 100.6 | 100.0 | 100.4 | 102.5 | 105.1 | 105.7 |
| Clothing                                 | 147                  | 96.0  | 102.1 | 100.0 | 100.9 | 100.6 | 100.3 | 99.9  |
| Footwear                                 | 20                   | 96.5  | 98.1  | 100.0 | 95.4  | 96.7  | 100.2 | 98.4  |
| Scientific instruments                   | 250                  | 99.0  | 99.4  | 100.0 | 110.3 | 114.4 | 114.4 | 112.9 |
| Photographic apparatus                   | 175                  | 98.7  | 97.8  | 100.0 | 101.0 | 100.4 | 97.3  | 98.3  |
| Miscellaneous mfd articles nec           | 291                  | 119.7 | 99.9  | 100.0 | 96.3  | 92.8  | 94.8  | 97.1  |

1 Based on value of the commodity item imported in 2000.



## 18.8 EXPORT PRICE INDEX

(2000 = 100)

| Item                            | Weights <sup>1</sup> | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|---------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| All Items                       | 10,000               | 107.2 | 94.6  | 100.0 | 94.1  | 87.3  | 84.2  | 84.3  |
| Food                            | 134                  | 93.3  | 102.8 | 100.0 | 96.4  | 96.1  | 96.0  | 98.3  |
| Dairy produce & eggs            | 6                    | 93.1  | 99.0  | 100.0 | 102.8 | 99.0  | 95.2  | 104.5 |
| Fish & fish preparations        | 32                   | 85.4  | 88.3  | 100.0 | 97.1  | 96.5  | 99.4  | 106.8 |
| Cereals & cereal preparations   | 11                   | 91.2  | 99.9  | 100.0 | 98.7  | 98.0  | 99.3  | 105.0 |
| Vegetables & fruits             | 15                   | 106.5 | 107.3 | 100.0 | 92.6  | 106.4 | 102.7 | 104.8 |
| Sugar & sugar preparations      | 3                    | 99.8  | 98.3  | 100.0 | 109.5 | 96.9  | 96.0  | 96.5  |
| Coffee etc & spices             | 45                   | 87.8  | 115.2 | 100.0 | 90.6  | 91.3  | 89.7  | 88.0  |
| Animal feeding stuff            | 4                    | 110.8 | 100.6 | 100.0 | 93.6  | 84.4  | 89.6  | 81.0  |
| Miscellaneous food preparations | 18                   | 97.5  | 102.5 | 100.0 | 107.4 | 99.8  | 100.7 | 101.9 |
| Beverages & Tobacco             | 78                   | 94.5  | 98.9  | 100.0 | 103.4 | 106.3 | 107.6 | 103.7 |
| Beverages                       | 30                   | 92.9  | 96.4  | 100.0 | 101.7 | 105.3 | 105.3 | 104.5 |
| Tobacco & manufactures          | 48                   | 95.5  | 100.4 | 100.0 | 104.4 | 106.8 | 109.1 | 103.3 |
| Crude Materials                 | 73                   | 108.0 | 88.2  | 100.0 | 92.8  | 100.4 | 114.7 | 135.9 |
| Hides, skins undressed          | 3                    | 71.9  | 68.7  | 100.0 | 84.4  | 84.9  | 85.2  | 87.5  |
| Oil seeds, nuts & kernels       | 2                    | 96.5  | 96.9  | 100.0 | 86.0  | 88.7  | 97.7  | 118.8 |
| Crude rubber incl synthetic     | 16                   | 151.5 | 91.7  | 100.0 | 86.7  | 110.3 | 146.8 | 173.2 |
| Cork & wood                     | 8                    | 88.5  | 96.0  | 100.0 | 101.6 | 102.4 | 103.7 | 104.3 |
| Pulp & waste paper              | 7                    | 86.7  | 75.2  | 100.0 | 83.7  | 103.8 | 115.5 | 115.3 |
| Textile fibres & waste          | 7                    | na    | na    | 100.0 | 96.1  | 88.5  | 88.1  | 88.1  |
| Metallic ores & scrap           | 22                   | 103.3 | 86.2  | 100.0 | 94.4  | 97.8  | 113.2 | 160.9 |
| Crude materials nec             | 8                    | 83.1  | 82.4  | 100.0 | 100.3 | 99.2  | 100.2 | 104.3 |
| Mineral Fuels                   | 982                  | 58.7  | 63.5  | 100.0 | 90.3  | 90.4  | 104.2 | 126.4 |
| Petroleum & products            | 963                  | 58.7  | 63.5  | 100.0 | 90.4  | 90.6  | 104.3 | 126.7 |
| Gas                             | 19                   | 54.2  | 59.3  | 100.0 | 87.2  | 80.0  | 95.8  | 111.4 |
| Animal & Vegetable Oils         | 15                   | 125.0 | 118.8 | 100.0 | 97.4  | 113.3 | 126.2 | 135.5 |
| Vegetable oil unprocessed       | 11                   | 121.2 | 121.7 | 100.0 | 95.5  | 110.0 | 122.9 | 130.8 |
| Other animal & vegetable oils   | 4                    | 127.1 | 116.7 | 100.0 | 101.4 | 120.5 | 133.4 | 145.9 |

(continued on next page)

<sup>1</sup> Based on value of the commodity item exported in 2000.



**18.8 EXPORT PRICE INDEX (continued)**

(2000 =100)

| Item                                | Weights <sup>1</sup> | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|-------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Chemicals & Chemical Products       | 726                  | 91.0  | 89.2  | 100.0 | 98.7  | 97.9  | 99.5  | 107.1 |
| Organic chemicals                   | 232                  | 100.2 | 85.9  | 100.0 | 98.8  | 99.9  | 103.7 | 118.2 |
| Inorganic chemicals                 | 13                   | 94.8  | 98.7  | 100.0 | 101.4 | 97.7  | 89.9  | 90.2  |
| Dyes & colours                      | 60                   | 102.2 | 99.3  | 100.0 | 98.9  | 100.0 | 97.3  | 95.6  |
| Medicinal products                  | 72                   | 112.5 | 100.9 | 100.0 | 97.9  | 96.3  | 96.0  | 92.7  |
| Perfume, toilet preparations        | 59                   | 93.3  | 97.8  | 100.0 | 100.1 | 96.9  | 99.8  | 103.0 |
| Plastics in primary forms           | 167                  | 96.0  | 87.0  | 100.0 | 96.6  | 95.2  | 97.6  | 110.6 |
| Plastics in non-primary forms       | 23                   | 88.4  | 95.7  | 100.0 | 98.0  | 89.8  | 86.5  | 85.7  |
| Chemical products nec               | 100                  | 63.4  | 82.3  | 100.0 | 101.4 | 100.0 | 100.8 | 104.3 |
| Manufactured Goods                  | 419                  | 101.1 | 99.0  | 100.0 | 99.0  | 96.3  | 96.8  | 105.2 |
| Leather products nec                | 8                    | 99.5  | 100.3 | 100.0 | 101.0 | 101.2 | 100.9 | 100.8 |
| Rubber manufactures nec             | 28                   | 97.3  | 100.2 | 100.0 | 101.2 | 98.6  | 99.7  | 111.5 |
| Wood & cork manufactures            | 8                    | 102.8 | 97.0  | 100.0 | 96.5  | 87.4  | 87.0  | 88.8  |
| Paper manufactures                  | 35                   | 88.4  | 100.3 | 100.0 | 103.4 | 99.3  | 98.1  | 100.2 |
| Textile manufactures                | 76                   | 116.4 | 102.7 | 100.0 | 92.2  | 86.1  | 86.9  | 83.5  |
| Non-metal mineral manufactures      | 38                   | 94.2  | 97.2  | 100.0 | 101.3 | 116.2 | 112.3 | 110.3 |
| Iron & steel                        | 55                   | 104.8 | 94.9  | 100.0 | 102.3 | 102.4 | 108.1 | 138.1 |
| Non-ferrous metals                  | 87                   | 96.0  | 96.8  | 100.0 | 97.2  | 88.7  | 89.6  | 106.9 |
| Metal manufactures                  | 84                   | 98.3  | 101.2 | 100.0 | 101.0 | 98.6  | 97.7  | 101.6 |
| Machinery & Transport               |                      |       |       |       |       |       |       |       |
| Equipment                           | 6,749                | 126.9 | 101.8 | 100.0 | 93.2  | 83.5  | 76.6  | 71.9  |
| Power generating machinery          | 134                  | 94.5  | 100.1 | 100.0 | 96.9  | 94.1  | 88.8  | 88.6  |
| Industrial machinery                | 300                  | 86.3  | 95.8  | 100.0 | 100.3 | 94.8  | 94.8  | 98.1  |
| Metal working machinery             | 33                   | 96.6  | 99.0  | 100.0 | 98.9  | 101.4 | 95.4  | 97.0  |
| General industrial machinery        | 260                  | 97.6  | 99.4  | 100.0 | 101.8 | 100.7 | 99.7  | 99.1  |
| Office & data machines              | 2,176                | 165.1 | 107.0 | 100.0 | 96.8  | 87.4  | 78.0  | 67.9  |
| Telecommunication apparatus         | 671                  | 91.7  | 97.2  | 100.0 | 95.2  | 87.7  | 83.0  | 78.8  |
| Electrical machinery nec            | 3,082                | 143.3 | 102.9 | 100.0 | 88.4  | 76.1  | 68.7  | 66.3  |
| Road vehicles                       | 93                   | 99.6  | 98.9  | 100.0 | 97.1  | 101.5 | 109.9 | 110.7 |
| Miscellaneous Manufactures          | 824                  | 102.3 | 99.7  | 100.0 | 98.9  | 95.7  | 94.8  | 95.0  |
| Prefab building, sanitary, lighting | 7                    | 87.2  | 88.0  | 100.0 | 100.7 | 97.9  | 98.6  | 101.9 |
| Furniture, bedding, mattresses      | 8                    | 106.5 | 97.8  | 100.0 | 100.2 | 96.5  | 94.1  | 92.9  |
| Travel goods                        | 4                    | na    | 98.2  | 100.0 | 100.0 | 96.3  | 96.3  | 96.3  |
| Clothing                            | 130                  | 106.7 | 100.6 | 100.0 | 97.7  | 93.9  | 89.9  | 87.7  |
| Footwear                            | 12                   | 102.7 | 99.6  | 100.0 | 102.9 | 107.4 | 108.1 | 108.7 |
| Scientific instruments              | 152                  | 88.9  | 104.1 | 100.0 | 103.0 | 99.6  | 96.7  | 95.9  |
| Photographic apparatus              | 160                  | 100.5 | 99.5  | 100.0 | 100.6 | 99.4  | 98.8  | 98.2  |
| Miscellaneous mfd articles nec      | 351                  | 109.7 | 97.6  | 100.0 | 96.6  | 92.4  | 93.5  | 95.2  |

<sup>1</sup> Based on value of the commodity item exported in 2000.



## 18.9 BUILDING MATERIALS PRICE INDEX

(1985=100)

| Building Material                         | Weights <sup>1</sup> | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|-------------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| All Items                                 | 10,000               | 118.2 | 111.9 | 112.4 | 112.5 | 112.5 | 113.6 | 117.9 |
| Timber & Wood Products                    | 585                  | 126.7 | 125.6 | 125.5 | 124.8 | 124.7 | 125.6 | 125.6 |
| Concrete Ingredients<br>(Granite)         | 872                  | 95.6  | 83.6  | 83.5  | 83.5  | 83.5  | 83.5  | 83.5  |
| Paints                                    | 292                  | 121.7 | 125.8 | 125.7 | 125.9 | 125.8 | 125.1 | 124.8 |
| Cement                                    | 1,338                | 136.3 | 110.0 | 109.4 | 110.7 | 108.7 | 108.9 | 111.8 |
| Bricks & Concrete Blocks                  | 2,076                | 114.6 | 112.8 | 113.0 | 113.1 | 113.0 | 112.6 | 112.9 |
| Tiles                                     | 952                  | 113.0 | 111.7 | 111.7 | 111.7 | 111.7 | 114.3 | 119.6 |
| Iron & Steel Products                     | 1,764                | 103.6 | 96.9  | 97.5  | 96.4  | 96.4  | 98.5  | 108.1 |
| Cables                                    | 646                  | 117.1 | 114.0 | 118.4 | 118.8 | 120.8 | 119.5 | 128.5 |
| Sanitary & Plumbing<br>Fixtures           | 69                   | 106.2 | 107.8 | 107.8 | 107.8 | 107.8 | 107.8 | 107.8 |
| Other Miscellaneous<br>Building Materials | 1,406                | 138.6 | 139.5 | 141.0 | 141.8 | 142.5 | 146.6 | 154.4 |

Source : Building and Construction Authority

Note : Prices used are ex-factory price of manufactured building material and CIF (Cost Insurance Freight) price of imported building materials.

<sup>1</sup> Based on the 1984 distribution pattern of building materials.

## 18.10 PRICE INDICES OF SELECTED FARM PRODUCTS

(1997=100)

| Farm Product     | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|------------------|-------|-------|-------|-------|-------|-------|-------|
| Pigs             | 88.4  | 134.6 | 144.4 | 142.2 | 146.7 | 149.9 | 159.6 |
| Chickens         | 107.7 | 95.3  | 89.5  | 86.2  | 83.0  | 86.6  | 102.6 |
| Ducks            | 100.4 | 96.9  | 87.0  | 84.2  | 89.0  | 93.0  | 124.8 |
| Hen Eggs         | 96.5  | 101.4 | 100.9 | 89.3  | 90.1  | 90.9  | 117.3 |
| Fresh Fish       | 90.8  | 95.5  | 99.5  | 104.3 | 106.6 | 103.4 | 105.2 |
| Fresh Prawns     | 93.0  | 102.5 | 103.9 | 107.8 | 107.3 | 99.9  | 93.9  |
| Leafy Vegetables | 125.0 | 104.6 | 97.1  | 95.5  | 122.2 | 109.3 | 108.8 |
| Orchid Flowers   | na    | 97.7  | 108.7 | 103.7 | 99.4  | 96.2  | 93.3  |

Note : Prices used for the respective indices are auction prices for pigs, fresh fish and prawns, wholesale prices for chickens and ducks and ex-farm prices for hen eggs, leafy vegetables and orchid flowers.



## 18.11

## PRIVATE PROPERTY PRICE INDEX BY TYPE OF PROPERTY

(4th Quarter 1998 =100)

(End of Period)

| Type of Property        | 1994  | 1999  | 2000  | 2001            | 2002  | 2003  | 2004  |
|-------------------------|-------|-------|-------|-----------------|-------|-------|-------|
| Residential             | 149.5 | 134.2 | 132.8 | 117.2           | 115.1 | 112.8 | 113.8 |
| Landed                  | 173.9 | 135.7 | 133.5 | 119.4           | 116.9 | 114.1 | 114.8 |
| Detached                | 192.3 | 135.5 | 130.2 | 118.6           | 117.4 | 115.0 | 115.5 |
| Semi-detached           | 161.2 | 132.1 | 136.1 | 117.0           | 115.5 | 113.9 | 113.6 |
| Terrace                 | 167.8 | 137.9 | 134.1 | 121.4           | 117.3 | 113.6 | 114.9 |
| Non-landed              | 129.7 | 133.6 | 132.4 | 116.2           | 114.2 | 112.3 | 113.5 |
| Apartment               | 136.4 | 132.4 | 131.3 | 112.2           | 109.6 | 111.8 | 115.5 |
| Condominium             | 126.9 | 134.0 | 132.8 | 117.6           | 115.9 | 112.5 | 112.7 |
| Commercial              |       |       |       |                 |       |       |       |
| Office Space            | 131.4 | 98.7  | 125.9 | 98.8            | 82.3  | 73.5  | 73.0  |
| Shop Space              | 129.3 | 90.3  | 104.1 | 93.3            | 90.1  | 86.2  | 86.6  |
| Industrial              | 104.0 | 94.9  | 111.5 | na <sup>1</sup> | 85.9  | 78.0  | 78.9  |
| Multiple-user Factory   | 102.6 | 94.4  | 110.5 | 92.7            | 84.3  | 76.8  | 78.1  |
| Multiple-user Warehouse | 114.7 | 96.8  | 117.5 | na <sup>1</sup> | 99.8  | 90.0  | 87.7  |

Source : Urban Redevelopment Authority

Note : The price index is computed based on fixed weights before 4th Quarter 1998. The weights used to compute the index are updated every quarter from 4th Quarter 1998.

1 No options caveat for multiple-user warehouses was lodged in 4th Quarter 2001.

## 18.12

## COMMERCIAL PROPERTY RENTAL INDEX BY TYPE OF PROPERTY

(4th Quarter 1998 =100)

(End of Period)

| Type of Property | 1999 | 2000  | 2001 | 2002 | 2003 | 2004 |
|------------------|------|-------|------|------|------|------|
| Office Space     |      |       |      |      |      |      |
| Central Region   | 90.7 | 102.1 | 94.1 | 82.5 | 73.8 | 76.4 |
| Central Area     | 90.5 | 102.2 | 94.2 | 82.9 | 73.6 | 76.5 |
| Fringe Area      | 91.7 | 101.3 | 93.2 | 79.5 | 74.6 | 76.2 |
| Shop Space       |      |       |      |      |      |      |
| Central Region   | 94.5 | 106.5 | 94.5 | 90.0 | 86.9 | 90.1 |
| Central Area     | 94.8 | 107.7 | 95.4 | 91.7 | 89.3 | 93.3 |
| Fringe Area      | 93.5 | 102.8 | 89.9 | 82.4 | 76.9 | 78.6 |

Source : Urban Redevelopment Authority

Note : Data refer to properties owned by the private sector.

The rental index is computed based on fixed weights before 4th Quarter 1998. The weights used to compute the index are updated every quarter from 4th Quarter 1998.



## EDUCATION

There are opportunities for every child in Singapore to undergo at least ten years of general education. A comprehensive, integrated education system is the national policy which allows each child to learn English and his mother tongue to the best of his abilities. This enables children to be proficient in English, which is the language of commerce, technology and administration, and their mother tongue, the language of their cultural heritage.

The *Ministry of Education* (M.E.) is responsible for the overall development of the education system. It sets the national curriculum and oversees the implementation of the curriculum. The *Ministry of Education* also oversees the development of the education system, including the development of the curriculum, the development of the teaching and learning process, and the development of the assessment system. The *Ministry of Education* also oversees the development of the education system, including the development of the curriculum, the development of the teaching and learning process, and the development of the assessment system.

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At the Primary level, pupils go through a four-year foundation stage (from

Primary One to Primary Four) and a three-year intermediate stage (from Primary Five to Primary Six). At the foundation stage, the emphasis is on literacy and numeracy skills. Eighty per cent of curriculum time is devoted to giving pupils a working knowledge of English and a good grounding in mother tongue and Mathematics. Pupils are also introduced to other subjects like Science, Social Studies, Art, Music, Physical Education, and Health Education. At the intermediate stage, the emphasis is on developing pupils' problem-solving skills and their ability to apply knowledge in practical situations. Pupils are also introduced to other subjects like Science, Social Studies, Art, Music, Physical Education, and Health Education.

At the end of primary schooling, all pupils take the Primary School Leaving Examination (PSLE). The PSLE is a national examination that assesses pupils' ability and places them in the appropriate secondary school course to suit their aptitude and interests. The PSLE is a national examination that assesses pupils' ability and places them in the appropriate secondary school course to suit their aptitude and interests.

Secondary Education is divided into two main streams: the Normal Academic Stream (NAS) and the Normal Technical Stream (NTS). The NAS is for pupils who are academically able and who are interested in pursuing a career in the professional or business fields. The NTS is for pupils who are academically able and who are interested in pursuing a career in the technical or vocational fields. The NAS is for pupils who are academically able and who are interested in pursuing a career in the professional or business fields. The NTS is for pupils who are academically able and who are interested in pursuing a career in the technical or vocational fields.



There are opportunities for every child in Singapore to undergo at least ten years of general education. A cornerstone of Singapore's education system is the bilingual policy which allows each child to learn English and his mother tongue to the best of his abilities. This enables children to be proficient in English, which is the language of commerce, technology and administration, and their mother tongue, the language of their cultural heritage.

Creativity and critical thinking skills are essential for the future. The Ministry of Education has taken on the challenge to develop and expand our students' creative potential and instill in them the desire for continual learning. In addition, Information Technology is used widely as teaching and learning resources to develop skills in communication and independent learning. National Education is also taught to foster strong bonds among students and develop in them a sense of responsibility and commitment to family, community and country.

The school system features a national curriculum, with major national examinations at the end of the primary, secondary and junior college years. However, greater flexibility and choice in education have been introduced in recent years. For example, the Integrated Programme (IP) which spans secondary and junior college education without intermediate national examinations at the end of secondary school, is for students who can benefit from a less structured environment. Selected schools can also offer alternative curricula and qualifications (e.g. International Baccalaureate).

### Primary Education

At the Primary level, pupils go through a four-year foundation stage (from

Primary One to Four), and a two-year orientation stage (from Primary Five to Six). At the foundation stage, the emphasis is basic literacy and numeracy skills. Eighty per cent of curriculum time is devoted to giving pupils a working knowledge of English and a good grounding in mother tongue and Mathematics. Civics and Moral Education are taught in the mother tongue. Pupils learn Music, Art and Crafts and Science, and participate in Physical Education and Extra-Curricular Activities. Science is taught from Primary 3 onwards and Social Studies from Primary 4 onwards.

At the end of primary schooling, all pupils take the Primary School Leaving Examination (PSLE), which assesses the pupils' ability and place them in the appropriate secondary school course to suit their learning pace and aptitude.

### Secondary Education

Secondary education may take four or five years, depending on the ability of the child. Pupils in the Special and Express courses sit for the General Certificate of Education 'Ordinary' Level (GCE 'O' Level) Examination at the end of their fourth year. Pupils in the Normal Course may take the Normal (Academic) or Normal (Technical) course, both of which lead to the General Certificate of Education 'Normal' Level (GCE 'N' Level) Examination at the end of their fourth year. Those who do well may undertake a fifth year of study in preparation for the GCE 'O' Level.

### Post Secondary Education

On completing secondary education, pupils can enter a junior college for a two-year pre-university course or a centralised institute for a three-year course. At the end of the pre-



university course, pupils sit for the General Certificate of Education 'Advanced' Level (GCE 'A' Level) Examination.

Pupils interested in technical and commercial studies can join the polytechnics for diploma courses or the Institute of Technical Education's technical institutes for Higher National ITE Certificate (*Higher Nitec*) or National ITE Certificate (*Nitec*) courses. Polytechnic graduates who do well may also pursue degree courses at the universities. ITE graduates who perform well may pursue diploma courses at the Polytechnics.

### Institute of Technical Education

The Institute of Technical Education (ITE) was established on 1 April 1992 as a post-secondary institution, providing pre-employment training for secondary school leavers, as well as part-time education and skills training for adult learners.

At ITE, full-time training and traineeship programmes are offered to school leavers with GCE 'O' and 'N' qualifications.

Full-time programmes, which lead to the award of the Higher National ITE Certificate (*Higher Nitec*) and National ITE Certificate (*Nitec*), are covered in the areas of engineering and technical skills, business and services, information communications technology and healthcare services.

Traineeship is an 'earn-as-you-learn' scheme for secondary school leavers. It has two training components, namely, On-the-Job Training (OJT) and Off-the-Job Training (Off-JT). OJT is conducted by the company on its premises. Off-JT, however, could be provided by ITE, industry training centres or companies certified by ITE as Approved Training Centres.

For adult learners, skills training and academic education programmes are offered. Employees can also undergo On-the-Job Training (OJT) in companies which are Certified OJT Centres or Approved Training Centres. In addition, ITE conducts skills evaluation tests for public candidates and instructional skills and related programmes for industry trainers.

Adult learners may choose from a range of *Master Nitec*, *Higher Nitec*, *Nitec* and ITE Skills Certificate (ISC) courses to upgrade their skills. The programmes are offered in modules of 6 months' duration, giving adults the flexibility to sign up for training based on their needs. Those who have acquired the *Nitec/Higher Nitec* qualification may continue to update their skills and knowledge through the *Post-Nitec* courses.

For adult learners who wish to upgrade themselves academically, the options offered by ITE are:

- The Basic Education for Skills Training (BEST) programme which enables working adults to acquire basic proficiency in English so that they can further their education and training.
- The Worker Improvement through Secondary Education (WISE) programme enables working adults who have completed their primary education or the BEST programme to take the GCE 'N' level examination in English Language.
- ITE also offers part-time general education programmes from Secondary 1 Normal to GCE 'N', GCE 'O' and GCE 'A' levels. These programmes provide working adults the opportunity to acquire academic qualifications.



## Higher Learning

The institutions of higher learning in Singapore are the National University of Singapore, Nanyang Technological University, Singapore Management University, Open University, Singapore Polytechnic, Ngee Ann Polytechnic, Temasek Polytechnic, Nanyang Polytechnic and Republic Polytechnic.

*The National University of Singapore* (NUS) was established in August 1980 with the merger of the University of Singapore (founded in 1962) and Nanyang University (founded in 1956).

The University has 12 faculties, namely: Arts and Social Sciences, Business, Computing, Design and Environment, Dentistry, Engineering, Law, Lee Kuan Yew School of Public Policy, Medicine, Science, University Scholars Programme and Yong Siew Toh Conservatory of Music.

All facilities offer courses leading to first degrees as well as higher degrees.

There is also a teaching institute known as the Institute of Systems Science.

NUS has also established specialist research institutes and centres to provide facilities and promote research and advanced training in areas of strategic importance to the nation's development, and to spearhead research and development for specific applications in technology, industry and business.

*The Nanyang Technological University* (NTU) was established on 1 July 1991. NTU has its origin in the former Nanyang Technological Institute that was set up in 1981. It has 12 schools, namely, the Nanyang Business School; the Schools of Art, Design and Media, Biological Sciences, Chemical & Biomedical Engineering, Civil and Environmental Engineering, Computer

Engineering, Communication Studies and Information, Electrical and Electronic Engineering, Humanities and Social Sciences, Materials Science and Engineering, Mechanical and Aerospace Engineering, and Physical and Mathematical Sciences. The Schools offer undergraduate courses as well as a range of graduate programmes leading to the degrees of Master, Doctor of Philosophy and postgraduate diplomas.

To facilitate research and advanced training, 38 research centres have been set up hosted by various schools. These include the Satellite Engineering Centre and the Global Positioning Systems Centre. With its focus on pioneering innovative and reliable homegrown technologies, NTU has 29 spin-off companies specialising in e-commerce, IT, electronics and manufacturing process. NTU also has links with 244 overseas institutions with programmes enabling students to study at overseas universities.

*The National Institute of Education* (NIE), formed in July 1991 by the merging of the former Institute of Education and the College of Physical Education, became part of NTU on the same day. NIE provides professional training for teachers as well as the study of a wide range of academic subjects.

NIE offers the four-year Bachelor of Arts (Education) and Bachelor of Science (Education) courses as well as the two-year Diploma in Education and Diploma in Physical Education Programmes for holders of GCE 'A' Level and Polytechnic Diploma qualifications. It also offers the Postgraduate Diploma in Education Programme for university graduates. In addition to the initial teacher-training programmes, NIE conducts a variety of in-service training programmes. Facilities are also available at NIE for higher degree studies leading to the degrees of Master and Doctor of Philosophy.



19 EDUCATION (cont'd)

*The Singapore Management University* (SMU) is Singapore's first university to offer an American-style university education. It is modeled on the Wharton School of the University of Pennsylvania.

SMU presently offers the Bachelor of Business Management, Bachelor of Accountancy, Bachelor of Science (Economics), Bachelor of Science (Information Systems Management), Bachelor of Social Science, Master of Science in Applied Finance and Master of Science in Wealth Management programmes. It also offers MSc and PhD programmes by research.

*The Singapore Institute of Management Open University Centre (SIM-OUC)* was previously known as the SIM Open University Degree Programme. It is run by the SIM, which was appointed by the Ministry of Education in 1992. The SIM-OUC is now an accredited institution of The Open University (UK). It offers courses leading to Bachelor's degrees majoring in Chinese Language and Literature, English Language and Literature, Communication Studies, Psychology,

Business Studies, Business Finance, Marketing, Mathematics, Computer Science, Information Technology, Electronics, Biomedical Engineering, and Multimedia Technology and Design. It also offers a Master's degree in Chinese Language and Literature.

*Polytechnics:* There are five polytechnics offering a wide range of courses at diploma and advanced diploma levels. They are the Singapore Polytechnic, Ngee Ann Polytechnic, Temasek Polytechnic, Nanyang Polytechnic and Republic Polytechnic. Each polytechnic specialises in specific fields, in addition to various engineering, business, management and information technology courses. These specialised fields include architectural studies, aeronautical engineering, maritime studies, media and communication, publishing, design, tourism and hospitality management, law and management, library studies, health sciences, optometry, cardiac technology, sonography, police studies and security management, insurance practice and pre-school education. Some of the courses are conducted on a part-time basis for working adults.



# 19.1 ENROLMENT IN EDUCATIONAL INSTITUTIONS

|                                               | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
|-----------------------------------------------|---------|---------|---------|---------|---------|---------|
| Total                                         | 621,232 | 633,451 | 646,310 | 659,680 | 669,858 | 675,990 |
| Primary Schools                               | 299,959 | 305,705 | 302,566 | 302,501 | 299,939 | 296,419 |
| Secondary Schools                             | 172,259 | 175,405 | 187,081 | 194,002 | 206,426 | 213,534 |
| Pre-University <sup>1</sup>                   | 24,834  | 24,804  | 24,376  | 25,376  | 24,559  | 24,681  |
| Institute of Technical Education <sup>2</sup> | 16,390  | 15,974  | 16,176  | 17,468  | 17,941  | 19,207  |
| Polytechnics <sup>3</sup>                     | 57,126  | 58,372  | 59,806  | 61,832  | 62,206  | 62,031  |
| National Institute of Education               | 3,317   | 3,335   | 3,883   | 4,098   | 3,361   | 3,042   |
| Universities <sup>4</sup>                     | 47,347  | 49,856  | 52,422  | 54,403  | 55,426  | 57,076  |

Source : Ministry of Education

Note : Data for primary, secondary and pre-university exclude private schools.

1 Include Centralised Institutes and Junior Colleges.

2 From 2000 onwards, data refer to full-time peak student enrolment. Prior to 2000, data refer to full-time average student enrolment.

3 Refer to full-time and part-time diploma and advanced diploma students in Singapore Polytechnic, Ngee Ann Polytechnic, Temasek Polytechnic, Nanyang Polytechnic and Republic Polytechnic.

4 Refer to full-time and part-time undergraduate and postgraduate students in National University of Singapore, Nanyang Technological University and Singapore Management University.

# 19.2 STUDENTS AND TEACHERS IN EDUCATIONAL INSTITUTIONS, 2004

|                                               | Instituti-<br>ons <sup>1</sup> | Students |         |         | Teachers |        |         |
|-----------------------------------------------|--------------------------------|----------|---------|---------|----------|--------|---------|
|                                               |                                | Total    | Males   | Females | Total    | Males  | Females |
| Total                                         | 376                            | 675,990  | 354,803 | 321,187 | 34,169   | 12,621 | 21,548  |
| Primary Schools                               | 177                            | 296,419  | 153,483 | 142,936 | 12,209   | 2,058  | 10,151  |
| Secondary Schools                             | 163                            | 213,534  | 110,398 | 103,136 | 11,240   | 3,754  | 7,486   |
| Pre-University <sup>2</sup>                   | 17                             | 24,681   | 11,511  | 13,170  | 2,267    | 938    | 1,329   |
| Institute of Technical Education <sup>3</sup> | 10                             | 19,207   | 13,131  | 6,076   | 1,378    | 947    | 431     |
| Polytechnics <sup>4</sup>                     | 5                              | 62,031   | 33,970  | 28,061  | 3,512    | 2,241  | 1,271   |
| National Institute of Education               | 1                              | 3,042    | 1,037   | 2,005   | 426      | 239    | 187     |
| Universities <sup>5</sup>                     | 3                              | 57,076   | 31,273  | 25,803  | 3,137    | 2,444  | 693     |

Source : Ministry of Education

Notes : Figures for primary, secondary and pre-university exclude private schools.

Figures for institutions of higher learning include part-time students and teachers.

1 A school conducting both primary and secondary classes is treated as one primary and one secondary school.

2 Include Centralised Institutes and Junior Colleges.

3 Data refer to full-time teaching staff and students.

4 Include Singapore Polytechnic, Ngee Ann Polytechnic, Temasek Polytechnic, Nanyang Polytechnic and Republic Polytechnic.

5 Include National University of Singapore, Nanyang Technological University and Singapore Management University.



## 19.3

# ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED PRIMARY SCHOOLS BY LEVEL AND AGE

|                       |  |  | 1994    | 1999    | 2000    | 2001    | 2002    | 2003    | Number  |
|-----------------------|--|--|---------|---------|---------|---------|---------|---------|---------|
|                       |  |  |         |         |         |         |         |         | 2004    |
| Total                 |  |  | 251,005 | 299,959 | 305,705 | 302,566 | 302,501 | 299,939 | 296,419 |
| <b>Level</b>          |  |  |         |         |         |         |         |         |         |
| Primary 1             |  |  | 43,684  | 49,832  | 50,204  | 49,774  | 49,006  | 49,044  | 47,256  |
| Primary 2             |  |  | 38,319  | 49,941  | 49,844  | 50,248  | 49,799  | 49,027  | 48,905  |
| Primary 3             |  |  | 42,030  | 52,146  | 50,019  | 49,925  | 50,383  | 49,933  | 49,035  |
| Primary 4             |  |  | 41,113  | 48,753  | 52,116  | 50,097  | 49,982  | 50,452  | 49,929  |
| Primary 5             |  |  | 40,221  | 53,833  | 48,749  | 52,178  | 50,167  | 50,111  | 50,399  |
| EM1                   |  |  | 6,784   | 10,067  | 10,238  | 11,252  | 10,398  | 10,798  | 47,210  |
| EM2                   |  |  | 30,277  | 39,235  | 34,369  | 37,848  | 36,459  | 36,134  | -       |
| EM3                   |  |  | 3,160   | 4,531   | 4,142   | 3,078   | 3,310   | 3,179   | 3,189   |
| Primary 6             |  |  | 45,638  | 45,454  | 54,773  | 50,344  | 53,164  | 51,372  | 50,895  |
| EM1                   |  |  | 6,078   | 7,517   | 9,239   | 8,939   | 9,591   | 8,888   | 45,402  |
| EM2                   |  |  | 30,623  | 29,926  | 36,959  | 34,705  | 37,821  | 36,330  | -       |
| EM3                   |  |  | 8,937   | 8,011   | 8,575   | 6,700   | 5,752   | 6,154   | 5,493   |
| <b>Age (in years)</b> |  |  |         |         |         |         |         |         |         |
| Under 7               |  |  | 43,222  | 49,114  | 49,593  | 49,072  | 48,134  | 48,093  | 46,367  |
| 7 & Under 8           |  |  | 37,926  | 49,388  | 49,413  | 49,928  | 49,495  | 48,456  | 48,327  |
| 8 & Under 9           |  |  | 41,719  | 51,607  | 49,441  | 49,442  | 49,961  | 49,572  | 48,494  |
| 9 & Under 10          |  |  | 40,775  | 48,285  | 51,531  | 49,505  | 49,530  | 50,057  | 49,574  |
| 10 & Under 11         |  |  | 39,895  | 53,655  | 48,297  | 51,589  | 49,528  | 49,613  | 49,983  |
| 11 & Under 12         |  |  | 41,880  | 43,948  | 53,632  | 48,265  | 51,590  | 49,526  | 49,585  |
| 12 & Under 13         |  |  | 3,628   | 2,404   | 2,415   | 3,175   | 2,580   | 2,874   | 2,356   |
| 13 & Under 14         |  |  | 1,821   | 1,209   | 1,034   | 1,247   | 1,299   | 1,328   | 1,275   |
| 14 & Over             |  |  | 139     | 349     | 349     | 343     | 384     | 420     | 458     |

Source : Ministry of Education

Notes : EM1 refers to the stream where pupils learn English and the mother tongue at higher level (Higher Chinese, Higher Malay or Higher Tamil formerly known as CL1, ML1 and TL1).

EM2 refers to the stream where pupils learn English and the mother tongue (Chinese, Malay or Tamil formerly known as CL2, ML2 and TL2).

EM3 refers to the stream where pupils learn English and the mother tongue (Chinese, Malay or Tamil) at basic proficiency level.

From 2004, the distinction between the EM1 and EM2 streams will be removed and schools will have the autonomy to decide on how best to band their pupils by ability, in ways that add the most educational value.



## 19.4

## ENROLMENT IN GOVERNMENT AND GOVERNMENT-AIDED SECONDARY SCHOOLS AND JUNIOR COLLEGES BY LEVEL AND AGE

|                       | 1994    | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|
| <b>Total</b>          | 196,791 | 197,093 | 200,209 | 211,457 | 219,378 | 230,985 | 238,215 |
| <b>Level</b>          |         |         |         |         |         |         |         |
| Secondary 1           | 54,587  | 38,871  | 44,417  | 53,070  | 49,281  | 51,984  | 50,458  |
| Special               | 3,671   | 3,748   | 4,182   | 5,175   | 4,469   | 4,565   | 4,696   |
| Express               | 25,265  | 19,947  | 22,585  | 27,633  | 26,354  | 28,286  | 26,856  |
| Normal (Academic)     | 17,063  | 8,899   | 9,855   | 11,983  | 10,992  | 12,534  | 11,596  |
| Normal (Technical)    | 8,588   | 6,277   | 7,795   | 8,279   | 7,466   | 6,599   | 7,310   |
| Secondary 2           | 36,776  | 42,411  | 38,985  | 44,482  | 53,211  | 49,335  | 52,124  |
| Special               | 2,873   | 4,150   | 3,766   | 4,149   | 5,071   | 4,408   | 4,541   |
| Express               | 21,433  | 21,839  | 19,939  | 22,569  | 27,628  | 26,029  | 28,001  |
| Normal (Academic)     | 12,470  | 10,167  | 9,472   | 10,590  | 12,729  | 11,747  | 13,257  |
| Normal (Technical)    | -       | 6,255   | 5,808   | 7,174   | 7,783   | 7,151   | 6,325   |
| Secondary 3           | 36,970  | 42,906  | 43,486  | 40,063  | 45,529  | 54,608  | 51,010  |
| Special               | 2,805   | 4,302   | 4,329   | 3,917   | 4,229   | 5,137   | 4,638   |
| Express               | 21,116  | 22,146  | 22,573  | 20,400  | 23,156  | 28,325  | 26,538  |
| Normal (Academic)     | 13,049  | 10,455  | 10,609  | 10,119  | 11,242  | 13,572  | 12,941  |
| Normal (Technical)    | -       | 6,003   | 5,975   | 5,627   | 6,902   | 7,574   | 6,893   |
| Secondary 4           | 35,433  | 39,843  | 41,111  | 41,578  | 37,849  | 43,207  | 51,848  |
| Special               | 2,480   | 3,659   | 4,100   | 4,011   | 3,614   | 3,955   | 4,688   |
| Express               | 20,935  | 21,276  | 21,299  | 21,744  | 19,308  | 22,140  | 27,285  |
| Normal (Academic)     | 12,018  | 9,580   | 10,058  | 10,258  | 9,624   | 10,610  | 12,636  |
| Normal (Technical)    | -       | 5,328   | 5,654   | 5,565   | 5,303   | 6,502   | 7,239   |
| Secondary 5           | 10,168  | 8,228   | 7,406   | 7,888   | 8,132   | 7,292   | 8,094   |
| Normal (Academic)     | 10,168  | 8,228   | 7,406   | 7,888   | 8,132   | 7,292   | 8,094   |
| Pre-University 1      | 1,047   | 479     | 394     | 339     | 361     | 339     | 444     |
| Pre-University 2      | 1,128   | 366     | 421     | 322     | 279     | 289     | 279     |
| Pre-University 3      | 1,482   | 248     | 289     | 371     | 280     | 223     | 246     |
| Junior College 1      | 9,566   | 12,373  | 11,797  | 12,148  | 13,043  | 11,539  | 12,991  |
| Junior College 2      | 9,634   | 11,368  | 11,903  | 11,196  | 11,413  | 12,169  | 10,721  |
| <b>Age (in years)</b> |         |         |         |         |         |         |         |
| Under 12              | 22      | 44      | 33      | 33      | 35      | 21      | 12      |
| 12 & Under 13         | 38,239  | 36,259  | 41,677  | 50,561  | 45,879  | 48,858  | 47,178  |
| 13 & Under 14         | 38,992  | 41,105  | 37,569  | 42,760  | 52,351  | 47,116  | 50,327  |
| 14 & Under 15         | 39,225  | 40,343  | 41,451  | 37,837  | 43,205  | 52,839  | 47,683  |
| 15 & Under 16         | 35,312  | 38,998  | 40,195  | 41,263  | 37,809  | 43,323  | 52,930  |
| 16 & Under 17         | 23,212  | 23,395  | 22,059  | 22,550  | 23,325  | 21,497  | 24,140  |
| 17 & Under 18         | 17,117  | 14,253  | 14,608  | 13,696  | 13,955  | 14,385  | 12,969  |
| 18 & Under 19         | 3,654   | 2,229   | 2,139   | 2,250   | 2,163   | 2,313   | 2,269   |
| 19 & Under 20         | 837     | 422     | 405     | 434     | 566     | 539     | 605     |
| 20 & Over             | 181     | 45      | 73      | 73      | 90      | 94      | 102     |

Source : Ministry of Education



# 19.5 PRIVATE REGULAR SCHOOLS, STUDENTS AND TEACHERS

|                | 1994  | 1999 | 2000 | 2001 | 2002 | 2003  | Number<br>2004 |
|----------------|-------|------|------|------|------|-------|----------------|
| Schools        | 4     | 3    | 2    | 2    | 2    | 2     | 2              |
| Students       | 1,282 | 991  | 783  | 719  | 835  | 1,014 | 784            |
| Primary        | 92    | 73   | 67   | 70   | 51   | 106   | 64             |
| Secondary      | 549   | 652  | 609  | 532  | 639  | 713   | 588            |
| Pre-university | 641   | 266  | 107  | 117  | 145  | 195   | 132            |
| Teachers       | 56    | 65   | 57   | 58   | 69   | 63    | 61             |

Source : Ministry of Education

## 19.6 ENROLMENT AT PRIMARY, SECONDARY AND PRE-UNIVERSITY LEVELS IN PRIVATE REGULAR SCHOOLS BY LEVEL

| Level          | 1994  | 1999 | 2000 | 2001 | 2002 | 2003  | Number<br>2004 |
|----------------|-------|------|------|------|------|-------|----------------|
| Total          | 1,282 | 991  | 783  | 719  | 835  | 1,014 | 784            |
| Primary        | 92    | 73   | 67   | 70   | 51   | 106   | 64             |
| Primary 1      | 6     | 8    | 5    | 10   | 2    | 2     | 1              |
| Primary 2      | 8     | 11   | 9    | 4    | 11   | 6     | 5              |
| Primary 3      | 12    | 10   | 11   | 9    | 5    | 9     | 8              |
| Primary 4      | 10    | 6    | 9    | 14   | 15   | 7     | 11             |
| Primary 5      | 17    | 14   | 12   | 7    | 13   | 11    | 8              |
| Primary 6      | 39    | 24   | 21   | 26   | 5    | 71    | 31             |
| Secondary      | 549   | 652  | 609  | 532  | 639  | 713   | 588            |
| Secondary 1    | 156   | 91   | 95   | 45   | 82   | 124   | 96             |
| Secondary 2    | 163   | 84   | 112  | 70   | 97   | 176   | 123            |
| Secondary 3    | 137   | 145  | 164  | 170  | 147  | 195   | 176            |
| Secondary 4    | 93    | 332  | 238  | 247  | 313  | 218   | 193            |
| Pre-university | 641   | 266  | 107  | 117  | 145  | 195   | 132            |

Source : Ministry of Education



# 19.7 STUDENTS ADMITTED TO INSTITUTIONS OF HIGHER LEARNING BY SEX

|                                              | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
|----------------------------------------------|--------|--------|--------|--------|--------|--------|
| <b>FULL-TIME</b>                             |        |        |        |        |        |        |
| Polytechnics <sup>1</sup>                    | 17,612 | 17,721 | 18,170 | 18,394 | 18,093 | 19,646 |
| Males                                        | 9,325  | 9,324  | 9,605  | 9,404  | 9,338  | 10,287 |
| Females                                      | 8,287  | 8,397  | 8,565  | 8,990  | 8,755  | 9,359  |
| National Institute of Education <sup>2</sup> | 2,167  | 1,884  | 2,347  | 2,589  | 1,800  | 1,831  |
| Males                                        | 600    | 556    | 666    | 767    | 580    | 626    |
| Females                                      | 1,567  | 1,328  | 1,681  | 1,822  | 1,220  | 1,205  |
| Universities <sup>3</sup>                    | 10,619 | 11,232 | 11,153 | 11,040 | 11,429 | 12,254 |
| Males                                        | 5,256  | 5,470  | 5,293  | 5,312  | 5,647  | 6,025  |
| Females                                      | 5,363  | 5,762  | 5,860  | 5,728  | 5,782  | 6,229  |
| <b>PART-TIME</b>                             |        |        |        |        |        |        |
| Polytechnics <sup>1</sup>                    | 1,124  | 1,072  | 1,674  | 1,685  | 1,196  | 1,204  |
| Males                                        | 944    | 893    | 1,387  | 1,405  | 1,060  | 1,029  |
| Females                                      | 180    | 179    | 287    | 280    | 136    | 175    |
| National Institute of Education <sup>2</sup> | 34     | 59     | 27     | 49     | 43     | 58     |
| Males                                        | 11     | 23     | 5      | 19     | 10     | 9      |
| Females                                      | 23     | 36     | 22     | 30     | 33     | 49     |
| Universities <sup>3</sup>                    | 478    | 466    | 450    | 437    | 488    | 378    |
| Males                                        | 357    | 341    | 349    | 332    | 345    | 255    |
| Females                                      | 121    | 125    | 101    | 105    | 143    | 123    |

Source : National University of Singapore  
Nanyang Technological University  
Singapore Management University

National Institute of Education  
Singapore Polytechnic  
Ngee Ann Polytechnic

Temasek Polytechnic  
Nanyang Polytechnic  
Republic Polytechnic

Note : Data refer to academic year.

Figures include direct entry to second and subsequent years.

1 Data for polytechnics refer to diploma students only.

2 Data for National Institute of Education exclude higher degrees and BA/BSc with Dip Ed which are included under universities.

3 Data for universities refer to undergraduates.



# 19.8 ENROLMENT IN INSTITUTIONS OF HIGHER LEARNING BY SEX

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# 19.9 GRADUATES FROM INSTITUTIONS OF HIGHER LEARNING BY SEX

|                                              | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
|----------------------------------------------|--------|--------|--------|--------|--------|--------|
| <b>FULL-TIME</b>                             |        |        |        |        |        |        |
| Polytechnics <sup>1</sup>                    | 13,674 | 14,058 | 14,937 | 15,581 | 15,404 | 16,834 |
| Males                                        | 7,317  | 7,348  | 7,695  | 8,104  | 7,949  | 8,718  |
| Females                                      | 6,357  | 6,710  | 7,242  | 7,477  | 7,455  | 8,116  |
| National Institute of Education <sup>2</sup> | 1,573  | 2,424  | 2,121  | 2,132  | 2,736  | 2,523  |
| Males                                        | 450    | 761    | 613    | 605    | 794    | 758    |
| Females                                      | 1,123  | 1,663  | 1,508  | 1,527  | 1,942  | 1,765  |
| Universities <sup>3</sup>                    | 9,355  | 9,244  | 9,586  | 9,924  | 10,010 | 10,231 |
| Males                                        | 4,485  | 4,391  | 4,492  | 4,609  | 4,948  | 5,012  |
| Females                                      | 4,870  | 4,853  | 5,094  | 5,315  | 5,062  | 5,219  |
| <b>PART-TIME</b>                             |        |        |        |        |        |        |
| Polytechnics <sup>1</sup>                    | 967    | 1,015  | 1,029  | 1,004  | 713    | 1,003  |
| Males                                        | 794    | 834    | 850    | 810    | 607    | 819    |
| Females                                      | 173    | 181    | 179    | 194    | 106    | 184    |
| National Institute of Education <sup>2</sup> | 39     | 36     | 37     | 28     | 36     | 29     |
| Males                                        | 21     | 10     | 18     | 6      | 13     | 5      |
| Females                                      | 18     | 26     | 19     | 22     | 23     | 24     |
| Universities <sup>3</sup>                    | 108    | 162    | 273    | 288    | 353    | 314    |
| Males                                        | 88     | 145    | 243    | 249    | 249    | 234    |
| Females                                      | 20     | 17     | 30     | 39     | 104    | 80     |

Source : National University of Singapore  
Nanyang Technological University  
Singapore Management University

National Institute of Education  
Singapore Polytechnic  
Ngee Ann Polytechnic

Temasek Polytechnic  
Nanyang Polytechnic

Note : Data refer to academic year.

1 Data for polytechnics refer to diploma students only.

2 Data for National Institute of Education exclude higher degrees and BA/BSc with Dip Ed which are included under universities.

3 Data for universities refer to first degree graduates.



## 19.10

## ENROLMENT IN POLYTECHNIC DIPLOMA COURSES BY TYPE OF COURSE

| Type of Course                         | Number |        |        |        |        |        |
|----------------------------------------|--------|--------|--------|--------|--------|--------|
|                                        | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
| <b>MALES</b>                           | 30,725 | 31,108 | 31,813 | 32,783 | 32,848 | 32,962 |
| Education                              | 4      | 11     | 12     | 9      | 7      | 6      |
| Applied Arts <sup>1</sup>              | 769    | 841    | 861    | 865    | 845    | 910    |
| Mass Communication                     | 156    | 172    | 219    | 291    | 326    | 357    |
| Library Science                        | 9      | 8      | 8      | 38     | 52     | 64     |
| Business & Administration <sup>2</sup> | 2,947  | 3,064  | 3,116  | 3,072  | 2,941  | 2,991  |
| Legal Studies                          | 98     | 109    | 128    | 114    | 107    | 118    |
| Science & Related Technologies         | 409    | 444    | 509    | 774    | 971    | 1,068  |
| Health Sciences                        | 360    | 350    | 396    | 361    | 562    | 848    |
| Information Technology                 | 3,974  | 4,801  | 5,639  | 6,723  | 6,907  | 6,876  |
| Architecture & Building <sup>3</sup>   | 892    | 745    | 626    | 588    | 556    | 588    |
| Engineering Sciences                   | 20,677 | 20,097 | 19,823 | 19,424 | 19,066 | 18,569 |
| Services <sup>4</sup>                  | 430    | 466    | 476    | 524    | 508    | 567    |
| <b>FEMALES</b>                         | 24,209 | 24,936 | 25,686 | 26,535 | 27,113 | 27,379 |
| Education                              | 82     | 194    | 292    | 326    | 350    | 413    |
| Applied Arts <sup>1</sup>              | 818    | 864    | 881    | 969    | 1,044  | 1,210  |
| Mass Communication                     | 438    | 412    | 540    | 645    | 762    | 828    |
| Library Science                        | 68     | 44     | 44     | 94     | 154    | 216    |
| Business & Administration <sup>2</sup> | 7,838  | 7,929  | 7,928  | 7,876  | 7,585  | 7,263  |
| Legal Studies                          | 222    | 229    | 274    | 259    | 245    | 230    |
| Science & Related Technologies         | 1,073  | 1,168  | 1,104  | 1,341  | 1,406  | 1,573  |
| Health Sciences                        | 1,800  | 1,793  | 2,058  | 2,180  | 2,849  | 3,632  |
| Information Technology                 | 2,423  | 2,898  | 3,555  | 4,305  | 4,808  | 4,869  |
| Architecture & Building <sup>3</sup>   | 918    | 917    | 964    | 931    | 857    | 833    |
| Engineering Sciences                   | 8,412  | 8,352  | 7,906  | 7,460  | 6,876  | 6,145  |
| Services <sup>4</sup>                  | 117    | 136    | 140    | 149    | 177    | 167    |

Source : Singapore Polytechnic  
Ngee Ann Polytechnic

Temasek Polytechnic  
Nanyang Polytechnic

Republic Polytechnic

Note : Data are classified according to the Singapore Standard Educational Classification 2000.

Cover full-time and part-time polytechnic diploma courses.

1 Include Digital Media Design and Media Production.

2 Include Accountancy.

3 Include Real Estate.

4 Include Maritime Transportation, Nautical Studies and Police Studies.



## 19.11

## ENROLMENT IN UNIVERSITY FIRST DEGREE COURSES BY TYPE OF COURSE

| Type of Course                                            | Number |        |        |        |        |        |
|-----------------------------------------------------------|--------|--------|--------|--------|--------|--------|
|                                                           | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
| <b>MALES</b>                                              | 18,319 | 19,556 | 20,354 | 20,896 | 21,275 | 21,934 |
| Applied Arts <sup>1</sup>                                 | 14     | 22     | 35     | 48     | 83     | 100    |
| Humanities & Social Sciences <sup>2</sup>                 | 1,578  | 1,598  | 1,644  | 1,618  | 1,649  | 1,749  |
| Mass Communication                                        | 141    | 136    | 134    | 137    | 134    | 132    |
| Accountancy                                               | 760    | 715    | 712    | 711    | 672    | 697    |
| Business & Administration                                 | 1,136  | 1,159  | 1,130  | 1,227  | 1,406  | 1,597  |
| Law                                                       | 269    | 248    | 251    | 245    | 273    | 314    |
| Natural, Physical &<br>Mathematical Sciences <sup>3</sup> | 1,128  | 1,243  | 1,376  | 1,530  | 1,602  | 1,667  |
| Medicine                                                  | 604    | 611    | 650    | 671    | 673    | 684    |
| Dentistry                                                 | 83     | 83     | 85     | 80     | 78     | 80     |
| Health Sciences                                           | 66     | 66     | 65     | 68     | 71     | 70     |
| Information Technology                                    | 1,062  | 1,236  | 1,319  | 1,283  | 1,230  | 1,206  |
| Architecture & Building <sup>4</sup>                      | 504    | 578    | 608    | 629    | 593    | 610    |
| Engineering Sciences                                      | 10,974 | 11,861 | 12,345 | 12,649 | 12,811 | 13,018 |
| Services <sup>5</sup>                                     | -      | -      | -      | -      | -      | 10     |
| <b>FEMALES</b>                                            | 16,783 | 18,092 | 19,217 | 19,844 | 20,410 | 21,252 |
| Applied Arts <sup>1</sup>                                 | 11     | 26     | 37     | 49     | 91     | 126    |
| Humanities & Social Sciences <sup>2</sup>                 | 4,337  | 4,447  | 4,448  | 4,420  | 4,373  | 4,438  |
| Mass Communication                                        | 339    | 361    | 399    | 413    | 474    | 490    |
| Accountancy                                               | 1,548  | 1,567  | 1,543  | 1,498  | 1,497  | 1,698  |
| Business & Administration                                 | 2,563  | 2,593  | 2,632  | 2,738  | 2,865  | 3,024  |
| Law                                                       | 334    | 350    | 378    | 435    | 479    | 502    |
| Natural, Physical &<br>Mathematical Sciences <sup>3</sup> | 2,188  | 2,430  | 2,734  | 2,892  | 3,222  | 3,236  |
| Medicine                                                  | 284    | 336    | 386    | 410    | 441    | 461    |
| Dentistry                                                 | 53     | 56     | 52     | 56     | 60     | 61     |
| Health Sciences                                           | 183    | 223    | 249    | 257    | 273    | 277    |
| Information Technology                                    | 603    | 688    | 804    | 785    | 686    | 651    |
| Architecture & Building <sup>4</sup>                      | 815    | 847    | 886    | 883    | 881    | 926    |
| Engineering Sciences                                      | 3,525  | 4,168  | 4,669  | 5,008  | 5,068  | 5,319  |
| Services <sup>5</sup>                                     | -      | -      | -      | -      | -      | 43     |

Source : National University of Singapore  
Nanyang Technological University  
Singapore Management University

Note : Data are classified according to the Singapore Standard Educational Classification 2000.

Cover full-time and part-time first degree courses.

- 1 Include Industrial Design.
- 2 Include Arts with Diploma in Education.
- 3 Include Science with Diploma in Education.
- 4 Include Real Estate.
- 5 Include Maritime Studies.



## 19.12

## GRADUATES FROM POLYTECHNIC DIPLOMA COURSES BY TYPE OF COURSE

| Type of Course                         | Number |       |       |       |       |       |
|----------------------------------------|--------|-------|-------|-------|-------|-------|
|                                        | 1999   | 2000  | 2001  | 2002  | 2003  | 2004  |
| <b>MALES</b>                           | 8,111  | 8,182 | 8,545 | 8,914 | 8,556 | 9,537 |
| Education                              | -      | -     | -     | 3     | 5     | 4     |
| Applied Arts <sup>1</sup>              | 140    | 191   | 213   | 234   | 254   | 243   |
| Mass Communication                     | 59     | 49    | 51    | 43    | 63    | 90    |
| Library Science                        | -      | 4     | 3     | 2     | 3     | 3     |
| Business & Administration <sup>2</sup> | 884    | 832   | 861   | 904   | 946   | 896   |
| Legal Studies                          | 19     | 29    | 19    | 54    | 38    | 23    |
| Science & Related Technologies         | 112    | 113   | 135   | 121   | 129   | 214   |
| Health Sciences                        | 85     | 83    | 126   | 92    | 100   | 127   |
| Information Technology                 | 795    | 904   | 1,193 | 1,455 | 1,603 | 1,974 |
| Architecture & Building <sup>3</sup>   | 283    | 308   | 282   | 225   | 171   | 158   |
| Engineering Sciences                   | 5,622  | 5,525 | 5,462 | 5,573 | 5,000 | 5,580 |
| Services <sup>4</sup>                  | 112    | 144   | 200   | 208   | 244   | 225   |
| <b>FEMALES</b>                         | 6,530  | 6,891 | 7,421 | 7,671 | 7,561 | 8,300 |
| Education                              | -      | -     | -     | 79    | 99    | 103   |
| Applied Arts <sup>1</sup>              | 178    | 211   | 248   | 253   | 241   | 278   |
| Mass Communication                     | 119    | 151   | 124   | 134   | 133   | 238   |
| Library Science                        | -      | 33    | 19    | 16    | 9     | 19    |
| Business & Administration <sup>2</sup> | 2,389  | 2,474 | 2,426 | 2,438 | 2,489 | 2,408 |
| Legal Studies                          | 59     | 71    | 66    | 100   | 78    | 104   |
| Science & Related Technologies         | 253    | 262   | 338   | 344   | 334   | 323   |
| Health Sciences                        | 518    | 488   | 581   | 608   | 577   | 725   |
| Information Technology                 | 508    | 576   | 756   | 910   | 1,015 | 1,345 |
| Architecture & Building <sup>3</sup>   | 277    | 310   | 272   | 279   | 300   | 312   |
| Engineering Sciences                   | 2,196  | 2,279 | 2,549 | 2,465 | 2,242 | 2,385 |
| Services <sup>4</sup>                  | 33     | 36    | 42    | 45    | 44    | 60    |

Source : Singapore Polytechnic  
Ngee Ann Polytechnic

Temasek Polytechnic  
Nanyang Polytechnic

Note : Data are classified according to the Singapore Standard Educational Classification 2000.

Cover full-time and part-time polytechnic diploma courses.

Data refer to academic year.

1 Include Digital Media Design and Media Production.

2 Include Accountancy.

3 Include Real Estate.

4 Include Maritime Transportation, Nautical Studies and Police Studies.



## 19.13

## GRADUATES FROM UNIVERSITY FIRST DEGREE COURSES BY TYPE OF COURSE

| Type of Course                                            | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|-----------------------------------------------------------|-------|-------|-------|-------|-------|-------|
| <b>MALES</b>                                              | 4,573 | 4,536 | 4,735 | 4,858 | 5,197 | 5,246 |
| Applied Arts <sup>1</sup>                                 | -     | -     | -     | -     | 11    | 11    |
| Humanities & Social Sciences <sup>2</sup>                 | 604   | 597   | 573   | 630   | 516   | 423   |
| Mass Communication                                        | 19    | 34    | 39    | 30    | 33    | 34    |
| Accountancy                                               | 297   | 250   | 257   | 226   | 222   | 234   |
| Business & Administration                                 | 349   | 328   | 403   | 318   | 284   | 325   |
| Law                                                       | 92    | 74    | 58    | 73    | 59    | 56    |
| Natural, Physical &<br>Mathematical Sciences <sup>3</sup> | 417   | 390   | 382   | 300   | 408   | 445   |
| Medicine                                                  | 104   | 119   | 97    | 122   | 128   | 122   |
| Dentistry                                                 | 18    | 17    | 19    | 23    | 21    | 14    |
| Health Sciences                                           | 14    | 11    | 17    | 20    | 15    | 11    |
| Information Technology                                    | 355   | 348   | 249   | 365   | 377   | 412   |
| Architecture & Building <sup>4</sup>                      | 104   | 101   | 124   | 134   | 175   | 137   |
| Engineering Sciences                                      | 2,200 | 2,267 | 2,517 | 2,617 | 2,948 | 3,022 |
| <b>FEMALES</b>                                            | 4,890 | 4,870 | 5,124 | 5,354 | 5,166 | 5,299 |
| Applied Arts <sup>1</sup>                                 | -     | -     | -     | -     | 10    | 14    |
| Humanities & Social Sciences <sup>2</sup>                 | 1,614 | 1,533 | 1,636 | 1,742 | 1,376 | 1,258 |
| Mass Communication                                        | 93    | 80    | 77    | 91    | 82    | 109   |
| Accountancy                                               | 482   | 495   | 484   | 541   | 524   | 387   |
| Business & Administration                                 | 905   | 851   | 807   | 751   | 693   | 742   |
| Law                                                       | 77    | 79    | 96    | 77    | 81    | 91    |
| Natural, Physical &<br>Mathematical Sciences <sup>3</sup> | 710   | 689   | 785   | 729   | 782   | 852   |
| Medicine                                                  | 41    | 37    | 42    | 60    | 66    | 77    |
| Dentistry                                                 | 14    | 15    | 16    | 11    | 11    | 18    |
| Health Sciences                                           | 77    | 30    | 46    | 49    | 48    | 78    |
| Information Technology                                    | 218   | 187   | 133   | 199   | 242   | 309   |
| Architecture & Building <sup>4</sup>                      | 167   | 192   | 199   | 224   | 235   | 185   |
| Engineering Sciences                                      | 492   | 682   | 803   | 880   | 1,016 | 1,179 |

Source : National University of Singapore  
Nanyang Technological University  
Singapore Management University

Note : Data are classified according to the Singapore Standard Educational Classification 2000.

Cover full-time and part-time first degree courses.

Data refer to academic year.

- 1 Include Industrial Design.
- 2 Include Arts with Diploma in Education.
- 3 Include Science with Diploma in Education.
- 4 Include Real Estate.



## 19.14 ENROLMENT IN POLYTECHNIC ADVANCED DIPLOMA COURSES BY TYPE OF COURSE

| Type of Course                         | Number |       |       |       |       |       |  |  |
|----------------------------------------|--------|-------|-------|-------|-------|-------|--|--|
|                                        | 1999   | 2000  | 2001  | 2002  | 2003  | 2004  |  |  |
| Total                                  | 2,192  | 2,328 | 2,307 | 2,514 | 2,245 | 1,690 |  |  |
| Applied Arts <sup>1</sup>              | 52     | 65    | 30    | 11    | 17    | 24    |  |  |
| Business & Administration <sup>2</sup> | 482    | 400   | 372   | 401   | 388   | 289   |  |  |
| Science & Related Technologies         | 26     | 25    | 25    | 50    | 110   | 89    |  |  |
| Health Sciences                        | 210    | 162   | 168   | 260   | 102   | 342   |  |  |
| Information Technology                 | 538    | 796   | 628   | 519   | 455   | 202   |  |  |
| Architecture & Building <sup>3</sup>   | 18     | -     | 20    | 19    | 18    | -     |  |  |
| Engineering Sciences                   | 738    | 653   | 796   | 1,061 | 1,024 | 649   |  |  |
| Services <sup>4</sup>                  | 113    | 179   | 168   | 112   | 64    | 38    |  |  |
| Others                                 | 15     | 48    | 100   | 81    | 67    | 57    |  |  |

Source : Singapore Polytechnic      Temasek Polytechnic  
 Ngee Ann Polytechnic      Nanyang Polytechnic

Note : Data are classified according to the Singapore Standard Educational Classification 2000.

Cover full-time and part-time post diploma, advanced diploma, management diploma, specialist diploma and postgraduate diploma courses.

- 1 Include Digital Media Design and Media Production.
- 2 Include Accountancy.
- 3 Include Real Estate.
- 4 Include Maritime Transportation and Police Studies.

## 19.15 ENROLMENT IN HIGHER DEGREE COURSES BY TYPE OF COURSE

| Type of Course                            | Number |        |        |        |        |        |
|-------------------------------------------|--------|--------|--------|--------|--------|--------|
|                                           | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
| Total                                     | 12,759 | 12,774 | 13,415 | 14,236 | 14,380 | 14,639 |
| Education                                 | 267    | 321    | 357    | 375    | 434    | 495    |
| Humanities & Social Sciences              | 1,181  | 1,324  | 1,351  | 1,480  | 1,461  | 1,473  |
| Mass Communication                        | 344    | 78     | 365    | 452    | 476    | 551    |
| Business & Administration <sup>1</sup>    | 2,217  | 2,054  | 1,810  | 1,495  | 1,382  | 1,486  |
| Law                                       | 150    | 136    | 173    | 126    | 163    | 242    |
| Natural, Physical & Mathematical Sciences | 921    | 962    | 1,008  | 1,149  | 1,318  | 1,392  |
| Medicine & Dentistry <sup>2</sup>         | 580    | 599    | 710    | 883    | 940    | 1,080  |
| Information Technology                    | 864    | 919    | 1,024  | 1,113  | 1,093  | 1,020  |
| Architecture & Building <sup>3</sup>      | 640    | 617    | 665    | 618    | 589    | 535    |
| Engineering Sciences                      | 5,551  | 5,724  | 5,907  | 6,496  | 6,473  | 6,307  |
| Services                                  | 44     | 40     | 45     | 49     | 51     | 58     |

Source : National University of Singapore      Singapore Management University  
 Nanyang Technological University      National Institute of Education

Note : Data are classified according to the Singapore Standard Educational Classification 2000.

Cover full-time and part-time postgraduate diploma and higher degree courses offered by National University of Singapore, Nanyang Technological University and Singapore Management University, and higher degree courses offered by National Institute of Education.

- 1 Include Accountancy.
- 2 Include Pharmacy.
- 3 Include Real Estate.



## 19.16 GRADUATES FROM POLYTECHNIC ADVANCED DIPLOMA COURSES BY TYPE OF COURSE

| Type of Course                         | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|----------------------------------------|-------|-------|-------|-------|-------|-------|
| Total                                  | 1,140 | 1,298 | 1,558 | 1,721 | 1,558 | 1,366 |
| Applied Arts <sup>1</sup>              | 1     | 27    | 39    | 1     | 6     | 5     |
| Business & Administration <sup>2</sup> | 298   | 289   | 301   | 309   | 315   | 336   |
| Science & Related Technologies         | 18    | -     | 24    | 13    | 30    | 68    |
| Health Sciences                        | 112   | 209   | 158   | 162   | 239   | 101   |
| Information Technology                 | 220   | 239   | 485   | 498   | 369   | 320   |
| Architecture & Building <sup>3</sup>   | 33    | 16    | -     | -     | -     | 18    |
| Engineering Sciences                   | 397   | 368   | 375   | 544   | 450   | 425   |
| Services <sup>4</sup>                  | 61    | 135   | 158   | 146   | 99    | 66    |
| Others                                 | -     | 15    | 18    | 48    | 50    | 27    |

Source : Singapore Polytechnic      Temasek Polytechnic  
 Ngee Ann Polytechnic      Nanyang Polytechnic

Note : Data are classified according to the Singapore Standard Educational Classification 2000.

Cover full-time and part-time post diploma, advanced diploma, management diploma, specialist diploma and postgraduate diploma courses.

- 1 Include Digital Media Design and Media Production.
- 2 Include Accountancy.
- 3 Include Real Estate.
- 4 Include Maritime Transportation and Police Studies.

## 19.17 GRADUATES FROM HIGHER DEGREE COURSES BY TYPE OF COURSE

| Type of Course                            | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|-------------------------------------------|-------|-------|-------|-------|-------|-------|
| Total                                     | 2,588 | 3,614 | 4,239 | 4,689 | 4,295 | 4,399 |
| Education                                 | 36    | 35    | 42    | 45    | 54    | 94    |
| Humanities & Social Sciences              | 216   | 308   | 479   | 480   | 503   | 481   |
| Mass Communication                        | 54    | 82    | 13    | 96    | 111   | 87    |
| Business & Administration <sup>1</sup>    | 585   | 827   | 964   | 843   | 669   | 516   |
| Law                                       | 58    | 85    | 78    | 116   | 95    | 100   |
| Natural, Physical & Mathematical Sciences | 158   | 165   | 232   | 262   | 231   | 271   |
| Medicine & Dentistry <sup>2</sup>         | 214   | 232   | 241   | 320   | 266   | 349   |
| Information Technology                    | 232   | 279   | 295   | 416   | 326   | 393   |
| Architecture & Building <sup>3</sup>      | 125   | 157   | 192   | 267   | 244   | 243   |
| Engineering Sciences                      | 891   | 1,424 | 1,689 | 1,816 | 1,779 | 1,820 |
| Services                                  | 19    | 20    | 14    | 28    | 17    | 45    |

Source : National University of Singapore      Singapore Management University  
 Nanyang Technological University      National Institute of Education

Note : Data are classified according to the Singapore Standard Educational Classification 2000.

Cover full-time and part-time postgraduate diploma and higher degree courses offered by National University of Singapore, Nanyang Technological University and Singapore Management University and higher degree courses offered by National Institute of Education.

- 1 Include Accountancy.
- 2 Include Pharmacy.
- 3 Include Real Estate.



## 19.18

## STUDENTS ADMITTED TO OPEN UNIVERSITY, 2004

|         | Total | Sex   |         | Age Group (Years) |         |           | Number |
|---------|-------|-------|---------|-------------------|---------|-----------|--------|
|         |       | Males | Females | Below 30          | 30 - 39 | 40 & Over |        |
| Total   | 1,102 | 435   | 667     | 716               | 261     | 125       |        |
| Arts    | 595   | 145   | 450     | 332               | 165     | 98        |        |
| Science | 507   | 290   | 217     | 384               | 96      | 27        |        |

Source : Singapore Institute of Management

## 19.19

## INTAKE OF TRAINEES UNDER THE FULL-TIME INSTITUTIONAL TRAINING AND TRAINEESHIP PROGRAMMES AND TRAINEES WHO COMPLETED THE PROGRAMMES, 2004

| Type of Training/Level                                  | Intake of Trainees |       |         | Trainees who Completed the Programmes |       |         | Number |
|---------------------------------------------------------|--------------------|-------|---------|---------------------------------------|-------|---------|--------|
|                                                         | Total              | Males | Females | Total                                 | Males | Females |        |
| Total                                                   | 12,202             | 7,745 | 4,457   | 8,633                                 | 5,459 | 3,174   |        |
| Engineering                                             |                    |       |         |                                       |       |         |        |
| Higher National ITE Certificate ( <i>Higher Nitec</i> ) | 1,868              | 1,554 | 314     | 1,651                                 | 1,354 | 297     |        |
| Business Studies (Including Service Skills)             |                    |       |         |                                       |       |         |        |
| Higher National ITE Certificate ( <i>Higher Nitec</i> ) | 1,172              | 374   | 798     | 868                                   | 180   | 688     |        |
| National ITE Certificate ( <i>Nitec</i> ) <sup>1</sup>  | 2,198              | 356   | 1,842   | 1,575                                 | 193   | 1,382   |        |
| ITE Skills Certificate ( <i>ISC</i> ) <sup>2</sup>      | 94                 | 12    | 82      | 38                                    | 11    | 27      |        |
| Technical Skills                                        |                    |       |         |                                       |       |         |        |
| National ITE Certificate ( <i>Nitec</i> )               | 6,318              | 5,041 | 1,277   | 4,288                                 | 3,558 | 730     |        |
| ITE Skills Certificate ( <i>ISC</i> ) <sup>3</sup>      | 552                | 408   | 144     | 213                                   | 163   | 50      |        |

Source : Institute of Technical Education

Note : The Full-time Institutional Training and Traineeship Programmes are offered to school leavers with GCE 'O' and 'N' level qualifications.

1 Includes *Nitec* in Office Skills and *Nitec* in Nursing

2 Includes Travel Services (General), Retailing (Sales &amp; Customer Service), Health Care (In-Patient/Out-Patient), Computer Operations and Logistics.

3 Includes ISC First Year (formerly BVT) and ISC Second Year (formerly NTC-3) for intake of trainees, and Certificate of Vocational Training for trainees who completed the programmes.



## 19.20

# **TRAINING PLACES TAKEN UP BY WORKERS UNDER THE SKILLS TRAINING PROGRAMMES AND WORKERS WHO COMPLETED THE PROGRAMMES, 2004**

| Type of Training/Level                                  | Training Places Taken Up |        |         | Workers who Completed the Programmes <sup>1</sup> |        |         |
|---------------------------------------------------------|--------------------------|--------|---------|---------------------------------------------------|--------|---------|
|                                                         | Total                    | Males  | Females | Total                                             | Males  | Females |
| Total                                                   | 28,314                   | 17,462 | 10,852  | 17,967                                            | 14,254 | 3,713   |
| Engineering                                             |                          |        |         |                                                   |        |         |
| Higher National ITE Certificate ( <i>Higher Nitec</i> ) | 2,272                    | 2,064  | 208     | 393                                               | 358    | 35      |
| Business Studies (Including Service Skills)             |                          |        |         |                                                   |        |         |
| Higher National ITE Certificate ( <i>Higher Nitec</i> ) | 4,962                    | 302    | 4,660   | 693                                               | 33     | 660     |
| National ITE Certificate ( <i>Nitec</i> )               | 3,052                    | 271    | 2,781   | 681                                               | 619    | 62      |
| ITE Skills Certificate ( <i>ISC</i> )                   | 914                      | 280    | 634     | 505                                               | 141    | 364     |
| Technical Skills                                        |                          |        |         |                                                   |        |         |
| Master National ITE Certificate ( <i>Master Nitec</i> ) | 14                       | 14     | -       | 13                                                | 13     | -       |
| National ITE Certificate ( <i>Nitec</i> )               | 10,298                   | 9,195  | 1,103   | 9,470                                             | 8,471  | 999     |
| ITE Skills Certificate ( <i>ISC</i> )                   | 2,702                    | 2,083  | 619     | 2,112                                             | 1,366  | 746     |
| Others <sup>2</sup>                                     | 4,100                    | 3,253  | 847     | 4,100                                             | 3,253  | 847     |

Source : Institute of Technical Education

Note : Most of the Skills Training Programmes are offered in modules of 6 months' duration. A worker may attend more than one module a year.

1 Refers to number completed by headcount except for *Nitec* (Technical Skills) where number completed is by module.

2 Include Continuing Training, Customised, Theory Only and Certificate of Endorsement courses.

## 19.21

# **TRAINING PLACES TAKEN UP BY WORKERS UNDER THE CONTINUING ACADEMIC EDUCATION PROGRAMMES AND WORKERS WHO COMPLETED THE PROGRAMMES, 2004**

| Type of Programme                                     | Training Places Taken Up |       |         | Workers who Completed the Programmes |       |         |
|-------------------------------------------------------|--------------------------|-------|---------|--------------------------------------|-------|---------|
|                                                       | Total                    | Males | Females | Total                                | Males | Females |
| Total                                                 | 23,728                   | 8,833 | 14,895  | 19,799                               | 8,177 | 11,622  |
| Basic Education for Skills Training (BEST)            | 9,553                    | 3,092 | 6,461   | 7,155                                | 2,540 | 4,615   |
| Worker Improvement through Secondary Education (WISE) | 6,475                    | 2,353 | 4,122   | 5,081                                | 2,309 | 2,772   |
| Continuing Education (Secondary & Pre-University)     | 7,700                    | 3,388 | 4,312   | 7,563                                | 3,328 | 4,235   |

Source : Institute of Technical Education

Note : The BEST and WISE Programmes are offered in modules of 6 months' duration. A worker may attend more than one module a year.



# 19.22 GOVERNMENT EXPENDITURE ON EDUCATION

Thousand Dollars

|                                                     | 1994      | 1999      | 2000      | 2001      | 2002      | 2003      | 2004      |
|-----------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total                                               | 3,318,956 | 4,857,488 | 5,867,507 | 6,239,575 | 6,597,955 | 6,214,434 | 6,260,078 |
| Recurrent Expenditure                               | 2,486,241 | 3,256,874 | 4,276,896 | 4,766,584 | 4,824,395 | 4,996,791 | 4,951,701 |
| Primary Schools                                     | 633,966   | 820,842   | 995,279   | 1,044,461 | 1,095,536 | 1,066,364 | 1,072,745 |
| Secondary Schools &<br>Junior Colleges <sup>1</sup> | 759,658   | 1,000,479 | 1,166,827 | 1,262,302 | 1,397,564 | 1,429,183 | 1,469,087 |
| Institute of Technical<br>Education                 | 105,648   | 126,371   | 148,416   | 162,648   | 169,499   | 171,067   | 191,736   |
| Tertiary                                            | 861,674   | 1,018,907 | 1,506,313 | 1,794,288 | 1,647,121 | 1,829,834 | 1,696,836 |
| Universities <sup>2</sup>                           | 502,999   | 569,972   | 898,505   | 1,114,555 | 973,779   | 1,034,804 | 1,027,099 |
| National Institute of<br>Education                  | 38,392    | 61,697    | 83,753    | 87,000    | 94,791    | 80,766    | 72,725    |
| Polytechnics                                        | 320,283   | 387,238   | 524,055   | 592,733   | 578,551   | 714,264   | 597,012   |
| Others <sup>3</sup>                                 | 125,295   | 290,275   | 460,061   | 502,885   | 514,675   | 500,343   | 521,297   |
| Development Expenditure                             | 832,715   | 1,600,614 | 1,590,611 | 1,472,991 | 1,773,560 | 1,217,643 | 1,308,377 |

Source : Ministry of Education

Note : Data refer to the financial year which begins in April and ends in March of the following year.

<sup>1</sup> Include Centralised Institutes.<sup>2</sup> Include National University of Singapore, Nanyang Technological University and Singapore Management University.<sup>3</sup> Include MOE Headquarters, Institute of Southeast Asian Studies, SIM - Open University Centre, Science Centre Board, Special Education, Nanyang Academy of Fine Arts and Laselle-SIA College of the Arts.



## 19.23

## GOVERNMENT RECURRENT EXPENDITURE ON EDUCATION PER STUDENT

|                                  | 1994   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
|----------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Primary Schools                  | 2,523  | 2,612  | 3,137  | 3,363  | 3,535  | 3,409  | 3,541  |
| Secondary Schools <sup>1</sup>   | 3,488  | 4,409  | 5,104  | 5,304  | 5,614  | 5,274  | 5,390  |
| Junior Colleges <sup>2</sup>     | 5,832  | 6,325  | 7,304  | 7,879  | 8,497  | 8,541  | 8,997  |
| Institute of Technical Education | 7,511  | 6,452  | 8,076  | 7,829  | 8,056  | 8,018  | 7,970  |
| Polytechnics                     | 7,584  | 8,032  | 9,546  | 9,668  | 9,793  | 9,234  | 9,878  |
| Universities <sup>3</sup>        | 16,355 | 14,112 | 15,384 | 15,262 | 14,287 | 14,617 | 15,035 |

Source : Ministry of Education

Note : Data refer to the financial year which begins in April and ends in March of the following year.

1 Exclude Independent Schools.

2 Include Centralised Institutes.

3 Include National University of Singapore and Nanyang Technological University.



# Statutory Boards

Two statutory boards under the Ministry of Health were established on 1 April 2000. The Health Promotion Board (HPB) provides the framework for a lifestyle-oriented health promotion strategy, and focuses on strengthening health education, health promotion and disease prevention in Singapore. It spearheads the national health promotion and disease prevention efforts, and develops and promotes programmes in an environment that supports healthy lifestyles, as well as early detection and management of health problems among adults and the elderly.

The Health Sciences Authority (HSA) provides a scientific regulatory service to the health care industry and aims to safeguard public confidence in the quality, safety and efficacy of all health care and blood products in Singapore. HSA also provides specialised scientific expertise to support essential statutory functions.

## Public Health

Statistics on immunisation are collected from the Polio/Measles vaccination records kept by HPB and compulsory notifications of immunisation to the Central Immunisation Registry by private practitioners. Data on patient attendance at primary health care clinics are obtained from the Polio/Measles Patient Management System.

## Hospital Statistics

Data on government hospital beds, patient admissions and outpatient attendances are obtained from administrative records and the computerised patient registration systems of the hospitals. For the private hospitals, the data are compiled from special returns prescribed by the Ministry of Health and form the Central Claims Processing System.

The Ministry of Health's main role is to develop and provide information to the public on how they can maintain healthy lifestyles. The Ministry also plays a key role in ensuring that the Singapore health care system is able to meet the needs of the population and that the system is able to provide the services that the population needs.

In addition, the Ministry of Health is responsible for ensuring that health care in Singapore is characterised by good clinical outcomes and professional standards, and that services delivered are appropriate to patients' needs. Through the emphasis on the principle of co-payment, the Ministry ensures that healthcare remains affordable to Singaporeans.

## Reorganisation and Restructuring of Healthcare Services

The Ministry of Health reorganised the public healthcare delivery system in 2000 into two vertically integrated delivery networks or clusters: the National Healthcare Group (NHG) and Singapore Health Services (SingHealth). This reorganisation positions Singapore's healthcare delivery system, which is already known for its quality, affordability and accessibility, to deliver more integrated and holistic healthcare to Singaporeans.

The two clusters were incorporated on 1 Oct 2000, with the completion of the restructuring of Alexandra Hospital, Institute of Mental Health/Woodbridge Hospital and the polio/Measles. Each cluster will provide the full range of acute services ranging from primary care to secondary and tertiary care at regional and tertiary hospitals and national centres. Under these clusters, the restructured healthcare institutions will enjoy greater management and operational flexibility, which in turn, will enhance their ability to respond to changing circumstances and needs as well as provide better healthcare services to Singaporeans.



The Ministry of Health plays a major role in educating and providing information to the public on how they can maintain healthy lifestyles. The Ministry also plays a key role in reducing illness in Singapore through the control and prevention of diseases and ensuring that the resources are allocated appropriately to do this.

In addition, the Ministry of Health is responsible for ensuring that health care in Singapore is characterized by good clinical outcomes and professional standards, and that services delivered are appropriate to patients' needs. Though the emphasis is on the principle of co-payment, the Ministry also ensures that healthcare remains affordable to Singaporeans.

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The two clusters were incorporated on 1 Oct 2000, with the completion of the restructuring of Alexandra Hospital, Institute of Mental Health/Woodbridge Hospital and the polyclinics. Each cluster will provide the full range of acute services ranging from primary care to secondary and tertiary care at regional and tertiary hospitals and national centres. Under these clusters, the restructured healthcare institutions will enjoy greater management and operational flexibility, which in turn, will enhance their ability to respond to changing circumstances and needs as well as provide better healthcare services to Singaporeans.

### **Statutory Boards**

Two statutory boards under the Ministry of Health were established on 1 April 2001. The Health Promotion Board (HPB) provides the framework for a greater focus on health promotion issues and further strengthens health education, health promotion and disease prevention in Singapore. It spearheads the national health promotion and disease prevention efforts, and develops and promotes programmes in an environment that supports healthy lifestyles, as well as early detection and management of health problems in children, adults and the elderly.

The Health Sciences Authority (HSA) provides a seamless regulatory service to the health care industry and aims to safeguard public confidence in the quality, safety and efficacy of all health care and blood products in Singapore. HSA also provides specialised scientific expertise to support essential statutory functions.

### **Public Health**

Statistics on immunisation are collected from the Polyclinics vaccination records kept by HPB and compulsory notifications of immunisation to the Central Immunisation Registry by private practitioners. Data on patient attendances at primary health care clinics are obtained from the Polyclinic Patient Management System.

### **Hospital Statistics**

Data on government hospital beds, patient admissions and outpatient attendances are obtained from administrative records and the computerised patient registration systems of the hospitals. For the private hospitals, the data are compiled from special returns prescribed by the Ministry of Health and from the Central Claims Processing System.



### Medical Personnel

Data on medical personnel refer to the number of doctors, dentists, pharmacists, nurses and midwives registered respectively under the Medical Registration Act, the

Dentists Registration Act, the Pharmacists Registration Act, the Nurses and Midwives Act. Separate computer manpower registers for each of these personnel groups are maintained by the professional bodies and the statistics pertaining to these health personnel are derived from the registers.



## 20.1 HOSPITALS AND PUBLIC SECTOR CLINICS

|                                           | 1994   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
|-------------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Hospitals                                 | 24     | 28     | 29     | 29     | 29     | 29     | 29     |
| Public Sector <sup>1</sup>                | 13     | 14     | 14     | 14     | 13     | 13     | 13     |
| Private Sector <sup>2</sup>               | 11     | 14     | 15     | 15     | 16     | 16     | 16     |
| Hospital Beds                             | 10,407 | 11,742 | 11,856 | 11,942 | 11,761 | 11,855 | 11,840 |
| Acute Care                                | 6,516  | 7,853  | 7,849  | 8,153  | 8,069  | 8,291  | 8,279  |
| Extended Care                             | 3,891  | 3,889  | 4,007  | 3,789  | 3,692  | 3,564  | 3,561  |
| Public Sector <sup>1</sup>                | 8,346  | 9,560  | 9,556  | 9,274  | 8,748  | 8,831  | 8,813  |
| Acute Care                                | 5,137  | 6,268  | 6,264  | 6,228  | 6,206  | 6,406  | 6,388  |
| Extended Care                             | 3,209  | 3,292  | 3,292  | 3,046  | 2,542  | 2,425  | 2,425  |
| Private Sector <sup>2</sup>               | 2,061  | 2,182  | 2,300  | 2,668  | 3,013  | 3,024  | 3,027  |
| Acute Care                                | 1,379  | 1,585  | 1,585  | 1,925  | 1,863  | 1,885  | 1,891  |
| Extended Care                             | 682    | 597    | 715    | 743    | 1,150  | 1,139  | 1,136  |
| Public Sector Dental Clinics <sup>3</sup> | 186    | 205    | 202    | 204    | 206    | 230    | 232    |
| Polyclinics                               | 21     | 18     | 16     | 16     | 17     | 17     | 17     |

Source : Ministry of Health

1 The number of hospitals in public sector includes specialty centres.

2 Chronic Sick Unit in Woodbridge Hospital was managed by Ren Ci Hospital with effect from 1 September 1994.

Management of Ang Mo Kio Community Hospital was handed over to Thye Hwa Kwan, a voluntary welfare organisation with effect from 1 April 2002.

3 Exclude National Dental Centre (reflected as a specialty centre) and include dental clinics in schools.

## 20.2 HOSPITAL ADMISSIONS AND PUBLIC SECTOR OUTPATIENT ATTENDANCES

|                                            | 1994      | 1999      | 2000      | 2001      | 2002      | 2003      | 2004      |
|--------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Hospital Admissions <sup>1</sup>           | 343,052   | 374,390   | 390,447   | 384,054   | 392,489   | 356,535   | 405,354   |
| Public Sector Hospitals <sup>2</sup>       | 257,843   | 290,706   | 305,532   | 304,595   | 310,597   | 270,691   | 311,129   |
| Private Sector Hospitals                   | 85,209    | 83,684    | 84,915    | 79,459    | 81,892    | 85,844    | 94,225    |
| Public Sector Outpatient Attendances       |           |           |           |           |           |           |           |
| Specialist Outpatient Clinics <sup>3</sup> | 1,961,003 | 2,643,670 | 2,729,732 | 2,847,528 | 3,078,654 | 2,806,338 | 3,333,550 |
| Accident & Emergency Departments           | 499,937   | 532,916   | 537,342   | 565,375   | 596,986   | 552,233   | 618,490   |
| Polyclinics                                | 2,799,248 | 2,924,918 | 2,728,377 | 3,023,794 | 3,344,224 | 3,337,277 | 3,791,670 |
| Dental Clinics <sup>4</sup>                | 1,093,532 | 1,067,945 | 955,626   | 983,792   | 993,180   | 887,904   | 1,045,775 |
| Day Surgeries                              | 58,009    | 87,890    | 100,025   | 131,986   | 147,587   | 141,279   | 181,888   |

Source : Ministry of Health

1 Data on Public Sector Hospital admissions refer to inpatient discharges with effect from January 2002.

2 The number of hospitals in public sector includes specialty centres.

3 Exclude staff attendances.

4 Include dental services in Polyclinics, School Dental Clinics, National Dental Centre and NUH Dental Centre.



## 20.3 REGISTERED HEALTH PERSONNEL

|                        |       |        |        |        |        |        |        | Number |
|------------------------|-------|--------|--------|--------|--------|--------|--------|--------|
|                        |       |        |        |        |        |        |        |        |
|                        | 1994  | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |        |
| Doctors                | 4,301 | 5,325  | 5,577  | 5,922  | 6,029  | 6,292  | 6,492  |        |
| Public                 | 2,051 | 2,535  | 2,586  | 2,794  | 2,907  | 3,044  | 3,142  |        |
| Private                | 2,082 | 2,606  | 2,809  | 2,925  | 2,936  | 2,863  | 2,845  |        |
| Not in active practice | 168   | 184    | 182    | 203    | 186    | 385    | 505    |        |
| Dentists <sup>1</sup>  | 767   | 942    | 1,028  | 1,087  | 1,130  | 1,183  | 1,227  |        |
| Public                 | 176   | 167    | 193    | 209    | 231    | 263    | 282    |        |
| Private                | 568   | 726    | 755    | 775    | 787    | 798    | 802    |        |
| Not in active practice | 23    | 49     | 80     | 103    | 112    | 122    | 143    |        |
| Pharmacists            | 773   | 1,043  | 1,098  | 1,141  | 1,191  | 1,236  | 1,288  |        |
| Public                 | 150   | 219    | 238    | 297    | 307    | 377    | 376    |        |
| Private                | 525   | 598    | 638    | 619    | 642    | 659    | 719    |        |
| Not in active practice | 98    | 226    | 222    | 225    | 242    | 200    | 193    |        |
| Registered Nurses      | 9,148 | 11,765 | 12,353 | 12,828 | 13,308 | 13,740 | 14,171 |        |
| Public                 | 5,148 | 6,454  | 6,713  | 6,836  | 7,133  | 7,533  | 7,763  |        |
| Private                | 2,589 | 2,981  | 3,198  | 3,225  | 3,264  | 3,349  | 3,568  |        |
| Not in active practice | 1,411 | 2,330  | 2,442  | 2,767  | 2,911  | 2,858  | 2,840  |        |
| Enrolled Nurses        | 2,575 | 3,733  | 3,821  | 4,155  | 4,333  | 4,652  | 4,793  |        |
| Public                 | 1,394 | 2,030  | 2,012  | 2,269  | 2,369  | 2,605  | 2,665  |        |
| Private                | 656   | 805    | 883    | 915    | 969    | 1,058  | 1,112  |        |
| Not in active practice | 525   | 898    | 926    | 971    | 995    | 989    | 1,016  |        |
| Registered Midwives    | 507   | 449    | 437    | 415    | 393    | 371    | 365    |        |
| Public                 | 255   | 208    | 202    | 192    | 188    | 176    | 157    |        |
| Private                | 106   | 86     | 85     | 84     | 80     | 73     | 69     |        |
| Not in active practice | 146   | 155    | 150    | 139    | 125    | 122    | 139    |        |

Source : Ministry of Health

Note : Registered health personnel in the public sector refer to Government, Government Restructured Hospitals, Statutory Boards and University personnel.

1 Refer to those with professional degrees only.



## 20.4 VISITS TO PUBLIC SECTOR DENTAL CLINICS

|                                     | 1994      | 1999      | 2000    | 2001    | 2002    | 2003    | 2004      |
|-------------------------------------|-----------|-----------|---------|---------|---------|---------|-----------|
| Dental Clinics                      | 1,093,532 | 1,067,945 | 955,626 | 983,792 | 993,180 | 887,904 | 1,046,110 |
| School                              | 790,164   | 771,940   | 677,774 | 685,362 | 686,384 | 605,303 | 729,152   |
| Hospital <sup>1</sup>               | 174,435   | 9,739     | -       | -       | -       | -       | -         |
| Polyclinic Dental Services          | 89,962    | 103,804   | 99,018  | 102,743 | 101,666 | 97,081  | 108,138   |
| National Dental Centre <sup>2</sup> | -         | 135,698   | 136,023 | 149,536 | 154,323 | 140,168 | 158,166   |
| NUH Dental Centre                   | 38,971    | 46,764    | 42,811  | 46,151  | 50,807  | 45,352  | 50,654    |

Source : Ministry of Health

1 All Hospital Dental Clinics closed permanently with effect from 30 June 1999.

2 Started functioning from March 1997.

## 20.5 NOTIFICATIONS OF SPECIFIC NOTIFIABLE DISEASES

|                                         | 1994   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
|-----------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Dengue/DHF                              | 1,239  | 1,355  | 673    | 2,372  | 3,945  | 4,788  | 9,459  |
| Malaria                                 | 277    | 316    | 266    | 229    | 175    | 118    | 152    |
| Enteric fever <sup>1</sup>              | 151    | 64     | 101    | 116    | 74     | 41     | 84     |
| Viral Hepatitis                         | 258    | 248    | 211    | 145    | 323    | 131    | 192    |
| Cholera                                 | 42     | 11     | 10     | 8      | 2      | 2      | 11     |
| Poliomyelitis                           | -      | -      | -      | -      | -      | -      | -      |
| Diphtheria                              | -      | -      | -      | -      | -      | -      | -      |
| Chicken pox                             | 39,558 | 30,396 | 24,074 | 18,220 | 27,124 | 15,265 | 20,083 |
| Viral Encephalitis                      | -      | 17     | 4      | 3      | 18     | 12     | 16     |
| Legionellosis <sup>2</sup>              | -      | -      | 19     | 52     | 40     | 46     | 17     |
| Hand, Foot & Mouth Disease <sup>2</sup> | -      | -      | 3,362  | 5,187  | 16,228 | 5,603  | 6,411  |
| Nipah Virus Infection <sup>2</sup>      | -      | 11     | -      | -      | -      | -      | -      |
| SARS <sup>3</sup>                       | -      | -      | -      | -      | -      | 239    | -      |
| Tuberculosis                            | 1,836  | 2,419  | 2,229  | 2,138  | 2,006  | 2,017  | 1,918  |
| Leprosy                                 | 27     | 22     | 18     | 14     | 11     | 11     | 14     |

Source : Ministry of Health

Note : No cases of plague, smallpox and yellow fever were reported during the period.

1 Refer to typhoid and paratyphoid.

2 The three diseases were only made notifiable in October 2000.

3 SARS was only made notifiable on 17 March 2003.



# 20.6 IMMUNISATION<sup>1</sup> BY PUBLIC AND PRIVATE SECTORS

No of Doses Given

|                      | 1994   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
|----------------------|--------|--------|--------|--------|--------|--------|--------|
| <b>BCG</b>           |        |        |        |        |        |        |        |
| National             | 47,381 | 43,920 | 47,637 | 41,959 | 41,313 | 36,960 | 37,058 |
| Public               | 21,231 | 20,225 | 19,568 | 19,588 | 19,510 | 16,524 | 17,011 |
| Private              | 26,150 | 23,695 | 28,069 | 22,371 | 21,803 | 20,436 | 20,047 |
| <b>Diphtheria</b>    |        |        |        |        |        |        |        |
| National             | 47,694 | 41,897 | 43,249 | 43,386 | 39,175 | 36,606 | 34,059 |
| Public               | 26,473 | 26,135 | 24,522 | 24,802 | 22,438 | 21,130 | 20,710 |
| Private              | 21,221 | 15,762 | 18,727 | 18,584 | 16,737 | 15,476 | 13,349 |
| <b>Poliomyelitis</b> |        |        |        |        |        |        |        |
| National             | 47,485 | 41,833 | 43,216 | 43,289 | 39,098 | 36,510 | 33,848 |
| Public               | 26,495 | 26,111 | 24,505 | 24,775 | 22,364 | 21,051 | 20,528 |
| Private              | 20,990 | 15,722 | 18,711 | 18,514 | 16,734 | 15,459 | 13,320 |
| <b>Measles</b>       |        |        |        |        |        |        |        |
| National             | 42,774 | 51,879 | 41,321 | 43,792 | 41,640 | 37,516 | 37,563 |
| Public               | 22,314 | 29,875 | 26,388 | 26,112 | 25,445 | 22,644 | 22,365 |
| Private              | 20,460 | 22,004 | 14,933 | 17,680 | 16,195 | 14,872 | 15,198 |

Source : Health Promotion Board

1 Data refer to all immunisation given to all Singaporean and non-Singaporean children who were residing in Singapore during the time of the period reported.



## 20.7 IMMUNISATION <sup>1</sup> COVERAGE FOR CHILDREN AT 2 YEARS OF AGE

|               |  |      |      |      |      |      |      | Per Cent |
|---------------|--|------|------|------|------|------|------|----------|
|               |  | 1994 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004     |
| BCG           |  | 97   | 99   | 98   | 99   | 99   | 99   | 99       |
| Diphtheria    |  | 93   | 96   | 95   | 96   | 95   | 96   | 94       |
| Poliomyelitis |  | 93   | 96   | 95   | 96   | 95   | 95   | 94       |
| Hepatitis B   |  | 93   | 95   | 94   | 96   | 96   | 95   | 93       |
| Measles       |  | 94   | 96   | 94   | 95   | 95   | 92   | 94       |

Source : Health Promotion Board

<sup>1</sup> Data refer to immunisation given to children who are Singapore citizens and permanent residents.

## 20.8 VACCINATION AND IMMUNISATION OF SCHOOL CHILDREN

|                              |      |      |       |      |      |      | Thousand Doses |
|------------------------------|------|------|-------|------|------|------|----------------|
|                              | 1994 | 1999 | 2000  | 2001 | 2002 | 2003 | 2004           |
| Diphtheria Tetanus           | 81.5 | 90.3 | 101.2 | 96.1 | 99.3 | 97.7 | 97.7           |
| Poliomyelitis Immunisation   | 81.3 | 89.8 | 100.6 | 95.8 | 99.1 | 97.4 | 97.7           |
| BCG Vaccination <sup>1</sup> | 34.3 | 38.6 | 47.7  | 21.9 | -    | -    | -              |
| MMR <sup>2</sup>             | 40.7 | 43.3 | 53.0  | 47.8 | 51.3 | 49.5 | 50.7           |

Source : Health Promotion Board

<sup>1</sup> Discontinued with effect from 1 July 2001.

<sup>2</sup> MMR refers to Measles, Mumps and Rubella.

Data refer to Rubella vaccination prior to 1998.



## 20.9 STUDENT MEDICAL CHECK-UP

|                                                    | 1994  | 1999  | 2000  | 2001  | 2002  | 2003               | Thousand<br>2004 |
|----------------------------------------------------|-------|-------|-------|-------|-------|--------------------|------------------|
| Total                                              | 421.8 | 474.1 | 480.5 | 487.0 | 489.7 | 395.8              | 501.0            |
| Primary 1 and equivalent age groups                | 43.3  | 49.4  | 50.0  | 49.3  | 48.8  | 49.2               | 46.8             |
| Primary 6 and equivalent age groups                | 45.3  | 45.5  | 54.3  | 50.1  | 53.4  | 51.6               | 51.3             |
| Screening of other educational levels <sup>1</sup> | 329.3 | 377.2 | 375.5 | 387.2 | 386.7 | 294.4 <sup>3</sup> | 402.2            |
| Others <sup>2</sup>                                | 3.9   | 2.0   | 0.7   | 0.4   | 0.8   | 0.6                | 0.7              |

Source : Ministry of Health

1 Educational levels other than Primary 1 and Primary 6.

2 Data refer to general medical examination done for students excluding Primary 1 and Primary 6.

3 Due to SARS outbreak, 85 secondary schools were not covered.

## 20.10 COMMON HEALTH PROBLEMS OF STUDENTS EXAMINED

|                                                    | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|----------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Per 10,000 Males Examined                          |       |       |       |       |       |       |       |
| Incidence of :                                     |       |       |       |       |       |       |       |
| Defective Vision                                   | 4,767 | 5,269 | 5,251 | 5,351 | 5,145 | 5,344 | 5,590 |
| Obesity                                            |       |       |       |       |       |       |       |
| Primary 1 and equivalent age groups                | 1,381 | 1,057 | 1,080 | 1,118 | 1,118 | 1,144 | 1,171 |
| Primary 6 and equivalent age groups                | 1,442 | 1,499 | 1,629 | 1,705 | 1,651 | 1,624 | 1,587 |
| Secondary 4 and equivalent age groups <sup>1</sup> | 1,227 | 1,184 | 1,343 | -     | -     | -     | -     |
| Per 10,000 Females Examined                        |       |       |       |       |       |       |       |
| Incidence of :                                     |       |       |       |       |       |       |       |
| Defective Vision                                   | 4,767 | 5,580 | 5,518 | 5,744 | 5,581 | 5,765 | 6,118 |
| Obesity                                            |       |       |       |       |       |       |       |
| Primary 1 and equivalent age groups                | 1,377 | 985   | 1,074 | 1,037 | 1,038 | 1,072 | 1,077 |
| Primary 6 and equivalent age groups                | 1,232 | 1,192 | 1,288 | 1,251 | 1,246 | 1,268 | 1,205 |
| Secondary 4 and equivalent age groups <sup>1</sup> | 1,255 | 1,136 | 1,273 | -     | -     | -     | -     |

Source : Ministry of Health

1 Discontinued Height/Weight measurement for Secondary 4 students with effect from 1 July 2001.



# HAWKERS

# AND

## FOOD ESTABLISHMENTS



The National Environment Agency (NEA) issues licences to hawkers and operators of food establishments other than food factories. Food factories are licensed by the Agri-Food & Veterinary Authority (AVA). They ensure that all licensees observe proper food hygiene practices and that all food sold in Singapore is safe for consumption. To motivate licensees to keep their premises clean and hygienic, a grading scheme has been introduced.

### Licensed Hawkers

Licensed hawkers refer to hawkers who are issued with the respective licence by

NEA to operate stalls in Market / Food Centre, to operate Show Case stalls and also as Itinerant hawkers.

### Licensed Food Establishments

Licensed food establishments are grouped under four separate categories, namely "Food Shops", "Food Stalls", "Supermarkets" and "Food Factories".

There is no significant change in the total number of licensed food establishments as compared to last year



## 21.1 LICENSED HAWKERS UNDER NEA

(End of Period)

|                               | Number |       |       |       |       |       |       |
|-------------------------------|--------|-------|-------|-------|-------|-------|-------|
|                               | 1994   | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
| Total Licences Issued         | 4,142  | 3,369 | 3,224 | 3,141 | 3,341 | 3,239 | 3,623 |
| Type of Premises              |        |       |       |       |       |       |       |
| Market/Food Centre            | 4,020  | 3,288 | 3,149 | 3,049 | 3,203 | 3,011 | 2,469 |
| Show Case                     | 13     | 4     | 4     | 2     | 1     | -     | -     |
| Itinerant <sup>1</sup>        | 109    | 77    | 71    | 90    | 137   | 228   | 1,154 |
| Type of Goods Sold            |        |       |       |       |       |       |       |
| Market Produce                | 1,594  | 1,238 | 1,174 | 1,107 | 1,284 | 1,129 | 843   |
| Cooked Food                   | 2,097  | 1,697 | 1,634 | 1,627 | 1,602 | 1,454 | 2,453 |
| Piece & Sundries <sup>2</sup> | 451    | 434   | 416   | 407   | 455   | 656   | 327   |

Source : National Environment Agency

Note : Exclude private markets/food centres of Statutory Boards.

1 Hawkers selling ice-cream, cakes or/and bread.

2 Includes items sold within Itinerant and Show Case premises.

## 21.2 LICENSED HAWKERS UNDER OTHER AGENCIES

(End of Period)

|                                          | Number |        |        |        |        |        |        |
|------------------------------------------|--------|--------|--------|--------|--------|--------|--------|
|                                          | 1994   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
| Total Licences Issued                    | 15,499 | 14,503 | 14,416 | 14,087 | 13,743 | 12,803 | 12,804 |
| Management Authority                     |        |        |        |        |        |        |        |
| Housing & Development Board              | 15,162 | 13,863 | 13,739 | 13,435 | 13,109 | 12,234 | 12,239 |
| Jurong Town Corporation                  | 210    | 196    | 189    | 186    | 186    | 187    | 185    |
| Port of Singapore Authority <sup>1</sup> | 72     | 57     | 61     | 59     | 60     | -      | -      |
| Private Market                           | 55     | 387    | 427    | 407    | 388    | 382    | 380    |
| Type of Goods Sold                       |        |        |        |        |        |        |        |
| Market Produce                           | 7,814  | 6,814  | 6,690  | 6,507  | 6,254  | 5,818  | 5,908  |
| Cooked Food                              | 5,675  | 5,512  | 5,506  | 5,420  | 5,370  | 4,952  | 4,861  |
| Piece & Sundries                         | 2,010  | 1,790  | 1,793  | 1,753  | 1,731  | 1,651  | 1,655  |
| Goods & Food Sold in<br>Private Market   | -      | 387    | 427    | 407    | 388    | 382    | 380    |

Source : National Environment Agency

1 From 2003, stalls in PSA food centre have been categorised as food establishments under Environment Health Department/NEA



## 21.3 LICENSED FOOD ESTABLISHMENTS

(End of Period)

|                             | Number |        |        |        |        |        |        |
|-----------------------------|--------|--------|--------|--------|--------|--------|--------|
|                             | 1994   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
| Total                       | 19,799 | 23,875 | 24,087 | 24,755 | 25,032 | 26,311 | 25,702 |
| Food Shops <sup>1</sup>     | 7,661  | 9,075  | 9,217  | 9,857  | 9,940  | 10,839 | 10,828 |
| Food Stalls <sup>2</sup>    | 10,534 | 13,395 | 13,483 | 13,499 | 13,629 | 14,125 | 13,509 |
| Food Factories <sup>3</sup> | 1,441  | 1,214  | 1,194  | 1,206  | 1,256  | 1,135  | 1,128  |
| Supermarkets <sup>4</sup>   | 163    | 191    | 193    | 193    | 207    | 212    | 237    |

Source : National Environment Agency

Agri-Food & Veterinary Authority of Singapore

Note : From 2003, food establishments are categorised under food shops, food stalls, supermarkets and food factories.

1 Refer to establishments which are licensed to retail food.

2 Refer to smaller compartmentalised units which are housed within a food shop.

3 Refer to food processing establishment where food is manufactured, processed, prepared or packed for the purpose of distribution to wholesalers and retailers.

From 2003, licensing of food factory has been transferred to Agri-Food & Veterinary Authority of Singapore.

4 Refer to larger stores / premises that sell fresh food such as meat, fish, vegetables and other prepacked foods.







The Ministry of Community Development, Youth and Sports (MCYS) aims to build a cohesive and resilient society by fostering socially responsible individuals; inspired and committed youth, strong and stable families; a caring and active community; and a sporting people. MCYS envisages a caring nation that is close-knit and united, pulling together not only in good times but also in times of adversity.

The Ministry is responsible for developing public policies on social, youth and sports issues. It has a developmental, regulatory and promotional role. It also provides direct services including protection and rehabilitation of juvenile delinquents, registration of civil and Muslim marriages, licensing of child care centres and driving public education on family matters. Using the Many Helping Hands approach, MCYS works with non-government organisations such as the Voluntary Welfare Organisations and National Sports Associations through partnership, networking and cooperation to engage the community and citizens to address these social and sports issues.

### Grassroots Organisations

The People's Association was established as a statutory board on 1 July 1960 to promote racial harmony and social cohesion. It does so through a network of grassroots organisations and Community Development Councils. The grassroots network comprises Citizens' Consultative Committees, Community Centre/Club Management Committees, Residents' Committees, Neighbourhood Committees, Malay Activity Executive Committees, Indian Activity Executive Committees, Senior Citizens' Executive Committees, Youth Executive Committees, Women's Executive Committees, Civil Defence Executive Committees, Constituency Sports Clubs, Teens Network Clubs, Area Sub Committees and Community Centre/Club Building Fund Committees.

### Community Development Councils

Community Development Councils (CDCs), under the charge of People's Association, were set up in 1997. There are five CDCs, each headed by a Mayor. The CDCs promote community bonding, civic consciousness, active citizenry and self-reliance within the community. Adopting a Many Helping Hands approach, they work closely with grassroots organisations, voluntary welfare organisations, corporate citizens and other community agencies to initiate, plan and deliver programmes. The CDCs also administer social and job assistance schemes on behalf of government agencies like the MCYS, the Ministry of Health and Ministry of Manpower.

### Volunteers

"Volunteers", in the MCYS context, refer to individuals who are providing services in community and welfare programmes without receiving full market rates of remuneration or allowances.

### Services for Senior Citizens

The MCYS and the Ministry of Health (MOH) undertake the planning, development and regulatory responsibilities for services for senior citizens. Services which are primarily health-oriented in nature are under the purview of MOH, whilst services that emphasise social care are under MCYS. These services range from community-based services to residential care services. MCYS also works with various agencies to promote volunteerism amongst the elderly.

### Child Care Programme

The main objectives of the child care programme are to promote and develop child care centres and to supervise centres in accordance with the Child Care Centres Act (Cap 37A) and Regulations. The MCYS,



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together with the CDCs, plan and develop child care centres and encourage individuals, organisations and employers in the public and private sectors to set up child care facilities. Child care centres provide regular full-day and half-day programmes to meet the child care needs of both working and non-working parents. Some centres offer flexible child care programmes to cater to the diverse work arrangements of parents who work part-time or flexible hours. Infant care services are also provided at some centres to cater to children aged between 2 to 18 months.

Youth

The Ministry was renamed the Ministry of Community Development, Youth and Sports in 2004, in recognition of its key role in engaging and developing our youth.

MCYS' vision for youth is one where they are inspired to make a difference, and meaningfully engaged in the community. MCYS works closely with key partners such as the National Youth Council (NYC) to fulfil this objective, through a wide variety of platforms ranging from consultation exercises to programmes aimed at facilitating youth participation.

Public Assistance

The Public Assistance (PA) scheme is meant to assist Singapore citizens who, owing to old age, illness, disability or unfavourable family circumstances, are unable to work and have no means of subsistence and no one to depend on. The monthly PA allowance is to meet their basic needs. It is not intended as an unemployment, retirement or disability support.



# 22.1 GRASSROOTS ORGANISATIONS

(End of Period)

|                                                   | Number |      |      |      |      |      |      |
|---------------------------------------------------|--------|------|------|------|------|------|------|
|                                                   | 1994   | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| Community Development Councils <sup>1</sup>       | -      | 9    | 9    | 5    | 5    | 5    | 5    |
| Residents' Committees                             | 436    | 509  | 515  | 529  | 535  | 536  | 544  |
| Citizens' Consultative Committees (CCCs)-Main     | 81     | 83   | 83   | 83   | 85   | 84   | 84   |
| CCC-Area Sub Committees                           | 51     | 55   | 49   | 47   | 45   | 40   | 43   |
| Community Centres/Club Management Committees      | 108    | 103  | 104  | 106  | 110  | 108  | 106  |
| Women's Executive Committees                      | 88     | 99   | 100  | 103  | 104  | 103  | 104  |
| Neighbourhood Committees <sup>2</sup>             | -      | 36   | 57   | 67   | 77   | 88   | 97   |
| Youth Executive Committees                        | 94     | 94   | 95   | 94   | 91   | 89   | 92   |
| Civil Defence Executive Committees <sup>3</sup>   | -      | 83   | 83   | 83   | 80   | 84   | 84   |
| Senior Citizens' Executive Committees             | 195    | 297  | 338  | 369  | 380  | 378  | 370  |
| T-Net Club Management Committees <sup>4</sup>     | -      | 13   | 13   | 13   | 8    | 8    | 8    |
| Building Fund Committees                          | 75     | 71   | 71   | 73   | 65   | 53   | 49   |
| Malay Activity Executive Committees <sup>5</sup>  | -      | 77   | 78   | 83   | 90   | 95   | 95   |
| Indian Activity Executive Committees <sup>6</sup> | -      | 77   | 79   | 81   | 84   | 86   | 89   |
| Constituency Sports Clubs                         | 81     | 83   | 83   | 83   | 84   | 84   | 84   |

Source : People's Association (PA)

1 Community Development Councils were formed in 1997.

They were re-structured into 5 CDCs on 24 November 2001.

2 Neighbourhood Committees were formed in 1998.

3 Civil Defence Executive Committees were formed in 1998.

4 Boys' Club Management Committees were formed in 1996.

It has been renamed as T-Net Club with effect from 1 November 2002.

5 Malay Activity Executive Committees were formed in 1995.

6 Indian Activity Executive Committees were formed in 1998.



## 22.2 VOLUNTEERS AND VOLUNTEER GROUPS

(End of Period)

|                                                        |        |        |        |        |        |        | Number |
|--------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|
|                                                        | 1994   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
| Community Service                                      |        |        |        |        |        |        |        |
| Total (Volunteers)                                     | 21,952 | 32,426 | 33,022 | 33,734 | 34,175 | 34,623 | 35,273 |
| Community Development Councils <sup>1</sup>            | -      | 233    | 293    | 312    | 244    | 254    | 291    |
| RC/Block Representatives                               | 10,176 | 11,499 | 11,131 | 11,439 | 11,297 | 11,343 | 11,453 |
| CCC-Main/CCC-Area Sub Committees                       | 2,763  | 3,577  | 3,568  | 3,537  | 3,579  | 3,595  | 3,743  |
| Community Centre/Club Management Committees            | 2,257  | 2,776  | 2,750  | 2,786  | 2,868  | 2,879  | 2,861  |
| Women's Executive Committees                           | 1,194  | 1,529  | 1,548  | 1,601  | 1,606  | 1,594  | 1,668  |
| Neighbourhood Committees <sup>2</sup>                  | -      | 528    | 867    | 1,007  | 1,105  | 1,277  | 1,404  |
| Civil Defence Executive Committees <sup>3</sup>        | -      | 1,442  | 1,443  | 1,447  | 1,457  | 1,593  | 1,646  |
| Senior Citizens' Executive Committees                  | 2,859  | 4,512  | 4,975  | 5,169  | 5,627  | 5,604  | 5,510  |
| T-Net Club Management Committees <sup>4</sup>          | -      | 202    | 189    | 194    | 103    | 104    | 98     |
| Building Fund Committees                               | -      | 1,381  | 1,410  | 1,438  | 1,314  | 1,075  | 974    |
| Malay Activity Executive Committees <sup>5</sup>       | -      | 955    | 1,015  | 1,026  | 1,101  | 1,223  | 1,323  |
| Indian Activity Executive Committees <sup>6</sup>      | -      | 936    | 953    | 948    | 999    | 1,078  | 1,169  |
| Youth Executive Committees                             | 1,440  | 1,535  | 1,522  | 1,433  | 1,472  | 1,461  | 1,517  |
| Constituency Sports Clubs                              | 1,263  | 1,321  | 1,358  | 1,397  | 1,403  | 1,543  | 1,616  |
| Welfare Service                                        |        |        |        |        |        |        |        |
| Total (Volunteers)                                     | 622    | 531    | 646    | 657    | 896    | 661    | 678    |
| Welfare Service Boards/Committees <sup>7</sup>         | 69     | 31     | 31     | 29     | 11     | 11     | 10     |
| Befrienders for the Aged Destitutes <sup>7</sup>       | 128    | 20     | 30     | 30     | -      | -      | -      |
| Volunteer Probation Officers                           | 404    | 302    | 338    | 344    | 435    | 393    | 414    |
| Volunteers in Children Homes/Hostels <sup>8</sup>      | 21     | 178    | 247    | 254    | 397    | 190    | 199    |
| Enable-A-Family (EAF) Volunteer Scheme <sup>9</sup>    | -      | -      | -      | -      | 53     | 67     | 55     |
| Total (Groups) <sup>10</sup>                           | -      | 32     | 45     | 45     | 18     | 20     | 15     |
| Groups of Befrienders for the Aged Scheme <sup>7</sup> | -      | 22     | 27     | 30     | -      | -      | -      |
| Groups of Volunteers in Children Homes/Hostels         | -      | 10     | 18     | 15     | 18     | 20     | 15     |

Source : Ministry of Community Development, Youth and Sports  
People's Association

Note : RC = Residents' Committees. CCC = Citizens' Consultative Committees.

1 Community Development Councils were formed in 1997. They were restructured into 5 CDCs on 24 November 2001.

2 Neighbourhood Committees were formed in 1998.

3 Civil Defence Executive Committees were formed in 1998.

4 Boys' Club Management Committees were formed in 1996. It has been renamed T-Net Club with effect from 1 November 2002.

5 Malay Activity Executive Committees were formed in 1995.

6 Indian Activity Executive Committees were formed in 1998.

7 The two homes which contributed to the number of volunteers were closed in 2002.

8 Figures from 1998 include individual volunteers from the Groups of Volunteers in Children Homes/Hostels.

9 Enable-A-Family (EAF) Volunteer Scheme was launched in 2002.

10 "Groups" refers to volunteering services provided on a group basis.



## 22.3 ENROLMENT IN CHILD CARE CENTRES BY TYPE OF PROGRAMME AND ORGANISATION

(End of Period)

|                                   | Number |        |        |        |        |        |        |
|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|
|                                   | 1994   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
| Total                             | 22,945 | 34,980 | 35,201 | 35,373 | 39,068 | 41,094 | 44,315 |
| Full-Day Programme                | 20,863 | 31,186 | 30,985 | 29,566 | 32,655 | 33,287 | 35,123 |
| People's Association <sup>1</sup> | 1,126  | 1,137  | 934    | 678    | 331    | 81     | -      |
| NTUC                              | 1,902  | 2,455  | 2,699  | 2,758  | 3,128  | 3,300  | 3,380  |
| Voluntary                         | 6,998  | 9,894  | 9,753  | 9,096  | 10,121 | 9,880  | 10,283 |
| Workplace                         | 1,489  | 2,386  | 2,125  | 2,273  | 2,489  | 2,695  | 2,743  |
| Private                           | 9,348  | 15,314 | 15,474 | 14,761 | 16,586 | 17,331 | 18,717 |
| Half-Day Programme                | 2,082  | 3,794  | 4,216  | 5,807  | 6,413  | 6,972  | 7,556  |
| Flexicare Programme <sup>2</sup>  | -      | -      | -      | -      | -      | 835    | 1,636  |

Source : Ministry of Community Development, Youth and Sports

NTUC = National Trades Union Congress.

1 People's Association has stopped providing child care facilities with effect from 31 Dec 2003.

2 Flexicare Programme was implemented in Jan 2003.

## 22.4 PUBLIC ASSISTANCE RECIPIENTS BY CATEGORY

(End of Period)

|                                         | Number |       |       |       |       |       |       |
|-----------------------------------------|--------|-------|-------|-------|-------|-------|-------|
|                                         | 1994   | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
| Total                                   | 2,132  | 2,238 | 2,409 | 2,630 | 2,565 | 2,551 | 2,714 |
| Aged Destitutes                         | 1,852  | 1,789 | 1,930 | 2,181 | 2,148 | 2,191 | 2,331 |
| Medically Unfit for Work                | 76     | 169   | 178   | 184   | 171   | 169   | 192   |
| Abandoned/Distressed<br>Wives & Orphans | 61     | 76    | 78    | 75    | 57    | 31    | 35    |
| Disabled Persons Under 60 years         | 101    | 187   | 211   | 179   | 180   | 152   | 146   |
| Widows with Children<br>under 12 years  | 42     | 17    | 12    | 11    | 9     | 8     | 10    |

Source : People's Association

Note : Figures prior to Q2 2001 were from the then Ministry of Community Development and Sports.



## 22.5

## RESIDENTS IN OLD FOLKS' HOMES BY TYPE OF ORGANISATION AND SEX

(End of Period)

|                                        | Number |       |       |       |       |       |       |
|----------------------------------------|--------|-------|-------|-------|-------|-------|-------|
|                                        | 1994   | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
| Total                                  | 4,196  | 5,834 | 6,022 | 6,587 | 7,154 | 7,552 | 7,924 |
| Males                                  | 1,851  | 2,511 | 2,667 | 2,904 | 3,196 | 3,390 | 3,543 |
| Females                                | 2,345  | 3,323 | 3,355 | 3,683 | 3,958 | 4,162 | 4,381 |
| Government Welfare Home <sup>1</sup>   | 720    | 825   | 908   | 852   | 917   | 982   | 955   |
| Males                                  | 607    | 684   | 745   | 694   | 729   | 771   | 746   |
| Females                                | 113    | 141   | 163   | 158   | 188   | 211   | 209   |
| Sheltered Housing /<br>Community Homes | 442    | 540   | 586   | 578   | 602   | 615   | 635   |
| Males                                  | 184    | 205   | 243   | 235   | 251   | 271   | 271   |
| Females                                | 258    | 335   | 343   | 343   | 351   | 344   | 364   |
| Voluntary Nursing Homes                | 1,905  | 2,979 | 3,190 | 3,713 | 4,275 | 4,367 | 4,533 |
| Males                                  | 682    | 1,075 | 1,195 | 1,424 | 1,684 | 1,751 | 1,845 |
| Females                                | 1,223  | 1,904 | 1,995 | 2,289 | 2,591 | 2,616 | 2,688 |
| Commercial Nursing Homes               | 1,129  | 1,490 | 1,338 | 1,444 | 1,360 | 1,588 | 1,801 |
| Males                                  | 378    | 547   | 484   | 551   | 532   | 597   | 681   |
| Females                                | 751    | 943   | 854   | 893   | 828   | 991   | 1,120 |

Source : Ministry of Community Development, Youth and Sports  
Ministry of Health

<sup>1</sup> Data include only those aged 60 years and above.

Woodlands Home for the Aged was closed in May 1997. From 1997 onwards, data refer to Pelangi Home and Woody Lodge.



## CULTURE AND RECREATION

# RECREATION



### **MediaCorp Pte Ltd**

MediaCorp features prominently in the development of Singapore's broadcasting history. With 69 years of radio and 42 years of television experience, MediaCorp is Singapore's largest broadcaster with a complete range of media businesses spanning TV, Radio, Entertainment Productions, Movie Productions, Newspapers, Magazines, Electronic Media and other broadcasting services.

### **UnionWorks Pte Ltd**

NTUC Media and SPH Multimedia Pte Ltd own UnionWorks Pte Ltd. The 50-50 joint venture owns, operates and manages WKRZ91.3FM and UFM100.3. WKRZ91.3 broadcasts in English whilst UFM100.3 broadcasts in Mandarin.

### **SAFRA Radio**

Power 98 FM and Dongli 88.3 FM make up the SAFRA Radio network. These two exciting hip stations appeal to the young, with a weekly reach of over 350,000 listeners. The stations are also piped in exclusively to all army camps and installations with an additional reach of 355,000 NSFs, NS Men & Regulars.

In 2004, Power98 celebrated 10 years of broadcast and Dongli, 9 years. Power Jam, a big local band competition was organised in support of local music attracting over 1,000 people at the finals. In addition, Power 98 teamed up with ESPN for the exclusive radio edition of the popular sports programme ESPN Sportcentre.

### **SPH MediaWorks Ltd**

SPH MediaWorks Ltd (MediaWorks) was the broadcasting arm of SGX-listed Singapore Press Holdings Ltd (SPH). It was granted a licence to operate two free-to-air two

stations, the Chinese language Channel U and television channels in April 2001, and launched English language Channel i, in May 2001. SPH MediaWorks ceased operations on 31 December 2004 following the merger of its free-to-air television operations with MediaCorp Pte Ltd.

### **Rediffusion Pte Ltd**

Rediffusion Pte Ltd, a licensed commercial audio broadcasting station since 1949, provides direct sound broadcasts to subscribers via cable on two channels. A new wireless Digital Audio Broadcasting (DAB) service was launched on 10 October 2000 to complement its existing service on the cable.

The Gold Channel broadcasts Mandarin/Chinese dialect programmes daily from 6 am to 12 midnight and the Silver Channel carries 24 hours of non-stop English/Mandarin programmes.

### **Cinema**

Data on cinema attendances are compiled by the Singapore Department of Statistics from returns submitted by cinema organisations. Prior to April 1994, they were obtained from the Singapore Customs. Total attendances are based on the number of tickets sold.

### **Library**

The National Library Board (NLB) provides essential library facilities, information services as well as a variety of cultural, educational and recreational programmes for the community, government and businesses. In addition to the new National Library (opening in year 2005), there are 19 Community Libraries, 3 Regional Libraries and 18 Community Children's Libraries.



The new National Library is designed to meet the needs of researchers, business persons and the general public. It will house the Lee Kong Chian Reference Library, (LKCR) (formerly known as the National Reference Library), the Central Lending Library (CLL) and the National Arts Council's Drama Centre.

The LKCR will offer a reference collection of 500,000 items with emphasis on several areas. The Social Sciences and Humanities, Science and Technology Collections will offer an authoritative cross-disciplinary resource covering global and Asian perspectives. The Business Collection will feature a wide variety of materials on economics, finance, investment, management and business development. The Arts Collection, which emphasizes the history, theory and practice of all facets of the visual arts will complement the performing arts collection at the Library@ Esplanade. The Chinese, Malay and Tamil Collections will offer materials in the three languages. The Singapore and Southeast Asian Collections will feature works on all subject areas with a focus on history, literature, culture, and more.

The CLL has 134,000 items. The four core collections at CLL are: the Visual, Creative & Literary Arts Collection, the Business & Management Collection, the Fiction Collection and the Singapore Collection. The CLL will offer a Fiction Advisory Service, which recommends books and resources on Fiction-related topics, booklists on popular authors or topics, reading programmes and book discussions, as well as guides to Fiction-genres.

The computerized National Library System links all libraries under the NLB. Functions of the system include cataloguing, acquisitions, serials, legal deposit, enquiries, loans and the on-line public access catalogue. Data on library membership, loans and collections are generated on a regular basis by the system.

NLB uses the Library Material Circulation System, which is based on Radio Frequency Identification (RFID) technology to identify, categorise and track the loan and return of library materials in its network of libraries. As at 2004, 11 million library items within NLB has each been tagged with a RFID label.

NLB also oversees eLibraryHub.com, which offers individuals, businesses and community groups immediate access to some 24,000 titles, including more than 700 CD-ROMs and reference videos, 13,000 e-magazines, e-journals and online databases and 10,000 eBooks titles, as well as a host of library-related transactions and information services. All these will be merged into the NLB Digital Library at [www.nlb.gov.sg](http://www.nlb.gov.sg).

### Sports Facilities

The Singapore Sports Council is responsible for the promotion of both competitive and recreational sports in Singapore. Through the "Sports For All" policy, it promotes a wide range of sports activities and programmes.

The Sports Council also provides a wide range of sports facilities for the public. Apart from the National Stadium and the Singapore Indoor Stadium, the Sports Council maintains and operates a number of stadiums, multi-purpose fields, sports halls, netball courts, squash courts, tennis courts, swimming pools and fitness gyms.

Managed as Sports Council's Sports and Recreation Centres, these sports facilities are clustered into three zones with the aim of delivering higher levels of service and creating more enjoyable sporting experiences for the public.



## Sports and Performing Arts Courses

The People's Association, together with grassroots organisations and CDCs, organises and promotes community participation in social, cultural, educational, youth, sports, recreational, adventure and other wholesome activities to nurture inter-racial understanding at their Community Centres/Clubs (CCs), Sea Sports Clubs (SSCs) and Residents' Committee (RC) centres. The CCs, SSCs and RC centres conduct regular social, recreational, sports, educational and arts courses and activities.

## The Arts

The National Arts Council (NAC) compiles data on arts activities from performing venues, arts groups and impresarios, newspapers and magazines. Pop and rock concerts are not included in the statistics.

## Definitions

**Performing Arts:** Refers to folk, traditional, classical and contemporary dance, music, theatre and other performances. Traditional arts performances such as lion and dragon dances are excluded as they are usually performed for closed religious and ceremonial audiences. Performances classified as 'others' include multi-media and multi-disciplinary performances (e.g. cultural performances staged at Community Centres/Clubs).

**Visual Arts:** Refers to public exhibitions of abstract or representational arts objects such as paintings, sculpture, pottery, ceramics, creative photography and installation art. Commercial applied arts like graphic and fashion design, film and video, jewellery design and handicraft are excluded.



## 23.1

# TELEVISION LICENCES, CABLETV SUBSCRIBERS, REDIFFUSION SUBSCRIBERS AND CINEMAS

(End of Period)

|                                         | 1994   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   |
|-----------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Television Licences <sup>1</sup> ('000) | 646    | 677    | 761    | 816    | 832    | 855    | 876    |
| CableTV Subscribers <sup>2</sup> ('000) | 26     | 207    | 255    | 302    | 352    | 380    | 412    |
| Rediffusion Subscribers (No)            | 29,200 | 16,236 | 14,496 | 13,436 | 11,843 | 10,556 | 9,204  |
| Cinemas (No)                            | 107    | 158    | 154    | 151    | 145    | 147    | 147    |
| Seating Capacity ('000)                 | 55     | 46     | 41     | 41     | 39     | 38     | 38     |
| Attendances ('000)                      | 17,857 | 14,774 | 13,441 | 13,563 | 14,268 | 14,644 | 15,877 |

Source : Media Development Authority

StarHub Cable Vision Ltd

Rediffusion Pte Ltd

Singapore Department of Statistics (with effect from April 1994)

1 Data prior to 1998 were based on cumulation of 12 months' figures. From 1998, data are as at end of the period.

2 CableTV began in 1995. Data prior to 1995 refer to UHF subscribers.

## 23.2

# RADIO AND TELEVISION TRANSMISSION

Hours Per Week

|                                               | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|-----------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Radio                                         |       |       |       |       |       |       |       |
| (MediaCorp, UnionWorks & SAFRA <sup>1</sup> ) | 2,081 | 2,843 | 2,499 | 2,576 | 2,576 | 2,576 | 2,576 |
| Television                                    |       |       |       |       |       |       |       |
| (MediaCorp & MediaWorks <sup>2</sup> )        | 275   | 455   | 710   | 734   | 966   | 1,015 | 1,020 |

Source : MediaCorp Pte Ltd

UnionWorks Pte Ltd

SAFRA Radio

SPH MediaWorks Ltd

1 Operated with effect from October 1994.

2 Operated from April 2001 to December 2004.



## 23.3 NATIONAL LIBRARY MEMBERSHIP, BOOK COLLECTIONS AND LOAN OF LIBRARY MATERIALS

|                                             | 1994    | 1999     | 2000     | 2001     | 2002     | 2003     | Thousand<br>2004 |
|---------------------------------------------|---------|----------|----------|----------|----------|----------|------------------|
| Membership <sup>1</sup>                     | 935.8   | 1,719.6  | 1,839.3  | 1,962.0  | 2,092.1  | 2,192.6  | 1,813.8          |
| Persons Aged 13 years and Over <sup>2</sup> | 745.7   | 1,394.6  | 1,486.7  | 1,554.7  | 1,618.9  | 1,886.2  | 1,561.2          |
| Children Under 13 Years <sup>3</sup>        | 190.0   | 325.0    | 352.6    | 407.3    | 473.2    | 306.4    | 252.5            |
| Book Collections                            | 2,969.3 | 5,419.8  | 6,065.4  | 6,861.1  | 7,771.4  | 7,821.0  | 7,855.6          |
| English                                     | 1,861.2 | 3,454.7  | 3,897.2  | 4,409.8  | 5,029.2  | 5,061.8  | 5,118.6          |
| Chinese                                     | 675.7   | 1,409.2  | 1,537.9  | 1,714.5  | 1,904.7  | 1,913.1  | 1,889.1          |
| Malay                                       | 341.9   | 416.1    | 473.7    | 542.9    | 599.1    | 597.8    | 596.6            |
| Tamil                                       | 90.5    | 139.8    | 156.6    | 193.9    | 238.4    | 248.3    | 251.3            |
| Loan of Library Materials <sup>4</sup>      | 9,738.3 | 24,757.1 | 24,543.4 | 27,718.0 | 30,128.0 | 34,889.9 | 26,371.6         |
| Persons Aged 13 Years and Over <sup>2</sup> | 4,782.3 | 12,432.1 | 13,477.3 | 17,230.1 | 18,131.4 | 23,594.3 | 18,132.4         |
| Children Under 13 Years <sup>3</sup>        | 4,956.0 | 12,325.0 | 11,066.1 | 10,487.9 | 11,996.6 | 11,295.6 | 8,239.2          |

Source : National Library Board

1 From 2004, data exclude members who have no library transactions in the past 5 years.

2 Prior to 1997, data refer to persons aged 12 years and over.

3 Prior to 1997, data refer to children under 12 years.

4 Loans include books, magazines and AV materials (such as Video Tapes, VCDs, CDs, CD-Roms, DVDs and music scores).

Prior to 2004, data include materials borrowed from public libraries, government libraries and academic libraries.

Data for 2004 include materials borrowed from public libraries only.

## 23.4 DAILY NEWSPAPER CIRCULATION

|         | 1994      | 1999      | 2000      | 2001      | 2002      | 2003      | Number<br>2004 |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|
| Total   | 1,085,012 | 1,148,137 | 1,197,301 | 1,637,383 | 1,766,088 | 1,708,665 | 1,622,728      |
| English | 522,936   | 545,523   | 551,463   | 1,033,794 | 1,162,247 | 1,095,982 | 1,038,546      |
| Chinese | 494,792   | 528,219   | 570,775   | 529,580   | 531,073   | 541,672   | 516,148        |
| Malay   | 62,040    | 64,289    | 65,103    | 63,836    | 63,410    | 62,079    | 58,192         |
| Tamil   | 5,244     | 10,106    | 9,960     | 10,173    | 9,358     | 8,932     | 9,842          |

Source : Singapore Press Holdings Ltd

MediaCorp Press Ltd

Notes : Refer to daily average circulation for January-December.

English Newspapers - The Straits Times/Sunday Times, Business Times, New Paper/New Paper Sunday.

From 2001, figures include Streets and TODAY.

Chinese Newspapers - Lianhe Zaobao, Lianhe Wanbao, Shin Min Daily News, Friday Weekly, Thumbs Up.

Malay Newspapers - Berita Harian/Berita Minggu.

Tamil Newspapers - Tamil Murasu/Tamil Murasu Sunday.



## 23.5

## VISITORS TO PLACES OF INTEREST

|                                          | 1994    | 1999    | 2000    | 2001    | 2002    | 2003    | Thousand<br>2004 |
|------------------------------------------|---------|---------|---------|---------|---------|---------|------------------|
| Singapore History Museum                 | 273.0   | 335.1   | 308.7   | 267.8   | 291.2   | 109.1   | 87.6             |
| Singapore Art Museum <sup>1</sup>        | -       | 180.8   | 133.9   | 137.8   | 127.7   | 149.4   | 337.8            |
| Asian Civilisations Museum <sup>2</sup>  | -       | 141.6   | 71.3    | 70.3    | 72.0    | 147.2   | 225.8            |
| Singapore Philatelic Museum <sup>3</sup> | -       | 43.3    | 37.8    | 46.7    | 42.9    | 45.8    | 61.5             |
| Singapore Science Centre                 | 529.3   | 510.1   | 489.6   | 520.6   | 515.7   | 486.3   | 806.4            |
| Singapore Zoological Gardens             | 1,433.6 | 1,386.3 | 1,323.3 | 1,428.6 | 1,291.8 | 1,062.6 | 1,148.4          |
| Sentosa <sup>4</sup>                     | 4,102.0 | 3,370.7 | 3,392.5 | 3,759.4 | 4,123.4 | 4,151.3 | 5,053.0          |
| Chinese/Japanese Gardens <sup>5</sup>    | 286.0   | 209.7   | 205.8   | 245.6   | 480.4   | 452.8   | 598.8            |
| Jurong BirdPark                          | 1,512.7 | 889.1   | 969.3   | 930.0   | 989.5   | 699.8   | 753.2            |

Source : National Heritage Board

Sentosa Development Corporation

Singapore Science Centre

Jurong Gardens Pte Ltd

Singapore Zoological Gardens

Jurong BirdPark

1 Opened in January 1996.

2 Opened in April 1997. Figures include visitors to Asian Civilisations Museum at Armenian Street and Empress Place Building (with effect from March 2003).

3 Opened in August 1995.

4 Figures refer to financial years from April to March of the following year.

5 From October 2002, Japanese Garden has been closed for renovation.

## 23.6

## UTILISATION OF SPORTS FACILITIES

|                | 1994      | 1999      | 2000      | 2001      | 2002      | 2003      | Number<br>2004 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|
| Attendances    |           |           |           |           |           |           |                |
| Swimming       | 5,459,531 | 6,368,590 | 6,366,938 | 6,894,176 | 7,230,712 | 5,721,706 | 6,789,972      |
| Bookings       |           |           |           |           |           |           |                |
| Tennis         | 121,737   | 102,250   | 105,205   | 108,425   | 101,672   | 100,900   | 109,333        |
| Badminton      | 154,655   | 205,474   | 228,684   | 264,588   | 265,423   | 293,583   | 313,970        |
| Squash         | 47,679    | 28,298    | 23,818    | 24,991    | 23,338    | 20,925    | 18,423         |
| Netball        | 3,426     | 5,042     | 6,016     | 6,740     | 7,086     | 7,772     | 8,678          |
| Soccer         | 10,158    | 7,796     | 7,888     | 7,567     | 11,790    | 13,171    | 15,072         |
| Hockey         | 1,287     | 3,328     | 4,154     | 3,308     | 3,604     | 3,656     | 4,034          |
| Rugby          | 247       | 535       | 485       | 607       | 723       | 760       | 622            |
| Athletics      | 571       | 616       | 693       | 663       | 682       | 547       | 876            |
| Golf (Persons) | 9,807     | 5,159     | 4,413     | 4,926     | 3,967     | 7,480     | 6,424          |

Source : Singapore Sports Council

Note : Data refer to sports facilities provided by Singapore Sports Council.



## 23.7

# SPORTS AND PERFORMING ARTS COURSES CONDUCTED BY COMMUNITY CENTRES/CLUBS, SEA SPORTS CLUBS AND RESIDENTS' COMMITTEES

| Type of Course             |        |         |         |         |         |         | Number  |
|----------------------------|--------|---------|---------|---------|---------|---------|---------|
|                            | 1994   | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    |
| Classes                    |        |         |         |         |         |         |         |
| Sports Courses             | 2,323  | 3,010   | 3,355   | 3,931   | 3,679   | 5,057   | 6,553   |
| Ball Games                 | 192    | 94      | 62      | 57      | 47      | 103     | 68      |
| Board / Intellectual Games | -      | 1       | 29      | 33      | 8       | 7       | 6       |
| Keep Fit                   | 375    | 478     | 601     | 830     | 1,083   | 1,734   | 2,387   |
| Martial Arts               | 877    | 1,022   | 1,192   | 1,284   | 1,416   | 2,343   | 2,922   |
| Performing Sports          | 118    | 98      | 140     | 72      | 94      | 115     | 134     |
| Water Sports               | 761    | 1,317   | 1,331   | 1,655   | 1,031   | 755     | 1,036   |
| Performing Arts Courses    | 6,750  | 14,500  | 12,420  | 15,943  | 16,962  | 19,334  | 21,646  |
| Dance                      | 3,031  | 5,400   | 3,941   | 5,165   | 5,426   | 6,064   | 6,833   |
| Drama                      | 423    | 500     | 688     | 898     | 948     | 2,171   | 3,748   |
| Music                      | 2,192  | 6,300   | 6,332   | 7,981   | 8,678   | 8,444   | 8,272   |
| Vocal                      | 1,102  | 2,300   | 1,459   | 1,899   | 1,910   | 2,655   | 2,793   |
| Participants               |        |         |         |         |         |         |         |
| Sports Courses             | 35,015 | 43,773  | 46,220  | 59,113  | 64,262  | 96,790  | 118,300 |
| Ball Games                 | 2,145  | 1,251   | 526     | 553     | 547     | 1,733   | 823     |
| Board / Intellectual Games | -      | 9       | 358     | 380     | 93      | 51      | 38      |
| Keep Fit                   | 5,291  | 6,438   | 8,574   | 13,854  | 18,420  | 33,121  | 44,866  |
| Martial Arts               | 16,944 | 21,913  | 22,858  | 28,534  | 31,737  | 49,077  | 56,237  |
| Performing Sports          | 3,327  | 1,852   | 1,626   | 880     | 1,178   | 1,468   | 1,649   |
| Water Sports               | 7,308  | 12,310  | 12,278  | 14,912  | 12,287  | 11,340  | 14,687  |
| Performing Arts Courses    | 93,392 | 156,200 | 108,665 | 148,855 | 148,335 | 185,959 | 201,016 |
| Dance                      | 46,080 | 79,600  | 60,399  | 83,972  | 82,034  | 88,085  | 89,930  |
| Drama                      | 7,293  | 7,500   | 7,933   | 11,070  | 11,507  | 27,518  | 42,541  |
| Music                      | 15,301 | 26,500  | 12,399  | 17,385  | 18,339  | 20,537  | 19,685  |
| Vocal                      | 24,675 | 42,600  | 27,934  | 36,428  | 36,455  | 49,819  | 48,860  |
| Others                     | 43     | -       | -       | -       | -       | -       | -       |

Source : People's Association

Notes : Prior to 1998, period refers to financial year from April to March of the following year.

From 1998 onwards, period refers to calendar year.

Prior to 2003, only the Sports and Performing Arts courses conducted by the Community Centres/Clubs were included. From 2003 onwards, the Sports and Performing Arts courses that are conducted by Sea Sports Clubs and Residents' Committees are also included.



## 23.8 THE ARTS

| Arts Form                       | 1994    | 1999    | 2000    | 2001    | 2002      | 2003    | 2004      |
|---------------------------------|---------|---------|---------|---------|-----------|---------|-----------|
| Performing Arts                 |         |         |         |         |           |         |           |
| Total Performances <sup>1</sup> | 2,091   | 3,768   | 3,876   | 4,111   | 5,177     | 4,654   | 5,105     |
| Music                           | 740     | 1,264   | 1,318   | 1,343   | 1,632     | 1,889   | 1,992     |
| Dance                           | 138     | 482     | 504     | 447     | 455       | 498     | 716       |
| Theatre                         | 989     | 1,715   | 1,676   | 2,005   | 2,716     | 1,898   | 1,946     |
| Others                          | 224     | 307     | 378     | 316     | 374       | 369     | 451       |
| Ticketed Performances           | 1,532   | 2,066   | 2,061   | 2,203   | 2,652     | 2,437   | 2,710     |
| Music                           | 538     | 500     | 525     | 535     | 602       | 610     | 741       |
| Dance                           | 102     | 163     | 205     | 200     | 204       | 248     | 317       |
| Theatre                         | 858     | 1,331   | 1,290   | 1,447   | 1,766     | 1,490   | 1,551     |
| Others                          | 34      | 72      | 41      | 21      | 80        | 89      | 101       |
| Attendance <sup>2</sup>         | 845,201 | 914,020 | 857,892 | 940,168 | 1,084,192 | 985,197 | 1,110,320 |
| Music                           | 473,098 | 295,897 | 303,840 | 305,837 | 393,605   | 381,893 | 445,759   |
| Dance                           | 59,426  | 90,986  | 149,554 | 87,656  | 101,271   | 108,853 | 119,035   |
| Theatre                         | 299,298 | 387,228 | 361,114 | 532,177 | 475,078   | 432,483 | 452,417   |
| Others                          | 13,379  | 139,909 | 43,384  | 14,498  | 114,238   | 61,968  | 93,109    |
| Visual Arts Exhibitions         |         |         |         |         |           |         |           |
| Number                          | 208     | 406     | 520     | 518     | 551       | 537     | 563       |
| Days                            | 2,135   | 7,654   | 8,376   | 8,515   | 9,459     | 11,380  | 13,990    |

Source : National Arts Council

Note : From 2002, data include performances and attendances at the Esplanade - Theatres on the Bay.

1 Includes both ticketed and non-ticketed performances.

2 Refers to ticketed attendance only.



## 23.9 REGISTERED ARTS SOCIETIES AND COMPANIES

| Arts Discipline        |      |      |      |      |      |      |      | Number |
|------------------------|------|------|------|------|------|------|------|--------|
|                        | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |        |
| Societies <sup>1</sup> |      |      |      |      |      |      |      |        |
| Total                  | 213  | 224  | 228  | 236  | 242  | 247  | 267  |        |
| Music                  | 54   | 59   | 61   | 64   | 69   | 72   | 81   |        |
| Dance                  | 21   | 21   | 23   | 22   | 22   | 20   | 20   |        |
| Chinese Opera          | 10   | 10   | 12   | 11   | 11   | 13   | 13   |        |
| Theatre                | 39   | 41   | 43   | 47   | 45   | 47   | 47   |        |
| Literature             | 13   | 13   | 14   | 16   | 16   | 16   | 17   |        |
| Visual Arts            | 35   | 39   | 36   | 36   | 37   | 37   | 38   |        |
| Photography            | 9    | 9    | 10   | 11   | 11   | 10   | 10   |        |
| Multi-Discipline       | 32   | 32   | 29   | 29   | 31   | 32   | 41   |        |
| Companies <sup>2</sup> |      |      |      |      |      |      |      |        |
| Total                  | 212  | 220  | 256  | 270  | 266  | 302  | 321  |        |
| Music                  | 11   | 14   | 19   | 19   | 18   | 24   | 25   |        |
| Dance                  | 5    | 8    | 10   | 11   | 11   | 15   | 13   |        |
| Chinese Opera          | 29   | 27   | 27   | 29   | 30   | 31   | 35   |        |
| Theatre                | 19   | 25   | 32   | 45   | 44   | 47   | 51   |        |
| Visual Arts            | 137  | 135  | 150  | 143  | 137  | 153  | 158  |        |
| Multi-Discipline       | 11   | 11   | 18   | 23   | 26   | 32   | 39   |        |

Source : National Arts Council

1 Include arts societies registered under Registrar of Societies.

2 Include arts companies registered under Accounting and Corporate Regulatory Authority.



Electricity is generated by the Singapore Electric Supply Corporation (SESC) and is distributed to consumers by the Singapore Electricity Board (SEB). The SEB is a statutory corporation established in 1962. It is responsible for the distribution of electricity to consumers in Singapore. The SEB is a public utility and is owned by the Government of Singapore. The SEB is responsible for the distribution of electricity to consumers in Singapore. The SEB is a public utility and is owned by the Government of Singapore.

**Piped Gas Industry**  
The piped gas industry in Singapore is a public utility and is owned by the Government of Singapore. It is responsible for the distribution of piped gas to consumers in Singapore. The piped gas industry is a public utility and is owned by the Government of Singapore. It is responsible for the distribution of piped gas to consumers in Singapore.

The town gas network serves about 1.5 million households in Singapore and is a public utility and is owned by the Government of Singapore. It is responsible for the distribution of town gas to consumers in Singapore. The town gas network serves about 1.5 million households in Singapore and is a public utility and is owned by the Government of Singapore.

Natural gas is supplied to Singapore via pipelines from Malaysia, West Sumatra (Indonesia) and Sumatra (Indonesia). Natural gas is supplied to Singapore via pipelines from Malaysia, West Sumatra (Indonesia) and Sumatra (Indonesia). Natural gas is supplied to Singapore via pipelines from Malaysia, West Sumatra (Indonesia) and Sumatra (Indonesia).

**Fire Occurrences**  
The Singapore Civil Defence Force (SCDF) is responsible for fire occurrences in Singapore. The SCDF is a public utility and is owned by the Government of Singapore. It is responsible for the distribution of fire services to consumers in Singapore. The SCDF is a public utility and is owned by the Government of Singapore.

**Definitions**  
Residential buildings: Refers to all buildings, either permanent or temporary, used for residential purposes only. It does not include hotels, boarding houses, hostels, etc.

Electricity is generated by the Singapore Electric Supply Corporation (SESC) and is distributed to consumers by the Singapore Electricity Board (SEB). The SEB is a statutory corporation established in 1962. It is responsible for the distribution of electricity to consumers in Singapore. The SEB is a public utility and is owned by the Government of Singapore. The SEB is responsible for the distribution of electricity to consumers in Singapore.

Today the Singapore electricity market consists of the wholesale market (National Electricity Market of Singapore (NEM)) and the retail market (NEM). The NEM is operated and administered by the Energy Market Authority (EMA). The NEM is a public utility and is owned by the Government of Singapore. The NEM is responsible for the distribution of electricity to consumers in Singapore.

There are seven generation licenses. Four generation companies, namely, Sembcorp Power Ltd, PowerGen Ltd, Trusmi Power Ltd and Seng Guan Power Ltd compete for electricity generation. The National Environment Agency (NEA) operates the incineration plants and sells the generated electricity. The other two licenses have not started operation.

As of December 2004, Singapore has an installed capacity of 9,639 MW. Total electricity produced was 36,800 GWh in year 2004 and peak demand was 4,239 MW.

The retail electricity market is being liberalised in phases to allow consumers to buy electricity from retailers of their choice.



### Electricity

In April 2001, the contestable parts of the electricity industry (ie., generation and retailing) were separated from the non-contestable parts (ie., transmission and distribution) at the ownership level. At the same time, the Energy Market Authority was formed to regulate the electricity and gas industries.

Today, the Singapore electricity market consists of the wholesale market [National Electricity Market of Singapore (NEMS)] and the retail market. NEMS, which commenced on 1 January 2003, is operated and administered by the Energy Market Company. At NEMS, generation companies bid to sell electricity every half an hour.

There are seven generation licensees. Four generation companies, namely, Senoko Power Ltd, PowerSeraya Ltd, Tuas Power Ltd and SembCorp Cogen Pte Ltd compete for electricity generation. The National Environment Agency, operates the incineration plants and sells the generated electricity. The other two licensees have not started operation.

As of December 2004, Singapore has an installed capacity of 9,639 MW. Total electricity produced was 36,809 GWh in year 2004 and peak demand was 5,279 MW.

The retail electricity market is being liberalised in phases to allow consumers to buy electricity from retailers of their choice.

There are five active licensed electricity retailers who compete to sell electricity to contestable consumers. About 75% of the total electricity demand has been opened to competition.

### Piped Gas Industry

The gas industry in Singapore consists of two wholly separate gas networks - the town gas network and the natural gas network.

The town gas network serves about 50% of the households in Singapore and is used mainly for cooking and water heating by domestic and commercial customers. Total town gas sold in 2004 was 1,345.1 million units.

Natural gas is supplied to Singapore via pipelines from Malaysia, West Natuna (Indonesia) and Sumatra (Indonesia). Natural gas contributed to 69% of electricity generated in 2004.

### Fire Occurrences

The Singapore Civil Defence Force's (SCDF) mission is to protect and save lives and property for a safe and secure Singapore. The data on fire occurrences are compiled by the SCDF.

### Definitions

*Residential buildings:* Refers to all buildings, either permanent or temporary, used for residential purpose only. It does not include hotels, boarding houses, hostels, etc.



24 MISCELLANEOUS (cont'd)

**Public, commercial and industrial buildings:** Refers to all buildings, either permanent or temporary, used for other than residential purpose, such as commercial, manufacturing, storage, sales, services and public buildings.

**Non-building:** Refers to all other properties or things other than buildings, such

as vehicles, vessels, aircraft, electrical cables, bridges, canals, discarded materials, vegetation, etc.

Criminal offences

Singapore's crime statistics are compiled from offences reported to the police during the reference period and not at the time the offences were actually committed.

24.4 SELECTED CRIMINAL OFFENCES

| Year | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 | 1991 | 1990 | 1989 | 1988 | 1987 | 1986 | 1985 | 1984 | 1983 | 1982 | 1981 | 1980 | 1979 | 1978 | 1977 | 1976 | 1975 | 1974 | 1973 | 1972 | 1971 | 1970 | 1969 | 1968 | 1967 | 1966 | 1965 | 1964 | 1963 | 1962 | 1961 | 1960 | 1959 | 1958 | 1957 | 1956 | 1955 | 1954 | 1953 | 1952 | 1951 | 1950 | 1949 | 1948 | 1947 | 1946 | 1945 | 1944 | 1943 | 1942 | 1941 | 1940 | 1939 | 1938 | 1937 | 1936 | 1935 | 1934 | 1933 | 1932 | 1931 | 1930 | 1929 | 1928 | 1927 | 1926 | 1925 | 1924 | 1923 | 1922 | 1921 | 1920 | 1919 | 1918 | 1917 | 1916 | 1915 | 1914 | 1913 | 1912 | 1911 | 1910 | 1909 | 1908 | 1907 | 1906 | 1905 | 1904 | 1903 | 1902 | 1901 | 1900 | 1899 | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 | 1883 | 1882 | 1881 | 1880 | 1879 | 1878 | 1877 | 1876 | 1875 | 1874 | 1873 | 1872 | 1871 | 1870 | 1869 | 1868 | 1867 | 1866 | 1865 | 1864 | 1863 | 1862 | 1861 | 1860 | 1859 | 1858 | 1857 | 1856 | 1855 | 1854 | 1853 | 1852 | 1851 | 1850 | 1849 | 1848 | 1847 | 1846 | 1845 | 1844 | 1843 | 1842 | 1841 | 1840 | 1839 | 1838 | 1837 | 1836 | 1835 | 1834 | 1833 | 1832 | 1831 | 1830 | 1829 | 1828 | 1827 | 1826 | 1825 | 1824 | 1823 | 1822 | 1821 | 1820 | 1819 | 1818 | 1817 | 1816 | 1815 | 1814 | 1813 | 1812 | 1811 | 1810 | 1809 | 1808 | 1807 | 1806 | 1805 | 1804 | 1803 | 1802 | 1801 | 1800 | 1799 | 1798 | 1797 | 1796 | 1795 | 1794 | 1793 | 1792 | 1791 | 1790 | 1789 | 1788 | 1787 | 1786 | 1785 | 1784 | 1783 | 1782 | 1781 | 1780 | 1779 | 1778 | 1777 | 1776 | 1775 | 1774 | 1773 | 1772 | 1771 | 1770 | 1769 | 1768 | 1767 | 1766 | 1765 | 1764 | 1763 | 1762 | 1761 | 1760 | 1759 | 1758 | 1757 | 1756 | 1755 | 1754 | 1753 | 1752 | 1751 | 1750 | 1749 | 1748 | 1747 | 1746 | 1745 | 1744 | 1743 | 1742 | 1741 | 1740 | 1739 | 1738 | 1737 | 1736 | 1735 | 1734 | 1733 | 1732 | 1731 | 1730 | 1729 | 1728 | 1727 | 1726 | 1725 | 1724 | 1723 | 1722 | 1721 | 1720 | 1719 | 1718 | 1717 | 1716 | 1715 | 1714 | 1713 | 1712 | 1711 | 1710 | 1709 | 1708 | 1707 | 1706 | 1705 | 1704 | 1703 | 1702 | 1701 | 1700 | 1699 | 1698 | 1697 | 1696 | 1695 | 1694 | 1693 | 1692 | 1691 | 1690 | 1689 | 1688 | 1687 | 1686 | 1685 | 1684 | 1683 | 1682 | 1681 | 1680 | 1679 | 1678 | 1677 | 1676 | 1675 | 1674 | 1673 | 1672 | 1671 | 1670 | 1669 | 1668 | 1667 | 1666 | 1665 | 1664 | 1663 | 1662 | 1661 | 1660 | 1659 | 1658 | 1657 | 1656 | 1655 | 1654 | 1653 | 1652 | 1651 | 1650 | 1649 | 1648 | 1647 | 1646 | 1645 | 1644 | 1643 | 1642 | 1641 | 1640 | 1639 | 1638 | 1637 | 1636 | 1635 | 1634 | 1633 | 1632 | 1631 | 1630 | 1629 | 1628 | 1627 | 1626 | 1625 | 1624 | 1623 | 1622 | 1621 | 1620 | 1619 | 1618 | 1617 | 1616 | 1615 | 1614 | 1613 | 1612 | 1611 | 1610 | 1609 | 1608 | 1607 | 1606 | 1605 | 1604 | 1603 | 1602 | 1601 | 1600 | 1599 | 1598 | 1597 | 1596 | 1595 | 1594 | 1593 | 1592 | 1591 | 1590 | 1589 | 1588 | 1587 | 1586 | 1585 | 1584 | 1583 | 1582 | 1581 | 1580 | 1579 | 1578 | 1577 | 1576 | 1575 | 1574 | 1573 | 1572 | 1571 | 1570 | 1569 | 1568 | 1567 | 1566 | 1565 | 1564 | 1563 | 1562 | 1561 | 1560 | 1559 | 1558 | 1557 | 1556 | 1555 | 1554 | 1553 | 1552 | 1551 | 1550 | 1549 | 1548 | 1547 | 1546 | 1545 | 1544 | 1543 | 1542 | 1541 | 1540 | 1539 | 1538 | 1537 | 1536 | 1535 | 1534 | 1533 | 1532 | 1531 | 1530 | 1529 | 1528 | 1527 | 1526 | 1525 | 1524 | 1523 | 1522 | 1521 | 1520 | 1519 | 1518 | 1517 | 1516 | 1515 | 1514 | 1513 | 1512 | 1511 | 1510 | 1509 | 1508 | 1507 | 1506 | 1505 | 1504 | 1503 | 1502 | 1501 | 1500 | 1499 | 1498 | 1497 | 1496 | 1495 | 1494 | 1493 | 1492 | 1491 | 1490 | 1489 | 1488 | 1487 | 1486 | 1485 | 1484 | 1483 | 1482 | 1481 | 1480 | 1479 | 1478 | 1477 | 1476 | 1475 | 1474 | 1473 | 1472 | 1471 | 1470 | 1469 | 1468 | 1467 | 1466 | 1465 | 1464 | 1463 | 1462 | 1461 | 1460 | 1459 | 1458 | 1457 | 1456 | 1455 | 1454 | 1453 | 1452 | 1451 | 1450 | 1449 | 1448 | 1447 | 1446 | 1445 | 1444 | 1443 | 1442 | 1441 | 1440 | 1439 | 1438 | 1437 | 1436 | 1435 | 1434 | 1433 | 1432 | 1431 | 1430 | 1429 | 1428 | 1427 | 1426 | 1425 | 1424 | 1423 | 1422 | 1421 | 1420 | 1419 | 1418 | 1417 | 1416 | 1415 | 1414 | 1413 | 1412 | 1411 | 1410 | 1409 | 1408 | 1407 | 1406 | 1405 | 1404 | 1403 | 1402 | 1401 | 1400 | 1399 | 1398 | 1397 | 1396 | 1395 | 1394 | 1393 | 1392 | 1391 | 1390 | 1389 | 1388 | 1387 | 1386 | 1385 | 1384 | 1383 | 1382 | 1381 | 1380 | 1379 | 1378 | 1377 | 1376 | 1375 | 1374 | 1373 | 1372 | 1371 | 1370 | 1369 | 1368 | 1367 | 1366 | 1365 | 1364 | 1363 | 1362 | 1361 | 1360 | 1359 | 1358 | 1357 | 1356 | 1355 | 1354 | 1353 | 1352 | 1351 | 1350 | 1349 | 1348 | 1347 | 1346 | 1345 | 1344 | 1343 | 1342 | 1341 | 1340 | 1339 | 1338 | 1337 | 1336 | 1335 | 1334 | 1333 | 1332 | 1331 | 1330 | 1329 | 1328 | 1327 | 1326 | 1325 | 1324 | 1323 | 1322 | 1321 | 1320 | 1319 | 1318 | 1317 | 1316 | 1315 | 1314 | 1313 | 1312 | 1311 | 1310 | 1309 | 1308 | 1307 | 1306 | 1305 | 1304 | 1303 | 1302 | 1301 | 1300 | 1299 | 1298 | 1297 | 1296 | 1295 | 1294 | 1293 | 1292 | 1291 | 1290 | 1289 | 1288 | 1287 | 1286 | 1285 | 1284 | 1283 | 1282 | 1281 | 1280 | 1279 | 1278 | 1277 | 1276 | 1275 | 1274 | 1273 | 1272 | 1271 | 1270 | 1269 | 1268 | 1267 | 1266 | 1265 | 1264 | 1263 | 1262 | 1261 | 1260 | 1259 | 1258 | 1257 | 1256 | 1255 | 1254 | 1253 | 1252 | 1251 | 1250 | 1249 | 1248 | 1247 | 1246 | 1245 | 1244 | 1243 | 1242 | 1241 | 1240 | 1239 | 1238 | 1237 | 1236 | 1235 | 1234 | 1233 | 1232 | 1231 | 1230 | 1229 | 1228 | 1227 | 1226 | 1225 | 1224 | 1223 | 1222 | 1221 | 1220 | 1219 | 1218 | 1217 | 1216 | 1215 | 1214 | 1213 | 1212 | 1211 | 1210 | 1209 | 1208 | 1207 | 1206 | 1205 | 1204 | 1203 | 1202 | 1201 | 1200 | 1199 | 1198 | 1197 | 1196 | 1195 | 1194 | 1193 | 1192 | 1191 | 1190 | 1189 | 1188 | 1187 | 1186 | 1185 | 1184 | 1183 | 1182 | 1181 | 1180 | 1179 | 1178 | 1177 | 1176 | 1175 | 1174 | 1173 | 1172 | 1171 | 1170 | 1169 | 1168 | 1167 | 1166 | 1165 | 1164 | 1163 | 1162 | 1161 | 1160 | 1159 | 1158 | 1157 | 1156 | 1155 | 1154 | 1153 | 1152 | 1151 | 1150 | 1149 | 1148 | 1147 | 1146 | 1145 | 1144 | 1143 | 1142 | 1141 | 1140 | 1139 | 1138 | 1137 | 1136 | 1135 | 1134 | 1133 | 1132 | 1131 | 1130 | 1129 | 1128 | 1127 | 1126 | 1125 | 1124 | 1123 | 1122 | 1121 | 1120 | 1119 | 1118 | 1117 | 1116 | 1115 | 1114 | 1113 | 1112 | 1111 | 1110 | 1109 | 1108 | 1107 | 1106 | 1105 | 1104 | 1103 | 1102 | 1101 | 1100 | 1099 | 1098 | 1097 | 1096 | 1095 | 1094 | 1093 | 1092 | 1091 | 1090 | 1089 | 1088 | 1087 | 1086 | 1085 | 1084 | 1083 | 1082 | 1081 | 1080 | 1079 | 1078 | 1077 | 1076 | 1075 | 1074 | 1073 | 1072 | 1071 | 1070 | 1069 | 1068 | 1067 | 1066 | 1065 | 1064 | 1063 | 1062 | 1061 | 1060 | 1059 | 1058 | 1057 | 1056 | 1055 | 1054 | 1053 | 1052 | 1051 | 1050 | 1049 | 1048 | 1047 | 1046 | 1045 | 1044 | 1043 | 1042 | 1041 | 1040 | 1039 | 1038 | 1037 | 1036 | 1035 | 1034 | 1033 | 1032 | 1031 | 1030 | 1029 | 1028 | 1027 | 1026 | 1025 | 1024 | 1023 | 1022 | 1021 | 1020 | 1019 | 1018 | 1017 | 1016 | 1015 | 1014 | 1013 | 1012 | 1011 | 1010 | 1009 | 1008 | 1007 | 1006 | 1005 | 1004 | 1003 | 1002 | 1001 | 1000 | 999 | 998 | 997 | 996 | 995 | 994 | 993 | 992 | 991 | 990 | 989 | 988 | 987 | 986 | 985 | 984 | 983 | 982 | 981 | 980 | 979 | 978 | 977 | 976 | 975 | 974 | 973 | 972 | 971 | 970 | 969 | 968 | 967 | 966 | 965 | 964 | 963 | 962 | 961 | 960 | 959 | 958 | 957 | 956 | 955 | 954 | 953 | 952 | 951 | 950 | 949 | 948 | 947 | 946 | 945 | 944 | 943 | 942 | 941 | 940 | 939 | 938 | 937 | 936 | 935 | 934 | 933 | 932 | 931 | 930 | 929 | 928 | 927 | 926 | 925 | 924 | 923 | 922 | 921 | 920 | 919 | 918 | 917 | 916 | 915 | 914 | 913 | 912 | 911 | 910 | 909 | 908 | 907 | 906 | 905 | 904 | 903 | 902 | 901 | 900 | 899 | 898 | 897 | 896 | 895 | 894 | 893 | 892 | 891 | 890 | 889 | 888 | 887 | 886 | 885 | 884 | 883 | 882 | 881 | 880 | 879 | 878 | 877 | 876 | 875 | 874 | 873 | 872 | 871 | 870 | 869 | 868 | 867 | 866 | 865 | 864 | 863 | 862 | 861 | 860 | 859 | 858 | 857 | 856 | 855 | 854 | 853 | 852 | 851 | 850 | 849 | 848 | 847 | 846 | 845 | 844 | 843 | 842 | 841 | 840 | 839 | 838 | 837 | 836 | 835 | 834 | 833 | 832 | 831 | 830 | 829 | 828 | 827 | 826 | 825 | 824 | 823 | 822 | 821 | 820 | 819 | 818 | 817 | 816 | 815 | 814 | 813 | 812 | 811 | 810 | 809 | 808 | 807 | 806 | 805 | 804 | 803 | 802 | 801 | 800 | 799 | 798 | 797 | 796 | 795 | 794 | 793 | 792 | 791 | 790 | 789 | 788 | 787 | 786 | 785 | 784 | 783 | 782 | 781 | 780 | 779 | 778 | 777 | 776 | 775 | 774 | 773 | 772 | 771 | 770 | 769 | 768 | 767 | 766 | 765 | 764 | 763 | 762 | 761 | 760 | 759 | 758 | 757 | 756 | 755 | 754 | 753 | 752 | 751 | 750 | 749 | 748 | 747 | 746 | 745 | 744 | 743 | 742 | 741 | 740 | 739 | 738 | 737 | 736 | 735 | 734 | 733 | 732 | 731 | 730 | 729 | 728 | 727 | 726 | 725 | 724 | 723 | 722 | 721 | 720 | 719 | 718 | 717 | 716 | 715 | 714 | 713 | 712 | 711 | 710 | 709 | 708 | 707 | 706 | 705 | 704 | 703 | 702 | 701 | 700 | 699 | 698 | 697 | 696 | 695 | 694 | 693 | 692 | 691 | 690 | 689 | 688 | 687 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-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|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-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## 24.1 ELECTRICITY GENERATION AND SALES

|                  | 1994     | 1999     | 2000     | 2001     | 2002     | 2003     | 2004     |
|------------------|----------|----------|----------|----------|----------|----------|----------|
| Gigawatt Hours   |          |          |          |          |          |          |          |
| Generation       | 20,675.4 | 29,520.1 | 31,665.0 | 33,088.5 | 34,664.5 | 35,330.6 | 36,809.6 |
| Sales            | 18,901.5 | 27,123.3 | 29,133.1 | 29,596.5 | 31,089.3 | 31,985.7 | 33,171.2 |
| Domestic         | 3,466.0  | 5,344.1  | 5,726.3  | 5,984.6  | 6,347.6  | 6,507.1  | 6,524.8  |
| Manufacturing    | 8,528.2  | 11,653.5 | 12,485.4 | 12,239.1 | 12,732.9 | 13,706.7 | 14,446.2 |
| Other Industries | 6,907.3  | 10,125.4 | 10,921.3 | 11,372.9 | 12,008.7 | 11,771.9 | 12,200.2 |

Source : Energy Market Authority (with effect from 2003)  
 SP Services Ltd (with effect from 2003)  
 SP PowerAssets Ltd

## 24.2 GAS SALES

|                                 | 1994      | 1999      | 2000      | 2001      | 2002      | 2003      | 2004      |
|---------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Piped Gas Sales (million units) | 1,045.7   | 1,306.8   | 1,363.1   | 1,403.3   | 1,388.8   | 1,371.1   | 1,348.0   |
| Domestic                        | 381.5     | 486.7     | 510.3     | 542.7     | 570.5     | 595.3     | 575.8     |
| Non-Domestic                    | 664.3     | 820.1     | 852.8     | 860.5     | 818.3     | 775.9     | 772.3     |
| LP Gas Sales (net tonnes)       | 144,395.3 | 122,152.6 | 123,000.3 | 120,925.8 | 145,524.9 | 119,156.2 | 120,868.1 |
| Domestic <sup>1</sup>           | 78,673.1  | 78,705.2  | 81,619.5  | 75,971.7  | 51,393.0  | 45,925.4  | 40,296.0  |
| Non-Domestic <sup>1</sup>       | 65,722.2  | 43,447.4  | 41,380.9  | 44,954.1  | 94,131.8  | 73,230.8  | 80,572.1  |

Source : Singapore Department of Statistics  
 PowerGas Ltd  
 City Gas Pte Ltd (with effect from 1st quarter 2002)

One unit is equivalent to one kilowatt hour

<sup>1</sup> With effect from 2002, data have been revised.



## 24.3 FIRE OCCURRENCES

| Type of Property                |       |       |       |       |       |       | Number |
|---------------------------------|-------|-------|-------|-------|-------|-------|--------|
|                                 | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004   |
| Total                           | 5,830 | 5,850 | 5,280 | 5,095 | 4,943 | 4,540 | 4,916  |
| Building                        | 3,910 | 4,696 | 4,320 | 4,264 | 3,816 | 3,634 | 3,891  |
| Residential                     | 3,283 | 3,876 | 3,560 | 3,499 | 3,114 | 3,017 | 3,210  |
| Public, Commercial & Industrial | 627   | 820   | 760   | 765   | 702   | 617   | 681    |
| Non-Building                    | 1,920 | 1,154 | 960   | 831   | 1,127 | 906   | 1,025  |

Source : Singapore Civil Defence Force

## 24.4 SELECTED CRIMINAL OFFENCES

| Type of Offence          | 1994  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|
| Number of Cases Reported |       |       |       |       |       |       |       |
| Robbery                  | 812   | 663   | 463   | 562   | 911   | 973   | 829   |
| Housebreaking            | 2,459 | 1,562 | 993   | 965   | 1,110 | 1,337 | 1,237 |
| Motor Vehicle Theft      | 2,569 | 2,149 | 1,651 | 1,252 | 1,248 | 1,190 | 1,117 |
| Snatch Theft             | 447   | 348   | 299   | 304   | 405   | 387   | 429   |
| Per 100,000 Population   |       |       |       |       |       |       |       |
| Robbery                  | 24    | 17    | 12    | 14    | 22    | 23    | 20    |
| Housebreaking            | 72    | 40    | 25    | 23    | 27    | 32    | 29    |
| Motor Vehicle Theft      | 75    | 54    | 41    | 30    | 30    | 28    | 26    |
| Snatch Theft             | 13    | 9     | 7     | 7     | 10    | 9     | 10    |

Source : Police Intelligence Department



## **SINGAPORE DEPARTMENT OF STATISTICS INFORMATION DISSEMINATION SERVICES**

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- ◆ Latest Data / KeyStats  
which provide key data on Singapore's economy and population.
- ◆ Media Releases  
which cover the Economic Survey of Singapore, 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, Performance of the Tourism Sector and Real Estate Information.
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which provide papers on economic and social topics.

An advance release calendar for key Singapore economic indicators is available.

The Website provides a convenient gateway to international statistical websites:

- ◆ Guide to International Statistics  
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- ◆ 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.

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## SINGAPORE DEPARTMENT OF STATISTICS INFORMATION DISSEMINATION SERVICES (continued)

### SingStat Time Series (STS) Online System

The SingStat Time Series (STS) Online System is a new internet-accessible time series retrieval system. The STS includes some 5,000 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 are available via **Statistics Singapore Website**. For enquiries, please contact our Department at Tel : 6332-7066.

### SingStat DataShop

The SingStat DataShop is the virtual shopfront for official statistics on Singapore. Users can purchase softcopies of statistical reports online using credit card. Statistical reports available include:

- |                                        |                                          |
|----------------------------------------|------------------------------------------|
| ◆ Monthly Digest of Statistics         | ◆ Singapore's Corporate Sector           |
| ◆ Singapore Statistical Highlights     | ◆ Singapore's Investment Abroad          |
| ◆ Yearbook of Statistics               | ◆ Foreign Equity Investment in Singapore |
| ◆ Population Census 2000 Releases      | ◆ Economic Surveys Series                |
| ◆ Household Expenditure Survey         | ◆ Statistical Indices                    |
| ◆ Statistics on Marriages and Divorces | ◆ Occasional Papers                      |

The SingStat Datashop can be accessed via the Statistics Singapore Website.

### E-survey

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

#### ***Statistical Enquiries and Feedback***

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

- |             |    |                                                                                       |
|-------------|----|---------------------------------------------------------------------------------------|
| ◆ E-mail us | at | <b>info@singstat.gov.sg</b>                                                           |
| ◆ Fax to us | at | <b>Tel: (65) 6332-7689</b>                                                            |
| ◆ Call us   | at | <b>Tel: 1800-3238118* (local callers)</b><br><b>(65) 6332-7738 (overseas callers)</b> |

\* 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.



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